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Tax I.D 62-0814289
Est. 1970

Quality Control Summary
SDG: L729800

For: URS Corporation - Tucson AZ - 1088308
Holloman AFB

L729800

Lab SampleID.	Client ID
L729800-01	H-TU904-GW03-NT01
L729800-02	H-TU904-GW03-ND01

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Quality Control Summary
SDG: L729800

For: URS Corporation - Tucson AZ - 1088308
Project: Holloman AFB
November 25, 2014

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.

Mercury by Method 7470A

Laboratory Control Sample

Sample L729800-01 was analyzed in analytical batch WG751135. The laboratory control sample associated with this sample was within the laboratory control limits for all target analytes reported from this batch.

Sample L729800-02 was analyzed in analytical batch WG751136. The laboratory control sample associated with this sample was within the laboratory control limits for all target analytes reported from this batch.

Matrix Spike/Matrix Spike Duplicate

For analytical batch WG751135 matrix spike/matrix spike duplicate analysis was performed on sample L729800-01. The matrix spike recoveries and relative percent differences were within laboratory control limits for all target analytes reported from this batch.

For analytical batch WG751135 matrix spike/matrix spike duplicate analysis was performed on sample L729559-02. The matrix spike recoveries were below laboratory control limits for Mercury. The relative percent difference exceeded laboratory limits for Mercury. Mercury did not meet the method limit criteria for the post digest spike.

For analytical batch WG751136 matrix spike/matrix spike duplicate analysis was performed on sample L729800-02. The matrix spike recoveries were below laboratory control limits for Mercury,Dissolved. The relative percent difference exceeded laboratory limits for Mercury,Dissolved.

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 CVAA4 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

Sample L729800-01 was analyzed in analytical batch WG750950. 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.

Sample L729800-02 was analyzed in analytical batch WG751198. 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.

Sample L729800-02 was analyzed in analytical batch WG752582. 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.

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Quality Control Summary
SDG: L729800

For: URS Corporation - Tucson AZ - 1088308
Project: Holloman AFB
November 25, 2014

Matrix Spike/Matrix Spike Duplicate
For analytical batch WG750950 matrix spike/matrix spike duplicate analysis was performed on sample L729559-02. The matrix spike recoveries were above laboratory control limits for Aluminum. The spike recoveries were within limits for the remaining target compounds reported from this batch. The relative percent difference was within laboratory limits for all target analytes reported from this batch.

For analytical batch WG750950 matrix spike/matrix spike duplicate analysis was performed on sample L729800-01. The matrix spike recoveries were above laboratory control limits for Aluminum. The matrix spike recoveries were below laboratory control limits for Barium, Beryllium, Copper, Manganese, Vanadium, and Zinc. The relative percent difference exceeded laboratory limits for Copper, Manganese, Vanadium, and Zinc.

For analytical batch WG751198 matrix spike/matrix spike duplicate analysis was performed on sample L729798-03. The matrix spike recoveries and relative percent differences were within laboratory control limits for all target analytes reported from this batch.

For analytical batch WG752582 matrix spike/matrix spike duplicate analysis was performed on sample L730147-17. The matrix spike recoveries and relative percent differences were within laboratory control limits for all target analytes reported from this batch.

For analytical batch WG752582 matrix spike/matrix spike duplicate analysis was performed on sample L729800-02. The matrix spike recoveries and relative percent differences were within laboratory control limits for all target analytes reported from this batch.

For analytical batch WG752582 matrix spike/matrix spike duplicate analysis was performed on sample L730147-06. 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 ICP12 was calibrated on 10/29/2014. The initial calibration and continuing calibration verification standards were within method limits.

Instrument ICP11 was calibrated on 10/28/2014. The initial calibration and continuing calibration verification standards were within method limits.

Instrument ICP11 was calibrated on 11/5/2014. The initial calibration and continuing calibration verification standards were within method limits.

Trace Metals by Method 6020
Laboratory Control Sample
Sample L729800-01 was analyzed in analytical batch WG751220. 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. All isotopes reported were the same on QC and samples.

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Quality Control Summary
SDG: L729800
For: URS Corporation - Tucson AZ - 1088308
Project: Holloman AFB
November 25, 2014

Sample L729800-02 was analyzed in analytical batch WG751906. 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. All isotopes reported were the same on QC and samples.

Matrix Spike/Matrix Spike Duplicate

For analytical batch WG751220 matrix spike/matrix spike duplicate analysis was performed on sample L729800-01. The matrix spike recoveries were within laboratory control limits for all target analytes reported from this batch. The relative percent difference exceeded laboratory limits for Selenium. Selenium did not meet the method limit criteria for the serial dilution.

For analytical batch WG751906 matrix spike/matrix spike duplicate analysis was performed on sample L729800-02. The matrix spike recoveries and relative percent differences were within laboratory control limits for all target analytes reported from this batch.

For analytical batch WG751906 matrix spike/matrix spike duplicate analysis was performed on sample L729559-01. The matrix spike recoveries were below laboratory control limits for Nickel,Dissolved. The spike recoveries were within limits for the remaining target compounds reported from this batch. The relative percent difference was within laboratory limits for all target analytes reported from this batch. Nickel,Dissolved did not meet the method limit criteria for the serial dilution.

Blank Analysis

The method blank, the initial, and all continuing calibration blanks contained no analytes at concentrations above the method reporting limit except for the method blank for WG751220 which had a detection of Nickel above half RDL.

Calibration Summary

Instrument ICPMS8 was calibrated on 10/31/2014. The initial calibration and continuing calibration verification standards were within method limits.

Instrument ICPMS8 was calibrated on 11/5/2014. The initial calibration and continuing calibration verification standards were within method limits.

<u>Semi-Volatiles by Method 8270C</u>

Laboratory Control Sample

Sample L729800-01 was analyzed in analytical batch WG751293. 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.

Sample L729800-01 was analyzed in analytical batch WG750797. 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.

Matrix Spike/Matrix Spike Duplicate

For analytical batch WG751293 matrix spike/matrix spike duplicate analysis was performed on sample L729800-01. 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: L729800
For: URS Corporation - Tucson AZ - 1088308
Project: Holloman AFB
November 25, 2014

For analytical batch WG750797 matrix spike/matrix spike duplicate analysis was performed on sample L729559-02. The matrix spike recoveries were above laboratory control limits for 2-Methylnaphthalene, Fluorene, Phenanthrene, and Pyrene. The matrix spike recoveries were below laboratory control limits for 2-Methylnaphthalene and Naphthalene. The spike recoveries were within limits for the remaining target compounds reported from this batch. The relative percent difference exceeded laboratory limits for 2-Methylnaphthalene and Naphthalene.

For analytical batch WG750797 matrix spike/matrix spike duplicate analysis was performed on sample L729800-01. The matrix spike recoveries were above laboratory control limits for Pyrene. The spike recoveries were within limits for the remaining target compounds reported from this batch. The relative percent difference was within laboratory 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 BNAMS11 was calibrated on 10/4/2014. The initial calibration and continuing calibration verification standards were within method limits.

Instrument BNAMS13 was calibrated on 10/24/2014. 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
Sample L729800-01 was analyzed in analytical batch WG751825. 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.

Matrix Spike/Matrix Spike Duplicate
For analytical batch WG751825 matrix spike/matrix spike duplicate analysis was performed on sample L729800-01. 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 SVGC31 was calibrated on 10/29/2014. The initial calibration and continuing calibration verification standards were within method limits.

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Quality Control Summary

SDG: L729800

For: URS Corporation - Tucson AZ - 1088308
Project: Holloman AFB
November 25, 2014

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: 2014.11.26 17:04:50 -06'00'

Nancy F. McLain
ESC Representative
ESC Lab Sciences

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

Report Summary

Wednesday November 26, 2014

Report Number: L729800
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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REPORT OF ANALYSIS

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

November 26, 2014

ESC Sample # : L729800-01

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.
Antimony	7440-36-0	U	1	2.5	5	ug/l		6020	10/31/14	5
Arsenic	7440-38-2	5.4	1.2	2.5	5	ug/l		6020	10/31/14	5
Cadmium	7440-43-9	0.82	0.8	1.3	2.5	ug/l	J	6020	10/31/14	5
Chromium	7440-47-3	24.	2.7	5.0	10	ug/l		6020	10/31/14	5
Cobalt	7440-48-4	6.5	1.3	2.5	5	ug/l		6020	10/31/14	5
Lead	7439-92-1	14.	1.2	2.5	5	ug/l		6020	10/31/14	5
Nickel	7440-02-0	14.	1.8	2.5	5	ug/l	B	6020	10/31/14	5
Selenium	7782-49-2	22.	1.9	2.5	10	ug/l	O1J3	6020	11/05/14	5
Silver	7440-22-4	U	1.6	2.5	5	ug/l		6020	10/31/14	5
Thallium	7440-28-0	U	0.95	2.5	5	ug/l		6020	10/31/14	5
Mercury	7439-97-6	0.10	0.049	0.080	0.2	ug/l	J	7470A	10/28/14	1
Aluminum	7429-90-5	8300	180	250	500	ug/l	V	6010B	10/29/14	5
Barium	7440-39-3	130	8.5	13.	25	ug/l	J6	6010B	10/29/14	5
Beryllium	7440-41-7	U	3.5	5.0	10	ug/l	J6	6010B	10/29/14	5
Copper	7440-50-8	U	26	50.	100	ug/l	J6J3	6010B	10/29/14	5
Manganese	7439-96-5	660	6	25.	50	ug/l	J3J6	6010B	10/29/14	5
Vanadium	7440-62-2	21.	12	50.	100	ug/l	JJ6J	6010B	10/29/14	5
Zinc	7440-66-6	97.	30	130	250	ug/l	JJ6J	6010B	10/29/14	5
Diesel and Oil Ranges										
C10-C28 Diesel Range		360	22	33.	100	ug/l		8015	10/31/14	1
C28-C40 Oil Range		420	12	33.	100	ug/l		8015	10/31/14	1
Surrogate Recovery										
o-Terphenyl	84-15-1	107.				% Rec.		8015	10/31/14	1
Polynuclear Aromatic Hydrocarbons										
Anthracene	120-12-7	U	0.013	0.025	0.05	ug/l		8270 C-	10/29/14	1
Acenaphthene	83-32-9	0.028	0.0082	0.025	0.05	ug/l	J	8270 C-	10/29/14	1
Acenaphthylene	208-96-8	U	0.011	0.025	0.05	ug/l		8270 C-	10/29/14	1
Benzo(a)anthracene	56-55-3	U	0.012	0.025	0.05	ug/l		8270 C-	10/29/14	1
Benzo(a)pyrene	50-32-8	U	0.016	0.025	0.05	ug/l		8270 C-	10/29/14	1
Benzo(b)fluoranthene	205-99-2	U	0.019	0.025	0.05	ug/l		8270 C-	10/29/14	1
Benzo(g,h,i)perylene	191-24-2	U	0.016	0.025	0.05	ug/l		8270 C-	10/29/14	1
Benzo(k)fluoranthene	207-08-9	U	0.026	0.035	0.05	ug/l		8270 C-	10/29/14	1
Chrysene	218-01-9	U	0.014	0.025	0.05	ug/l		8270 C-	10/29/14	1
Dibenz(a,h)anthracene	53-70-3	U	0.0045	0.025	0.05	ug/l		8270 C-	10/29/14	1
Fluoranthene	206-44-0	U	0.016	0.025	0.05	ug/l		8270 C-	10/29/14	1
Fluorene	86-73-7	0.042	0.009	0.025	0.05	ug/l	J	8270 C-	10/29/14	1
Indeno(1,2,3-cd)pyrene	193-39-5	U	0.0074	0.025	0.05	ug/l		8270 C-	10/29/14	1
Naphthalene	91-20-3	0.19	0.012	0.025	0.25	ug/l	J	8270 C-	10/29/14	1
Phenanthrene	85-01-8	0.044	0.018	0.025	0.05	ug/l	J	8270 C-	10/29/14	1
Pyrene	129-00-0	U	0.016	0.025	0.05	ug/l	J5	8270 C-	10/29/14	1
2-Methylnaphthalene	91-57-6	0.48	0.016	0.025	0.25	ug/l		8270 C-	10/29/14	1
Surrogate Recovery										

U = Not Detected at the LOD
Note:
The reported analytical results relate only to the sample submitted.
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Reported: 11/26/14 16:56 Printed: 11/26/14 16:57
L729800-01 (ICP METALS) - Non-target compounds too high to run at a lower dilution.
L729800-01 (GFAA METALS) - Non-target compounds too high to run at a lower dilution.

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REPORT OF ANALYSIS

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

November 26, 2014

ESC Sample # : L729800-01

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.
Nitrobenzene-d5	4165-60-0	81.1				% Rec.		8270 C-	10/29/14	1
2-Fluorobiphenyl	321-60-8	81.4				% Rec.		8270 C-	10/29/14	1
p-Terphenyl-d14	1718-51-0	92.2				% Rec.		8270 C-	10/29/14	1
Base/Neutral Extractables										
Bis(2-chlorethoxy)methane	111-91-1	U	0.33	5.0	10	ug/l		8270C	10/29/14	1
Bis(2-chloroethyl)ether	111-44-4	U	1.6	5.0	10	ug/l		8270C	10/29/14	1
Bis(2-chloroisopropyl)ether	108-60-1	U	0.44	5.0	10	ug/l		8270C	10/29/14	1
Benzyl Alcohol	100-51-6	0.59	0.39	5.0	10	ug/l	J	8270C	10/29/14	1
Carbazole	86-74-8	U	0.16	5.0	10	ug/l		8270C	10/29/14	1
Benzoic acid	65-85-0	9.1	0.44	5.0	10	ug/l	J	8270C	10/29/14	1
Dibenzofuran	132-64-9	U	0.34	5.0	10	ug/l		8270C	10/29/14	1
4-Bromophenyl-phenylether	101-55-3	U	0.36	5.0	10	ug/l		8270C	10/29/14	1
2-Chloronaphthalene	91-58-7	U	0.33	0.50	1	ug/l		8270C	10/29/14	1
4-Chlorophenyl-phenylether	7005-72-3	U	0.3	5.0	10	ug/l		8270C	10/29/14	1
3,3-Dichlorobenzidine	91-94-1	U	2	5.0	10	ug/l		8270C	10/29/14	1
2,4-Dinitrotoluene	121-14-2	U	1.6	5.0	10	ug/l		8270C	10/29/14	1
2,6-Dinitrotoluene	606-20-2	U	0.28	5.0	10	ug/l		8270C	10/29/14	1
Hexachlorobenzene	118-74-1	U	0.34	0.50	1	ug/l		8270C	10/29/14	1
Hexachloro-1,3-butadiene	87-68-3	U	0.33	5.0	10	ug/l		8270C	10/29/14	1
Hexachloroethane	67-72-1	U	0.36	5.0	10	ug/l		8270C	10/29/14	1
Isophorone	78-59-1	U	0.27	5.0	10	ug/l		8270C	10/29/14	1
Nitrobenzene	98-95-3	U	0.37	5.0	10	ug/l		8270C	10/29/14	1
n-Nitrosodimethylamine	62-75-9	U	1.3	5.0	10	ug/l		8270C	10/29/14	1
n-Nitrosodiphenylamine	86-30-6	U	0.3	5.0	10	ug/l		8270C	10/29/14	1
n-Nitrosodi-n-propylamine	621-64-7	U	0.4	5.0	10	ug/l		8270C	10/29/14	1
Benzylbutyl phthalate	85-68-7	U	0.28	1.0	3	ug/l		8270C	10/29/14	1
Bis(2-ethylhexyl)phthalate	117-81-7	0.82	0.71	1.0	3	ug/l	J	8270C	10/29/14	1
Di-n-butyl phthalate	84-74-2	0.46	0.27	1.0	3	ug/l	J	8270C	10/29/14	1
Diethyl phthalate	84-66-2	0.54	0.28	1.0	3	ug/l	J	8270C	10/29/14	1
Dimethyl phthalate	131-11-3	U	0.28	1.0	3	ug/l		8270C	10/29/14	1
Di-n-octyl phthalate	117-84-0	U	0.28	1.0	3	ug/l		8270C	10/29/14	1
1,2,4-Trichlorobenzene	120-82-1	U	0.36	5.0	10	ug/l		8270C	10/29/14	1
Acid Extractables										
4-Chloro-3-methylphenol	59-50-7	U	0.26	5.0	10	ug/l		8270C	10/29/14	1
2-Chlorophenol	95-57-8	U	0.28	5.0	10	ug/l		8270C	10/29/14	1
2,4-Dichlorophenol	120-83-2	U	0.28	5.0	10	ug/l		8270C	10/29/14	1
2,4-Dimethylphenol	105-67-9	U	0.62	5.0	10	ug/l		8270C	10/29/14	1
4,6-Dinitro-2-methylphenol	534-52-1	U	2.6	5.0	10	ug/l		8270C	10/29/14	1
2,4-Dinitrophenol	51-28-5	U	3.2	5.0	10	ug/l		8270C	10/29/14	1
2-Methylphenol	95-48-7	U	0.31	5.0	10	ug/l		8270C	10/29/14	1
3&4-Methyl Phenol	3&4-Methyl	U	0.27	5.0	10	ug/l		8270C	10/29/14	1
2-Nitrophenol	88-75-5	U	0.32	5.0	10	ug/l		8270C	10/29/14	1
4-Nitrophenol	100-02-7	U	2	5.0	10	ug/l		8270C	10/29/14	1
4-Chloroaniline	106-47-8	U	0.38	5.0	10	ug/l		8270C	10/29/14	1
2-Nitroaniline	88-74-4	U	1.9	5.0	10	ug/l		8270C	10/29/14	1

U = Not Detected at the LOD
Note:
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L729800-01 (ICP METALS) - Non-target compounds too high to run at a lower dilution.
L729800-01 (GFAA METALS) - Non-target compounds too high to run at a lower dilution.

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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 26, 2014

ESC Sample # : L729800-01

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.
3-Nitroaniline	99-09-2	U	0.31	5.0	10	ug/l		8270C	10/29/14	1
1,2-Diphenylhydrazine	103-33-3	U	0.32	5.0	10	ug/l		8270C	10/29/14	1
4-Nitroaniline	100-01-6	U	0.35	5.0	10	ug/l		8270C	10/29/14	1
Pentachlorophenol	87-86-5	U	0.31	5.0	10	ug/l		8270C	10/29/14	1
Phenol	108-95-2	U	0.33	5.0	10	ug/l		8270C	10/29/14	1
2,4,5-Trichlorophenol	95-95-4	U	0.24	5.0	10	ug/l		8270C	10/29/14	1
2,4,6-Trichlorophenol	88-06-2	U	0.3	5.0	10	ug/l		8270C	10/29/14	1
Surrogate Recovery										
2-Fluorophenol	367-12-4	50.7				% Rec.		8270C	10/29/14	1
Phenol-d5	4165-62-2	38.0				% Rec.		8270C	10/29/14	1
Nitrobenzene-d5	4165-60-0	54.9				% Rec.		8270C	10/29/14	1
2-Fluorobiphenyl	321-60-8	60.2				% Rec.		8270C	10/29/14	1
2,4,6-Tribromophenol	118-79-6	78.5				% Rec.		8270C	10/29/14	1
p-Terphenyl-d14	1718-51-0	58.7				% Rec.		8270C	10/29/14	1

U = Not Detected at the LOD
Note:
The reported analytical results relate only to the sample submitted.
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Reported: 11/26/14 16:56 Printed: 11/26/14 16:57
L729800-01 (ICP METALS) - Non-target compounds too high to run at a lower dilution.
L729800-01 (GFAA METALS) - Non-target compounds too high to run at a lower dilution.

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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 26, 2014

ESC Sample # : L729800-02

Date Received : October 25, 2014
Description : Holloman AFB

Site ID :

Sample ID : H-TU904-GW03-ND01

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.
Antimony,Dissolved	7440-36-0	U	1	2.5	5	ug/l		6020	10/31/14	5
Arsenic,Dissolved	7440-38-2	1.6	1.2	2.5	5	ug/l	J	6020	10/31/14	5
Cadmium,Dissolved	7440-43-9	U	0.8	1.3	2.5	ug/l		6020	10/31/14	5
Chromium,Dissolved	7440-47-3	6.6	2.7	5.0	10	ug/l	J	6020	10/31/14	5
Cobalt,Dissolved	7440-48-4	4.5	1.3	2.5	5	ug/l	J	6020	10/31/14	5
Lead,Dissolved	7439-92-1	2.5	1.2	2.5	5	ug/l	J	6020	10/31/14	5
Nickel,Dissolved	7440-02-0	8.3	1.8	2.5	5	ug/l		6020	10/31/14	5
Selenium,Dissolved	7782-49-2	14.	1.9	2.5	5	ug/l		6020	10/31/14	5
Silver,Dissolved	7440-22-4	U	1.6	2.5	5	ug/l		6020	10/31/14	5
Thallium,Dissolved	7440-28-0	U	0.95	2.5	5	ug/l		6020	10/31/14	5
Mercury,Dissolved	7439-97-6	0.084	0.049	0.080	0.2	ug/l	JJ3J	7470A	10/28/14	1
Aluminum,Dissolved	7429-90-5	U	180	250	500	ug/l		6010B	11/05/14	5
Barium,Dissolved	7440-39-3	27.	8.5	13.	25	ug/l		6010B	11/05/14	5
Beryllium,Dissolved	7440-41-7	U	3.5	5.0	10	ug/l		6010B	11/05/14	5
Copper,Dissolved	7440-50-8	U	26	50.	100	ug/l		6010B	11/05/14	5
Manganese,Dissolved	7439-96-5	580	6	25.	50	ug/l		6010B	11/05/14	5
Vanadium,Dissolved	7440-62-2	U	12	50.	100	ug/l		6010B	11/05/14	5
Zinc,Dissolved	7440-66-6	U	30	130	250	ug/l		6010B	11/05/14	5

U = Not Detected at the LOD
Note:
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Reported: 11/26/14 16:56 Printed: 11/26/14 16:57
L729800-02 (ICP METALS) - Diluted due to matrix interference.
L729800-02 (GFAA METALS) - Non-target compounds too high to run at a lower dilution.

Attachment A
List of Analytes with QC Qualifiers

Sample Number	Work Group	Sample Type	Analyte	Run ID	Qualifier
L729800-01	WG751220	SAMP	Cadmium	R3001677	J
	WG751220	SAMP	Nickel	R3001677	B
	WG751220	SAMP	Selenium	R3002524	O1J3
	WG750950	SAMP	Aluminum	R3000939	V
	WG750950	SAMP	Barium	R3000939	J6
	WG750950	SAMP	Beryllium	R3000939	J6
	WG750950	SAMP	Copper	R3000939	J6J3
	WG750950	SAMP	Manganese	R3000939	J3J6
	WG750950	SAMP	Vanadium	R3000939	JJ6J3
	WG750950	SAMP	Zinc	R3000939	JJ6J3
	WG751135	SAMP	Mercury	R3000790	J
	WG750797	SAMP	Acenaphthene	R3000943	J
	WG750797	SAMP	Fluorene	R3000943	J
	WG750797	SAMP	Naphthalene	R3000943	J
	WG750797	SAMP	Phenanthrene	R3000943	J
	WG750797	SAMP	Pyrene	R3000943	J5
	WG751293	SAMP	Benzyl Alcohol	R3001002	J
	WG751293	SAMP	Benzoic acid	R3001002	J
	WG751293	SAMP	Bis(2-ethylhexyl)phthalate	R3001002	J
	WG751293	SAMP	Di-n-butyl phthalate	R3001002	J
	WG751293	SAMP	Diethyl phthalate	R3001002	J
L729800-02	WG751906	SAMP	Arsenic,Dissolved	R3001625	J
	WG751906	SAMP	Chromium,Dissolved	R3001625	J
	WG751906	SAMP	Cobalt,Dissolved	R3001625	J
	WG751906	SAMP	Lead,Dissolved	R3001625	J
	WG751136	SAMP	Mercury,Dissolved	R3000791	JJ3J6

Attachment B
Explanation of QC Qualifier Codes

Qualifier	Meaning
B	(EPA) - The indicated compound was found in the associated method blank as well as the laboratory sample.
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.
J5	The sample matrix interfered with the ability to make any accurate determination; spike value is high
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.

Mercury by Method 7470A

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Est. 1970

Quality Control Summary
SDG: L729800

Mercury by Method 7470A
URS Corporation - Tucson AZ - 1088308

Project: Holloman AFB
Project No: 23446543.0053AA

Login No: L729800

Lab SampleID.	Client ID
L729800-01	H-TU904-GW03-NT01
L729800-02	H-TU904-GW03-ND01

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: L729800
URS Corporation - Tucson AZ - 1088308

Test:	Mercury by Method 7470A		
Project No:	23446543.0053AA	Matrix:	Water - ug/L
Project:	Holloman AFB	EPA ID:	TN00003
Collection Date:	10/23/2014	**Analytic Batch:**	**WG751135**
Analysis Date:	10/28/2014 4:27:00 PM	Analyst:	572
Instrument ID:	CVAA4	Prep Date:	10/28/2014
Sample Numbers:	L729800-01		

Workgroup: **WG751135**

Sample Name	Collect Date	Prep Date	Analysis Date
L729800-01 1x	10/23/2014	10/28/2014	10/28/2014

Parameters in bold text are reported in this SDG

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Quality Control Summary
SDG: L729800
URS Corporation - Tucson AZ - 1088308

Test:	Mercury by Method 7470A		
Project No:	23446543.0053AA	Matrix:	Water - ug/L
Project:	Holloman AFB	EPA ID:	TN00003
Collection Date:	10/23/2014	**Analytic Batch:**	**WG751136**
Analysis Date:	10/28/2014 6:04:00 PM	Analyst:	572
Instrument ID:	CVAA4	Prep Date:	10/28/2014
Sample Numbers:	L729800-02		

Workgroup: **WG751136**

Sample Name	Collect Date	Prep Date	Analysis Date
L729800-02 1x	10/23/2014	10/28/2014	10/28/2014

Parameters in bold text are reported in this SDG

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Quality Control Summary
SDG: L729800
URS Corporation - Tucson AZ - 1088308

Test:	Mercury by Method 7470A		
Project No:	23446543.0053AA	Matrix:	Water - ug/L
Project:	Holloman AFB	EPA ID:	TN00003
Collection Date:	10/23/2014	**Analytic Batch:**	**WG751135**
Analysis Date:	10/28/2014 4:27:00 PM	Analyst:	572
Instrument ID:	CVAA4	Prep Date:	10/28/2014
Sample Numbers:	L729800-01		

Method Blank Summary

Instrument	Client Sample ID	Lab Sample ID	File Name	Analysis Date	Analysis Time
CVAA4	LCS WG751135	LCS WG751135	176	10/28/2014	4:21 PM
CVAA4	LCSD WG751135	LCSD WG751135	177	10/28/2014	4:24 PM
CVAA4	H-TU904-GW03-NT01	L729800-01	178	10/28/2014	4:27 PM
CVAA4	MS WG751135	MS WG751135	179	10/28/2014	4:30 PM
CVAA4	DUP WG751135	DUP WG751135	181	10/28/2014	4:35 PM
CVAA4	MSD WG751135	MSD WG751135	266	10/28/2014	8:56 PM
CVAA4	MS WG751135	MS WG751135	267	10/28/2014	8:59 PM
CVAA4	MSD WG751135	MSD WG751135	268	10/28/2014	9:02 PM
CVAA4	Blank WG751135	Blank WG751135	270	10/28/2014	9:08 PM
CVAA4	PS WG751135	PS WG751135	271	10/28/2014	9:11 PM

Parameters in bold text are reported in this SDG

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Quality Control Summary
SDG: L729800
URS Corporation - Tucson AZ - 1088308

Test:	Mercury by Method 7470A		
Project No:	23446543.0053AA	Matrix:	Water - ug/L
Project:	Holloman AFB	EPA ID:	TN00003
Collection Date:	10/23/2014	**Analytic Batch:**	**WG751136**
Analysis Date:	10/28/2014 6:04:00 PM	Analyst:	572
Instrument ID:	CVAA4	Prep Date:	10/28/2014
Sample Numbers:	L729800-02		

Method Blank Summary

Instrument	Client Sample ID	Lab Sample ID	File Name	Analysis Date	Analysis Time
CVAA4	Blank WG751136	Blank WG751136	208	10/28/2014	5:55 PM
CVAA4	LCS WG751136	LCS WG751136	209	10/28/2014	5:58 PM
CVAA4	LCSD WG751136	LCSD WG751136	210	10/28/2014	6:01 PM
CVAA4	H-TU904-GW03-ND01	L729800-02	211	10/28/2014	6:04 PM
CVAA4	MS WG751136	MS WG751136	212	10/28/2014	6:07 PM
CVAA4	DUP WG751136	DUP WG751136	214	10/28/2014	6:13 PM
CVAA4	MSD WG751136	MSD WG751136	269	10/28/2014	9:05 PM
CVAA4	PS WG751136	PS WG751136	272	10/28/2014	9:14 PM

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Quality Control Summary
SDG: L729800
URS Corporation - Tucson AZ - 1088308

Test:	Mercury by Method 7470A		
Project No:	23446543.0053AA	Matrix:	Water - ug/L
Project:	Holloman AFB	EPA ID:	TN00003
Collection Date:	10/23/2014	**Analytic Batch:**	**WG751135**
Analysis Date:	10/28/2014 4:27:00 PM	Analyst:	572
Instrument ID:	CVAA4	Prep Date:	10/28/2014
Sample Numbers:	L729800-01		

Method Blank

Analyte	CAS	RDL	MDL	Qualifier
Mercury	7439-97-6	< 0.200	< 0.0490	

Laboratory Control Sample (LCS)

Analyte	Dil	True Value	Found	% Rec	Control Limits	Qual
Mercury	1	3	2.8269	94	85 - 115	

Laboratory Control Sample Duplicate (LCSD)

Analyte	Dil	True Value	Found	% Rec	Control Limits	Qual
Mercury	1	3	2.6786	89	85 - 115	

Laboratory Control Sample / Laboratory Control Sample Duplicate

Analyte	Dil	Spike	LCS	% Rec	LCSD	% Rec	Control Limits	% Rec Qual	% RPD	Control Limits	RPD Qual
Mercury	1	3	2.8269	94	2.6786	89	85 - 115		5	20	

Parameters in bold text are reported in this SDG

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Quality Control Summary
SDG: L729800
URS Corporation - Tucson AZ - 1088308

Test:	Mercury by Method 7470A		
Project No:	23446543.0053AA	Matrix:	Water - ug/L
Project:	Holloman AFB	EPA ID:	TN00003
Collection Date:	10/23/2014	**Analytic Batch:**	**WG751136**
Analysis Date:	10/28/2014 6:04:00 PM	Analyst:	572
Instrument ID:	CVAA4	Prep Date:	10/28/2014
Sample Numbers:	L729800-02		

Method Blank

Analyte	CAS	RDL	MDL	Qualifier
Mercury,Dissolved	7439-97-6	< 0.200	0.0853	

Laboratory Control Sample (LCS)

Analyte	Dil	True Value	Found	% Rec	Control Limits	Qual
Mercury,Dissolved	1	3	2.8031	93	85 - 115	

Laboratory Control Sample Duplicate (LCSD)

Analyte	Dil	True Value	Found	% Rec	Control Limits	Qual
Mercury,Dissolved	1	3	2.9072	97	85 - 115	

Laboratory Control Sample / Laboratory Control Sample Duplicate

Analyte	Dil	Spike	LCS	% Rec	LCSD	% Rec	Control Limits	% Rec Qual	% RPD	Control Limits	RPD Qual
Mercury,Dissolved	1	3	2.8031	93	2.9072	97	85 - 115		4	20	

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Quality Control Summary
SDG: L729800
URS Corporation - Tucson AZ - 1088308

Test:	Mercury by Method 7470A		
Project No:	23446543.0053AA	Matrix:	Water - ug/L
Project:	Holloman AFB	EPA ID:	TN00003
Collection Date:	10/23/2014	**Analytic Batch:**	**WG751135**
Analysis Date:	10/28/2014 4:27:00 PM	Analyst:	572
Instrument ID:	CVAA4	Prep Date:	10/28/2014
Sample Numbers:	L729800-01		

Serial Dilution

L729800-01

Analyte	Dil	Sample Result	SD Result	% RPD	Limit	Qualifier
Mercury	5	0.1028	0.4923	379	10	

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
Mercury	1	3	0.8201	2.5040	56	1.7200	30	80 - 120	J6	37	20	J3

Matrix Spike / Matrix Spike Duplicate

L729800-01

Analyte	Dil	Spike Value	Sample	MS	% Rec	MSD	% Rec	Control Limits	% Rec Qual	RPD	Control Limits	RPD Qual
Mercury	1	3	0.1028	2.5613	82	2.7701	89	80 - 120		8	20	

Post Digest Spike

L729559-02

Analyte	Dil	Spike Value	Sample	Result	% Rec	Control Limits	Qualifier
Mercury	1	3	0.8201	3.3329	84	85-115	O1

Parameters in bold text are reported in this SDG

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Quality Control Summary
SDG: L729800
URS Corporation - Tucson AZ - 1088308

Test:	Mercury by Method 7470A		
Project No:	23446543.0053AA	Matrix:	Water - ug/L
Project:	Holloman AFB	EPA ID:	TN00003
Collection Date:	10/23/2014	**Analytic Batch:**	**WG751136**
Analysis Date:	10/28/2014 6:04:00 PM	Analyst:	572
Instrument ID:	CVAA4	Prep Date:	10/28/2014
Sample Numbers:	L729800-02		

Serial Dilution

L729800-02

Analyte	Dil	Sample Result	SD Result	% RPD	Limit	Qualifier
Mercury,Dissolved	5	0.0841	0.4318	413	10	

Matrix Spike / Matrix Spike Duplicate

L729800-02

Analyte	Dil	Spike Value	Sample	MS	% Rec	MSD	% Rec	Control Limits	% Rec Qual	RPD	Control Limits	RPD Qual
Mercury,Dissolved	1	3	0.0841	2.4769	80	1.9849	63	80 - 120	J6	22	20	J3

Post Digest Spike

L729800-02

Analyte	Dil	Spike Value	Sample	Result	% Rec	Control Limits	Qualifier
Mercury,Dissolved	1	3	0.0841	2.7493	89	85-115	

Parameters in bold text are reported in this SDG

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Quality Control Summary
SDG: L729800
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: CVAA4

Standard Type: ICVLL
Analysis Date: 10/28/2014 10:01 AM
Analysis Time: 1001
Data File: 102814CVAA4 W

Analyte	Conc.			
Mercury	0.0002	0.0002	115	70-130

Standard Type: ICV
Analysis Date: 10/28/2014 10:08 AM
Analysis Time: 1008
Data File: 102814CVAA4 W

Analyte	Conc.	True Value	Recovery	Limits
Mercury	0.0030	0.003	99 %	90-110

Standard Type: CCVLL
Analysis Date: 10/28/2014 4:04 PM
Analysis Time: 1604
Data File: 102814CVAA4 W

Analyte	Conc.			
Mercury	0.0003	0.0002	126	70-130

Standard Type: CCV
Analysis Date: 10/28/2014 4:07 PM
Analysis Time: 1607
Data File: 102814CVAA4 W

Analyte	Conc.	True Value	Recovery	Limits
Mercury	0.0024	0.0025	94 %	90-110

*** - calibrated by linear regression*

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Quality Control Summary
SDG: L729800
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: CVAA4

Standard Type: CCV
Analysis Date: 10/28/2014 5:11 PM
Analysis Time: 1711
Data File: 102814CVAA4 W

Analyte	Conc.	True Value	Recovery	Limits
Mercury	0.0025	0.0025	99 %	90-110

Standard Type: CCVLL
Analysis Date: 10/28/2014 8:36 PM
Analysis Time: 2036
Data File: 102814CVAA4 W

Analyte	Conc.			
Mercury	0.0002	0.0002	115	70-130

Standard Type: CCV
Analysis Date: 10/28/2014 8:42 PM
Analysis Time: 2042
Data File: 102814CVAA4 W

Analyte	Conc.	True Value	Recovery	Limits
Mercury	0.0024	0.0025	96 %	90-110

Standard Type: CCVLL
Analysis Date: 10/28/2014 9:20 PM
Analysis Time: 2120
Data File: 102814CVAA4 W

Analyte	Conc.			
Mercury	0.0002	0.0002	116	70-130

*** - calibrated by linear regression*

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Quality Control Summary
SDG: L729800
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: CVAA4

Standard Type: CCV
Analysis Date: 10/28/2014 9:23 PM
Analysis Time: 2123
Data File: 102814CVAA4 W

Analyte	Conc.	True Value	Recovery	Limits
Mercury	0.0025	0.0025	99 %	90-110

*** - 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: L729800
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: CVAA4

Standard Type: ICVLL
Analysis Date: 10/28/2014 10:01 AM
Analysis Time: 1001
Data File: 102814CVAA4 W

Analyte	Conc.			
Mercury	0.0002	0.0002	115	70-130

Standard Type: ICV
Analysis Date: 10/28/2014 10:08 AM
Analysis Time: 1008
Data File: 102814CVAA4 W

Analyte	Conc.	True Value	Recovery	Limits
Mercury	0.0030	0.003	99 %	90-110

Standard Type: CCVLL
Analysis Date: 10/28/2014 4:04 PM
Analysis Time: 1604
Data File: 102814CVAA4 W

Analyte	Conc.			
Mercury	0.0003	0.0002	126	70-130

Standard Type: CCV
Analysis Date: 10/28/2014 5:49 PM
Analysis Time: 1749
Data File: 102814CVAA4 W

Analyte	Conc.	True Value	Recovery	Limits
Mercury	0.0024	0.0025	98 %	90-110

*** - calibrated by linear regression*

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Quality Control Summary
SDG: L729800
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: CVAA4

Standard Type: CCV
Analysis Date: 10/28/2014 6:42 PM
Analysis Time: 1842
Data File: 102814CVAA4 W

Analyte	Conc.	True Value	Recovery	Limits
Mercury	0.0024	0.0025	97 %	90-110

Standard Type: CCVLL
Analysis Date: 10/28/2014 8:36 PM
Analysis Time: 2036
Data File: 102814CVAA4 W

Analyte	Conc.			
Mercury	0.0002	0.0002	115	70-130

Standard Type: CCV
Analysis Date: 10/28/2014 8:42 PM
Analysis Time: 2042
Data File: 102814CVAA4 W

Analyte	Conc.	True Value	Recovery	Limits
Mercury	0.0024	0.0025	96 %	90-110

Standard Type: CCVLL
Analysis Date: 10/28/2014 9:20 PM
Analysis Time: 2120
Data File: 102814CVAA4 W

Analyte	Conc.			
Mercury	0.0002	0.0002	116	70-130

*** - calibrated by linear regression*

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Est. 1970

Quality Control Summary
SDG: L729800
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: CVAA4

Standard Type: CCV
Analysis Date: 10/28/2014 9:23 PM
Analysis Time: 2123
Data File: 102814CVAA4 W

Analyte	Conc.	True Value	Recovery	Limits
Mercury	0.0025	0.0025	99 %	90-110

*** - calibrated by linear regression*

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Quality Control Summary
SDG: L729800
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: CVAA4

Standard Type: ICB
Analysis Date: 10/28/2014 10:11 AM
Analysis Time: 1011
Data File: 102814CVAA4 W

Analyte	MDL	Conc	Filename
Mercury	0.0002	< 0.0002	102814CVAA4

Standard Type: CCB
Analysis Date: 10/28/2014 4:10 PM
Analysis Time: 1610
Data File: 102814CVAA4 W

Analyte	MDL	Conc	Filename
Mercury	4.9E-05	0.000068	102814CVAA4

Standard Type: CCB
Analysis Date: 10/28/2014 5:14 PM
Analysis Time: 1714
Data File: 102814CVAA4 W

Analyte	MDL	Conc	Filename
Mercury	4.9E-05	0.000084	102814CVAA4

Standard Type: CCB
Analysis Date: 10/28/2014 8:45 PM
Analysis Time: 2045
Data File: 102814CVAA4 W

Analyte	MDL	Conc	Filename
Mercury	4.9E-05	0.000079	102814CVAA4

*** - calibrated by linear regression*

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Est. 1970

Quality Control Summary
SDG: L729800
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: CVAA4

Standard Type: CCB
Analysis Date: 10/28/2014 9:26 PM
Analysis Time: 2126
Data File: 102814CVAA4 W

Analyte	MDL	Conc	Filename
Mercury	4.9E-05	< 4.9E-05	102814CVAA4

*** - calibrated by linear regression*

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Tax I.D 62-0814289
Est. 1970

Quality Control Summary
SDG: L729800
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: CVAA4

Standard Type: ICB
Analysis Date: 10/28/2014 10:11 AM
Analysis Time: 1011
Data File: 102814CVAA4 W

Analyte	MDL	Conc	Filename
Mercury	0.0002	< 0.0002	102814CVAA4

Standard Type: CCB
Analysis Date: 10/28/2014 5:52 PM
Analysis Time: 1752
Data File: 102814CVAA4 W

Analyte	MDL	Conc	Filename
Mercury	4.9E-05	0.000086	102814CVAA4

Standard Type: CCB
Analysis Date: 10/28/2014 6:45 PM
Analysis Time: 1845
Data File: 102814CVAA4 W

Analyte	MDL	Conc	Filename
Mercury	4.9E-05	0.000083	102814CVAA4

Standard Type: CCB
Analysis Date: 10/28/2014 8:45 PM
Analysis Time: 2045
Data File: 102814CVAA4 W

Analyte	MDL	Conc	Filename
Mercury	4.9E-05	0.000079	102814CVAA4

*** - calibrated by linear regression*

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Quality Control Summary
SDG: L729800
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: CVAA4

Standard Type: CCB
Analysis Date: 10/28/2014 9:26 PM
Analysis Time: 2126
Data File: 102814CVAA4 W

Analyte	MDL	Conc	Filename
Mercury	4.9E-05	< 4.9E-05	102814CVAA4

*** - calibrated by linear regression*

Raw Data

Laboratory Bench Sheet

Printed:10/28/2014 07:02

Workgroup:	WG750952
Balance Name:	TCLPBAL1
Test:	Mercury
Method:	7470A
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

Hot Block

Name:HGA

Temp On:	93 deg C
Temp Off:	95 deg C
Time On:	1225
Time Off:	1425

QC Standards

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

Reagent Standards

HNO3:	14I12394
HCl:	14J22394
KMNO4:	14J22397
K2S2O8:	14J24555
NaCl:	13J04016
H8N2O6S:	14J23500
SnCl:	14I09234
H2SO4:	14J22393
SiO2:	
Aqua Regia:	

Comments:

Worksheet ID:368082

Laboratory Bench Sheet

Printed:10/28/2014 07:02

Workgroup:	WG750953
Balance Name:	TCLPBAL1
Test:	Mercury
Method:	245.1
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

Hot Block

Name:MPA

Temp On:	96 deg C
Temp Off:	98 deg C
Time On:	1225
Time Off:	1425

QC Standards

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

Reagent Standards

HNO3:	14I12394
HCl:	14J22394
KMNO4:	14J22397
K2S2O8:	14J24555
NaCl:	13J04016
H8N2O6S:	14J23500
SnCl:	14I09234
H2SO4:	14J22393
SiO2:	
Aqua Regia:	

Comments:

Worksheet ID:368082

Laboratory Bench Sheet

Printed:10/28/2014 07:02

Workgroup:	WG750954
Balance Name:	TCLPBAL1
Test:	Mercury
Method:	245.1
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

Hot Block

Name:MPA

Temp On:	96 deg C
Temp Off:	98 deg C
Time On:	1225
Time Off:	1425

QC Standards

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

Reagent Standards

HNO3:	14I12394
HCl:	14J22394
KMNO4:	14J22397
K2S2O8:	14J24555
NaCl:	13J04016
H8N2O6S:	14J23500
SnCl:	14I09234
H2SO4:	14J22393
SiO2:	
Aqua Regia:	

Comments:

Worksheet ID:368082

Laboratory Bench Sheet

Printed:10/28/2014 07:02

Workgroup:	WG750955
Balance Name:	TCLPBAL1
Test:	Mercury
Method:	7470A
Prep Analyst:	657
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

Hot Block

Name:MPB

Temp On:	93 deg C
Temp Off:	96 deg C
Time On:	1225
Time Off:	1425

QC Standards

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

Reagent Standards

HNO3:	14I12394
HCl:	14J22394
KMNO4:	14J22397
K2S2O8:	14J24555
NaCl:	13J04016
H8N2O6S:	14J23500
SnCl:	14I09234
H2SO4:	14J22393
SiO2:	
Aqua Regia:	

Comments:

Worksheet ID:368082

Laboratory Bench Sheet

Printed:10/28/2014 07:02

Workgroup:	WG750956
Balance Name:	TCLPBAL1
Test:	Mercury
Method:	7470A
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

Hot Block

Name:MPB

Temp On:	93 deg C
Temp Off:	96 deg C
Time On:	1225
Time Off:	1425

QC Standards

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

Reagent Standards

HNO3:	14I12394
HCl:	14J22394
KMNO4:	14J22397
K2S2O8:	14J24555
NaCl:	13J04016
H8N2O6S:	14J23500
SnCl:	14I09234
H2SO4:	14J22393
SiO2:	
Aqua Regia:	

Comments:

Worksheet ID:368082

Laboratory Bench Sheet

Printed:10/28/2014 07:02

Workgroup:	WG750987
Balance Name:	TCLPBAL1
Test:	Mercury
Method:	245.1
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

Hot Block

Name:MPB

Temp On:	93 deg C
Temp Off:	96 deg C
Time On:	1225
Time Off:	1425

QC Standards

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

Reagent Standards

HNO3:	14I12394
HCl:	14J22394
KMNO4:	14J22397
K2S2O8:	14J24555
NaCl:	13J04016
H8N2O6S:	14J23500
SnCl:	14I09234
H2SO4:	14J22393
SiO2:	
Aqua Regia:	

Comments:

Worksheet ID:368082

Laboratory Benchsheet

Sample ID	Matrix	Initial Vol	Prep Vol	Aliquot Vol	Diluted To Vol	Workgroup	Units	Color	Description
BLANK WG750952	TC1	3.0000	30			WG750952	mL	Colorless	Clear
LCS WG750952	TC1	3.0000	30			WG750952	mL	Colorless	Clear
LCSD WG750952	TC1	3.0000	30			WG750952	mL	Colorless	Clear
L729208-01 WG750952	TCLP	3.0000	30			WG750952	mL	Colorless	Clear
MS WG750952 L729208-01	TC1	3.0000	30			WG750952	mL	Colorless	Clear
MSD WG750952 L729208-01	TC1	3.0000	30			WG750952	mL	Colorless	Clear
SD WG750952 L729208-01	TC1	3.0000	30	2	10	WG750952	mL	Colorless	Clear
L727205-03 WG750952	TCLP	3.0000	30			WG750952	mL	Colorless	Clear
L729208-03 WG750952	TCLP	3.0000	30			WG750952	mL	Colorless	Clear
L729342-03 WG750952	TCLP	3.0000	30			WG750952	mL	Colorless	Clear
L729391-02 WG750952	TCLP	3.0000	30			WG750952	mL	Colorless	Clear
L729391-04 WG750952	TCLP	3.0000	30			WG750952	mL	Colorless	Clear
L729396-03 WG750952	TCLP	3.0000	30			WG750952	mL	Colorless	Clear
L729468-01 WG750952	TCLP	3.0000	30			WG750952	mL	Colorless	Clear
L729585-01 WG750952	TCLP	3.0000	30			WG750952	mL	Yellow	Clear

Comments:

Worksheet ID:

Laboratory Benchsheet

Sample ID	Matrix	Initial Vol	Prep Vol	Aliquot Vol	Diluted To Vol	Workgroup	Units	Color	Description
L729585-02 WG750952	TCLP	3.0000	30			WG750952	mL	Pink	Clear
L729585-03 WG750952	TCLP	3.0000	30			WG750952	mL	Colorless	Clear
L729638-01 WG750952	TCLP	3.0000	30			WG750952	mL	Yellow	Clear
L729709-01 WG750952	TCLP	3.0000	30			WG750952	mL	Colorless	Clear
L729778-01 WG750952	TCLP	3.0000	30			WG750952	mL	Colorless	Clear
L729778-03 WG750952	TCLP	3.0000	30			WG750952	mL	Colorless	Clear
L729778-05 WG750952	TCLP	3.0000	30			WG750952	mL	Colorless	Clear
L729778-07 WG750952	TCLP	3.0000	30			WG750952	mL	Colorless	Clear
L729782-01 WG750952	TCLP	3.0000	30			WG750952	mL	Yellow	Clear
INSTBLK WG750952	TC1	30.0000	30			WG750952	mL		
BLANK WG750953	WW	30.0000	30			WG750953	mL	Colorless	Clear
LCS WG750953	WW	30.0000	30			WG750953	mL	Colorless	Clear
LCSD WG750953	WW	30.0000	30			WG750953	mL	Colorless	Clear
L729805-01 WG750953	WW	30.0000	30			WG750953	mL	Colorless	Clear
MS WG750953 L729805-01	WW	30.0000	30			WG750953	mL	Colorless	Clear

Comments:

Worksheet ID:

Laboratory Benchsheet

Sample ID	Matrix	Initial Vol	Prep Vol	Aliquot Vol	Diluted To Vol	Workgroup	Units	Color	Description
MSD WG750953 L729805-01	WW	30.0000	30			WG750953	mL	Colorless	Clear
SD WG750953 L729805-01	WW	30.0000	30	2	10	WG750953	mL	Colorless	Clear
L729805-02 WG750953	WW	30.0000	30			WG750953	mL	Colorless	Clear
L729805-03 WG750953	WW	30.0000	30			WG750953	mL	Colorless	Clear
L729805-04 WG750953	WW	30.0000	30			WG750953	mL	Colorless	Clear
L729805-05 WG750953	WW	30.0000	30			WG750953	mL	Yellow	Clear
L729805-06 WG750953	WW	30.0000	30			WG750953	mL	Brown	Clear
L729805-07 WG750953	WW	30.0000	30			WG750953	mL	Brown	Clear
L729805-08 WG750953	WW	30.0000	30			WG750953	mL	Brown	Clear
INSTBLK WG750953	WW	30.0000	30			WG750953	mL		
BLANK WG750954	WW	30.0000	30			WG750954	mL	Colorless	Clear
LCS WG750954	WW	30.0000	30			WG750954	mL	Colorless	Clear
LCSD WG750954	WW	30.0000	30			WG750954	mL	Colorless	Clear
L729806-01 WG750954	WW	30.0000	30			WG750954	mL	Colorless	Clear
MS WG750954 L729806-01	WW	30.0000	30			WG750954	mL	Colorless	Clear

Comments:

Worksheet ID:

Laboratory Benchsheet

Sample ID	Matrix	Initial Vol	Prep Vol	Aliquot Vol	Diluted To Vol	Workgroup	Units	Color	Description
MSD WG750954 L729806-01	WW	30.0000	30			WG750954	mL	Colorless	Clear
SD WG750954 L729806-01	WW	30.0000	30	2	10	WG750954	mL	Colorless	Clear
L729806-02 WG750954	WW	30.0000	30			WG750954	mL	Colorless	Clear
L729806-03 WG750954	WW	30.0000	30			WG750954	mL	Colorless	Clear
L729806-04 WG750954	WW	30.0000	30			WG750954	mL	Colorless	Clear
L729806-05 WG750954	WW	30.0000	30			WG750954	mL	Colorless	Clear
L729806-06 WG750954	WW	30.0000	30			WG750954	mL	Colorless	Clear
L729806-07 WG750954	WW	30.0000	30			WG750954	mL	Brown	Clear
INSTBLK WG750954	WW	30.0000	30			WG750954	mL		
BLANK WG750955	GW	30.0000	30			WG750955	mL	Colorless	Clear
LCS WG750955	GW	30.0000	30			WG750955	mL	Colorless	Clear
LCSD WG750955	GW	30.0000	30			WG750955	mL	Colorless	Clear
L729877-04 WG750955	GW	30.0000	30			WG750955	mL	Colorless	Clear
MS WG750955 L729877-04	GW	30.0000	30			WG750955	mL	Colorless	Clear
MSD WG750955 L729877-04	GW	30.0000	30			WG750955	mL	Colorless	Clear

Comments:

Worksheet ID:

Laboratory Benchsheet

Sample ID	Matrix	Initial Vol	Prep Vol	Aliquot Vol	Diluted To Vol	Workgroup	Units	Color	Description
SD WG750955 L729877-04	GW	30.0000	30	2	10	WG750955	mL	Colorless	Clear
L729737-01 WG750955	GW	30.0000	30			WG750955	mL	Colorless	Clear
L729771-01 WG750955	GW	30.0000	30			WG750955	mL	Colorless	Clear
L729875-01 WG750955	GW	30.0000	30			WG750955	mL	Colorless	Clear
L729875-02 WG750955	GW	30.0000	30			WG750955	mL	Colorless	Clear
L729875-03 WG750955	GW	30.0000	30			WG750955	mL	Colorless	Clear
L729875-04 WG750955	GW	30.0000	30			WG750955	mL	Colorless	Clear
L729877-01 WG750955	GW	30.0000	30			WG750955	mL	Colorless	Clear
L729877-02 WG750955	GW	30.0000	30			WG750955	mL	Colorless	Clear
L729877-03 WG750955	GW	30.0000	30			WG750955	mL	Colorless	Clear
INSTBLK WG750955	GW	30.0000	30			WG750955	mL		
BLANK WG750956	GW	30.0000	30			WG750956	mL	Colorless	Clear
LCS WG750956	GW	30.0000	30			WG750956	mL	Colorless	Clear
LCSD WG750956	GW	30.0000	30			WG750956	mL	Colorless	Clear
L729879-01 WG750956	GW	30.0000	30			WG750956	mL	Colorless	Clear

Comments:

Worksheet ID:

Laboratory Benchsheet

Sample ID	Matrix	Initial Vol	Prep Vol	Aliquot Vol	Diluted To Vol	Workgroup	Units	Color	Description
MS WG750956 L729879-01	GW	30.0000	30			WG750956	mL	Colorless	Clear
MSD WG750956 L729879-01	GW	30.0000	30			WG750956	mL	Colorless	Clear
SD WG750956 L729879-01	GW	30.0000	30	2	10	WG750956	mL	Colorless	Clear
L729615-01 WG750956	GW	30.0000	30			WG750956	mL	Colorless	Clear
L729615-02 WG750956	GW	30.0000	30			WG750956	mL	Colorless	Clear
L729615-03 WG750956	GW	30.0000	30			WG750956	mL	Colorless	Clear
L729615-04 WG750956	GW	30.0000	30			WG750956	mL	Colorless	Clear
L729615-05 WG750956	GW	30.0000	30			WG750956	mL	Colorless	Clear
L729615-06 WG750956	GW	30.0000	30			WG750956	mL	Colorless	Clear
L729615-07 WG750956	GW	30.0000	30			WG750956	mL	Colorless	Clear
L729647-01 WG750956	GW	30.0000	30			WG750956	mL	Brown	Clear
L729647-02 WG750956	GW	30.0000	30			WG750956	mL	Colorless	Clear
L729647-03 WG750956	GW	30.0000	30			WG750956	mL	Brown	Clear
L729649-01 WG750956	GW	30.0000	30			WG750956	mL	Brown	Clear
L729649-02 WG750956	GW	30.0000	30			WG750956	mL	Colorless	Clear

Comments:

Worksheet ID:

Laboratory Benchsheet

Sample ID	Matrix	Initial Vol	Prep Vol	Aliquot Vol	Diluted To Vol	Workgroup	Units	Color	Description
L729649-03 WG750956	GW	30.0000	30			WG750956	mL	Colorless	Clear
L729721-17 WG750956	GW	30.0000	30			WG750956	mL	Brown	Opaque
L729879-02 WG750956	GW	30.0000	30			WG750956	mL	Brown	Clear
L729879-03 WG750956	GW	30.0000	30			WG750956	mL	Brown	Clear
INSTBLK WG750956	GW	30.0000	30			WG750956	mL		
BLANK WG750987	WW	30.0000	30			WG750987	mL	Colorless	Clear
LCS WG750987	WW	30.0000	30			WG750987	mL	Colorless	Clear
LCSD WG750987	WW	30.0000	30			WG750987	mL	Colorless	Clear
L729809-01 WG750987	WW	30.0000	30			WG750987	mL	Colorless	Clear
MS WG750987 L729809-01	WW	30.0000	30			WG750987	mL	Colorless	Clear
MSD WG750987 L729809-01	WW	30.0000	30			WG750987	mL	Colorless	Clear
SD WG750987 L729809-01	WW	30.0000	30	2	10	WG750987	mL	Colorless	Clear
L729809-02 WG750987	WW	30.0000	30			WG750987	mL	Colorless	Clear
L729809-03 WG750987	WW	30.0000	30			WG750987	mL	Colorless	Clear
L729809-04 WG750987	WW	30.0000	30			WG750987	mL	Colorless	Clear

Comments:

Worksheet ID:

Laboratory Benchsheet

Sample ID	Matrix	Initial Vol	Prep Vol	Aliquot Vol	Diluted To Vol	Workgroup	Units	Color	Description
L729809-05 WG750987	WW	30.0000	30			WG750987	mL	Colorless	Clear
INSTBLK WG750987	WW	30.0000	30			WG750987	mL		

Comments:

Worksheet ID:

Laboratory Bench Sheet

Printed:10/28/2014 14:07

Workgroup:	WG751135
Balance Name:	TCLPBAL1
Test:	Mercury
Method:	7470A
Prep Analyst:	628
Prep Date:	102814

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

Hot Block

Name:MPA

Temp On:	96 deg C
Temp Off:	98 deg C
Time On:	1140
Time Off:	1340

QC Standards

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

Reagent Standards

HNO3:	14I12394
HCl:	14J22394
KMNO4:	14J22397
K2S2O8:	14J24555
NaCl:	13J04016
H8N2O6S:	14J23500
SnCl:	14I09234
H2SO4:	14J22393
SiO2:	
Aqua Regia:	

Comments:

Worksheet ID:368182

Laboratory Bench Sheet

Printed:10/28/2014 14:07

Workgroup:	WG751136
Balance Name:	TCLPBAL1
Test:	Mercury
Method:	7470A
Prep Analyst:	628
Prep Date:	102814

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

Hot Block

Name:MPB

Temp On:	93 deg C
Temp Off:	96 deg C
Time On:	1140
Time Off:	1340

QC Standards

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

Reagent Standards

HNO3:	14I12394
HCl:	14J22394
KMNO4:	14J22397
K2S2O8:	14J24555
NaCl:	13J04016
H8N2O6S:	14J23500
SnCl:	14I09234
H2SO4:	14J22393
SiO2:	
Aqua Regia:	

Comments:

Worksheet ID:368182

Laboratory Bench Sheet

Printed:10/28/2014 14:07

Workgroup:	WG751227
Balance Name:	TCLPBAL1
Test:	Mercury
Method:	7470A
Prep Analyst:	628
Prep Date:	102814

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

Hot Block

Name:MPB

Temp On:	93 deg C
Temp Off:	96 deg C
Time On:	1140
Time Off:	1340

QC Standards

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

Reagent Standards

HNO3:	14I12394
HCl:	14J22394
KMNO4:	14J22397
K2S2O8:	14J24555
NaCl:	13J04016
H8N2O6S:	14J23500
SnCl:	14I09234
H2SO4:	14J22393
SiO2:	
Aqua Regia:	

Comments:

Worksheet ID:368182

Laboratory Benchsheet

Sample ID	Matrix	Initial Vol	Prep Vol	Aliquot Vol	Diluted To Vol	Workgroup	Units	Color	Description
BLANK WG751135	GW	30.0000	30			WG751135	mL	Colorless	Clear
LCS WG751135	GW	30.0000	30			WG751135	mL	Colorless	Clear
LCSD WG751135	GW	30.0000	30			WG751135	mL	Colorless	Clear
L729800-01 WG751135	GW	30.0000	30			WG751135	mL	Red	Opaque
MS WG751135 L729800-01	GW	30.0000	30			WG751135	mL	Red	Opaque
MSD WG751135 L729800-01	GW	30.0000	30			WG751135	mL	Red	Opaque
SD WG751135 L729800-01	GW	30.0000	30	2	10	WG751135	mL	Red	Opaque
L729559-02 WG751135	GW	30.0000	30			WG751135	mL	Red	Opaque
MS WG751135 L729559-02	GW	30.0000	30			WG751135	mL	Red	Opaque
MSD WG751135 L729559-02	GW	30.0000	30			WG751135	mL	Red	Opaque
L729561-02 WG751135	GW	30.0000	30			WG751135	mL	Red	Opaque
L729561-04 WG751135	GW	30.0000	30			WG751135	mL	Red	Opaque
L729561-06 WG751135	GW	15.0000	30			WG751135	mL	Red	Opaque
L729798-02 WG751135	GW	30.0000	30			WG751135	mL	Red	Opaque
L729798-04 WG751135	GW	30.0000	30			WG751135	mL	Red	Opaque

Comments:

Worksheet ID:

Laboratory Benchsheet

Sample ID	Matrix	Initial Vol	Prep Vol	Aliquot Vol	Diluted To Vol	Workgroup	Units	Color	Description
L729798-06 WG751135	GW	30.0000	30			WG751135	mL	Red	Opaque
L729942-01 WG751135	GW	30.0000	30			WG751135	mL	Brown	Opaque
L729942-03 WG751135	GW	30.0000	30			WG751135	mL	Brown	Opaque
L729942-05 WG751135	GW	30.0000	30			WG751135	mL	Brown	Opaque
L729942-07 WG751135	GW	30.0000	30			WG751135	mL	Brown	Opaque
L729942-09 WG751135	GW	30.0000	30			WG751135	mL	Brown	Opaque
L729946-01 WG751135	GW	30.0000	30			WG751135	mL	Colorless	Clear
L729946-02 WG751135	GW	30.0000	30			WG751135	mL	Colorless	Clear
L729946-03 WG751135	GW	30.0000	30			WG751135	mL	Colorless	Clear
L729946-04 WG751135	GW	30.0000	30			WG751135	mL	Colorless	Clear
L729946-05 WG751135	GW	30.0000	30			WG751135	mL	Colorless	Clear
L729946-06 WG751135	GW	30.0000	30			WG751135	mL	Colorless	Clear
L729946-07 WG751135	GW	30.0000	30			WG751135	mL	Colorless	Clear
INSTBLK WG751135	GW	30.0000	30			WG751135	mL		
BLANK WG751136	GWD	30.0000	30			WG751136	mL	Colorless	Clear

Comments:

Worksheet ID:

Laboratory Benchsheet

Sample ID	Matrix	Initial Vol	Prep Vol	Aliquot Vol	Diluted To Vol	Workgroup	Units	Color	Description
LCS WG751136	GWD	30.0000	30			WG751136	mL	Colorless	Clear
LCSD WG751136	GWD	30.0000	30			WG751136	mL	Colorless	Clear
L729800-02 WG751136	GW	30.0000	30			WG751136	mL	Colorless	Clear
MS WG751136 L729800-02	GWD	30.0000	30			WG751136	mL	Colorless	Clear
MSD WG751136 L729800-02	GWD	30.0000	30			WG751136	mL	Colorless	Clear
SD WG751136 L729800-02	GWD	30.0000	30	2	10	WG751136	mL	Colorless	Clear
L729373-01 WG751136	GW	30.0000	30			WG751136	mL	Colorless	Clear
L729373-02 WG751136	GW	30.0000	30			WG751136	mL	Colorless	Clear
L729373-03 WG751136	GW	30.0000	30			WG751136	mL	Colorless	Clear
L729798-01 WG751136	GW	30.0000	30			WG751136	mL	Colorless	Clear
L729798-03 WG751136	GW	30.0000	30			WG751136	mL	Colorless	Clear
L729798-05 WG751136	GW	30.0000	30			WG751136	mL	Colorless	Clear
L729807-01 WG751136	GW	30.0000	30			WG751136	mL	Colorless	Clear
L729807-02 WG751136	GW	30.0000	30			WG751136	mL	Colorless	Clear
L729807-03 WG751136	GW	30.0000	30			WG751136	mL	Colorless	Clear

Comments:

Worksheet ID:

Laboratory Benchsheet

Sample ID	Matrix	Initial Vol	Prep Vol	Aliquot Vol	Diluted To Vol	Workgroup	Units	Color	Description
L729807-04 WG751136	GW	30.0000	30			WG751136	mL	Colorless	Clear
L729807-05 WG751136	GW	30.0000	30			WG751136	mL	Colorless	Clear
L729807-06 WG751136	GW	30.0000	30			WG751136	mL	Colorless	Clear
L729807-07 WG751136	GW	30.0000	30			WG751136	mL	Colorless	Clear
L729807-08 WG751136	GW	30.0000	30			WG751136	mL	Colorless	Clear
INSTBLK WG751136	GWD	30.0000	30			WG751136	mL		
BLANK WG751227	TC1	3.0000	30			WG751227	mL	Colorless	Clear
LCS WG751227	TC1	3.0000	30			WG751227	mL	Colorless	Clear
LCSD WG751227	TC1	3.0000	30			WG751227	mL	Colorless	Clear
L729689-01 WG751227	TCLP	3.0000	30			WG751227	mL	Colorless	Clear
MS WG751227 L729689-01	TC1	3.0000	30			WG751227	mL	Colorless	Clear
MSD WG751227 L729689-01	TC1	3.0000	30			WG751227	mL	Colorless	Clear
SD WG751227 L729689-01	TC1	3.0000	30	2	10	WG751227	mL	Colorless	Clear
L729339-01 WG751227	TCLP	3.0000	30			WG751227	mL	Colorless	Clear
L729339-03 WG751227	TCLP	3.0000	30			WG751227	mL	Colorless	Clear

Comments:

Worksheet ID:

Laboratory Benchsheet

Sample ID	Matrix	Initial Vol	Prep Vol	Aliquot Vol	Diluted To Vol	Workgroup	Units	Color	Description
L729339-05 WG751227	TCLP	3.0000	30			WG751227	mL	Colorless	Clear
L729339-07 WG751227	TCLP	3.0000	30			WG751227	mL	Colorless	Clear
L729339-09 WG751227	TCLP	3.0000	30			WG751227	mL	Colorless	Clear
L729339-11 WG751227	TCLP	3.0000	30			WG751227	mL	Colorless	Clear
L729339-13 WG751227	TCLP	3.0000	30			WG751227	mL	Colorless	Clear
L729339-15 WG751227	TCLP	3.0000	30			WG751227	mL	Colorless	Clear
L729339-17 WG751227	TCLP	3.0000	30			WG751227	mL	Colorless	Clear
L729339-19 WG751227	TCLP	3.0000	30			WG751227	mL	Colorless	Clear
L729650-17 WG751227	TCLP	3.0000	30			WG751227	mL	Colorless	Clear
L729650-18 WG751227	TCLP	3.0000	30			WG751227	mL	Colorless	Clear
L729833-06 WG751227	TCLP	3.0000	30			WG751227	mL	Colorless	Clear
L729833-07 WG751227	TCLP	3.0000	30			WG751227	mL	Colorless	Clear
L729833-08 WG751227	TCLP	3.0000	30			WG751227	mL	Colorless	Clear
L729833-09 WG751227	TCLP	3.0000	30			WG751227	mL	Colorless	Clear
L729833-10 WG751227	TCLP	3.0000	30			WG751227	mL	Colorless	Clear

Comments:

Worksheet ID:

Laboratory Benchsheet

Sample ID	Matrix	Initial Vol	Prep Vol	Aliquot Vol	Diluted To Vol	Workgroup	Units	Color	Description
INSTBLK WG751227	TC1	30.0000	30			WG751227	mL		

Comments:

Worksheet ID:

ENVIRONMENTAL SCIENCE CORP.

Environmental Science Corp.

Work Group Report (wk02)

28-OCT-14 06:59 AM

Work Group: WG750987

Department: 5 Metals

Operator: 628

Created: 27-OCT-14

Due:

Sample	Container	Account Name	Product	Matrix	Status	Collected	Due Date	R Cont. Type	
L729809-01	17563664	Veritas Laboratories	HG	WW	HERE	23-OCT-14	31-OCT-14	R5	125mlHDPE-HNO3
L729809-02	17563666	Veritas Laboratories	HG	WW	HERE	23-OCT-14	31-OCT-14	R5	125mlHDPE-HNO3
L729809-03	17563668	Veritas Laboratories	HG	WW	HERE	23-OCT-14	31-OCT-14	R5	125mlHDPE-HNO3
L729809-04	17563670	Veritas Laboratories	HG	WW	HERE	23-OCT-14	31-OCT-14	R5	125mlHDPE-HNO3
L729809-05	17563672	Veritas Laboratories	HG	WW	HERE	23-OCT-14	31-OCT-14	R5	125mlHDPE-HNO3

Comments:

ENVIRONMENTAL SCIENCE CORP.

Environmental Science Corp.

Work Group Report (wk02)

28-OCT-14 06:59 AM

Work Group: WG750956

Department: 5 Metals

Operator: 628

Created: 27-OCT-14

Due:

Sample	Container	Account Name	Product	Matrix	Status	Collected	Due Date	R Cont. Type	
L729615-01	S17420303	TVA-Environmental Affairs	HG	GW	HERE	22-OCT-14	03-NOV-14	R5	500mlHDPE-HNO3
L729615-02	S17420300	TVA-Environmental Affairs	HG	GW	HERE	22-OCT-14	03-NOV-14	R5	500mlHDPE-HNO3
L729615-03	S17420306	TVA-Environmental Affairs	HG	GW	HERE	22-OCT-14	03-NOV-14	R5	500mlHDPE-HNO3
L729615-04	S17420309	TVA-Environmental Affairs	HG	GW	HERE	22-OCT-14	03-NOV-14	R5	500mlHDPE-HNO3
L729615-05		TVA-Environmental Affairs	HG	GW	HERE	22-OCT-14	03-NOV-14	R5	
L729615-06	S17420315	TVA-Environmental Affairs	HG	GW	HERE	22-OCT-14	03-NOV-14	R5	500mlHDPE-HNO3
L729615-07	S17420318	TVA-Environmental Affairs	HG	GW	HERE	22-OCT-14	03-NOV-14	R5	500mlHDPE-HNO3
L729647-01	S17497553	On-Site Disposal - Rangely, CO	HG	GW	HERE	22-OCT-14	31-OCT-14	R5	500mlHDPE-HNO3
L729647-02	S17497560	On-Site Disposal - Rangely, CO	HG	GW	HERE	22-OCT-14	31-OCT-14	R5	500mlHDPE-HNO3
L729647-03	S17497567	On-Site Disposal - Rangely, CO	HG	GW	HERE	22-OCT-14	31-OCT-14	R5	500mlHDPE-HNO3
L729649-01	S17394124	Kansas City Board of Public Utilities	HG	GW	HERE	21-OCT-14	31-OCT-14	R5	500mlHDPE-HNO3
L729649-02	S17394129	Kansas City Board of Public Utilities	HG	GW	HERE	21-OCT-14	31-OCT-14	R5	500mlHDPE-HNO3
L729649-03	S17394134	Kansas City Board of Public Utilities	HG	GW	HERE	21-OCT-14	31-OCT-14	R5	500mlHDPE-HNO3
L729721-17	17562542	Terracon - Boise	HG	GW	HERE	24-OCT-14	31-OCT-14	R5	500mlHDPE-HNO3
L729879-01	17565373	ERM - Walnut Creek, CA	HG	GW	HERE	24-OCT-14	31-OCT-14	R5	500mlHDPE-HNO3
L729879-02	17565401	ERM - Walnut Creek, CA	HG	GW	HERE	24-OCT-14	31-OCT-14	R5	500mlHDPE-HNO3
L729879-03	17565417	ERM - Walnut Creek, CA	HG	GW	HERE	24-OCT-14	31-OCT-14	R5	500mlHDPE-HNO3

Comments:

ENVIRONMENTAL SCIENCE CORP.

Environmental Science Corp.

Work Group Report (wk02)

28-OCT-14 02:10 PM

Work Group: WG751136

Department: 5 Metals

Operator: 628

Created: 28-OCT-14

Due:

Sample	Container	Account Name	Product	Matrix	Status	Collected	Due Date	R Cont. Type	
L729373-01		Wilson County Landfill	HGD	GW	HERE	23-OCT-14	03-NOV-14	R5	
L729373-02		Wilson County Landfill	HGD	GW	HERE	22-OCT-14	03-NOV-14	R5	
L729373-03		Wilson County Landfill	HGD	GW	HERE	22-OCT-14	03-NOV-14	R5	
L729798-01	17563430	URS Corporation - Tucson AZ - 10	HGD	GW	HERE	23-OCT-14	31-OCT-14	R5	500mlHDPE-HNO3
L729798-03	17563437	URS Corporation - Tucson AZ - 10	HGD	GW	HERE	23-OCT-14	31-OCT-14	R5	500mlHDPE-HNO3
L729798-05	17563444	URS Corporation - Tucson AZ - 10	HGD	GW	HERE	23-OCT-14	31-OCT-14	R5	500mlHDPE-HNO3
L729800-02	17563466	URS Corporation - Tucson AZ - 10	HGD	GW	HERE	23-OCT-14	31-OCT-14	R5	500mlHDPE-HNO3
L729800-02	17563481	URS Corporation - Tucson AZ - 10	HGD	GW	HERE	23-OCT-14	31-OCT-14	R5	500mlHDPE-HNO3
L729800-02	17563480	URS Corporation - Tucson AZ - 10	HGD	GW	HERE	23-OCT-14	31-OCT-14	R5	500mlHDPE-HNO3
L729807-01	17563598	Veritas Laboratories	HGD	GW	HERE	22-OCT-14	31-OCT-14	R5	125mlHDPE-HNO3
L729807-02	17563607	Veritas Laboratories	HGD	GW	HERE	22-OCT-14	31-OCT-14	R5	125mlHDPE-HNO3
L729807-03	17563608	Veritas Laboratories	HGD	GW	HERE	22-OCT-14	31-OCT-14	R5	125mlHDPE-HNO3
L729807-04	17563609	Veritas Laboratories	HGD	GW	HERE	22-OCT-14	31-OCT-14	R5	125mlHDPE-HNO3
L729807-05	17563610	Veritas Laboratories	HGD	GW	HERE	22-OCT-14	31-OCT-14	R5	125mlHDPE-HNO3
L729807-06	17563611	Veritas Laboratories	HGD	GW	HERE	22-OCT-14	31-OCT-14	R5	125mlHDPE-HNO3
L729807-07	17563612	Veritas Laboratories	HGD	GW	HERE	22-OCT-14	31-OCT-14	R5	125mlHDPE-HNO3
L729807-08	17563613	Veritas Laboratories	HGD	GW	HERE	22-OCT-14	31-OCT-14	R5	125mlHDPE-HNO3

Comments:

ENVIRONMENTAL SCIENCE CORP.

Environmental Science Corp.

Work Group Report (wk02)

28-OCT-14 02:10 PM

Work Group: WG751135

Department: 5 Metals

Operator: 628

Created: 28-OCT-14

Due:

Sample	Container	Account Name	Product	Matrix	Status	Collected	Due Date	R Cont. Type	
L729559-02	17559245	URS Corporation - Tucson AZ - 10	HG	GW	HERE	22-OCT-14	31-OCT-14	R5	500mlHDPE-HNO3
L729561-02	17559342	URS Corporation - Tucson AZ - 10	HG	GW	HERE	21-OCT-14	31-OCT-14	R5	500mlHDPE-HNO3
L729561-04	17559363	URS Corporation - Tucson AZ - 10	HG	GW	HERE	22-OCT-14	31-OCT-14	R5	500mlHDPE-HNO3
L729561-06	17559387	URS Corporation - Tucson AZ - 10	HG	GW	HERE	22-OCT-14	31-OCT-14	R5	500mlHDPE-HNO3
L729798-02	17563435	URS Corporation - Tucson AZ - 10	HG	GW	HERE	23-OCT-14	31-OCT-14	R5	500mlHDPE-HNO3
L729798-04	17563442	URS Corporation - Tucson AZ - 10	HG	GW	HERE	23-OCT-14	31-OCT-14	R5	500mlHDPE-HNO3
L729798-06	17563449	URS Corporation - Tucson AZ - 10	HG	GW	HERE	23-OCT-14	31-OCT-14	R5	500mlHDPE-HNO3
L729800-01	17563464	URS Corporation - Tucson AZ - 10	HG	GW	HERE	23-OCT-14	31-OCT-14	R5	500mlHDPE-HNO3
L729942-01	S17544988	TVA-Environmental Affairs	HG	GW	HERE	27-OCT-14	30-OCT-14	R4	500mlHDPE-HNO3
L729942-03	17573608	TVA-Environmental Affairs	HG	GW	HERE	27-OCT-14	30-OCT-14	R4	500mlHDPE-HNO3
L729942-05	17573619	TVA-Environmental Affairs	HG	GW	HERE	27-OCT-14	30-OCT-14	R4	500mlHDPE-HNO3
L729942-07	17573630	TVA-Environmental Affairs	HG	GW	HERE	27-OCT-14	30-OCT-14	R4	500mlHDPE-HNO3
L729942-09	17573641	TVA-Environmental Affairs	HG	GW	HERE	27-OCT-14	30-OCT-14	R4	500mlHDPE-HNO3
L729946-01	S17517295	TVA-Environmental Affairs	HG	GW	HERE	21-OCT-14	04-NOV-14	R5	500mlHDPE-HNO3
L729946-02	S17517296	TVA-Environmental Affairs	HG	GW	HERE	24-OCT-14	04-NOV-14	R5	500mlHDPE-HNO3
L729946-03	S17517297	TVA-Environmental Affairs	HG	GW	HERE	24-OCT-14	04-NOV-14	R5	500mlHDPE-HNO3
L729946-04	S17517299	TVA-Environmental Affairs	HG	GW	HERE	24-OCT-14	04-NOV-14	R5	500mlHDPE-HNO3
L729946-05	S17517301	TVA-Environmental Affairs	HG	GW	HERE	24-OCT-14	04-NOV-14	R5	500mlHDPE-HNO3
L729946-06	S17517303	TVA-Environmental Affairs	HG	GW	HERE	24-OCT-14	04-NOV-14	R5	500mlHDPE-HNO3
L729946-07	S17517305	TVA-Environmental Affairs	HG	GW	HERE	24-OCT-14	04-NOV-14	R5	500mlHDPE-HNO3

Comments:

ENVIRONMENTAL SCIENCE CORP.

Environmental Science Corp.

Work Group Report (wk02)

28-OCT-14 06:59 AM

Work Group: WG750954

Department: 5 Metals

Operator: 628

Created: 27-OCT-14

Due:

Sample	Container	Account Name	Product	Matrix	Status	Collected	Due Date	R Cont. Type	
L729806-01	17563575	Veritas Laboratories	HG	WW	HERE	23-OCT-14	31-OCT-14	R5	125mlHDPE-HNO3
L729806-02	17563577	Veritas Laboratories	HG	WW	HERE	23-OCT-14	31-OCT-14	R5	125mlHDPE-HNO3
L729806-03	17563579	Veritas Laboratories	HG	WW	HERE	23-OCT-14	31-OCT-14	R5	125mlHDPE-HNO3
L729806-04	17563581	Veritas Laboratories	HG	WW	HERE	23-OCT-14	31-OCT-14	R5	125mlHDPE-HNO3
L729806-05	17563583	Veritas Laboratories	HG	WW	HERE	23-OCT-14	31-OCT-14	R5	125mlHDPE-HNO3
L729806-06	17563585	Veritas Laboratories	HG	WW	HERE	23-OCT-14	31-OCT-14	R5	125mlHDPE-HNO3
L729806-07	17563587	Veritas Laboratories	HG	WW	HERE	23-OCT-14	31-OCT-14	R5	125mlHDPE-HNO3

Comments:

ENVIRONMENTAL SCIENCE CORP.

Environmental Science Corp.

Work Group Report (wk02)

28-OCT-14 06:58 AM

Work Group: WG750953

Department: 5 Metals

Operator: 628

Created: 27-OCT-14

Due:

Sample	Container	Account Name	Product	Matrix	Status	Collected	Due Date	R Cont. Type	
L729805-01	17563559	Veritas Laboratories	HG	WW	HERE	23-OCT-14	31-OCT-14	R5	125mlHDPE-HNO3
L729805-02	17563561	Veritas Laboratories	HG	WW	HERE	23-OCT-14	31-OCT-14	R5	125mlHDPE-HNO3
L729805-03	17563563	Veritas Laboratories	HG	WW	HERE	23-OCT-14	31-OCT-14	R5	125mlHDPE-HNO3
L729805-04	17563565	Veritas Laboratories	HG	WW	HERE	23-OCT-14	31-OCT-14	R5	125mlHDPE-HNO3
L729805-05	17563567	Veritas Laboratories	HG	WW	HERE	23-OCT-14	31-OCT-14	R5	125mlHDPE-HNO3
L729805-06	17563569	Veritas Laboratories	HG	WW	HERE	23-OCT-14	31-OCT-14	R5	125mlHDPE-HNO3
L729805-07	17563571	Veritas Laboratories	HG	WW	HERE	23-OCT-14	31-OCT-14	R5	125mlHDPE-HNO3
L729805-08	17563573	Veritas Laboratories	HG	WW	HERE	23-OCT-14	31-OCT-14	R5	125mlHDPE-HNO3

Comments:

ENVIRONMENTAL SCIENCE CORP.

Environmental Science Corp.

Work Group Report (wk02)

28-OCT-14 06:59 AM

Work Group: WG750955

Department: 5 Metals

Operator: 628

Created: 27-OCT-14

Due:

Sample	Container	Account Name	Product	Matrix	Status	Collected	Due Date	R Cont. Type	
L729737-01	17562625	Waste Management	HG	GW	HERE	24-OCT-14	30-OCT-14	R4	1L-HDPE-Add HNO
L729771-01	17562953	Weston Solutions - AZ	HG	GW	HERE	24-OCT-14	31-OCT-14	R5	500mlHDPE-HNO3
L729875-01	17565277	EnCana Oil & Gas - Denver, CO	HG	GW	HERE	24-OCT-14	31-OCT-14	R5	500mlHDPE-HNO3
L729875-02	17565288	EnCana Oil & Gas - Denver, CO	HG	GW	HERE	24-OCT-14	31-OCT-14	R5	500mlHDPE-HNO3
L729875-03	17565299	EnCana Oil & Gas - Denver, CO	HG	GW	HERE	24-OCT-14	31-OCT-14	R5	500mlHDPE-HNO3
L729875-04	17565310	EnCana Oil & Gas - Denver, CO	HG	GW	HERE	24-OCT-14	31-OCT-14	R5	500mlHDPE-HNO3
L729877-01	17565325	EnCana Oil & Gas - Denver, CO	HG	GW	HERE	23-OCT-14	31-OCT-14	R5	500mlHDPE-HNO3
L729877-02	17565336	EnCana Oil & Gas - Denver, CO	HG	GW	HERE	23-OCT-14	31-OCT-14	R5	500mlHDPE-HNO3
L729877-03	17565347	EnCana Oil & Gas - Denver, CO	HG	GW	HERE	23-OCT-14	31-OCT-14	R5	500mlHDPE-HNO3
L729877-04	17565358	EnCana Oil & Gas - Denver, CO	HG	GW	HERE	23-OCT-14	31-OCT-14	R5	500mlHDPE-HNO3

Comments:

ENVIRONMENTAL SCIENCE CORP.

Environmental Science Corp.

Work Group Report (wk02)

28-OCT-14 02:10 PM

Work Group: WG751227

Department: 5 Metals

Operator: 628

Created: 28-OCT-14

Due:

Sample	Container	Account Name	Product	Matrix	Status	Collected	Due Date	R Cont. Type
L729339-01		PSI - Pittsburgh, PA	HG	TCLP	HERE	21-OCT-14	30-OCT-14	R5
L729339-03		PSI - Pittsburgh, PA	HG	TCLP	HERE	21-OCT-14	30-OCT-14	R5
L729339-05		PSI - Pittsburgh, PA	HG	TCLP	HERE	21-OCT-14	30-OCT-14	R5
L729339-07		PSI - Pittsburgh, PA	HG	TCLP	HERE	21-OCT-14	30-OCT-14	R5
L729339-09		PSI - Pittsburgh, PA	HG	TCLP	HERE	21-OCT-14	30-OCT-14	R5
L729339-11		PSI - Pittsburgh, PA	HG	TCLP	HERE	21-OCT-14	30-OCT-14	R5
L729339-13		PSI - Pittsburgh, PA	HG	TCLP	HERE	21-OCT-14	30-OCT-14	R5
L729339-15		PSI - Pittsburgh, PA	HG	TCLP	HERE	21-OCT-14	30-OCT-14	R5
L729339-17		PSI - Pittsburgh, PA	HG	TCLP	HERE	21-OCT-14	30-OCT-14	R5
L729339-19		PSI - Pittsburgh, PA	HG	TCLP	HERE	21-OCT-14	30-OCT-14	R5
L729650-17		Littlejohn Eng. Assoc - Nashville, TN	HG	TCLP	HERE	23-OCT-14	31-OCT-14	R5
L729650-18		Littlejohn Eng. Assoc - Nashville, TN	HG	TCLP	HERE	23-OCT-14	31-OCT-14	R5
L729689-01		Marathon Petroleum - IL	HG	TCLP	HERE	23-OCT-14	31-OCT-14	R5
L729833-06		Affinity Consultants - OH	HG	TCLP	HERE	23-OCT-14	31-OCT-14	R5
L729833-07		Affinity Consultants - OH	HG	TCLP	HERE	23-OCT-14	31-OCT-14	R5
L729833-08		Affinity Consultants - OH	HG	TCLP	HERE	23-OCT-14	31-OCT-14	R5
L729833-09		Affinity Consultants - OH	HG	TCLP	HERE	23-OCT-14	31-OCT-14	R5
L729833-10		Affinity Consultants - OH	HG	TCLP	HERE	23-OCT-14	31-OCT-14	R5

Comments:

ENVIRONMENTAL SCIENCE CORP.

Environmental Science Corp.

Work Group Report (wk02)

28-OCT-14 06:57 AM

Work Group: WG750952

Department: 5 Metals

Operator: 628

Created: 27-OCT-14

Due:

Sample	Container	Account Name	Product	Matrix	Status	Collected	Due Date	R Cont. Type
L727205-03		Frit Car Incorporated	HG	TCLP	HERE	09-OCT-14	30-OCT-14	NU
L729208-01		Marathon Oil Corporation - OH	HG	TCLP	HERE	22-OCT-14	28-OCT-14	R4
L729208-03		Marathon Oil Corporation - OH	HG	TCLP	HERE	22-OCT-14	28-OCT-14	R4
L729342-03		LP Environmental, LLC	HG	TCLP	HERE	22-OCT-14	30-OCT-14	R5
L729391-02		Mirror Image Environmental Solutio	HG	TCLP	HERE	22-OCT-14	29-OCT-14	R4
L729391-04		Mirror Image Environmental Solutio	HG	TCLP	HERE	22-OCT-14	29-OCT-14	R4
L729396-03		FC & E Engineering	HG	TCLP	HERE	23-OCT-14	28-OCT-14	R3
L729468-01		Haley & Aldrich	HG	TCLP	HERE	22-OCT-14	29-OCT-14	R4
L729585-01		Excel Industrial Group, LLC	HG	TCLP	HERE	23-OCT-14	31-OCT-14	R5
L729585-02		Excel Industrial Group, LLC	HG	TCLP	HERE	23-OCT-14	31-OCT-14	R5
L729585-03		Excel Industrial Group, LLC	HG	TCLP	HERE	23-OCT-14	31-OCT-14	R5
L729638-01		Excel Industrial Group, LLC	HG	TCLP	HERE	23-OCT-14	31-OCT-14	R5
L729709-01		TVA-Johnsonville Fossil	HG	TCLP	HERE	21-OCT-14	28-OCT-14	R4
L729778-01		Mirror Image Environmental Solutio	HG	TCLP	HERE	23-OCT-14	30-OCT-14	R4
L729778-03		Mirror Image Environmental Solutio	HG	TCLP	HERE	23-OCT-14	30-OCT-14	R4
L729778-05		Mirror Image Environmental Solutio	HG	TCLP	HERE	23-OCT-14	30-OCT-14	R4
L729778-07		Mirror Image Environmental Solutio	HG	TCLP	HERE	23-OCT-14	30-OCT-14	R4
L729782-01		Environmental Science Corp.	HG	TCLP	HERE	23-OCT-14	30-OCT-14	R4

Comments:

==========

Analysis Begun

Logged In Analyst: hg4 **Technique: AA FIMS-MHS**
Spectrometer Model: FIMS-100, S/N B050-9550 **Autosampler Model: S10**

Sample Information File: C:\data-FIMS4\Sample Information\102814CVAA4 W.sif
Batch ID: 628
Results Data Set: 102814CVAA4 W
Results Library: C:\data-FIMS4\Results\Results.mdb

==========

Method Loaded
Method Name: Hg Water PPM-TEST **Method Last Saved: 10/25/2014 3:09:55 PM**
Method Description: HgWater

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 7:39:47 AM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: CALBLK

Repl #	SampleConc mg/L	StndConc mg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1		[0.00]	0.0000	-0.0027	0.0000	07:40:51	Yes
2		[0.00]	0.0003	0.0042	0.0003	07:41:35	Yes
3		[0.00]	0.0000	-0.0005	0.0000	07:42:19	Yes
Mean:		[0.00]	0.0001				
SD:		0.00	0.0001				
%RSD:		0.00	137.32				

Auto-zero performed.

==========

Sequence No.: 2 **Autosampler Location: 2**
Sample ID: STD1 14J23419 **Date Collected: 10/28/2014 7:42:42 AM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: STD1 14J23419

Repl #	SampleConc mg/L	StndConc mg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1		[0.00010]	0.0013	0.0130	0.0014	07:43:47	Yes
2		[0.00010]	0.0010	0.0094	0.0011	07:44:30	Yes
3		[0.00010]	0.0010	0.0064	0.0011	07:45:14	Yes
Mean:		[0.00010]	0.0011				
SD:		0.00000	0.0001				
%RSD:		0.00000	12.32				

Standard number 1 applied. [0.00010]
Correlation Coef.: 1.000000 Slope: 11.10072 Intercept: 0.00000

==========

Sequence No.: 3 **Autosampler Location: 3**
Sample ID: STD2 14J23419 **Date Collected: 10/28/2014 7:45:38 AM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: STD2 14J23419

Repl #	SampleConc mg/L	StndConc mg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1		[0.00020]	0.0029	0.0225	0.0030	07:46:42	Yes
2		[0.00020]	0.0031	0.0280	0.0032	07:47:26	Yes

3	[0.00020]	0.0031	0.0281	0.0032	07:48:10	Yes
Mean:	[0.00020]	0.0030				
SD:	0.00000	0.0001				
%RSD:	0.00000	2.75				

Standard number 2 applied. [0.00020]
Correlation Coef.: 0.988291 Slope: 15.15268 Intercept: -0.00014

==========

Sequence No.: 4 **Autosampler Location: 4**
Sample ID: STD3 14J23419 **Date Collected: 10/28/2014 7:48:35 AM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: STD3 14J23419

Repl #	SampleConc mg/L	StndConc mg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1		[0.00040]	0.0059	0.0516	0.0060	07:49:39	Yes
2		[0.00040]	0.0059	0.0503	0.0060	07:50:23	Yes
3		[0.00040]	0.0060	0.0560	0.0061	07:51:07	Yes
Mean:		[0.00040]	0.0059				
SD:		0.00000	0.0001				
%RSD:		0.00000	1.23				

Standard number 3 applied. [0.00040]
Correlation Coef.: 0.997274 Slope: 15.11948 Intercept: -0.00013

==========

Sequence No.: 5 **Autosampler Location: 5**
Sample ID: STD4 14J23419 **Date Collected: 10/28/2014 7:51:32 AM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: STD4 14J23419

Repl #	SampleConc mg/L	StndConc mg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1		[0.00100]	0.0143	0.1210	0.0145	07:52:37	Yes
2		[0.00100]	0.0144	0.1218	0.0145	07:53:21	Yes
3		[0.00100]	0.0144	0.1248	0.0145	07:54:04	Yes
Mean:		[0.00100]	0.0144				
SD:		0.00000	0.0000				
%RSD:		0.00000	0.30				

Standard number 4 applied. [0.00100]
Correlation Coef.: 0.999436 Slope: 14.48992 Intercept: -0.00004

==========

Sequence No.: 6 **Autosampler Location: 6**
Sample ID: STD5 14J23419 **Date Collected: 10/28/2014 7:54:29 AM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: STD5 14J23419

Repl #	SampleConc mg/L	StndConc mg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1		[0.00200]	0.0288	0.2432	0.0289	07:55:32	Yes
2		[0.00200]	0.0288	0.2430	0.0289	07:56:16	Yes
3		[0.00200]	0.0285	0.2432	0.0286	07:57:00	Yes
Mean:		[0.00200]	0.0287				
SD:		0.00000	0.0002				
%RSD:		0.00000	0.68				

Standard number 5 applied. [0.00200]
Correlation Coef.: 0.999867 Slope: 14.37276 Intercept: -0.00001

==========

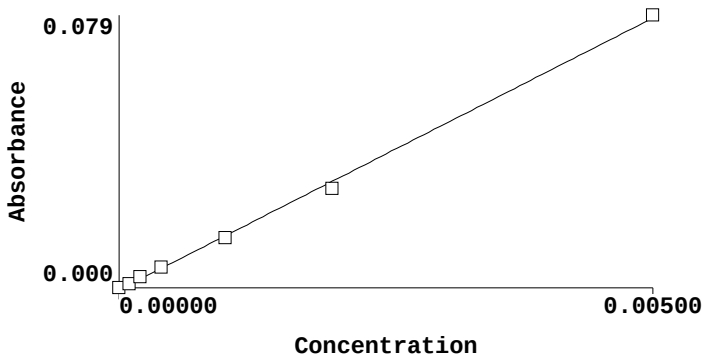
Sequence No.: 7 **Autosampler Location: 7**
Sample ID: STD6 14J09762 **Date Collected: 10/28/2014 7:57:23 AM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**

Dilution: **Sample Prep Vol:**

Replicate Data: STD6 14J09762

Repl #	SampleConc mg/L	StndConc mg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1		[0.00500]	0.0789	0.6724	0.0790	07:58:27	Yes
2		[0.00500]	0.0793	0.6784	0.0794	07:59:11	Yes
3		[0.00500]	0.0797	0.6753	0.0798	07:59:55	Yes
Mean:		[0.00500]	0.0793				
SD:		0.00000	0.0004				
%RSD:		0.00000	0.50				

Standard number 6 applied. [0.00500]
Correlation Coef.: 0.999245 Slope: 15.81473 Intercept: -0.00074



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	0.00005	0.00	137.3
STD1 14J23419	0.0011	0.00010	0.00012	0.00	12.3
STD2 14J23419	0.0030	0.00020	0.00024	0.00	2.8
STD3 14J23419	0.0059	0.00040	0.00042	0.00	1.2
STD4 14J23419	0.0144	0.00100	0.00096	0.00	0.3
STD5 14J23419	0.0287	0.00200	0.00186	0.00	0.7
STD6 14J09762	0.0793	0.00500	0.00506	0.00	0.5

Correlation Coef.: 0.999245 Slope: 15.81473 Intercept: -0.00074

Analytical Sequence
Method: Hg Water 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 14J23419	Applied
7	7	STD6 14J09762	Applied

==========

Analysis Begun

Logged In Analyst: hg4 **Technique: AA FIMS-MHS**
Spectrometer Model: FIMS-100, S/N B050-9550 **Autosampler Model: S10**

Sample Information File: C:\data-FIMS4\Sample Information\102814CVAA4 W.sif
Batch ID: 628
Results Data Set: 102814CVAA4 W
Results Library: C:\data-FIMS4\Results\Results.mdb

==========

Sequence No.: 1 **Autosampler Location: 156**
Sample ID: ICVLL 14J23419 **Date Collected: 10/28/2014 8:00:49 AM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: ICVLL 14J23419

Repl #	SampleConc mg/L	StndConc mg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.00024	0.00024	0.0030	0.0306	0.0031	08:01:54	Yes
2	0.00023	0.00023	0.0029	0.0257	0.0030	08:02:38	Yes
3	0.00023	0.00023	0.0029	0.0272	0.0030	08:03:22	Yes
Mean:	0.00023	0.00023	0.0029				
SD:	0.00000	0.00000	0.0001				
%RSD:	1.553	1.553	1.94				

QC value within limits for Hg 253.7 Recovery = 115.97%
All analyte(s) passed QC.

==========

Sequence No.: 2 **Autosampler Location: 157**
Sample ID: ICV 14J09761 **Date Collected: 10/28/2014 8:03:47 AM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: ICV 14J09761

Repl #	SampleConc mg/L	StndConc mg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.00264	0.00264	0.0411	0.3538	0.0412	08:04:53	Yes
2	0.00376	0.00376	0.0588	0.5974	0.0589	08:05:37	Yes
3	0.00277	0.00277	0.0430	0.3715	0.0431	08:06:21	Yes
Mean:	0.00306	0.00306	0.0476				
SD:	0.00061	0.00061	0.0097				
%RSD:	20.10	20.10	20.41				

QC value within limits for Hg 253.7 Recovery = 101.95%
All analyte(s) passed QC.

==========

Sequence No.: 3 **Autosampler Location: 1**
Sample ID: ICB **Date Collected: 10/28/2014 8:06:47 AM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: ICB

Repl #	SampleConc mg/L	StndConc mg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.00005	0.00005	-0.0000	0.0010	0.0001	08:07:50	Yes
2	0.00005	0.00005	0.0001	0.0017	0.0002	08:08:34	Yes
3	0.00005	0.00005	0.0001	0.0034	0.0002	08:09:18	Yes
Mean:	0.00005	0.00005	0.0001				
SD:	0.00000	0.00000	0.0001				
%RSD:	8.458	8.458	111.10				

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

Sequence No.: 4
Sample ID: BLANK WG750952
Analyst: 628
Initial Sample Wt:
Dilution:
Autosampler Location: 9
Date Collected: 10/28/2014 8:09:42 AM
Data Type: Original
Initial Sample Vol: 3 mL
Sample Prep Vol: 30 mL

Replicate Data: BLANK WG750952

Repl #	SampleConc mg/L	StndConc mg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.00049	0.00005	0.0000	0.0016	0.0001	08:10:46	Yes
2	0.00059	0.00006	0.0002	0.0055	0.0003	08:11:30	Yes
3	0.00043	0.00004	-0.0001	-0.0011	0.0000	08:12:14	Yes
Mean:	0.00051	0.00005	0.0001				
SD:	0.00008	0.00001	0.0001				
%RSD:	16.16	16.16	200.82				

Sequence No.: 5
Sample ID: LCS WG750952
Analyst: 628
Initial Sample Wt:
Dilution:
Autosampler Location: 10
Date Collected: 10/28/2014 8:12:38 AM
Data Type: Original
Initial Sample Vol: 3 mL
Sample Prep Vol: 30 mL

Replicate Data: LCS WG750952

Repl #	SampleConc mg/L	StndConc mg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.02661	0.00266	0.0413	0.3591	0.0414	08:13:42	Yes
2	0.02859	0.00286	0.0445	0.3878	0.0446	08:14:26	Yes
3	0.02872	0.00287	0.0447	0.3916	0.0448	08:15:10	Yes
Mean:	0.02797	0.00280	0.0435				
SD:	0.00118	0.00012	0.0019				
%RSD:	4.224	4.224	4.30				

Sequence No.: 6
Sample ID: LCSD WG750952
Analyst: 628
Initial Sample Wt:
Dilution:
Autosampler Location: 11
Date Collected: 10/28/2014 8:15:35 AM
Data Type: Original
Initial Sample Vol: 3 mL
Sample Prep Vol: 30 mL

Replicate Data: LCSD WG750952

Repl #	SampleConc mg/L	StndConc mg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.02865	0.00287	0.0446	0.3948	0.0447	08:16:40	Yes
2	0.02871	0.00287	0.0447	0.3926	0.0448	08:17:24	Yes
3	0.02883	0.00288	0.0449	0.3909	0.0450	08:18:07	Yes
Mean:	0.02873	0.00287	0.0447				
SD:	0.00009	0.00001	0.0001				
%RSD:	0.3073	0.3073	0.31				

Sequence No.: 7
Sample ID: L729208-01 WG750952
Analyst: 628
Initial Sample Wt:
Dilution:
Autosampler Location: 12
Date Collected: 10/28/2014 8:18:32 AM
Data Type: Original
Initial Sample Vol: 3 mL
Sample Prep Vol: 30 mL

Replicate Data: L729208-01 WG750952

Repl #	SampleConc mg/L	StndConc mg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.00054	0.00005	0.0001	0.0039	0.0002	08:19:37	Yes
2	0.00043	0.00004	-0.0001	-0.0002	0.0000	08:20:20	Yes
3	0.00054	0.00005	0.0001	0.0031	0.0002	08:21:04	Yes
Mean:	0.00050	0.00005	0.0001				
SD:	0.00007	0.00001	0.0001				
%RSD:	13.01	13.01	174.89				

Sequence No.: 8
Sample ID: MS WG750952 L729208-01
Analyst: 628
Initial Sample Wt:
Dilution:
Autosampler Location: 13
Date Collected: 10/28/2014 8:21:29 AM
Data Type: Original
Initial Sample Vol: 3 mL
Sample Prep Vol: 30 mL

Replicate Data: MS WG750952 L729208-01

Repl #	SampleConc mg/L	StndConc mg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.03146	0.00315	0.0490	0.4366	0.0491	08:22:34	Yes
2	0.03125	0.00312	0.0487	0.4314	0.0488	08:23:18	Yes
3	0.03138	0.00314	0.0489	0.4341	0.0490	08:24:02	Yes
Mean:	0.03136	0.00314	0.0489				
SD:	0.00011	0.00001	0.0002				
%RSD:	0.3416	0.3416	0.35				

Sequence No.: 9
Sample ID: MSD WG750952 L729208-01
Analyst: 628
Initial Sample Wt:
Dilution:
Autosampler Location: 14
Date Collected: 10/28/2014 8:24:27 AM
Data Type: Original
Initial Sample Vol: 3 mL
Sample Prep Vol: 30 mL

Replicate Data: MSD WG750952 L729208-01

Repl #	SampleConc mg/L	StndConc mg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.02987	0.00299	0.0465	0.4077	0.0466	08:25:30	Yes
2	0.02971	0.00297	0.0462	0.4066	0.0464	08:26:14	Yes
3	0.02975	0.00297	0.0463	0.3340	0.0464	08:26:58	Yes
Mean:	0.02977	0.00298	0.0464				
SD:	0.00008	0.00001	0.0001				
%RSD:	0.2776	0.2776	0.28				

Sequence No.: 10
Sample ID: SD WG750952 L729208-01
Analyst: 628
Initial Sample Wt:
Dilution: 5X
Autosampler Location: 15
Date Collected: 10/28/2014 8:27:22 AM
Data Type: Original
Initial Sample Vol: 3 mL
Sample Prep Vol: 30 mL

Replicate Data: SD WG750952 L729208-01

Repl #	SampleConc mg/L	StndConc mg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.00240	0.00005	0.0000	0.0015	0.0001	08:28:26	Yes
2	0.00260	0.00005	0.0001	0.0012	0.0002	08:29:10	Yes
3	0.00235	0.00005	0.0000	-0.0017	0.0001	08:29:54	Yes
Mean:	0.00245	0.00005	0.0000				
SD:	0.00013	0.00000	0.0000				
%RSD:	5.235	5.235	105.66				

Sequence No.: 11
Sample ID: L727205-03 WG750952
Analyst: 628
Initial Sample Wt:
Dilution:
Autosampler Location: 16
Date Collected: 10/28/2014 8:30:18 AM
Data Type: Original
Initial Sample Vol: 3 mL
Sample Prep Vol: 30 mL

Replicate Data: L727205-03 WG750952

Repl #	SampleConc mg/L	StndConc mg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.00052	0.00005	0.0001	0.0030	0.0002	08:31:21	Yes
2	0.00048	0.00005	0.0000	0.0016	0.0001	08:32:05	Yes
3	0.00052	0.00005	0.0001	0.0003	0.0002	08:32:49	Yes
Mean:	0.00051	0.00005	0.0001				
SD:	0.00002	0.00000	0.0000				
%RSD:	4.500	4.500	54.23				

Sequence No.: 12
Sample ID: L729208-03 WG750952
Analyst: 628
Initial Sample Wt:
Dilution:
Autosampler Location: 17
Date Collected: 10/28/2014 8:33:13 AM
Data Type: Original
Initial Sample Vol: 3 mL
Sample Prep Vol: 30 mL

Replicate Data: L729208-03 WG750952

Repl #	SampleConc mg/L	StndConc mg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.00052	0.00005	0.0001	0.0019	0.0002	08:34:17	Yes
2	0.00043	0.00004	-0.0001	-0.0041	0.0000	08:35:01	Yes
3	0.00058	0.00006	0.0002	0.0046	0.0003	08:35:45	Yes
Mean:	0.00051	0.00005	0.0001				
SD:	0.00007	0.00001	0.0001				
%RSD:	14.55	14.55	176.40				

Sequence No.: 13
Sample ID: L729342-03 WG750952
Analyst: 628
Initial Sample Wt:
Dilution:
Autosampler Location: 18
Date Collected: 10/28/2014 8:36:08 AM
Data Type: Original
Initial Sample Vol: 3 mL
Sample Prep Vol: 30 mL

Replicate Data: L729342-03 WG750952

Repl #	SampleConc mg/L	StndConc mg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.00062	0.00006	0.0002	0.0042	0.0003	08:37:12	Yes
2	0.00040	0.00004	-0.0001	-0.0008	0.0000	08:37:56	Yes
3	0.00042	0.00004	-0.0001	-0.0002	0.0000	08:38:40	Yes
Mean:	0.00048	0.00005	0.0000				
SD:	0.00012	0.00001	0.0002				
%RSD:	24.50	24.50	825.63				

Sequence No.: 14
Sample ID: L729391-02 WG750952
Analyst: 628
Initial Sample Wt:
Dilution:
Autosampler Location: 19
Date Collected: 10/28/2014 8:39:04 AM
Data Type: Original
Initial Sample Vol: 3 mL
Sample Prep Vol: 30 mL

Replicate Data: L729391-02 WG750952

Repl #	SampleConc mg/L	StndConc mg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.00045	0.00005	-0.0000	0.0001	0.0001	08:40:08	Yes
2	0.00055	0.00006	0.0001	0.0039	0.0002	08:40:52	Yes
3	0.00045	0.00004	-0.0000	0.0001	0.0001	08:41:35	Yes
Mean:	0.00049	0.00005	0.0000				
SD:	0.00006	0.00001	0.0001				
%RSD:	12.34	12.34	308.05				

Sequence No.: 15
Sample ID: L729391-04 WG750952
Analyst: 628
Initial Sample Wt:
Dilution:
Autosampler Location: 20
Date Collected: 10/28/2014 8:41:59 AM
Data Type: Original
Initial Sample Vol: 3 mL
Sample Prep Vol: 30 mL

Replicate Data: L729391-04 WG750952

Repl #	SampleConc mg/L	StndConc mg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.00039	0.00004	-0.0001	-0.0013	-0.0000	08:43:03	Yes
2	0.00041	0.00004	-0.0001	-0.0004	0.0000	08:43:47	Yes
3	0.00038	0.00004	-0.0001	-0.0027	-0.0000	08:44:31	Yes
Mean:	0.00039	0.00004	-0.0001				
SD:	0.00002	0.00000	0.0000				
%RSD:	4.178	4.178	21.74				

Sequence No.: 16 | **Autosampler Location: 21**
Sample ID: L729396-03 WG750952 | **Date Collected: 10/28/2014 8:44:55 AM**
Analyst: 628 | **Data Type: Original**
Initial Sample Wt: | **Initial Sample Vol: 3 mL**
Dilution: | **Sample Prep Vol: 30 mL**

Replicate Data: L729396-03 WG750952

Repl #	SampleConc mg/L	StndConc mg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.00051	0.00005	0.0001	0.0024	0.0002	08:45:59	Yes
2	0.00048	0.00005	0.0000	0.0015	0.0001	08:46:43	Yes
3	0.00055	0.00006	0.0001	0.0038	0.0002	08:47:27	Yes
Mean:	0.00052	0.00005	0.0001				
SD:	0.00004	0.00000	0.0001				
%RSD:	7.021	7.021	73.41				

Sequence No.: 17 | **Autosampler Location: 22**
Sample ID: L729468-01 WG750952 | **Date Collected: 10/28/2014 8:47:51 AM**
Analyst: 628 | **Data Type: Original**
Initial Sample Wt: | **Initial Sample Vol: 3 mL**
Dilution: | **Sample Prep Vol: 30 mL**

Replicate Data: L729468-01 WG750952

Repl #	SampleConc mg/L	StndConc mg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.00048	0.00005	0.0000	0.0019	0.0001	08:48:56	Yes
2	0.00049	0.00005	0.0000	0.0020	0.0001	08:49:39	Yes
3	0.00044	0.00004	-0.0000	-0.0023	0.0001	08:50:23	Yes
Mean:	0.00047	0.00005	0.0000				
SD:	0.00003	0.00000	0.0000				
%RSD:	5.721	5.721	478.90				

Sequence No.: 18 | **Autosampler Location: 23**
Sample ID: L729585-01 WG750952 | **Date Collected: 10/28/2014 8:50:48 AM**
Analyst: 628 | **Data Type: Original**
Initial Sample Wt: | **Initial Sample Vol: 3 mL**
Dilution: | **Sample Prep Vol: 30 mL**

Replicate Data: L729585-01 WG750952

Repl #	SampleConc mg/L	StndConc mg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.00050	0.00005	0.0001	0.0026	0.0002	08:51:52	Yes
2	0.00057	0.00006	0.0002	0.0038	0.0003	08:52:36	Yes
3	0.00039	0.00004	-0.0001	-0.0066	-0.0000	08:53:20	Yes
Mean:	0.00049	0.00005	0.0000				
SD:	0.00009	0.00001	0.0001				
%RSD:	18.02	18.02	443.76				

Sequence No.: 19 | **Autosampler Location: 24**
Sample ID: L729585-02 WG750952 | **Date Collected: 10/28/2014 8:53:45 AM**
Analyst: 628 | **Data Type: Original**
Initial Sample Wt: | **Initial Sample Vol: 3 mL**
Dilution: | **Sample Prep Vol: 30 mL**

Replicate Data: L729585-02 WG750952

Repl #	SampleConc mg/L	StndConc mg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.00048	0.00005	0.0000	0.0004	0.0001	08:54:50	Yes
2	0.00055	0.00005	0.0001	0.0023	0.0002	08:55:34	Yes
3	0.00037	0.00004	-0.0001	-0.0051	-0.0000	08:56:18	Yes
Mean:	0.00047	0.00005	0.0000				
SD:	0.00009	0.00001	0.0001				
%RSD:	18.47	18.47	>999.9%				

==========

Sequence No.: 20 **Autosampler Location: 8**
Sample ID: CCV 14J09762 **Date Collected: 10/28/2014 8:56:42 AM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: CCV 14J09762

Repl #	SampleConc mg/L	StndConc mg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.00254	0.00254	0.0394	0.3507	0.0395	08:57:46	Yes
2	0.00256	0.00256	0.0397	0.3508	0.0398	08:58:30	Yes
3	0.00254	0.00254	0.0395	0.3485	0.0396	08:59:14	Yes
Mean:	0.00255	0.00255	0.0395				
SD:	0.00001	0.00001	0.0001				
%RSD:	0.3464	0.3464	0.35				

QC value within limits for Hg 253.7 Recovery = 101.84%
All analyte(s) passed QC.

==========

Sequence No.: 21 **Autosampler Location: 1**
Sample ID: CCB **Date Collected: 10/28/2014 8:59:38 AM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: CCB

Repl #	SampleConc mg/L	StndConc mg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.00005	0.00005	0.0001	0.0023	0.0002	09:00:41	Yes
2	0.00005	0.00005	0.0001	0.0033	0.0002	09:01:25	Yes
3	0.00004	0.00004	-0.0001	-0.0010	0.0000	09:02:09	Yes
Mean:	0.00005	0.00005	0.0000				
SD:	0.00001	0.00001	0.0001				
%RSD:	12.85	12.85	252.68				

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

==========

Sequence No.: 22 **Autosampler Location: 25**
Sample ID: L729585-03 WG750952 **Date Collected: 10/28/2014 9:02:32 AM**
Analyst: 628 **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol: 3 mL**
Dilution: **Sample Prep Vol: 30 mL**

Replicate Data: L729585-03 WG750952

Repl #	SampleConc mg/L	StndConc mg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.00040	0.00004	-0.0001	-0.0013	-0.0000	09:03:37	Yes
2	0.00040	0.00004	-0.0001	-0.0024	-0.0000	09:04:21	Yes
3	0.00041	0.00004	-0.0001	-0.0001	0.0000	09:05:05	Yes
Mean:	0.00040	0.00004	-0.0001				
SD:	0.00001	0.00000	0.0000				
%RSD:	2.348	2.348	15.23				

==========

Sequence No.: 23 **Autosampler Location: 26**
Sample ID: L729638-01 WG750952 **Date Collected: 10/28/2014 9:05:30 AM**
Analyst: 628 **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol: 3 mL**
Dilution: **Sample Prep Vol: 30 mL**

Replicate Data: L729638-01 WG750952

Repl #	SampleConc mg/L	StndConc mg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.00055	0.00006	0.0001	0.0040	0.0002	09:06:34	Yes
2	0.00041	0.00004	-0.0001	-0.0004	0.0000	09:07:17	Yes
3	0.00051	0.00005	0.0001	-0.0021	0.0002	09:08:01	Yes

Mean:	0.00049	0.00005	0.0000
SD:	0.00007	0.00001	0.0001
%RSD:	14.81	14.81	278.77

==========

Sequence No.: 24 **Autosampler Location: 27**
Sample ID: L729709-01 WG750952 **Date Collected: 10/28/2014 9:08:26 AM**
Analyst: 628 **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol: 3 mL**
Dilution: **Sample Prep Vol: 30 mL**

Replicate Data: L729709-01 WG750952

Repl #	SampleConc mg/L	StndConc mg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.00038	0.00004	-0.0001	-0.0018	-0.0000	09:09:30	Yes
2	0.00041	0.00004	-0.0001	-0.0041	0.0000	09:10:13	Yes
3	0.00051	0.00005	0.0001	0.0027	0.0002	09:10:57	Yes
Mean:	0.00043	0.00004	-0.0001				
SD:	0.00006	0.00001	0.0001				
%RSD:	14.69	14.69	193.65				

==========

Sequence No.: 25 **Autosampler Location: 28**
Sample ID: L729778-01 WG750952 **Date Collected: 10/28/2014 9:11:21 AM**
Analyst: 628 **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol: 3 mL**
Dilution: **Sample Prep Vol: 30 mL**

Replicate Data: L729778-01 WG750952

Repl #	SampleConc mg/L	StndConc mg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.00044	0.00004	-0.0000	0.0002	0.0001	09:12:25	Yes
2	0.00049	0.00005	0.0000	0.0008	0.0001	09:13:08	Yes
3	0.00040	0.00004	-0.0001	-0.0028	0.0000	09:13:52	Yes
Mean:	0.00045	0.00004	-0.0000				
SD:	0.00005	0.00000	0.0001				
%RSD:	10.19	10.19	231.25				

==========

Sequence No.: 26 **Autosampler Location: 29**
Sample ID: L729778-03 WG750952 **Date Collected: 10/28/2014 9:14:16 AM**
Analyst: 628 **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol: 3 mL**
Dilution: **Sample Prep Vol: 30 mL**

Replicate Data: L729778-03 WG750952

Repl #	SampleConc mg/L	StndConc mg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.00045	0.00004	-0.0000	-0.0009	0.0001	09:15:20	Yes
2	0.00046	0.00005	-0.0000	0.0011	0.0001	09:16:04	Yes
3	0.00048	0.00005	0.0000	0.0014	0.0001	09:16:48	Yes
Mean:	0.00046	0.00005	-0.0000				
SD:	0.00002	0.00000	0.0000				
%RSD:	3.411	3.411	451.67				

==========

Sequence No.: 27 **Autosampler Location: 30**
Sample ID: L729778-05 WG750952 **Date Collected: 10/28/2014 9:17:12 AM**
Analyst: 628 **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol: 3 mL**
Dilution: **Sample Prep Vol: 30 mL**

Replicate Data: L729778-05 WG750952

Repl #	SampleConc mg/L	StndConc mg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.00043	0.00004	-0.0001	0.0005	0.0000	09:18:16	Yes
2	0.00040	0.00004	-0.0001	-0.0005	0.0000	09:19:00	Yes
3	0.00040	0.00004	-0.0001	-0.0032	-0.0000	09:19:44	Yes

Mean:	0.00041	0.00004	-0.0001
SD:	0.00002	0.00000	0.0000
%RSD:	4.370	4.370	32.22

==========

Sequence No.: 28 **Autosampler Location: 31**
Sample ID: L729778-07 WG750952 **Date Collected: 10/28/2014 9:20:08 AM**
Analyst: 628 **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol: 3 mL**
Dilution: **Sample Prep Vol: 30 mL**

Replicate Data: L729778-07 WG750952

Repl #	SampleConc mg/L	StndConc mg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.00044	0.00004	-0.0000	0.0005	0.0001	09:21:11	Yes
2	0.00044	0.00004	-0.0000	-0.0018	0.0001	09:21:55	Yes
3	0.00052	0.00005	0.0001	0.0027	0.0002	09:22:39	Yes
Mean:	0.00047	0.00005	0.0000				
SD:	0.00005	0.00000	0.0001				
%RSD:	10.36	10.36	>999.9%				

==========

Sequence No.: 29 **Autosampler Location: 32**
Sample ID: L729782-01 WG750952 **Date Collected: 10/28/2014 9:23:03 AM**
Analyst: 628 **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol: 3 mL**
Dilution: **Sample Prep Vol: 30 mL**

Replicate Data: L729782-01 WG750952

Repl #	SampleConc mg/L	StndConc mg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.00047	0.00005	0.0000	0.0013	0.0001	09:24:08	Yes
2	0.00043	0.00004	-0.0001	-0.0005	0.0000	09:24:52	Yes
3	0.00043	0.00004	-0.0001	-0.0002	0.0000	09:25:36	Yes
Mean:	0.00044	0.00004	-0.0000				
SD:	0.00002	0.00000	0.0000				
%RSD:	5.067	5.067	101.81				

==========

Sequence No.: 30 **Autosampler Location: 33**
Sample ID: INSTBLK WG750952 **Date Collected: 10/28/2014 9:25:59 AM**
Analyst: 628 **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol: 30 mL**
Dilution: **Sample Prep Vol: 30 mL**

Replicate Data: INSTBLK WG750952

Repl #	SampleConc mg/L	StndConc mg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.00004	0.00004	-0.0001	-0.0018	0.0000	09:27:04	Yes
2	0.00005	0.00005	0.0000	0.0016	0.0001	09:27:48	Yes
3	0.00004	0.00004	-0.0000	0.0008	0.0001	09:28:32	Yes
Mean:	0.00004	0.00004	-0.0000				
SD:	0.00000	0.00000	0.0000				
%RSD:	5.814	5.814	135.30				

==========

Sequence No.: 31 **Autosampler Location: 8**
Sample ID: CCV 14J09762 **Date Collected: 10/28/2014 9:28:56 AM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: CCV 14J09762

Repl #	SampleConc mg/L	StndConc mg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.00258	0.00258	0.0400	0.3625	0.0401	09:30:00	Yes
2	0.00256	0.00256	0.0397	0.3573	0.0398	09:30:44	Yes
3	0.00255	0.00255	0.0396	0.3535	0.0397	09:31:28	Yes

Mean:	0.00256	0.00256	0.0398
SD:	0.00001	0.00001	0.0002
%RSD:	0.5776	0.5776	0.59

QC value within limits for Hg 253.7 Recovery = 102.47%
All analyte(s) passed QC.

==========

Sequence No.: 32 **Autosampler Location: 1**
Sample ID: CCB **Date Collected: 10/28/2014 9:31:52 AM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: CCB

Repl #	SampleConc mg/L	StndConc mg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.00005	0.00005	0.0000	0.0013	0.0002	09:32:55	Yes
2	0.00004	0.00004	-0.0001	-0.0006	0.0000	09:33:39	Yes
3	0.00005	0.00005	0.0000	0.0016	0.0002	09:34:23	Yes
Mean:	0.00005	0.00005	0.0000				
SD:	0.00000	0.00000	0.0001				
%RSD:	8.937	8.937	670.46				

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

==========

Sequence No.: 33 **Autosampler Location: 34**
Sample ID: BLANK WG750953 **Date Collected: 10/28/2014 9:34:46 AM**
Analyst: 628 **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol: 30 mL**
Dilution: **Sample Prep Vol: 30 mL**

Replicate Data: BLANK WG750953

Repl #	SampleConc mg/L	StndConc mg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.00005	0.00005	0.0000	0.0007	0.0001	09:35:51	Yes
2	0.00005	0.00005	0.0000	0.0011	0.0001	09:36:34	Yes
3	0.00004	0.00004	-0.0001	-0.0006	0.0000	09:37:18	Yes
Mean:	0.00005	0.00005	-0.0000				
SD:	0.00000	0.00000	0.0001				
%RSD:	7.573	7.573	903.59				

==========

Sequence No.: 34 **Autosampler Location: 35**
Sample ID: LCS WG750953 **Date Collected: 10/28/2014 9:37:42 AM**
Analyst: 628 **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol: 30 mL**
Dilution: **Sample Prep Vol: 30 mL**

Replicate Data: LCS WG750953

Repl #	SampleConc mg/L	StndConc mg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.00287	0.00287	0.0447	0.4070	0.0448	09:38:47	Yes
2	0.00285	0.00285	0.0444	0.4016	0.0445	09:39:31	Yes
3	0.00284	0.00284	0.0442	0.3955	0.0443	09:40:15	Yes
Mean:	0.00286	0.00286	0.0444				
SD:	0.00002	0.00002	0.0003				
%RSD:	0.5689	0.5689	0.58				

User canceled analysis.

==========

Analysis Begun

Logged In Analyst: hg4 **Technique: AA FIMS-MHS**
Spectrometer Model: FIMS-100, S/N B050-9550 **Autosampler Model: S10**

Sample Information File: C:\data-FIMS4\Sample Information\102814CVAA4 W.sif
Batch ID: 628
Results Data Set: 102814CVAA4 W
Results Library: C:\data-FIMS4\Results\Results.mdb

==========

Sequence No.: 1 **Autosampler Location: 1**
Sample ID: CALBLK **Date Collected: 10/28/2014 9:40:43 AM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: CALBLK

Repl #	SampleConc mg/L	StndConc mg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1		[0.00]	0.0001	0.0001	0.0001	09:41:47	Yes
2		[0.00]	0.0002	0.0021	0.0002	09:42:31	Yes
3		[0.00]	0.0000	-0.0005	0.0000	09:43:15	Yes
Mean:		[0.00]	0.0001				
SD:		0.00	0.0001				
%RSD:		0.00	48.54				

Auto-zero performed.

==========

Sequence No.: 2 **Autosampler Location: 2**
Sample ID: STD1 14J23419 **Date Collected: 10/28/2014 9:43:38 AM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: STD1 14J23419

Repl #	SampleConc mg/L	StndConc mg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1		[0.00010]	0.0012	0.0124	0.0013	09:44:42	Yes
2		[0.00010]	0.0012	0.0119	0.0013	09:45:26	Yes
3		[0.00010]	0.0012	0.0117	0.0013	09:46:10	Yes
Mean:		[0.00010]	0.0012				
SD:		0.00000	0.0000				
%RSD:		0.00000	0.59				

Standard number 1 applied. [0.00010]
Correlation Coef.: 1.000000 Slope: 11.79557 Intercept: 0.00000

==========

Sequence No.: 3 **Autosampler Location: 3**
Sample ID: STD2 14J23419 **Date Collected: 10/28/2014 9:46:33 AM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: STD2 14J23419

Repl #	SampleConc mg/L	StndConc mg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1		[0.00020]	0.0032	0.0321	0.0033	09:47:37	Yes
2		[0.00020]	0.0033	0.0314	0.0034	09:48:21	Yes
3		[0.00020]	0.0034	0.0336	0.0035	09:49:05	Yes
Mean:		[0.00020]	0.0033				
SD:		0.00000	0.0001				
%RSD:		0.00000	1.86				

Standard number 2 applied. [0.00020]
Correlation Coef.: 0.986940 Slope: 16.44463 Intercept: -0.00015

==========

Sequence No.: 4 **Autosampler Location: 4**
Sample ID: STD3 14J23419 **Date Collected: 10/28/2014 9:49:30 AM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: STD3 14J23419

Repl #	SampleConc mg/L	StndConc mg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1		[0.00040]	0.0061	0.0572	0.0062	09:50:35	Yes
2		[0.00040]	0.0063	0.0610	0.0064	09:51:18	Yes
3		[0.00040]	0.0061	0.0585	0.0062	09:52:02	Yes
Mean:		[0.00040]	0.0062				
SD:		0.00000	0.0001				
%RSD:		0.00000	1.86				

Standard number 3 applied. [0.00040]
Correlation Coef.: 0.996526 Slope: 15.84495 Intercept: -0.00011

Sequence No.: 5 **Autosampler Location: 5**
Sample ID: STD4 14J23419 **Date Collected: 10/28/2014 9:52:26 AM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: STD4 14J23419

Repl #	SampleConc mg/L	StndConc mg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1		[0.00100]	0.0150	0.1383	0.0151	09:53:31	Yes
2		[0.00100]	0.0152	0.1400	0.0153	09:54:15	Yes
3		[0.00100]	0.0151	0.1402	0.0152	09:54:59	Yes
Mean:		[0.00100]	0.0151				
SD:		0.00000	0.0001				
%RSD:		0.00000	0.45				

Standard number 4 applied. [0.00100]
Correlation Coef.: 0.999324 Slope: 15.18734 Intercept: -0.00001

Sequence No.: 6 **Autosampler Location: 6**
Sample ID: STD5 14J23419 **Date Collected: 10/28/2014 9:55:24 AM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: STD5 14J23419

Repl #	SampleConc mg/L	StndConc mg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1		[0.00200]	0.0299	0.2712	0.0300	09:56:27	Yes
2		[0.00200]	0.0298	0.2718	0.0299	09:57:11	Yes
3		[0.00200]	0.0300	0.2727	0.0301	09:57:55	Yes
Mean:		[0.00200]	0.0299				
SD:		0.00000	0.0001				
%RSD:		0.00000	0.29				

Standard number 5 applied. [0.00200]
Correlation Coef.: 0.999819 Slope: 14.96514 Intercept: 0.00005

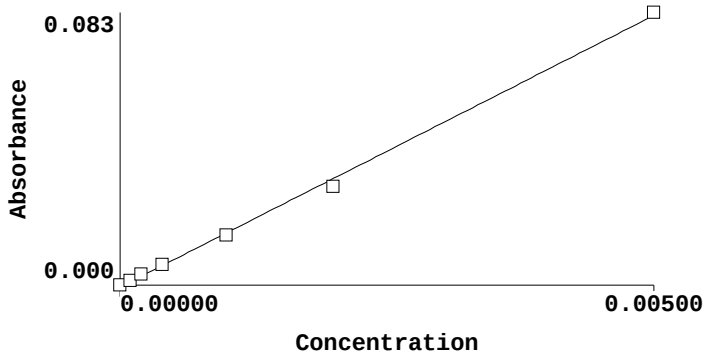
Sequence No.: 7 **Autosampler Location: 7**
Sample ID: STD6 14J09762 **Date Collected: 10/28/2014 9:58:19 AM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: STD6 14J09762

Repl #	SampleConc mg/L	StndConc mg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1		[0.00500]	0.0826	0.7537	0.0827	09:59:23	Yes
2		[0.00500]	0.0826	0.7544	0.0827	10:00:06	Yes

3	[0.00500]	0.0832	0.7572	0.0833	10:00:50	Yes
Mean:	[0.00500]	0.0828				
SD:	0.00000	0.0003				
%RSD:	0.00000	0.40				

Standard number 6 applied. [0.00500]
Correlation Coef.: 0.999208 Slope: 16.50178 Intercept: -0.00073



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	0.00004	0.00	48.5
STD1 14J23419	0.0012	0.00010	0.00012	0.00	0.6
STD2 14J23419	0.0033	0.00020	0.00024	0.00	1.9
STD3 14J23419	0.0062	0.00040	0.00042	0.00	1.9
STD4 14J23419	0.0151	0.00100	0.00096	0.00	0.5
STD5 14J23419	0.0299	0.00200	0.00186	0.00	0.3
STD6 14J09762	0.0828	0.00500	0.00506	0.00	0.4

Correlation Coef.: 0.999208 Slope: 16.50178 Intercept: -0.00073

Analytical Sequence
Method: Hg Water 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 14J23419	Applied
7	7	STD6 14J09762	Applied

==========

Analysis Begun

Logged In Analyst: hg4 **Technique: AA FIMS-MHS**
Spectrometer Model: FIMS-100, S/N B050-9550 **Autosampler Model: S10**

Sample Information File: C:\data-FIMS4\Sample Information\102814CVAA4 W.sif
Batch ID: 628
Results Data Set: 102814CVAA4 W
Results Library: C:\data-FIMS4\Results\Results.mdb

==========

Sequence No.: 1 **Autosampler Location: 156**
Sample ID: ICVLL 14J23419 **Date Collected: 10/28/2014 10:01:59 AM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: ICVLL 14J23419

Repl #	SampleConc mg/L	StndConc mg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.00022	0.00022	0.0029	0.0258	0.0030	10:03:05	Yes
2	0.00024	0.00024	0.0032	0.0328	0.0033	10:03:49	Yes
3	0.00023	0.00023	0.0031	0.0320	0.0032	10:04:33	Yes
Mean:	0.00023	0.00023	0.0031				
SD:	0.00001	0.00001	0.0001				
%RSD:	3.808	3.808	4.72				

QC value within limits for Hg 253.7 Recovery = 114.70%
All analyte(s) passed QC.

==========

Sequence No.: 2 **Autosampler Location: 157**
Sample ID: ICV 14J09761 **Date Collected: 10/28/2014 10:04:59 AM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: ICV 14J09761

Repl #	SampleConc mg/L	StndConc mg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.00263	0.00263	0.0426	0.3910	0.0427	10:06:05	Yes
2	0.00263	0.00263	0.0427	0.3931	0.0428	10:06:49	Yes
3	0.00262	0.00262	0.0426	0.3936	0.0427	10:07:32	Yes
Mean:	0.00263	0.00263	0.0426				
SD:	0.00000	0.00000	0.0001				
%RSD:	0.1554	0.1554	0.16				

QC value less than the lower limit for Hg 253.7 Recovery = 87.54%
QC Failed. Stop the analysis.

==========

Analysis Begun

Logged In Analyst: hg4 **Technique: AA FIMS-MHS**
Spectrometer Model: FIMS-100, S/N B050-9550 **Autosampler Model: S10**

Sample Information File: C:\data-FIMS4\Sample Information\102814CVAA4 W.sif
Batch ID: 628
Results Data Set: 102814CVAA4 W
Results Library: C:\data-FIMS4\Results\Results.mdb

==========

Sequence No.: 2 **Autosampler Location: 157**
Sample ID: ICV 14J09761 **Date Collected: 10/28/2014 10:08:18 AM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: ICV 14J09761

Repl #	SampleConc mg/L	StndConc mg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.00299	0.00299	0.0487	0.4527	0.0488	10:09:24	Yes
2	0.00298	0.00298	0.0484	0.4515	0.0485	10:10:08	Yes
3	0.00297	0.00297	0.0483	0.4466	0.0484	10:10:52	Yes
Mean:	0.00298	0.00298	0.0484				
SD:	0.00001	0.00001	0.0002				
%RSD:	0.3949	0.3949	0.40				

QC value within limits for Hg 253.7 Recovery = 99.33%
All analyte(s) passed QC.

==========

Sequence No.: 3 **Autosampler Location: 1**
Sample ID: ICB **Date Collected: 10/28/2014 10:11:17 AM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: ICB

Repl #	SampleConc mg/L	StndConc mg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.00005	0.00005	0.0001	0.0029	0.0002	10:12:21	Yes
2	0.00005	0.00005	0.0001	0.0037	0.0002	10:13:05	Yes
3	0.00005	0.00005	0.0002	0.0041	0.0003	10:13:48	Yes
Mean:	0.00005	0.00005	0.0001				
SD:	0.00000	0.00000	0.0000				
%RSD:	4.134	4.134	28.42				

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

==========

Sequence No.: 4 **Autosampler Location: 9**
Sample ID: BLANK WG750952 **Date Collected: 10/28/2014 10:14:12 AM**
Analyst: 628 **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol: 3 mL**
Dilution: **Sample Prep Vol: 30 mL**

Replicate Data: BLANK WG750952

Repl #	SampleConc mg/L	StndConc mg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.00042	0.00004	-0.0000	-0.0012	0.0001	10:15:16	Yes
2	0.00067	0.00007	0.0004	0.0093	0.0005	10:16:00	Yes
3	0.00054	0.00005	0.0002	0.0031	0.0003	10:16:43	Yes
Mean:	0.00054	0.00005	0.0002				
SD:	0.00013	0.00001	0.0002				
%RSD:	23.58	23.58	127.73				

==========

Sequence No.: 5 **Autosampler Location: 10**
Sample ID: LCS WG750952 **Date Collected: 10/28/2014 10:17:07 AM**
Analyst: 628 **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol: 3 mL**
Dilution: **Sample Prep Vol: 30 mL**

Replicate Data: LCS WG750952

Repl #	SampleConc mg/L	StndConc mg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.02579	0.00258	0.0418	0.3837	0.0419	10:18:12	Yes
2	0.02572	0.00257	0.0417	0.3831	0.0418	10:18:56	Yes
3	0.02578	0.00258	0.0418	0.3835	0.0419	10:19:40	Yes
Mean:	0.02576	0.00258	0.0418				
SD:	0.00004	0.00000	0.0001				
%RSD:	0.1516	0.1516	0.15				

==========

Sequence No.: 6 **Autosampler Location: 11**
Sample ID: LCSD WG750952 **Date Collected: 10/28/2014 10:20:04 AM**
Analyst: 628 **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol: 3 mL**

Dilution: Sample Prep Vol: 30 mL

Replicate Data: LCSD WG750952

Repl #	SampleConc mg/L	StndConc mg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.02611	0.00261	0.0424	0.3881	0.0425	10:21:10	Yes
2	0.02618	0.00262	0.0425	0.3925	0.0426	10:21:53	Yes
3	0.02630	0.00263	0.0427	0.3923	0.0428	10:22:37	Yes
Mean:	0.02620	0.00262	0.0425				
SD:	0.00009	0.00001	0.0002				
%RSD:	0.3583	0.3583	0.36				

==========

Sequence No.: 7 Autosampler Location: 12
Sample ID: L729208-01 WG750952 Date Collected: 10/28/2014 10:23:02 AM
Analyst: 628 Data Type: Original
Initial Sample Wt: Initial Sample Vol: 3 mL
Dilution: Sample Prep Vol: 30 mL

Replicate Data: L729208-01 WG750952

Repl #	SampleConc mg/L	StndConc mg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.00052	0.00005	0.0001	0.0033	0.0002	10:24:06	Yes
2	0.00055	0.00005	0.0002	0.0045	0.0003	10:24:50	Yes
3	0.00058	0.00006	0.0002	0.0059	0.0003	10:25:34	Yes
Mean:	0.00055	0.00005	0.0002				
SD:	0.00003	0.00000	0.0001				
%RSD:	5.854	5.854	30.07				

==========

Sequence No.: 8 Autosampler Location: 13
Sample ID: MS WG750952 L729208-01 Date Collected: 10/28/2014 10:25:59 AM
Analyst: 628 Data Type: Original
Initial Sample Wt: Initial Sample Vol: 3 mL
Dilution: Sample Prep Vol: 30 mL

Replicate Data: MS WG750952 L729208-01

Repl #	SampleConc mg/L	StndConc mg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.02842	0.00284	0.0462	0.4269	0.0463	10:27:03	Yes
2	0.02855	0.00286	0.0464	0.4352	0.0465	10:27:47	Yes
3	0.02826	0.00283	0.0459	0.4309	0.0460	10:28:31	Yes
Mean:	0.02841	0.00284	0.0462				
SD:	0.00014	0.00001	0.0002				
%RSD:	0.5069	0.5069	0.51				

==========

Sequence No.: 9 Autosampler Location: 14
Sample ID: MSD WG750952 L729208-01 Date Collected: 10/28/2014 10:28:57 AM
Analyst: 628 Data Type: Original
Initial Sample Wt: Initial Sample Vol: 3 mL
Dilution: Sample Prep Vol: 30 mL

Replicate Data: MSD WG750952 L729208-01

Repl #	SampleConc mg/L	StndConc mg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.02713	0.00271	0.0440	0.4046	0.0442	10:30:00	Yes
2	0.02693	0.00269	0.0437	0.4054	0.0438	10:30:44	Yes
3	0.02701	0.00270	0.0438	0.4054	0.0440	10:31:28	Yes
Mean:	0.02702	0.00270	0.0439				
SD:	0.00010	0.00001	0.0002				
%RSD:	0.3780	0.3780	0.38				

==========

Sequence No.: 10 Autosampler Location: 15
Sample ID: SD WG750952 L729208-01 Date Collected: 10/28/2014 10:31:51 AM
Analyst: 628 Data Type: Original
Initial Sample Wt: Initial Sample Vol: 3 mL

Dilution: 5X **Sample Prep Vol: 30 mL**

Replicate Data: SD WG750952 L729208-01

Repl #	SampleConc mg/L	StndConc mg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.00207	0.00004	-0.0000	-0.0010	0.0001	10:32:55	Yes
2	0.00259	0.00005	0.0001	0.0027	0.0002	10:33:39	Yes
3	0.00293	0.00006	0.0002	0.0071	0.0003	10:34:23	Yes
Mean:	0.00253	0.00005	0.0001				
SD:	0.00043	0.00001	0.0001				
%RSD:	17.10	17.10	133.78				

==========

Sequence No.: 11 **Autosampler Location: 16**
Sample ID: L727205-03 WG750952 **Date Collected: 10/28/2014 10:34:47 AM**
Analyst: 628 **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol: 3 mL**
Dilution: **Sample Prep Vol: 30 mL**

Replicate Data: L727205-03 WG750952

Repl #	SampleConc mg/L	StndConc mg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.00057	0.00006	0.0002	0.0055	0.0003	10:35:51	Yes
2	0.00060	0.00006	0.0003	0.0060	0.0004	10:36:35	Yes
3	0.00056	0.00006	0.0002	0.0050	0.0003	10:37:19	Yes
Mean:	0.00057	0.00006	0.0002				
SD:	0.00002	0.00000	0.0000				
%RSD:	3.185	3.185	13.73				

==========

Sequence No.: 12 **Autosampler Location: 17**
Sample ID: L729208-03 WG750952 **Date Collected: 10/28/2014 10:37:43 AM**
Analyst: 628 **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol: 3 mL**
Dilution: **Sample Prep Vol: 30 mL**

Replicate Data: L729208-03 WG750952

Repl #	SampleConc mg/L	StndConc mg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.00043	0.00004	-0.0000	-0.0026	0.0001	10:38:46	Yes
2	0.00062	0.00006	0.0003	0.0076	0.0004	10:39:30	Yes
3	0.00062	0.00006	0.0003	0.0078	0.0004	10:40:14	Yes
Mean:	0.00056	0.00006	0.0002				
SD:	0.00011	0.00001	0.0002				
%RSD:	19.09	19.09	91.74				

==========

Sequence No.: 13 **Autosampler Location: 18**
Sample ID: L729342-03 WG750952 **Date Collected: 10/28/2014 10:40:38 AM**
Analyst: 628 **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol: 3 mL**
Dilution: **Sample Prep Vol: 30 mL**

Replicate Data: L729342-03 WG750952

Repl #	SampleConc mg/L	StndConc mg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.00049	0.00005	0.0001	0.0027	0.0002	10:41:42	Yes
2	0.00049	0.00005	0.0001	0.0019	0.0002	10:42:26	Yes
3	0.00054	0.00005	0.0002	0.0040	0.0003	10:43:09	Yes
Mean:	0.00051	0.00005	0.0001				
SD:	0.00003	0.00000	0.0000				
%RSD:	5.925	5.925	46.41				

==========

Sequence No.: 14 **Autosampler Location: 19**
Sample ID: L729391-02 WG750952 **Date Collected: 10/28/2014 10:43:33 AM**
Analyst: 628 **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol: 3 mL**

Dilution: Sample Prep Vol: 30 mL

Replicate Data: L729391-02 WG750952

Repl #	SampleConc mg/L	StndConc mg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.00056	0.00006	0.0002	0.0054	0.0003	10:44:38	Yes
2	0.00055	0.00006	0.0002	0.0032	0.0003	10:45:21	Yes
3	0.00059	0.00006	0.0002	0.0059	0.0003	10:46:05	Yes
Mean:	0.00057	0.00006	0.0002				
SD:	0.00002	0.00000	0.0000				
%RSD:	3.210	3.210	14.48				

==========

Sequence No.: 15 Autosampler Location: 20
Sample ID: L729391-04 WG750952 Date Collected: 10/28/2014 10:46:29 AM
Analyst: 628 Data Type: Original
Initial Sample Wt: Initial Sample Vol: 3 mL
Dilution: Sample Prep Vol: 30 mL

Replicate Data: L729391-04 WG750952

Repl #	SampleConc mg/L	StndConc mg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.00052	0.00005	0.0001	0.0027	0.0002	10:47:34	Yes
2	0.00056	0.00006	0.0002	0.0054	0.0003	10:48:17	Yes
3	0.00059	0.00006	0.0002	0.0066	0.0004	10:49:01	Yes
Mean:	0.00056	0.00006	0.0002				
SD:	0.00004	0.00000	0.0001				
%RSD:	6.556	6.556	31.36				

==========

Sequence No.: 16 Autosampler Location: 21
Sample ID: L729396-03 WG750952 Date Collected: 10/28/2014 10:49:25 AM
Analyst: 628 Data Type: Original
Initial Sample Wt: Initial Sample Vol: 3 mL
Dilution: Sample Prep Vol: 30 mL

Replicate Data: L729396-03 WG750952

Repl #	SampleConc mg/L	StndConc mg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.00043	0.00004	-0.0000	0.0009	0.0001	10:50:29	Yes
2	0.00048	0.00005	0.0001	0.0002	0.0002	10:51:13	Yes
3	0.00061	0.00006	0.0003	0.0075	0.0004	10:51:57	Yes
Mean:	0.00051	0.00005	0.0001				
SD:	0.00009	0.00001	0.0001				
%RSD:	17.84	17.84	138.37				

==========

Sequence No.: 17 Autosampler Location: 22
Sample ID: L729468-01 WG750952 Date Collected: 10/28/2014 10:52:21 AM
Analyst: 628 Data Type: Original
Initial Sample Wt: Initial Sample Vol: 3 mL
Dilution: Sample Prep Vol: 30 mL

Replicate Data: L729468-01 WG750952

Repl #	SampleConc mg/L	StndConc mg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.00049	0.00005	0.0001	0.0033	0.0002	10:53:25	Yes
2	0.00052	0.00005	0.0001	0.0036	0.0002	10:54:09	Yes
3	0.00060	0.00006	0.0003	0.0062	0.0004	10:54:53	Yes
Mean:	0.00054	0.00005	0.0002				
SD:	0.00005	0.00001	0.0001				
%RSD:	9.844	9.844	55.91				

==========

Sequence No.: 18 Autosampler Location: 23
Sample ID: L729585-01 WG750952 Date Collected: 10/28/2014 10:55:17 AM
Analyst: 628 Data Type: Original
Initial Sample Wt: Initial Sample Vol: 3 mL

Dilution: **Sample Prep Vol: 30 mL**

Replicate Data: L729585-01 WG750952

Repl #	SampleConc mg/L	StndConc mg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.00049	0.00005	0.0001	0.0028	0.0002	10:56:22	Yes
2	0.00059	0.00006	0.0002	0.0059	0.0003	10:57:06	Yes
3	0.00054	0.00005	0.0002	0.0040	0.0003	10:57:49	Yes
Mean:	0.00054	0.00005	0.0002				
SD:	0.00005	0.00000	0.0001				
%RSD:	8.995	8.995	50.51				

==========

Sequence No.: 19 **Autosampler Location: 24**
Sample ID: L729585-02 WG750952 **Date Collected: 10/28/2014 10:58:14 AM**
Analyst: 628 **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol: 3 mL**
Dilution: **Sample Prep Vol: 30 mL**

Replicate Data: L729585-02 WG750952

Repl #	SampleConc mg/L	StndConc mg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.00055	0.00005	0.0002	0.0042	0.0003	10:59:19	Yes
2	0.00054	0.00005	0.0002	0.0051	0.0003	11:00:02	Yes
3	0.00063	0.00006	0.0003	0.0079	0.0004	11:00:46	Yes
Mean:	0.00057	0.00006	0.0002				
SD:	0.00005	0.00001	0.0001				
%RSD:	8.873	8.873	38.78				

==========

Sequence No.: 20 **Autosampler Location: 8**
Sample ID: CCV 14J09762 **Date Collected: 10/28/2014 11:01:11 AM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: CCV 14J09762

Repl #	SampleConc mg/L	StndConc mg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.00233	0.00233	0.0377	0.3521	0.0379	11:02:15	Yes
2	0.00234	0.00234	0.0379	0.3523	0.0381	11:02:58	Yes
3	0.00234	0.00234	0.0379	0.3526	0.0380	11:03:42	Yes
Mean:	0.00234	0.00234	0.0379				
SD:	0.00001	0.00001	0.0001				
%RSD:	0.2943	0.2943	0.30				

QC value within limits for Hg 253.7 Recovery = 93.57%
All analyte(s) passed QC.

==========

Sequence No.: 21 **Autosampler Location: 1**
Sample ID: CCB **Date Collected: 10/28/2014 11:04:07 AM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: CCB

Repl #	SampleConc mg/L	StndConc mg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.00005	0.00005	0.0000	0.0011	0.0002	11:05:10	Yes
2	0.00006	0.00006	0.0002	0.0046	0.0003	11:05:54	Yes
3	0.00006	0.00006	0.0003	0.0077	0.0004	11:06:38	Yes
Mean:	0.00006	0.00006	0.0002				
SD:	0.00001	0.00001	0.0001				
%RSD:	13.61	13.61	68.92				

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

==========

Sequence No.: 22 **Autosampler Location: 25**
Sample ID: L729585-03 WG750952 **Date Collected: 10/28/2014 11:07:01 AM**
Analyst: 628 **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol: 3 mL**
Dilution: **Sample Prep Vol: 30 mL**

Replicate Data: L729585-03 WG750952

Repl #	SampleConc mg/L	StndConc mg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.00051	0.00005	0.0001	0.0034	0.0002	11:08:07	Yes
2	0.00050	0.00005	0.0001	0.0027	0.0002	11:08:50	Yes
3	0.00055	0.00006	0.0002	0.0047	0.0003	11:09:34	Yes
Mean:	0.00052	0.00005	0.0001				
SD:	0.00003	0.00000	0.0000				
%RSD:	5.768	5.768	37.81				

Sequence No.: 23 **Autosampler Location: 26**
Sample ID: L729638-01 WG750952 **Date Collected: 10/28/2014 11:09:59 AM**
Analyst: 628 **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol: 3 mL**
Dilution: **Sample Prep Vol: 30 mL**

Replicate Data: L729638-01 WG750952

Repl #	SampleConc mg/L	StndConc mg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.00047	0.00005	0.0001	0.0025	0.0002	11:11:02	Yes
2	0.00059	0.00006	0.0002	0.0059	0.0003	11:11:46	Yes
3	0.00063	0.00006	0.0003	0.0081	0.0004	11:12:30	Yes
Mean:	0.00056	0.00006	0.0002				
SD:	0.00008	0.00001	0.0001				
%RSD:	14.40	14.40	66.95				

Sequence No.: 24 **Autosampler Location: 27**
Sample ID: L729709-01 WG750952 **Date Collected: 10/28/2014 11:12:54 AM**
Analyst: 628 **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol: 3 mL**
Dilution: **Sample Prep Vol: 30 mL**

Replicate Data: L729709-01 WG750952

Repl #	SampleConc mg/L	StndConc mg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.00064	0.00006	0.0003	0.0073	0.0004	11:13:58	Yes
2	0.00052	0.00005	0.0001	0.0014	0.0002	11:14:42	Yes
3	0.00054	0.00005	0.0002	0.0045	0.0003	11:15:26	Yes
Mean:	0.00057	0.00006	0.0002				
SD:	0.00006	0.00001	0.0001				
%RSD:	11.14	11.14	49.39				

Sequence No.: 25 **Autosampler Location: 28**
Sample ID: L729778-01 WG750952 **Date Collected: 10/28/2014 11:15:50 AM**
Analyst: 628 **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol: 3 mL**
Dilution: **Sample Prep Vol: 30 mL**

Replicate Data: L729778-01 WG750952

Repl #	SampleConc mg/L	StndConc mg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.00036	0.00004	-0.0001	-0.0033	-0.0000	11:16:54	Yes
2	0.00056	0.00006	0.0002	0.0060	0.0003	11:17:37	Yes
3	0.00049	0.00005	0.0001	0.0029	0.0002	11:18:21	Yes
Mean:	0.00047	0.00005	0.0000				
SD:	0.00010	0.00001	0.0002				
%RSD:	21.36	21.36	335.06				

Sequence No.: 26
Sample ID: L729778-03 WG750952
Analyst: 628
Initial Sample Wt:
Dilution:
Autosampler Location: 29
Date Collected: 10/28/2014 11:18:45 AM
Data Type: Original
Initial Sample Vol: 3 mL
Sample Prep Vol: 30 mL

Replicate Data: L729778-03 WG750952

Repl #	SampleConc mg/L	StndConc mg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.00049	0.00005	0.0001	0.0029	0.0002	11:19:49	Yes
2	0.00047	0.00005	0.0001	0.0027	0.0002	11:20:33	Yes
3	0.00055	0.00006	0.0002	0.0053	0.0003	11:21:17	Yes
Mean:	0.00050	0.00005	0.0001				
SD:	0.00004	0.00000	0.0001				
%RSD:	8.117	8.117	65.16				

Sequence No.: 27
Sample ID: L729778-05 WG750952
Analyst: 628
Initial Sample Wt:
Dilution:
Autosampler Location: 30
Date Collected: 10/28/2014 11:21:40 AM
Data Type: Original
Initial Sample Vol: 3 mL
Sample Prep Vol: 30 mL

Replicate Data: L729778-05 WG750952

Repl #	SampleConc mg/L	StndConc mg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.00049	0.00005	0.0001	0.0029	0.0002	11:22:45	Yes
2	0.00057	0.00006	0.0002	0.0055	0.0003	11:23:28	Yes
3	0.00054	0.00005	0.0002	0.0025	0.0003	11:24:12	Yes
Mean:	0.00053	0.00005	0.0002				
SD:	0.00004	0.00000	0.0001				
%RSD:	8.316	8.316	48.04				

Sequence No.: 28
Sample ID: L729778-07 WG750952
Analyst: 628
Initial Sample Wt:
Dilution:
Autosampler Location: 31
Date Collected: 10/28/2014 11:24:36 AM
Data Type: Original
Initial Sample Vol: 3 mL
Sample Prep Vol: 30 mL

Replicate Data: L729778-07 WG750952

Repl #	SampleConc mg/L	StndConc mg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.00042	0.00004	-0.0000	0.0004	0.0001	11:25:40	Yes
2	0.00063	0.00006	0.0003	0.0079	0.0004	11:26:24	Yes
3	0.00059	0.00006	0.0002	0.0062	0.0004	11:27:07	Yes
Mean:	0.00055	0.00005	0.0002				
SD:	0.00011	0.00001	0.0002				
%RSD:	19.93	19.93	102.10				

Sequence No.: 29
Sample ID: L729782-01 WG750952
Analyst: 628
Initial Sample Wt:
Dilution:
Autosampler Location: 32
Date Collected: 10/28/2014 11:27:32 AM
Data Type: Original
Initial Sample Vol: 3 mL
Sample Prep Vol: 30 mL

Replicate Data: L729782-01 WG750952

Repl #	SampleConc mg/L	StndConc mg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.00050	0.00005	0.0001	0.0015	0.0002	11:28:36	Yes
2	0.00058	0.00006	0.0002	0.0065	0.0003	11:29:19	Yes
3	0.00060	0.00006	0.0003	0.0064	0.0004	11:30:03	Yes
Mean:	0.00056	0.00006	0.0002				
SD:	0.00005	0.00001	0.0001				
%RSD:	9.004	9.004	42.58				

Sequence No.: 30 **Autosampler Location: 33**
Sample ID: INSTBLK WG750952 **Date Collected: 10/28/2014 11:30:27 AM**
Analyst: 628 **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol: 30 mL**
Dilution: **Sample Prep Vol: 30 mL**

Replicate Data: INSTBLK WG750952

Repl #	SampleConc mg/L	StndConc mg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.00006	0.00006	0.0002	0.0025	0.0003	11:31:31	Yes
2	0.00006	0.00006	0.0002	0.0060	0.0003	11:32:15	Yes
3	0.00005	0.00005	0.0001	0.0035	0.0002	11:32:59	Yes
Mean:	0.00006	0.00006	0.0002				
SD:	0.00000	0.00000	0.0001				
%RSD:	5.498	5.498	26.72				

==========

Sequence No.: 31 **Autosampler Location: 8**
Sample ID: CCV 14J09762 **Date Collected: 10/28/2014 11:33:24 AM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: CCV 14J09762

Repl #	SampleConc mg/L	StndConc mg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.00232	0.00232	0.0375	0.3545	0.0376	11:34:28	Yes
2	0.00235	0.00235	0.0381	0.3567	0.0382	11:35:12	Yes
3	0.00236	0.00236	0.0382	0.3555	0.0383	11:35:56	Yes
Mean:	0.00234	0.00234	0.0379				
SD:	0.00002	0.00002	0.0004				
%RSD:	1.019	1.019	1.04				

QC value within limits for Hg 253.7 Recovery = 93.70%
All analyte(s) passed QC.

==========

Sequence No.: 32 **Autosampler Location: 1**
Sample ID: CCB **Date Collected: 10/28/2014 11:36:19 AM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: CCB

Repl #	SampleConc mg/L	StndConc mg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.00004	0.00004	0.0000	-0.0048	0.0001	11:37:23	Yes
2	0.00005	0.00005	0.0001	0.0047	0.0002	11:38:07	Yes
3	0.00005	0.00005	0.0001	0.0012	0.0002	11:38:51	Yes
Mean:	0.00005	0.00005	0.0001				
SD:	0.00000	0.00000	0.0001				
%RSD:	7.795	7.795	92.31				

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

==========

Sequence No.: 33 **Autosampler Location: 34**
Sample ID: BLANK WG750953 **Date Collected: 10/28/2014 11:39:14 AM**
Analyst: 628 **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol: 30 mL**
Dilution: **Sample Prep Vol: 30 mL**

Replicate Data: BLANK WG750953

Repl #	SampleConc mg/L	StndConc mg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.00005	0.00005	0.0001	0.0028	0.0002	11:40:18	Yes
2	0.00006	0.00006	0.0003	0.0065	0.0004	11:41:02	Yes
3	0.00006	0.00006	0.0003	0.0061	0.0004	11:41:46	Yes
Mean:	0.00006	0.00006	0.0002				

SD:	0.00001	0.00001	0.0001
%RSD:	12.49	12.49	55.45

==========

Sequence No.: 34 **Autosampler Location: 35**
Sample ID: LCS WG750953 **Date Collected: 10/28/2014 11:42:11 AM**
Analyst: 628 **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol: 30 mL**
Dilution: **Sample Prep Vol: 30 mL**

Replicate Data: LCS WG750953

Repl #	SampleConc mg/L	StndConc mg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.00259	0.00259	0.0420	0.3929	0.0421	11:43:15	Yes
2	0.00259	0.00259	0.0420	0.3960	0.0421	11:43:59	Yes
3	0.00259	0.00259	0.0420	0.3887	0.0421	11:44:43	Yes
Mean:	0.00259	0.00259	0.0420				
SD:	0.00000	0.00000	0.0000				
%RSD:	0.04673	0.04673	0.05				

==========

Sequence No.: 35 **Autosampler Location: 36**
Sample ID: LCSD WG750953 **Date Collected: 10/28/2014 11:45:07 AM**
Analyst: 628 **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol: 30 mL**
Dilution: **Sample Prep Vol: 30 mL**

Replicate Data: LCSD WG750953

Repl #	SampleConc mg/L	StndConc mg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.00260	0.00260	0.0422	0.3977	0.0423	11:46:12	Yes
2	0.00262	0.00262	0.0426	0.3983	0.0427	11:46:56	Yes
3	0.00262	0.00262	0.0424	0.3997	0.0426	11:47:40	Yes
Mean:	0.00261	0.00261	0.0424				
SD:	0.00001	0.00001	0.0002				
%RSD:	0.4192	0.4192	0.43				

==========

Sequence No.: 36 **Autosampler Location: 37**
Sample ID: L729805-01 WG750953 **Date Collected: 10/28/2014 11:48:05 AM**
Analyst: 628 **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol: 30 mL**
Dilution: **Sample Prep Vol: 30 mL**

Replicate Data: L729805-01 WG750953

Repl #	SampleConc mg/L	StndConc mg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.00004	0.00004	-0.0001	-0.0014	-0.0000	11:49:10	Yes
2	0.00006	0.00006	0.0002	0.0062	0.0003	11:49:54	Yes
3	0.00005	0.00005	0.0002	0.0045	0.0003	11:50:37	Yes
Mean:	0.00005	0.00005	0.0001				
SD:	0.00001	0.00001	0.0002				
%RSD:	21.86	21.86	216.49				

==========

Sequence No.: 37 **Autosampler Location: 38**
Sample ID: MS WG750953 L729805-01 **Date Collected: 10/28/2014 11:51:02 AM**
Analyst: 628 **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol: 30 mL**
Dilution: **Sample Prep Vol: 30 mL**

Replicate Data: MS WG750953 L729805-01

Repl #	SampleConc mg/L	StndConc mg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.00278	0.00278	0.0452	0.4251	0.0453	11:52:06	Yes
2	0.00278	0.00278	0.0451	0.4275	0.0452	11:52:50	Yes
3	0.00278	0.00278	0.0452	0.4253	0.0453	11:53:34	Yes
Mean:	0.00278	0.00278	0.0452				

SD:	0.00000	0.00000	0.0000
%RSD:	0.05593	0.05593	0.06

==========

Sequence No.: 38 **Autosampler Location: 39**
Sample ID: MSD WG750953 L729805-01 **Date Collected: 10/28/2014 11:53:58 AM**
Analyst: 628 **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol: 30 mL**
Dilution: **Sample Prep Vol: 30 mL**

Replicate Data: MSD WG750953 L729805-01

Repl #	SampleConc mg/L	StndConc mg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.00280	0.00280	0.0455	0.4305	0.0456	11:55:02	Yes
2	0.00280	0.00280	0.0455	0.4307	0.0456	11:55:46	Yes
3	0.00282	0.00282	0.0459	0.4359	0.0460	11:56:30	Yes
Mean:	0.00281	0.00281	0.0456				
SD:	0.00001	0.00001	0.0002				
%RSD:	0.4598	0.4598	0.47				

==========

Sequence No.: 39 **Autosampler Location: 40**
Sample ID: SD WG750953 L729805-01 **Date Collected: 10/28/2014 11:56:53 AM**
Analyst: 628 **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol: 30 mL**
Dilution: 5X **Sample Prep Vol: 30 mL**

Replicate Data: SD WG750953 L729805-01

Repl #	SampleConc mg/L	StndConc mg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.00024	0.00005	0.0001	0.0025	0.0002	11:57:58	Yes
2	0.00027	0.00005	0.0002	0.0051	0.0003	11:58:41	Yes
3	0.00029	0.00006	0.0002	0.0062	0.0003	11:59:25	Yes
Mean:	0.00027	0.00005	0.0001				
SD:	0.00003	0.00001	0.0001				
%RSD:	10.16	10.16	60.12				

==========

Sequence No.: 40 **Autosampler Location: 41**
Sample ID: L729805-02 WG750953 **Date Collected: 10/28/2014 11:59:50 AM**
Analyst: 628 **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol: 30 mL**
Dilution: **Sample Prep Vol: 30 mL**

Replicate Data: L729805-02 WG750953

Repl #	SampleConc mg/L	StndConc mg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.00005	0.00005	0.0000	0.0020	0.0001	12:00:54	Yes
2	0.00006	0.00006	0.0002	0.0056	0.0003	12:01:38	Yes
3	0.00006	0.00006	0.0002	0.0049	0.0003	12:02:21	Yes
Mean:	0.00005	0.00005	0.0002				
SD:	0.00001	0.00001	0.0001				
%RSD:	11.55	11.55	66.67				

==========

Sequence No.: 41 **Autosampler Location: 42**
Sample ID: L729805-03 WG750953 **Date Collected: 10/28/2014 12:02:46 PM**
Analyst: 628 **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol: 30 mL**
Dilution: **Sample Prep Vol: 30 mL**

Replicate Data: L729805-03 WG750953

Repl #	SampleConc mg/L	StndConc mg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.00008	0.00008	0.0007	0.0060	0.0008	12:03:50	Yes
2	0.00010	0.00010	0.0010	0.0138	0.0011	12:04:34	Yes
3	0.00010	0.00010	0.0009	0.0118	0.0010	12:05:18	Yes
Mean:	0.00010	0.00010	0.0009				

SD:	0.00001	0.00001	0.0002
%RSD:	11.10	11.10	20.43

==========

Sequence No.: 42 **Autosampler Location: 43**
Sample ID: L729805-04 WG750953 **Date Collected: 10/28/2014 12:05:42 PM**
Analyst: 628 **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol: 30 mL**
Dilution: **Sample Prep Vol: 30 mL**

Replicate Data: L729805-04 WG750953

Repl #	SampleConc mg/L	StndConc mg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.00005	0.00005	0.0001	0.0012	0.0002	12:06:46	Yes
2	0.00007	0.00007	0.0004	0.0095	0.0005	12:07:30	Yes
3	0.00005	0.00005	0.0001	0.0011	0.0002	12:08:14	Yes
Mean:	0.00006	0.00006	0.0002				
SD:	0.00001	0.00001	0.0002				
%RSD:	20.75	20.75	103.73				

==========

Sequence No.: 43 **Autosampler Location: 44**
Sample ID: L729805-05 WG750953 **Date Collected: 10/28/2014 12:08:38 PM**
Analyst: 628 **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol: 30 mL**
Dilution: **Sample Prep Vol: 30 mL**

Replicate Data: L729805-05 WG750953

Repl #	SampleConc mg/L	StndConc mg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.00005	0.00005	0.0001	0.0032	0.0002	12:09:42	Yes
2	0.00005	0.00005	0.0001	0.0050	0.0003	12:10:26	Yes
3	0.00005	0.00005	0.0001	0.0027	0.0002	12:11:10	Yes
Mean:	0.00005	0.00005	0.0001				
SD:	0.00000	0.00000	0.0000				
%RSD:	4.027	4.027	30.67				

==========

Sequence No.: 44 **Autosampler Location: 45**
Sample ID: L729805-06 WG750953 **Date Collected: 10/28/2014 12:11:35 PM**
Analyst: 628 **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol: 30 mL**
Dilution: **Sample Prep Vol: 30 mL**

Replicate Data: L729805-06 WG750953

Repl #	SampleConc mg/L	StndConc mg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.00005	0.00005	0.0001	0.0031	0.0002	12:12:39	Yes
2	0.00006	0.00006	0.0003	0.0078	0.0004	12:13:23	Yes
3	0.00006	0.00006	0.0003	0.0078	0.0004	12:14:07	Yes
Mean:	0.00006	0.00006	0.0003				
SD:	0.00001	0.00001	0.0001				
%RSD:	10.84	10.84	41.51				

==========

Sequence No.: 45 **Autosampler Location: 46**
Sample ID: L729805-07 WG750953 **Date Collected: 10/28/2014 12:14:31 PM**
Analyst: 628 **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol: 30 mL**
Dilution: **Sample Prep Vol: 30 mL**

Replicate Data: L729805-07 WG750953

Repl #	SampleConc mg/L	StndConc mg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.00005	0.00005	0.0001	0.0034	0.0002	12:15:36	Yes
2	0.00006	0.00006	0.0002	0.0062	0.0003	12:16:19	Yes
3	0.00005	0.00005	0.0001	0.0041	0.0003	12:17:03	Yes
Mean:	0.00005	0.00005	0.0002				

SD:	0.00000	0.00000	0.0001
%RSD:	5.793	5.793	31.48

==========

Sequence No.: 46 **Autosampler Location: 47**
Sample ID: L729805-08 WG750953 **Date Collected: 10/28/2014 12:17:28 PM**
Analyst: 628 **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol: 30 mL**
Dilution: **Sample Prep Vol: 30 mL**

Replicate Data: L729805-08 WG750953

Repl #	SampleConc mg/L	StndConc mg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.00006	0.00006	0.0002	0.0040	0.0003	12:18:33	Yes
2	0.00007	0.00007	0.0003	0.0072	0.0005	12:19:17	Yes
3	0.00007	0.00007	0.0004	0.0074	0.0005	12:20:01	Yes
Mean:	0.00006	0.00006	0.0003				
SD:	0.00001	0.00001	0.0001				
%RSD:	8.715	8.715	29.67				

==========

Sequence No.: 47 **Autosampler Location: 48**
Sample ID: INSTBLK WG750953 **Date Collected: 10/28/2014 12:20:25 PM**
Analyst: 628 **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol: 30 mL**
Dilution: **Sample Prep Vol: 30 mL**

Replicate Data: INSTBLK WG750953

Repl #	SampleConc mg/L	StndConc mg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.00005	0.00005	0.0001	0.0028	0.0002	12:21:30	Yes
2	0.00005	0.00005	0.0001	0.0038	0.0002	12:22:14	Yes
3	0.00006	0.00006	0.0003	0.0080	0.0004	12:22:58	Yes
Mean:	0.00005	0.00005	0.0002				
SD:	0.00001	0.00001	0.0001				
%RSD:	13.45	13.45	74.88				

==========

Sequence No.: 48 **Autosampler Location: 49**
Sample ID: BLANK WG750954 **Date Collected: 10/28/2014 12:23:22 PM**
Analyst: 628 **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol: 30 mL**
Dilution: **Sample Prep Vol: 30 mL**

Replicate Data: BLANK WG750954

Repl #	SampleConc mg/L	StndConc mg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.00005	0.00005	0.0001	0.0041	0.0002	12:24:27	Yes
2	0.00005	0.00005	0.0001	0.0044	0.0003	12:25:11	Yes
3	0.00006	0.00006	0.0002	0.0052	0.0003	12:25:55	Yes
Mean:	0.00005	0.00005	0.0002				
SD:	0.00000	0.00000	0.0000				
%RSD:	3.626	3.626	20.87				

==========

Sequence No.: 49 **Autosampler Location: 50**
Sample ID: LCS WG750954 **Date Collected: 10/28/2014 12:26:20 PM**
Analyst: 628 **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol: 30 mL**
Dilution: **Sample Prep Vol: 30 mL**

Replicate Data: LCS WG750954

Repl #	SampleConc mg/L	StndConc mg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.00255	0.00255	0.0413	0.3953	0.0414	12:27:24	Yes
2	0.00252	0.00252	0.0408	0.3876	0.0409	12:28:08	Yes
3	0.00254	0.00254	0.0412	0.3884	0.0414	12:28:52	Yes
Mean:	0.00254	0.00254	0.0411				

SD:	0.00002	0.00002	0.0002
%RSD:	0.5938	0.5938	0.60

==========

Sequence No.: 50 **Autosampler Location: 51**
Sample ID: LCSD WG750954 **Date Collected: 10/28/2014 12:29:16 PM**
Analyst: 628 **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol: 30 mL**
Dilution: **Sample Prep Vol: 30 mL**

Replicate Data: LCSD WG750954

Repl #	SampleConc mg/L	StndConc mg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.00258	0.00258	0.0419	0.4042	0.0420	12:30:21	Yes
2	0.00258	0.00258	0.0418	0.4030	0.0420	12:31:05	Yes
3	0.00259	0.00259	0.0421	0.4034	0.0422	12:31:49	Yes
Mean:	0.00259	0.00259	0.0420				
SD:	0.00001	0.00001	0.0001				
%RSD:	0.2808	0.2808	0.29				

==========

Sequence No.: 51 **Autosampler Location: 52**
Sample ID: L729806-01 WG750954 **Date Collected: 10/28/2014 12:32:13 PM**
Analyst: 628 **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol: 30 mL**
Dilution: **Sample Prep Vol: 30 mL**

Replicate Data: L729806-01 WG750954

Repl #	SampleConc mg/L	StndConc mg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.00005	0.00005	0.0001	0.0036	0.0002	12:33:18	Yes
2	0.00006	0.00006	0.0002	0.0050	0.0003	12:34:02	Yes
3	0.00006	0.00006	0.0002	0.0052	0.0003	12:34:45	Yes
Mean:	0.00005	0.00005	0.0002				
SD:	0.00000	0.00000	0.0001				
%RSD:	5.896	5.896	32.28				

==========

Sequence No.: 52 **Autosampler Location: 53**
Sample ID: MS WG750954 L729806-01 **Date Collected: 10/28/2014 12:35:10 PM**
Analyst: 628 **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol: 30 mL**
Dilution: **Sample Prep Vol: 30 mL**

Replicate Data: MS WG750954 L729806-01

Repl #	SampleConc mg/L	StndConc mg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.00282	0.00282	0.0458	0.4424	0.0459	12:36:14	Yes
2	0.00284	0.00284	0.0462	0.4423	0.0463	12:36:58	Yes
3	0.00282	0.00282	0.0458	0.4350	0.0459	12:37:42	Yes
Mean:	0.00283	0.00283	0.0459				
SD:	0.00001	0.00001	0.0002				
%RSD:	0.5091	0.5091	0.52				

==========

Sequence No.: 53 **Autosampler Location: 54**
Sample ID: MSD WG750954 L729806-01 **Date Collected: 10/28/2014 12:38:06 PM**
Analyst: 628 **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol: 30 mL**
Dilution: **Sample Prep Vol: 30 mL**

Replicate Data: MSD WG750954 L729806-01

Repl #	SampleConc mg/L	StndConc mg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.00285	0.00285	0.0463	0.4437	0.0464	12:39:10	Yes
2	0.00283	0.00283	0.0459	0.4438	0.0460	12:39:54	Yes
3	0.00285	0.00285	0.0464	0.4455	0.0465	12:40:38	Yes
Mean:	0.00284	0.00284	0.0462				

SD:	0.00002	0.00002	0.0003
%RSD:	0.5362	0.5362	0.54

==========

Sequence No.: 54 **Autosampler Location: 55**
Sample ID: SD WG750954 L729806-01 **Date Collected: 10/28/2014 12:41:02 PM**
Analyst: 628 **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol: 30 mL**
Dilution: 5X **Sample Prep Vol: 30 mL**

Replicate Data: SD WG750954 L729806-01

Repl #	SampleConc mg/L	StndConc mg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.00024	0.00005	0.0001	0.0031	0.0002	12:42:06	Yes
2	0.00030	0.00006	0.0003	0.0065	0.0004	12:42:50	Yes
3	0.00025	0.00005	0.0001	0.0029	0.0002	12:43:34	Yes
Mean:	0.00026	0.00005	0.0001				
SD:	0.00003	0.00001	0.0001				
%RSD:	11.83	11.83	74.32				

==========

Sequence No.: 55 **Autosampler Location: 56**
Sample ID: L729806-02 WG750954 **Date Collected: 10/28/2014 12:43:58 PM**
Analyst: 628 **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol: 30 mL**
Dilution: **Sample Prep Vol: 30 mL**

Replicate Data: L729806-02 WG750954

Repl #	SampleConc mg/L	StndConc mg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.00005	0.00005	0.0001	-0.0007	0.0002	12:45:02	Yes
2	0.00006	0.00006	0.0003	0.0067	0.0004	12:45:46	Yes
3	0.00005	0.00005	0.0002	0.0035	0.0003	12:46:30	Yes
Mean:	0.00005	0.00005	0.0002				
SD:	0.00001	0.00001	0.0001				
%RSD:	12.47	12.47	64.37				

==========

Sequence No.: 56 **Autosampler Location: 8**
Sample ID: CCV 14J09762 **Date Collected: 10/28/2014 12:46:55 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: CCV 14J09762

Repl #	SampleConc mg/L	StndConc mg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.00234	0.00234	0.0379	0.3590	0.0380	12:47:59	Yes
2	0.00235	0.00235	0.0381	0.3651	0.0382	12:48:43	Yes
3	0.00235	0.00235	0.0380	0.3602	0.0381	12:49:27	Yes
Mean:	0.00235	0.00235	0.0380				
SD:	0.00001	0.00001	0.0001				
%RSD:	0.2803	0.2803	0.29				

QC value within limits for Hg 253.7 Recovery = 93.86%
All analyte(s) passed QC.

==========

Sequence No.: 57 **Autosampler Location: 1**
Sample ID: CCB **Date Collected: 10/28/2014 12:49:51 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: CCB

Repl #	SampleConc mg/L	StndConc mg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.00004	0.00004	0.0000	0.0013	0.0001	12:50:54	Yes
2	0.00005	0.00005	0.0002	0.0049	0.0003	12:51:38	Yes

3	0.00005	0.00005	0.0001	0.0033	0.0002	12:52:22	Yes
Mean:	0.00005	0.00005	0.0001				
SD:	0.00000	0.00000	0.0001				
%RSD:	9.253	9.253	85.52				

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

==========

Sequence No.: 58 **Autosampler Location: 57**
Sample ID: L729806-03 WG750954 **Date Collected: 10/28/2014 12:52:45 PM**
Analyst: 628 **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol: 30 mL**
Dilution: **Sample Prep Vol: 30 mL**

Replicate Data: L729806-03 WG750954

Repl #	SampleConc mg/L	StndConc mg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.00005	0.00005	0.0001	0.0026	0.0002	12:53:50	Yes
2	0.00005	0.00005	0.0002	0.0048	0.0003	12:54:34	Yes
3	0.00006	0.00006	0.0002	0.0051	0.0003	12:55:17	Yes
Mean:	0.00005	0.00005	0.0002				
SD:	0.00000	0.00000	0.0001				
%RSD:	5.921	5.921	34.39				

==========

Sequence No.: 59 **Autosampler Location: 58**
Sample ID: L729806-04 WG750954 **Date Collected: 10/28/2014 12:55:42 PM**
Analyst: 628 **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol: 30 mL**
Dilution: **Sample Prep Vol: 30 mL**

Replicate Data: L729806-04 WG750954

Repl #	SampleConc mg/L	StndConc mg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.00006	0.00006	0.0002	0.0057	0.0003	12:56:47	Yes
2	0.00005	0.00005	0.0001	0.0040	0.0002	12:57:31	Yes
3	0.00005	0.00005	0.0002	0.0043	0.0003	12:58:14	Yes
Mean:	0.00005	0.00005	0.0002				
SD:	0.00000	0.00000	0.0001				
%RSD:	5.612	5.612	29.45				

==========

Sequence No.: 60 **Autosampler Location: 59**
Sample ID: L729806-05 WG750954 **Date Collected: 10/28/2014 12:58:38 PM**
Analyst: 628 **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol: 30 mL**
Dilution: **Sample Prep Vol: 30 mL**

Replicate Data: L729806-05 WG750954

Repl #	SampleConc mg/L	StndConc mg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.00005	0.00005	0.0001	0.0016	0.0002	12:59:43	Yes
2	0.00006	0.00006	0.0002	0.0058	0.0003	13:00:27	Yes
3	0.00006	0.00006	0.0002	0.0038	0.0003	13:01:11	Yes
Mean:	0.00006	0.00006	0.0002				
SD:	0.00000	0.00000	0.0000				
%RSD:	4.770	4.770	23.58				

==========

Sequence No.: 61 **Autosampler Location: 60**
Sample ID: L729806-06 WG750954 **Date Collected: 10/28/2014 1:01:36 PM**
Analyst: 628 **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol: 30 mL**
Dilution: **Sample Prep Vol: 30 mL**

Replicate Data: L729806-06 WG750954

Repl #	SampleConc mg/L	StndConc mg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored

1	0.00005	0.00005	0.0001	0.0038	0.0002	13:02:40	Yes
2	0.00005	0.00005	0.0001	0.0003	0.0002	13:03:24	Yes
3	0.00006	0.00006	0.0003	0.0072	0.0004	13:04:08	Yes
Mean:	0.00005	0.00005	0.0002				
SD:	0.00001	0.00001	0.0001				
%RSD:	11.74	11.74	64.17				

==========

Sequence No.: 62 **Autosampler Location: 61**
Sample ID: L729806-07 WG750954 **Date Collected: 10/28/2014 1:04:33 PM**
Analyst: 628 **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol: 30 mL**
Dilution: **Sample Prep Vol: 30 mL**

Replicate Data: L729806-07 WG750954

Repl #	SampleConc mg/L	StndConc mg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.00009	0.00009	0.0007	0.0098	0.0008	13:05:38	Yes
2	0.00009	0.00009	0.0008	0.0110	0.0009	13:06:21	Yes
3	0.00010	0.00010	0.0009	0.0127	0.0010	13:07:05	Yes
Mean:	0.00009	0.00009	0.0008				
SD:	0.00000	0.00000	0.0001				
%RSD:	4.899	4.899	9.44				

==========

Sequence No.: 63 **Autosampler Location: 62**
Sample ID: INSTBLK WG750954 **Date Collected: 10/28/2014 1:07:31 PM**
Analyst: 628 **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol: 30 mL**
Dilution: **Sample Prep Vol: 30 mL**

Replicate Data: INSTBLK WG750954

Repl #	SampleConc mg/L	StndConc mg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.00004	0.00004	0.0000	0.0010	0.0001	13:08:35	Yes
2	0.00005	0.00005	0.0001	0.0048	0.0003	13:09:19	Yes
3	0.00005	0.00005	0.0001	0.0031	0.0002	13:10:03	Yes
Mean:	0.00005	0.00005	0.0001				
SD:	0.00000	0.00000	0.0001				
%RSD:	8.864	8.864	98.04				

==========

Sequence No.: 64 **Autosampler Location: 63**
Sample ID: BLANK WG750955 **Date Collected: 10/28/2014 1:10:27 PM**
Analyst: 628 **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol: 30 mL**
Dilution: **Sample Prep Vol: 30 mL**

Replicate Data: BLANK WG750955

Repl #	SampleConc mg/L	StndConc mg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.00005	0.00005	0.0001	0.0016	0.0002	13:11:32	Yes
2	0.00004	0.00004	-0.0001	-0.0008	0.0000	13:12:16	Yes
3	0.00006	0.00006	0.0002	0.0062	0.0004	13:13:00	Yes
Mean:	0.00005	0.00005	0.0001				
SD:	0.00001	0.00001	0.0002				
%RSD:	20.63	20.63	218.25				

==========

Sequence No.: 65 **Autosampler Location: 64**
Sample ID: LCS WG750955 **Date Collected: 10/28/2014 1:13:25 PM**
Analyst: 628 **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol: 30 mL**
Dilution: **Sample Prep Vol: 30 mL**

Replicate Data: LCS WG750955

Repl #	SampleConc mg/L	StndConc mg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored

1	0.00259	0.00259	0.0420	0.4016	0.0421	13:14:29	Yes
2	0.00256	0.00256	0.0416	0.3987	0.0417	13:15:13	Yes
3	0.00259	0.00259	0.0419	0.3864	0.0420	13:15:57	Yes
Mean:	0.00258	0.00258	0.0418				
SD:	0.00001	0.00001	0.0002				
%RSD:	0.5302	0.5302	0.54				

==========

Sequence No.: 66 **Autosampler Location: 65**
Sample ID: LCSD WG750955 **Date Collected: 10/28/2014 1:16:21 PM**
Analyst: 628 **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol: 30 mL**
Dilution: **Sample Prep Vol: 30 mL**

Replicate Data: LCSD WG750955

Repl #	SampleConc mg/L	StndConc mg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.00262	0.00262	0.0424	0.4089	0.0426	13:17:26	Yes
2	0.00267	0.00267	0.0434	0.4154	0.0435	13:18:10	Yes
3	0.00272	0.00272	0.0441	0.4188	0.0442	13:18:54	Yes
Mean:	0.00267	0.00267	0.0433				
SD:	0.00005	0.00005	0.0008				
%RSD:	1.925	1.925	1.96				

==========

Sequence No.: 67 **Autosampler Location: 66**
Sample ID: L729877-04 WG750955 **Date Collected: 10/28/2014 1:19:18 PM**
Analyst: 628 **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol: 30 mL**
Dilution: **Sample Prep Vol: 30 mL**

Replicate Data: L729877-04 WG750955

Repl #	SampleConc mg/L	StndConc mg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.00005	0.00005	0.0001	0.0038	0.0002	13:20:22	Yes
2	0.00005	0.00005	0.0001	0.0027	0.0002	13:21:06	Yes
3	0.00006	0.00006	0.0002	0.0055	0.0003	13:21:50	Yes
Mean:	0.00005	0.00005	0.0001				
SD:	0.00000	0.00000	0.0000				
%RSD:	5.312	5.312	31.63				

==========

Sequence No.: 68 **Autosampler Location: 67**
Sample ID: MS WG750955 L729877-04 **Date Collected: 10/28/2014 1:22:15 PM**
Analyst: 628 **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol: 30 mL**
Dilution: **Sample Prep Vol: 30 mL**

Replicate Data: MS WG750955 L729877-04

Repl #	SampleConc mg/L	StndConc mg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.00287	0.00287	0.0466	0.4427	0.0467	13:23:19	Yes
2	0.00285	0.00285	0.0463	0.4455	0.0464	13:24:03	Yes
3	0.00288	0.00288	0.0469	0.4488	0.0470	13:24:47	Yes
Mean:	0.00287	0.00287	0.0466				
SD:	0.00002	0.00002	0.0003				
%RSD:	0.5565	0.5565	0.57				

==========

Sequence No.: 69 **Autosampler Location: 68**
Sample ID: MSD WG750955 L729877-04 **Date Collected: 10/28/2014 1:25:11 PM**
Analyst: 628 **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol: 30 mL**
Dilution: **Sample Prep Vol: 30 mL**

Replicate Data: MSD WG750955 L729877-04

Repl #	SampleConc mg/L	StndConc mg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored

1	0.00292	0.00292	0.0474	0.4542	0.0475	13:26:16	Yes
2	0.00290	0.00290	0.0471	0.4535	0.0472	13:27:00	Yes
3	0.00292	0.00292	0.0474	0.4536	0.0475	13:27:43	Yes
Mean:	0.00291	0.00291	0.0473				
SD:	0.00001	0.00001	0.0002				
%RSD:	0.3942	0.3942	0.40				

==========

Sequence No.: 70 **Autosampler Location: 69**
Sample ID: SD WG750955 L729877-04 **Date Collected: 10/28/2014 1:28:08 PM**
Analyst: 628 **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol: 30 mL**
Dilution: 5X **Sample Prep Vol: 30 mL**

Replicate Data: SD WG750955 L729877-04

Repl #	SampleConc mg/L	StndConc mg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.00021	0.00004	-0.0000	0.0008	0.0001	13:29:12	Yes
2	0.00023	0.00005	0.0000	0.0005	0.0001	13:29:56	Yes
3	0.00023	0.00005	0.0000	0.0027	0.0001	13:30:40	Yes
Mean:	0.00022	0.00004	0.0000				
SD:	0.00001	0.00000	0.0000				
%RSD:	6.462	6.462	568.33				

==========

Sequence No.: 71 **Autosampler Location: 70**
Sample ID: L729737-01 WG750955 **Date Collected: 10/28/2014 1:31:04 PM**
Analyst: 628 **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol: 30 mL**
Dilution: **Sample Prep Vol: 30 mL**

Replicate Data: L729737-01 WG750955

Repl #	SampleConc mg/L	StndConc mg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.00006	0.00006	0.0002	0.0023	0.0003	13:32:09	Yes
2	0.00006	0.00006	0.0003	0.0038	0.0004	13:32:53	Yes
3	0.00008	0.00008	0.0007	0.0125	0.0008	13:33:37	Yes
Mean:	0.00007	0.00007	0.0004				
SD:	0.00001	0.00001	0.0002				
%RSD:	21.66	21.66	62.26				

==========

Sequence No.: 72 **Autosampler Location: 71**
Sample ID: L729771-01 WG750955 **Date Collected: 10/28/2014 1:34:01 PM**
Analyst: 628 **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol: 30 mL**
Dilution: **Sample Prep Vol: 30 mL**

Replicate Data: L729771-01 WG750955

Repl #	SampleConc mg/L	StndConc mg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.00005	0.00005	0.0000	0.0023	0.0002	13:35:06	Yes
2	0.00004	0.00004	-0.0000	0.0005	0.0001	13:35:50	Yes
3	0.00005	0.00005	0.0001	0.0037	0.0002	13:36:34	Yes
Mean:	0.00005	0.00005	0.0000				
SD:	0.00000	0.00000	0.0001				
%RSD:	7.081	7.081	113.41				

==========

Sequence No.: 73 **Autosampler Location: 72**
Sample ID: L729875-01 WG750955 **Date Collected: 10/28/2014 1:36:59 PM**
Analyst: 628 **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol: 30 mL**
Dilution: **Sample Prep Vol: 30 mL**

Replicate Data: L729875-01 WG750955

Repl #	SampleConc mg/L	StndConc mg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored

1	0.00005	0.00005	0.0001	0.0025	0.0002	13:38:04	Yes
2	0.00006	0.00006	0.0002	0.0037	0.0003	13:38:48	Yes
3	0.00006	0.00006	0.0002	0.0041	0.0003	13:39:31	Yes
Mean:	0.00005	0.00005	0.0002				
SD:	0.00000	0.00000	0.0001				
%RSD:	6.639	6.639	36.78				

==========

Sequence No.: 74 **Autosampler Location: 73**
Sample ID: L729875-02 WG750955 **Date Collected: 10/28/2014 1:39:56 PM**
Analyst: 628 **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol: 30 mL**
Dilution: **Sample Prep Vol: 30 mL**

Replicate Data: L729875-02 WG750955

Repl #	SampleConc mg/L	StndConc mg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.00005	0.00005	0.0001	0.0038	0.0002	13:41:01	Yes
2	0.00005	0.00005	0.0001	0.0034	0.0002	13:41:45	Yes
3	0.00005	0.00005	0.0001	0.0033	0.0002	13:42:29	Yes
Mean:	0.00005	0.00005	0.0001				
SD:	0.00000	0.00000	0.0000				
%RSD:	2.276	2.276	15.66				

==========

Sequence No.: 75 **Autosampler Location: 8**
Sample ID: CCV 14J09762 **Date Collected: 10/28/2014 1:42:54 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: CCV 14J09762

Repl #	SampleConc mg/L	StndConc mg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.00234	0.00234	0.0378	0.3727	0.0379	13:43:58	Yes
2	0.00234	0.00234	0.0379	0.3741	0.0380	13:44:42	Yes
3	0.00237	0.00237	0.0384	0.3747	0.0385	13:45:25	Yes
Mean:	0.00235	0.00235	0.0380				
SD:	0.00002	0.00002	0.0003				
%RSD:	0.7293	0.7293	0.74				

QC value within limits for Hg 253.7 Recovery = 93.96%
All analyte(s) passed QC.

==========

Sequence No.: 76 **Autosampler Location: 1**
Sample ID: CCB **Date Collected: 10/28/2014 1:45:50 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: CCB

Repl #	SampleConc mg/L	StndConc mg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.00005	0.00005	0.0001	0.0034	0.0002	13:46:53	Yes
2	0.00005	0.00005	0.0002	0.0051	0.0003	13:47:37	Yes
3	0.00006	0.00006	0.0002	0.0057	0.0003	13:48:21	Yes
Mean:	0.00005	0.00005	0.0002				
SD:	0.00000	0.00000	0.0001				
%RSD:	7.279	7.279	40.11				

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

==========

Sequence No.: 77 **Autosampler Location: 74**
Sample ID: L729875-03 WG750955 **Date Collected: 10/28/2014 1:48:44 PM**
Analyst: 628 **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol: 30 mL**
Dilution: **Sample Prep Vol: 30 mL**

Replicate Data: L729875-03 WG750955

Repl #	SampleConc mg/L	StndConc mg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.00005	0.00005	0.0001	0.0006	0.0002	13:49:49	Yes
2	0.00006	0.00006	0.0002	0.0053	0.0004	13:50:33	Yes
3	0.00005	0.00005	0.0001	0.0033	0.0002	13:51:17	Yes
Mean:	0.00005	0.00005	0.0001				
SD:	0.00001	0.00001	0.0001				
%RSD:	11.11	11.11	68.77				

Sequence No.: 78
Sample ID: L729875-04 WG750955
Analyst: 628
Initial Sample Wt:
Dilution:

Autosampler Location: 75
Date Collected: 10/28/2014 1:51:41 PM
Data Type: Original
Initial Sample Vol: 30 mL
Sample Prep Vol: 30 mL

Replicate Data: L729875-04 WG750955

Repl #	SampleConc mg/L	StndConc mg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.00005	0.00005	0.0001	0.0017	0.0002	13:52:46	Yes
2	0.00005	0.00005	0.0002	0.0052	0.0003	13:53:30	Yes
3	0.00006	0.00006	0.0003	0.0077	0.0004	13:54:14	Yes
Mean:	0.00006	0.00006	0.0002				
SD:	0.00001	0.00001	0.0001				
%RSD:	11.80	11.80	57.87				

Sequence No.: 79
Sample ID: L729877-01 WG750955
Analyst: 628
Initial Sample Wt:
Dilution:

Autosampler Location: 76
Date Collected: 10/28/2014 1:54:38 PM
Data Type: Original
Initial Sample Vol: 30 mL
Sample Prep Vol: 30 mL

Replicate Data: L729877-01 WG750955

Repl #	SampleConc mg/L	StndConc mg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.00005	0.00005	0.0001	0.0036	0.0002	13:55:43	Yes
2	0.00005	0.00005	0.0001	0.0030	0.0002	13:56:27	Yes
3	0.00005	0.00005	0.0002	0.0054	0.0003	13:57:11	Yes
Mean:	0.00005	0.00005	0.0001				
SD:	0.00000	0.00000	0.0000				
%RSD:	5.745	5.745	40.82				

Sequence No.: 80
Sample ID: L729877-02 WG750955
Analyst: 628
Initial Sample Wt:
Dilution:

Autosampler Location: 77
Date Collected: 10/28/2014 1:57:36 PM
Data Type: Original
Initial Sample Vol: 30 mL
Sample Prep Vol: 30 mL

Replicate Data: L729877-02 WG750955

Repl #	SampleConc mg/L	StndConc mg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.00005	0.00005	0.0001	0.0027	0.0002	13:58:41	Yes
2	0.00006	0.00006	0.0002	0.0054	0.0003	13:59:25	Yes
3	0.00005	0.00005	0.0002	0.0052	0.0003	14:00:08	Yes
Mean:	0.00005	0.00005	0.0001				
SD:	0.00000	0.00000	0.0001				
%RSD:	7.628	7.628	45.55				

Sequence No.: 81
Sample ID: L729877-03 WG750955
Analyst: 628
Initial Sample Wt:
Dilution:

Autosampler Location: 78
Date Collected: 10/28/2014 2:00:33 PM
Data Type: Original
Initial Sample Vol: 30 mL
Sample Prep Vol: 30 mL

Replicate Data: L729877-03 WG750955

Repl #	SampleConc mg/L	StndConc mg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.00005	0.00005	0.0001	0.0036	0.0002	14:01:38	Yes
2	0.00006	0.00006	0.0002	0.0050	0.0003	14:02:22	Yes
3	0.00005	0.00005	0.0001	0.0032	0.0002	14:03:06	Yes
Mean:	0.00005	0.00005	0.0002				
SD:	0.00000	0.00000	0.0000				
%RSD:	4.143	4.143	24.00				

Sequence No.: 82
Sample ID: INSTBLK WG750955
Analyst: 628
Initial Sample Wt:
Dilution:
Autosampler Location: 79
Date Collected: 10/28/2014 2:03:31 PM
Data Type: Original
Initial Sample Vol: 30 mL
Sample Prep Vol: 30 mL

Replicate Data: INSTBLK WG750955

Repl #	SampleConc mg/L	StndConc mg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.00005	0.00005	0.0001	0.0034	0.0002	14:04:35	Yes
2	0.00005	0.00005	0.0001	0.0039	0.0002	14:05:19	Yes
3	0.00005	0.00005	0.0001	0.0020	0.0002	14:06:03	Yes
Mean:	0.00005	0.00005	0.0001				
SD:	0.00000	0.00000	0.0000				
%RSD:	2.758	2.758	24.79				

Sequence No.: 83
Sample ID: BLANK WG750956
Analyst: 628
Initial Sample Wt:
Dilution:
Autosampler Location: 80
Date Collected: 10/28/2014 2:06:28 PM
Data Type: Original
Initial Sample Vol: 30 mL
Sample Prep Vol: 30 mL

Replicate Data: BLANK WG750956

Repl #	SampleConc mg/L	StndConc mg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.00005	0.00005	0.0000	-0.0021	0.0001	14:07:32	Yes
2	0.00007	0.00007	0.0003	0.0073	0.0005	14:08:16	Yes
3	0.00005	0.00005	0.0000	0.0012	0.0002	14:09:00	Yes
Mean:	0.00005	0.00005	0.0001				
SD:	0.00001	0.00001	0.0002				
%RSD:	21.10	21.10	134.69				

Sequence No.: 84
Sample ID: LCS WG750956
Analyst: 628
Initial Sample Wt:
Dilution:
Autosampler Location: 81
Date Collected: 10/28/2014 2:09:24 PM
Data Type: Original
Initial Sample Vol: 30 mL
Sample Prep Vol: 30 mL

Replicate Data: LCS WG750956

Repl #	SampleConc mg/L	StndConc mg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.00269	0.00269	0.0437	0.4335	0.0438	14:10:29	Yes
2	0.00271	0.00271	0.0441	0.4373	0.0442	14:11:13	Yes
3	0.00272	0.00272	0.0442	0.4360	0.0443	14:11:56	Yes
Mean:	0.00271	0.00271	0.0440				
SD:	0.00001	0.00001	0.0002				
%RSD:	0.5254	0.5254	0.53				

Sequence No.: 85
Sample ID: LCSD WG750956
Analyst: 628
Initial Sample Wt:
Dilution:
Autosampler Location: 82
Date Collected: 10/28/2014 2:12:21 PM
Data Type: Original
Initial Sample Vol: 30 mL
Sample Prep Vol: 30 mL

Replicate Data: LCSD WG750956

Repl #	SampleConc mg/L	StndConc mg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.00272	0.00272	0.0441	0.4335	0.0442	14:13:26	Yes
2	0.00273	0.00273	0.0443	0.4362	0.0444	14:14:10	Yes
3	0.00272	0.00272	0.0441	0.4326	0.0442	14:14:54	Yes
Mean:	0.00272	0.00272	0.0441				
SD:	0.00001	0.00001	0.0001				
%RSD:	0.2272	0.2272	0.23				

Sequence No.: 86
Sample ID: L729879-01 WG750956
Analyst: 628
Initial Sample Wt:
Dilution:
Autosampler Location: 83
Date Collected: 10/28/2014 2:15:18 PM
Data Type: Original
Initial Sample Vol: 30 mL
Sample Prep Vol: 30 mL

Replicate Data: L729879-01 WG750956

Repl #	SampleConc mg/L	StndConc mg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.00004	0.00004	0.0000	0.0014	0.0001	14:16:23	Yes
2	0.00005	0.00005	0.0002	0.0046	0.0003	14:17:07	Yes
3	0.00006	0.00006	0.0002	0.0050	0.0003	14:17:51	Yes
Mean:	0.00005	0.00005	0.0001				
SD:	0.00001	0.00001	0.0001				
%RSD:	11.66	11.66	78.29				

Sequence No.: 87
Sample ID: MS WG750956 L729879-01
Analyst: 628
Initial Sample Wt:
Dilution:
Autosampler Location: 84
Date Collected: 10/28/2014 2:18:16 PM
Data Type: Original
Initial Sample Vol: 30 mL
Sample Prep Vol: 30 mL

Replicate Data: MS WG750956 L729879-01

Repl #	SampleConc mg/L	StndConc mg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.00282	0.00282	0.0457	0.4534	0.0458	14:19:21	Yes
2	0.00273	0.00273	0.0443	0.4457	0.0444	14:20:05	Yes
3	0.00281	0.00281	0.0456	0.4434	0.0457	14:20:49	Yes
Mean:	0.00278	0.00278	0.0452				
SD:	0.00005	0.00005	0.0008				
%RSD:	1.760	1.760	1.79				

Sequence No.: 88
Sample ID: MSD WG750956 L729879-01
Analyst: 628
Initial Sample Wt:
Dilution:
Autosampler Location: 85
Date Collected: 10/28/2014 2:21:13 PM
Data Type: Original
Initial Sample Vol: 30 mL
Sample Prep Vol: 30 mL

Replicate Data: MSD WG750956 L729879-01

Repl #	SampleConc mg/L	StndConc mg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.00281	0.00281	0.0456	0.4564	0.0457	14:22:18	Yes
2	0.00283	0.00283	0.0460	0.4634	0.0461	14:23:02	Yes
3	0.00280	0.00280	0.0455	0.4568	0.0456	14:23:46	Yes
Mean:	0.00281	0.00281	0.0457				
SD:	0.00002	0.00002	0.0003				
%RSD:	0.6336	0.6336	0.64				

Sequence No.: 89
Sample ID: SD WG750956 L729879-01
Analyst: 628
Initial Sample Wt:
Dilution: 5X
Autosampler Location: 86
Date Collected: 10/28/2014 2:24:11 PM
Data Type: Original
Initial Sample Vol: 30 mL
Sample Prep Vol: 30 mL

Replicate Data: SD WG750956 L729879-01

Repl #	SampleConc mg/L	StndConc mg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.00024	0.00005	0.0000	0.0027	0.0002	14:25:16	Yes
2	0.00027	0.00005	0.0002	0.0043	0.0003	14:26:00	Yes
3	0.00030	0.00006	0.0003	0.0072	0.0004	14:26:44	Yes
Mean:	0.00027	0.00005	0.0002				
SD:	0.00003	0.00001	0.0001				
%RSD:	11.92	11.92	65.72				

Sequence No.: 90
Sample ID: L729615-01 WG750956
Analyst: 628
Initial Sample Wt:
Dilution:
Autosampler Location: 87
Date Collected: 10/28/2014 2:27:09 PM
Data Type: Original
Initial Sample Vol: 30 mL
Sample Prep Vol: 30 mL

Replicate Data: L729615-01 WG750956

Repl #	SampleConc mg/L	StndConc mg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.00005	0.00005	0.0001	0.0031	0.0002	14:28:13	Yes
2	0.00005	0.00005	0.0001	0.0039	0.0002	14:28:57	Yes
3	0.00005	0.00005	0.0002	0.0053	0.0003	14:29:41	Yes
Mean:	0.00005	0.00005	0.0001				
SD:	0.00000	0.00000	0.0000				
%RSD:	4.129	4.129	26.30				

Sequence No.: 91
Sample ID: L729615-02 WG750956
Analyst: 628
Initial Sample Wt:
Dilution:
Autosampler Location: 88
Date Collected: 10/28/2014 2:30:06 PM
Data Type: Original
Initial Sample Vol: 30 mL
Sample Prep Vol: 30 mL

Replicate Data: L729615-02 WG750956

Repl #	SampleConc mg/L	StndConc mg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.00005	0.00005	0.0002	0.0052	0.0003	14:31:11	Yes
2	0.00005	0.00005	0.0001	0.0041	0.0002	14:31:55	Yes
3	0.00005	0.00005	0.0000	0.0000	0.0002	14:32:38	Yes
Mean:	0.00005	0.00005	0.0001				
SD:	0.00000	0.00000	0.0001				
%RSD:	7.426	7.426	55.51				

Sequence No.: 92
Sample ID: L729615-03 WG750956
Analyst: 628
Initial Sample Wt:
Dilution:
Autosampler Location: 89
Date Collected: 10/28/2014 2:33:03 PM
Data Type: Original
Initial Sample Vol: 30 mL
Sample Prep Vol: 30 mL

Replicate Data: L729615-03 WG750956

Repl #	SampleConc mg/L	StndConc mg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.00005	0.00005	0.0001	0.0030	0.0002	14:34:08	Yes
2	0.00006	0.00006	0.0003	0.0073	0.0004	14:34:51	Yes
3	0.00006	0.00006	0.0002	0.0058	0.0003	14:35:35	Yes
Mean:	0.00006	0.00006	0.0002				
SD:	0.00001	0.00001	0.0001				
%RSD:	10.30	10.30	50.50				

Sequence No.: 93
Sample ID: L729615-04 WG750956
Analyst: 628
Initial Sample Wt:
Dilution:
Autosampler Location: 90
Date Collected: 10/28/2014 2:36:00 PM
Data Type: Original
Initial Sample Vol: 30 mL
Sample Prep Vol: 30 mL

Replicate Data: L729615-04 WG750956

Repl #	SampleConc mg/L	StndConc mg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.00004	0.00004	-0.0000	0.0007	0.0001	14:37:05	Yes
2	0.00005	0.00005	0.0001	0.0030	0.0002	14:37:49	Yes
3	0.00006	0.00006	0.0002	0.0059	0.0003	14:38:33	Yes
Mean:	0.00005	0.00005	0.0001				
SD:	0.00001	0.00001	0.0001				
%RSD:	12.58	12.58	100.02				

Sequence No.: 94 **Autosampler Location: 8**
Sample ID: CCV 14J09762 **Date Collected: 10/28/2014 2:38:58 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: CCV 14J09762

Repl #	SampleConc mg/L	StndConc mg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.00233	0.00233	0.0378	0.3774	0.0379	14:40:02	Yes
2	0.00232	0.00232	0.0376	0.3697	0.0377	14:40:46	Yes
3	0.00234	0.00234	0.0379	0.3701	0.0380	14:41:30	Yes
Mean:	0.00233	0.00233	0.0378				
SD:	0.00001	0.00001	0.0001				
%RSD:	0.3448	0.3448	0.35				

QC value within limits for Hg 253.7 Recovery = 93.34%
All analyte(s) passed QC.

Sequence No.: 95 **Autosampler Location: 1**
Sample ID: CCB **Date Collected: 10/28/2014 2:41:54 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: CCB

Repl #	SampleConc mg/L	StndConc mg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.00005	0.00005	0.0001	0.0018	0.0002	14:42:57	Yes
2	0.00005	0.00005	0.0001	0.0027	0.0003	14:43:41	Yes
3	0.00006	0.00006	0.0002	0.0044	0.0003	14:44:25	Yes
Mean:	0.00005	0.00005	0.0001				
SD:	0.00000	0.00000	0.0001				
%RSD:	8.293	8.293	55.21				

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

Sequence No.: 96 **Autosampler Location: 91**
Sample ID: L729615-05 WG750956 **Date Collected: 10/28/2014 2:44:49 PM**
Analyst: 628 **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol: 30 mL**
Dilution: **Sample Prep Vol: 30 mL**

Replicate Data: L729615-05 WG750956

Repl #	SampleConc mg/L	StndConc mg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.00006	0.00006	0.0003	0.0063	0.0004	14:45:54	Yes
2	0.00006	0.00006	0.0003	0.0063	0.0004	14:46:37	Yes
3	0.00006	0.00006	0.0003	0.0058	0.0004	14:47:21	Yes
Mean:	0.00006	0.00006	0.0003				
SD:	0.00000	0.00000	0.0000				
%RSD:	0.6765	0.6765	2.41				

Sequence No.: 97 **Autosampler Location: 92**
Sample ID: L729615-06 WG750956 **Date Collected: 10/28/2014 2:47:46 PM**

Analyst: 628 **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol: 30 mL**
Dilution: **Sample Prep Vol: 30 mL**

Replicate Data: L729615-06 WG750956

Repl #	SampleConc mg/L	StndConc mg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.00006	0.00006	0.0003	0.0063	0.0004	14:48:51	Yes
2	0.00007	0.00007	0.0004	0.0074	0.0005	14:49:35	Yes
3	0.00006	0.00006	0.0003	0.0064	0.0005	14:50:19	Yes
Mean:	0.00007	0.00007	0.0004				
SD:	0.00000	0.00000	0.0000				
%RSD:	2.197	2.197	6.69				

==========

Sequence No.: 98 **Autosampler Location: 93**
Sample ID: L729615-07 WG750956 **Date Collected: 10/28/2014 2:50:44 PM**
Analyst: 628 **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol: 30 mL**
Dilution: **Sample Prep Vol: 30 mL**

Replicate Data: L729615-07 WG750956

Repl #	SampleConc mg/L	StndConc mg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.00005	0.00005	0.0001	0.0036	0.0002	14:51:49	Yes
2	0.00005	0.00005	0.0001	0.0046	0.0003	14:52:32	Yes
3	0.00006	0.00006	0.0003	0.0074	0.0004	14:53:16	Yes
Mean:	0.00005	0.00005	0.0002				
SD:	0.00001	0.00001	0.0001				
%RSD:	10.85	10.85	56.07				

==========

Sequence No.: 99 **Autosampler Location: 94**
Sample ID: L729647-01 WG750956 **Date Collected: 10/28/2014 2:53:41 PM**
Analyst: 628 **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol: 30 mL**
Dilution: **Sample Prep Vol: 30 mL**

Replicate Data: L729647-01 WG750956

Repl #	SampleConc mg/L	StndConc mg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.00008	0.00008	0.0006	0.0101	0.0007	14:54:46	Yes
2	0.00008	0.00008	0.0006	0.0100	0.0007	14:55:30	Yes
3	0.00007	0.00007	0.0005	0.0083	0.0006	14:56:14	Yes
Mean:	0.00008	0.00008	0.0005				
SD:	0.00000	0.00000	0.0000				
%RSD:	3.244	3.244	7.56				

==========

Sequence No.: 100 **Autosampler Location: 95**
Sample ID: L729647-02 WG750956 **Date Collected: 10/28/2014 2:56:39 PM**
Analyst: 628 **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol: 30 mL**
Dilution: **Sample Prep Vol: 30 mL**

Replicate Data: L729647-02 WG750956

Repl #	SampleConc mg/L	StndConc mg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.00005	0.00005	0.0002	0.0045	0.0003	14:57:44	Yes
2	0.00006	0.00006	0.0002	0.0059	0.0003	14:58:28	Yes
3	0.00005	0.00005	0.0001	0.0042	0.0002	14:59:11	Yes
Mean:	0.00005	0.00005	0.0002				
SD:	0.00000	0.00000	0.0000				
%RSD:	3.182	3.182	17.34				

==========

Sequence No.: 101 **Autosampler Location: 96**
Sample ID: L729647-03 WG750956 **Date Collected: 10/28/2014 2:59:36 PM**

Analyst: 628 **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol: 30 mL**
Dilution: **Sample Prep Vol: 30 mL**

Replicate Data: L729647-03 WG750956

Repl #	SampleConc mg/L	StndConc mg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.00006	0.00006	0.0003	0.0053	0.0004	15:00:41	Yes
2	0.00007	0.00007	0.0004	0.0082	0.0005	15:01:25	Yes
3	0.00006	0.00006	0.0003	0.0046	0.0004	15:02:09	Yes
Mean:	0.00006	0.00006	0.0003				
SD:	0.00000	0.00000	0.0001				
%RSD:	6.123	6.123	19.56				

==========

Sequence No.: 102 **Autosampler Location: 97**
Sample ID: L729649-01 WG750956 **Date Collected: 10/28/2014 3:02:33 PM**
Analyst: 628 **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol: 30 mL**
Dilution: **Sample Prep Vol: 30 mL**

Replicate Data: L729649-01 WG750956

Repl #	SampleConc mg/L	StndConc mg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.00005	0.00005	0.0001	0.0020	0.0002	15:03:39	Yes
2	0.00005	0.00005	0.0002	0.0015	0.0003	15:04:23	Yes
3	0.00007	0.00007	0.0004	0.0073	0.0005	15:05:07	Yes
Mean:	0.00006	0.00006	0.0002				
SD:	0.00001	0.00001	0.0001				
%RSD:	14.43	14.43	63.39				

==========

Sequence No.: 103 **Autosampler Location: 98**
Sample ID: L729649-02 WG750956 **Date Collected: 10/28/2014 3:05:31 PM**
Analyst: 628 **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol: 30 mL**
Dilution: **Sample Prep Vol: 30 mL**

Replicate Data: L729649-02 WG750956

Repl #	SampleConc mg/L	StndConc mg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.00006	0.00006	0.0002	0.0055	0.0003	15:06:36	Yes
2	0.00005	0.00005	0.0001	0.0040	0.0003	15:07:20	Yes
3	0.00006	0.00006	0.0002	0.0065	0.0003	15:08:04	Yes
Mean:	0.00006	0.00006	0.0002				
SD:	0.00000	0.00000	0.0000				
%RSD:	4.533	4.533	22.43				

==========

Sequence No.: 104 **Autosampler Location: 99**
Sample ID: L729649-03 WG750956 **Date Collected: 10/28/2014 3:08:29 PM**
Analyst: 628 **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol: 30 mL**
Dilution: **Sample Prep Vol: 30 mL**

Replicate Data: L729649-03 WG750956

Repl #	SampleConc mg/L	StndConc mg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.00005	0.00005	0.0001	0.0033	0.0002	15:09:34	Yes
2	0.00005	0.00005	0.0002	0.0052	0.0003	15:10:18	Yes
3	0.00006	0.00006	0.0002	0.0056	0.0003	15:11:02	Yes
Mean:	0.00005	0.00005	0.0001				
SD:	0.00000	0.00000	0.0001				
%RSD:	6.428	6.428	38.85				

==========

Sequence No.: 105 **Autosampler Location: 100**
Sample ID: L729721-17 WG750956 **Date Collected: 10/28/2014 3:11:27 PM**

Analyst: 628 **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol: 30 mL**
Dilution: **Sample Prep Vol: 30 mL**

Replicate Data: L729721-17 WG750956

Repl #	SampleConc mg/L	StndConc mg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.00008	0.00008	0.0006	0.0096	0.0007	15:12:33	Yes
2	0.00008	0.00008	0.0007	0.0099	0.0008	15:13:17	Yes
3	0.00008	0.00008	0.0007	0.0096	0.0008	15:14:01	Yes
Mean:	0.00008	0.00008	0.0006				
SD:	0.00000	0.00000	0.0000				
%RSD:	1.835	1.835	3.90				

==========

Sequence No.: 106 **Autosampler Location: 8**
Sample ID: CCV 14J09762 **Date Collected: 10/28/2014 3:14:26 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: CCV 14J09762

Repl #	SampleConc mg/L	StndConc mg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.00237	0.00237	0.0384	0.3786	0.0385	15:15:30	Yes
2	0.00238	0.00238	0.0385	0.3772	0.0386	15:16:14	Yes
3	0.00235	0.00235	0.0381	0.3709	0.0382	15:16:58	Yes
Mean:	0.00237	0.00237	0.0383				
SD:	0.00001	0.00001	0.0002				
%RSD:	0.4953	0.4953	0.50				

QC value within limits for Hg 253.7 Recovery = 94.70%
All analyte(s) passed QC.

==========

Sequence No.: 107 **Autosampler Location: 1**
Sample ID: CCB **Date Collected: 10/28/2014 3:17:22 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: CCB

Repl #	SampleConc mg/L	StndConc mg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.00005	0.00005	0.0001	0.0030	0.0002	15:18:26	Yes
2	0.00005	0.00005	0.0001	0.0029	0.0002	15:19:09	Yes
3	0.00005	0.00005	0.0002	0.0045	0.0003	15:19:53	Yes
Mean:	0.00005	0.00005	0.0001				
SD:	0.00000	0.00000	0.0001				
%RSD:	6.059	6.059	48.55				

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

==========

Sequence No.: 108 **Autosampler Location: 101**
Sample ID: L729879-02 WG750956 **Date Collected: 10/28/2014 3:20:17 PM**
Analyst: 628 **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol: 30 mL**
Dilution: **Sample Prep Vol: 30 mL**

Replicate Data: L729879-02 WG750956

Repl #	SampleConc mg/L	StndConc mg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.00005	0.00005	0.0002	0.0039	0.0003	15:21:22	Yes
2	0.00004	0.00004	0.0000	0.0000	0.0001	15:22:06	Yes
3	0.00005	0.00005	0.0001	0.0028	0.0002	15:22:49	Yes
Mean:	0.00005	0.00005	0.0001				
SD:	0.00000	0.00000	0.0001				
%RSD:	8.705	8.705	77.90				

Sequence No.: 109 | **Autosampler Location: 102**
Sample ID: L729879-03 WG750956 | **Date Collected: 10/28/2014 3:23:15 PM**
Analyst: 628 | **Data Type: Original**
Initial Sample Wt: | **Initial Sample Vol: 30 mL**
Dilution: | **Sample Prep Vol: 30 mL**

Replicate Data: L729879-03 WG750956

Repl #	SampleConc mg/L	StndConc mg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.00006	0.00006	0.0002	0.0045	0.0003	15:24:20	Yes
2	0.00006	0.00006	0.0003	0.0055	0.0004	15:25:04	Yes
3	0.00005	0.00005	0.0001	0.0026	0.0002	15:25:48	Yes
Mean:	0.00006	0.00006	0.0002				
SD:	0.00000	0.00000	0.0001				
%RSD:	7.085	7.085	32.79				

Sequence No.: 110 | **Autosampler Location: 103**
Sample ID: INSTBLK WG750956 | **Date Collected: 10/28/2014 3:26:12 PM**
Analyst: 628 | **Data Type: Original**
Initial Sample Wt: | **Initial Sample Vol: 30 mL**
Dilution: | **Sample Prep Vol: 30 mL**

Replicate Data: INSTBLK WG750956

Repl #	SampleConc mg/L	StndConc mg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.00005	0.00005	0.0001	0.0033	0.0002	15:27:18	Yes
2	0.00005	0.00005	0.0001	0.0039	0.0002	15:28:01	Yes
3	0.00007	0.00007	0.0004	0.0073	0.0005	15:28:46	Yes
Mean:	0.00006	0.00006	0.0002				
SD:	0.00001	0.00001	0.0002				
%RSD:	16.84	16.84	80.71				

Sequence No.: 111 | **Autosampler Location: 104**
Sample ID: BLANK WG750987 | **Date Collected: 10/28/2014 3:29:10 PM**
Analyst: 628 | **Data Type: Original**
Initial Sample Wt: | **Initial Sample Vol: 30 mL**
Dilution: | **Sample Prep Vol: 30 mL**

Replicate Data: BLANK WG750987

Repl #	SampleConc mg/L	StndConc mg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.00005	0.00005	0.0001	0.0040	0.0003	15:30:16	Yes
2	0.00006	0.00006	0.0003	0.0080	0.0004	15:30:59	Yes
3	0.00005	0.00005	0.0001	0.0047	0.0002	15:31:43	Yes
Mean:	0.00006	0.00006	0.0002				
SD:	0.00001	0.00001	0.0001				
%RSD:	10.84	10.84	49.87				

Sequence No.: 112 | **Autosampler Location: 105**
Sample ID: LCS WG750987 | **Date Collected: 10/28/2014 3:32:09 PM**
Analyst: 628 | **Data Type: Original**
Initial Sample Wt: | **Initial Sample Vol: 30 mL**
Dilution: | **Sample Prep Vol: 30 mL**

Replicate Data: LCS WG750987

Repl #	SampleConc mg/L	StndConc mg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.00270	0.00270	0.0438	0.4349	0.0440	15:33:14	Yes
2	0.00271	0.00271	0.0441	0.4276	0.0442	15:33:58	Yes
3	0.00272	0.00272	0.0441	0.4286	0.0442	15:34:42	Yes
Mean:	0.00271	0.00271	0.0440				
SD:	0.00001	0.00001	0.0001				
%RSD:	0.3163	0.3163	0.32				

Sequence No.: 113
Sample ID: LCSD WG750987
Analyst: 628
Initial Sample Wt:
Dilution:
Autosampler Location: 106
Date Collected: 10/28/2014 3:35:07 PM
Data Type: Original
Initial Sample Vol: 30 mL
Sample Prep Vol: 30 mL

Replicate Data: LCSD WG750987

Repl #	SampleConc mg/L	StndConc mg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.00277	0.00277	0.0451	0.4493	0.0452	15:36:12	Yes
2	0.00279	0.00279	0.0453	0.4451	0.0454	15:36:56	Yes
3	0.00281	0.00281	0.0456	0.4485	0.0457	15:37:40	Yes
Mean:	0.00279	0.00279	0.0453				
SD:	0.00002	0.00002	0.0003				
%RSD:	0.5501	0.5501	0.56				

Sequence No.: 114
Sample ID: L729809-01 WG750987
Analyst: 628
Initial Sample Wt:
Dilution:
Autosampler Location: 107
Date Collected: 10/28/2014 3:38:05 PM
Data Type: Original
Initial Sample Vol: 30 mL
Sample Prep Vol: 30 mL

Replicate Data: L729809-01 WG750987

Repl #	SampleConc mg/L	StndConc mg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.00009	0.00009	0.0008	0.0070	0.0009	15:39:10	Yes
2	0.00011	0.00011	0.0010	0.0121	0.0011	15:39:54	Yes
3	0.00011	0.00011	0.0011	0.0130	0.0012	15:40:38	Yes
Mean:	0.00010	0.00010	0.0010				
SD:	0.00001	0.00001	0.0002				
%RSD:	9.186	9.186	16.16				

Sequence No.: 115
Sample ID: MS WG750987 L729809-01
Analyst: 628
Initial Sample Wt:
Dilution:
Autosampler Location: 108
Date Collected: 10/28/2014 3:41:03 PM
Data Type: Original
Initial Sample Vol: 30 mL
Sample Prep Vol: 30 mL

Replicate Data: MS WG750987 L729809-01

Repl #	SampleConc mg/L	StndConc mg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.00295	0.00295	0.0479	0.4781	0.0480	15:42:08	Yes
2	0.00295	0.00295	0.0480	0.4741	0.0481	15:42:52	Yes
3	0.00293	0.00293	0.0476	0.4597	0.0477	15:43:36	Yes
Mean:	0.00294	0.00294	0.0478				
SD:	0.00001	0.00001	0.0002				
%RSD:	0.3947	0.3947	0.40				

Sequence No.: 116
Sample ID: MSD WG750987 L729809-01
Analyst: 628
Initial Sample Wt:
Dilution:
Autosampler Location: 109
Date Collected: 10/28/2014 3:44:01 PM
Data Type: Original
Initial Sample Vol: 30 mL
Sample Prep Vol: 30 mL

Replicate Data: MSD WG750987 L729809-01

Repl #	SampleConc mg/L	StndConc mg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.00289	0.00289	0.0469	0.4638	0.0470	15:45:06	Yes
2	0.00290	0.00290	0.0472	0.4669	0.0473	15:45:50	Yes
3	0.00283	0.00283	0.0460	0.4591	0.0461	15:46:34	Yes
Mean:	0.00287	0.00287	0.0467				
SD:	0.00004	0.00004	0.0006				
%RSD:	1.283	1.283	1.30				

Sequence No.: 117 | **Autosampler Location: 110**
Sample ID: SD WG750987 L729809-01 | **Date Collected: 10/28/2014 3:47:00 PM**
Analyst: 628 | **Data Type: Original**
Initial Sample Wt: | **Initial Sample Vol: 30 mL**
Dilution: 5X | **Sample Prep Vol: 30 mL**

Replicate Data: SD WG750987 L729809-01

Repl #	SampleConc mg/L	StndConc mg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.00027	0.00005	0.0002	0.0038	0.0003	15:48:05	Yes
2	0.00048	0.00010	0.0009	0.0189	0.0010	15:48:49	Yes
3	0.00048	0.00010	0.0009	0.0195	0.0010	15:49:33	Yes
Mean:	0.00041	0.00008	0.0006				
SD:	0.00012	0.00002	0.0004				
%RSD:	29.14	29.14	62.56				

Sequence No.: 118 | **Autosampler Location: 111**
Sample ID: L729809-02 WG750987 | **Date Collected: 10/28/2014 3:49:58 PM**
Analyst: 628 | **Data Type: Original**
Initial Sample Wt: | **Initial Sample Vol: 30 mL**
Dilution: | **Sample Prep Vol: 30 mL**

Replicate Data: L729809-02 WG750987

Repl #	SampleConc mg/L	StndConc mg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.00006	0.00006	0.0002	0.0046	0.0003	15:51:03	Yes
2	0.00008	0.00008	0.0005	0.0124	0.0006	15:51:47	Yes
3	0.00008	0.00008	0.0006	0.0151	0.0007	15:52:31	Yes
Mean:	0.00007	0.00007	0.0005				
SD:	0.00001	0.00001	0.0002				
%RSD:	17.45	17.45	44.91				

Sequence No.: 119 | **Autosampler Location: 112**
Sample ID: L729809-03 WG750987 | **Date Collected: 10/28/2014 3:52:57 PM**
Analyst: 628 | **Data Type: Original**
Initial Sample Wt: | **Initial Sample Vol: 30 mL**
Dilution: | **Sample Prep Vol: 30 mL**

Replicate Data: L729809-03 WG750987

Repl #	SampleConc mg/L	StndConc mg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.00008	0.00008	0.0006	0.0093	0.0007	15:54:02	Yes
2	0.00011	0.00011	0.0010	0.0185	0.0011	15:54:46	Yes
3	0.00011	0.00011	0.0010	0.0178	0.0011	15:55:30	Yes
Mean:	0.00010	0.00010	0.0009				
SD:	0.00001	0.00001	0.0002				
%RSD:	14.62	14.62	26.63				

Sequence No.: 120 | **Autosampler Location: 113**
Sample ID: L729809-04 WG750987 | **Date Collected: 10/28/2014 3:55:56 PM**
Analyst: 628 | **Data Type: Original**
Initial Sample Wt: | **Initial Sample Vol: 30 mL**
Dilution: | **Sample Prep Vol: 30 mL**

Replicate Data: L729809-04 WG750987

Repl #	SampleConc mg/L	StndConc mg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.00005	0.00005	0.0001	0.0016	0.0002	15:57:01	Yes
2	0.00009	0.00009	0.0007	0.0156	0.0008	15:57:45	Yes
3	0.00008	0.00008	0.0006	0.0133	0.0007	15:58:29	Yes
Mean:	0.00007	0.00007	0.0005				
SD:	0.00002	0.00002	0.0003				
%RSD:	25.81	25.81	64.84				

Sequence No.: 121 **Autosampler Location: 114**
Sample ID: L729809-05 WG750987 **Date Collected: 10/28/2014 3:58:55 PM**
Analyst: 628 **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol: 30 mL**
Dilution: **Sample Prep Vol: 30 mL**

Replicate Data: L729809-05 WG750987

Repl #	SampleConc mg/L	StndConc mg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.00005	0.00005	0.0000	-0.0006	0.0001	16:00:00	Yes
2	0.00008	0.00008	0.0005	0.0111	0.0006	16:00:44	Yes
3	0.00009	0.00009	0.0008	0.0176	0.0009	16:01:28	Yes
Mean:	0.00007	0.00007	0.0004				
SD:	0.00002	0.00002	0.0004				
%RSD:	33.13	33.13	88.39				

Sequence No.: 122 **Autosampler Location: 115**
Sample ID: INSTBLK WG750987 **Date Collected: 10/28/2014 4:01:53 PM**
Analyst: 628 **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol: 30 mL**
Dilution: **Sample Prep Vol: 30 mL**

Replicate Data: INSTBLK WG750987

Repl #	SampleConc mg/L	StndConc mg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.00005	0.00005	0.0001	0.0031	0.0002	16:02:58	Yes
2	0.00007	0.00007	0.0005	0.0122	0.0006	16:03:42	Yes
3	0.00007	0.00007	0.0004	0.0102	0.0005	16:04:26	Yes
Mean:	0.00006	0.00006	0.0003				
SD:	0.00001	0.00001	0.0002				
%RSD:	18.23	18.23	57.34				

Sequence No.: 123 **Autosampler Location: 3**
Sample ID: CCVLL 14J23419 **Date Collected: 10/28/2014 4:04:51 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: CCVLL 14J23419

Repl #	SampleConc mg/L	StndConc mg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.00024	0.00024	0.0033	0.0361	0.0034	16:05:55	Yes
2	0.00026	0.00026	0.0036	0.0436	0.0037	16:06:39	Yes
3	0.00025	0.00025	0.0034	0.0400	0.0035	16:07:23	Yes
Mean:	0.00025	0.00025	0.0034				
SD:	0.00001	0.00001	0.0002				
%RSD:	3.691	3.691	4.48				

QC value within limits for Hg 253.7 Recovery = 125.93%
All analyte(s) passed QC.

Sequence No.: 124 **Autosampler Location: 8**
Sample ID: CCV 14J09762 **Date Collected: 10/28/2014 4:07:48 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: CCV 14J09762

Repl #	SampleConc mg/L	StndConc mg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.00236	0.00236	0.0383	0.3809	0.0384	16:08:52	Yes
2	0.00235	0.00235	0.0381	0.3792	0.0382	16:09:35	Yes
3	0.00234	0.00234	0.0379	0.3751	0.0380	16:10:19	Yes
Mean:	0.00235	0.00235	0.0381				

SD:	0.00001	0.00001	0.0002
%RSD:	0.4921	0.4921	0.50

QC value within limits for Hg 253.7 Recovery = 94.05%
All analyte(s) passed QC.

==========

Sequence No.: 125 **Autosampler Location: 1**
Sample ID: CCB **Date Collected: 10/28/2014 4:10:43 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: CCB

Repl #	SampleConc mg/L	StndConc mg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.00005	0.00005	0.0002	0.0044	0.0003	16:11:47	Yes
2	0.00008	0.00008	0.0005	0.0118	0.0006	16:12:31	Yes
3	0.00007	0.00007	0.0005	0.0119	0.0006	16:13:15	Yes
Mean:	0.00007	0.00007	0.0004				
SD:	0.00001	0.00001	0.0002				
%RSD:	17.61	17.61	50.30				

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

Analytical Sequence
Method: Hg Water PPM-TEST

Seq.	Loc.	ID	Status
1	156	ICVLL 14J23419	QC Passed
2	157	ICV 14J09761	QC Passed
3	1	ICB	QC Passed
4	9	BLANK WG750952	Analyzed
5	10	LCS WG750952	Analyzed
6	11	LCSD WG750952	Analyzed
7	12	L729208-01 WG750952	Analyzed
8	13	MS WG750952 L729208-01	Analyzed
9	14	MSD WG750952 L729208-01	Analyzed
10	15	SD WG750952 L729208-01	Analyzed
11	16	L727205-03 WG750952	Analyzed
12	17	L729208-03 WG750952	Analyzed
13	18	L729342-03 WG750952	Analyzed
14	19	L729391-02 WG750952	Analyzed
15	20	L729391-04 WG750952	Analyzed
16	21	L729396-03 WG750952	Analyzed
17	22	L729468-01 WG750952	Analyzed
18	23	L729585-01 WG750952	Analyzed
19	24	L729585-02 WG750952	Analyzed
20	8	CCV 14J09762	QC Passed
21	1	CCB	QC Passed
22	25	L729585-03 WG750952	Analyzed
23	26	L729638-01 WG750952	Analyzed
24	27	L729709-01 WG750952	Analyzed
25	28	L729778-01 WG750952	Analyzed
26	29	L729778-03 WG750952	Analyzed
27	30	L729778-05 WG750952	Analyzed
28	31	L729778-07 WG750952	Analyzed
29	32	L729782-01 WG750952	Analyzed
30	33	INSTBLK WG750952	Analyzed
31	8	CCV 14J09762	QC Passed
32	1	CCB	QC Passed
33	34	BLANK WG750953	Analyzed
34	35	LCS WG750953	Analyzed
35	36	LCSD WG750953	Analyzed
36	37	L729805-01 WG750953	Analyzed
37	38	MS WG750953 L729805-01	Analyzed
38	39	MSD WG750953 L729805-01	Analyzed
39	40	SD WG750953 L729805-01	Analyzed
40	41	L729805-02 WG750953	Analyzed
41	42	L729805-03 WG750953	Analyzed
42	43	L729805-04 WG750953	Analyzed
43	44	L729805-05 WG750953	Analyzed
44	45	L729805-06 WG750953	Analyzed

45	46	L729805-07 WG750953	Analyzed
46	47	L729805-08 WG750953	Analyzed
47	48	INSTBLK WG750953	Analyzed
48	49	BLANK WG750954	Analyzed
49	50	LCS WG750954	Analyzed
50	51	LCSD WG750954	Analyzed
51	52	L729806-01 WG750954	Analyzed
52	53	MS WG750954 L729806-01	Analyzed
53	54	MSD WG750954 L729806-01	Analyzed
54	55	SD WG750954 L729806-01	Analyzed
55	56	L729806-02 WG750954	Analyzed
56	8	CCV 14J09762	QC Passed
57	1	CCB	QC Passed
58	57	L729806-03 WG750954	Analyzed
59	58	L729806-04 WG750954	Analyzed
60	59	L729806-05 WG750954	Analyzed
61	60	L729806-06 WG750954	Analyzed
62	61	L729806-07 WG750954	Analyzed
63	62	INSTBLK WG750954	Analyzed
64	63	BLANK WG750955	Analyzed
65	64	LCS WG750955	Analyzed
66	65	LCSD WG750955	Analyzed
67	66	L729877-04 WG750955	Analyzed
68	67	MS WG750955 L729877-04	Analyzed
69	68	MSD WG750955 L729877-04	Analyzed
70	69	SD WG750955 L729877-04	Analyzed
71	70	L729737-01 WG750955	Analyzed
72	71	L729771-01 WG750955	Analyzed
73	72	L729875-01 WG750955	Analyzed
74	73	L729875-02 WG750955	Analyzed
75	8	CCV 14J09762	QC Passed
76	1	CCB	QC Passed
77	74	L729875-03 WG750955	Analyzed
78	75	L729875-04 WG750955	Analyzed
79	76	L729877-01 WG750955	Analyzed
80	77	L729877-02 WG750955	Analyzed
81	78	L729877-03 WG750955	Analyzed
82	79	INSTBLK WG750955	Analyzed
83	80	BLANK WG750956	Analyzed
84	81	LCS WG750956	Analyzed
85	82	LCSD WG750956	Analyzed
86	83	L729879-01 WG750956	Analyzed
87	84	MS WG750956 L729879-01	Analyzed
88	85	MSD WG750956 L729879-01	Analyzed
89	86	SD WG750956 L729879-01	Analyzed
90	87	L729615-01 WG750956	Analyzed
91	88	L729615-02 WG750956	Analyzed
92	89	L729615-03 WG750956	Analyzed
93	90	L729615-04 WG750956	Analyzed
94	8	CCV 14J09762	QC Passed
95	1	CCB	QC Passed
96	91	L729615-05 WG750956	Analyzed
97	92	L729615-06 WG750956	Analyzed
98	93	L729615-07 WG750956	Analyzed
99	94	L729647-01 WG750956	Analyzed
100	95	L729647-02 WG750956	Analyzed
101	96	L729647-03 WG750956	Analyzed
102	97	L729649-01 WG750956	Analyzed
103	98	L729649-02 WG750956	Analyzed
104	99	L729649-03 WG750956	Analyzed
105	100	L729721-17 WG750956	Analyzed
106	8	CCV 14J09762	QC Passed
107	1	CCB	QC Passed
108	101	L729879-02 WG750956	Analyzed
109	102	L729879-03 WG750956	Analyzed
110	103	INSTBLK WG750956	Analyzed
111	104	BLANK WG750987	Analyzed
112	105	LCS WG750987	Analyzed
113	106	LCSD WG750987	Analyzed
114	107	L729809-01 WG750987	Analyzed
115	108	MS WG750987 L729809-01	Analyzed
116	109	MSD WG750987 L729809-01	Analyzed

117	110	SD WG750987 L729809-01	Analyzed
118	111	L729809-02 WG750987	Analyzed
119	112	L729809-03 WG750987	Analyzed
120	113	L729809-04 WG750987	Analyzed
121	114	L729809-05 WG750987	Analyzed
122	115	INSTBLK WG750987	Analyzed
123	3	CCVLL 14J23419	QC Passed
124	8	CCV 14J09762	QC Passed
125	1	CCB	QC Passed

==========

Analysis Begun

Logged In Analyst: hg4 **Technique: AA FIMS-MHS**
Spectrometer Model: FIMS-100, S/N B050-9550 **Autosampler Model: S10**

Sample Information File: C:\data-FIMS4\Sample Information\102814CVAA4 W.sif
Batch ID: 628
Results Data Set: 102814CVAA4 W
Results Library: C:\data-FIMS4\Results\Results.mdb

==========

Sequence No.: 1 **Autosampler Location: 156**
Sample ID: ICVLL 14J23419 **Date Collected: 10/28/2014 4:16:38 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**
User canceled analysis.

==========

Analysis Begun

Logged In Analyst: hg4 **Technique: AA FIMS-MHS**
Spectrometer Model: FIMS-100, S/N B050-9550 **Autosampler Model: S10**

Sample Information File: C:\data-FIMS4\Sample Information\102814CVAA4 W.sif
Batch ID: 628
Results Data Set: 102814CVAA4 W
Results Library: C:\data-FIMS4\Results\Results.mdb

==========

Sequence No.: 125 **Autosampler Location: 38**
Sample ID: BLANK WG751135 **Date Collected: 10/28/2014 4:18:18 PM**
Analyst: 628 **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol: 30 mL**
Dilution: **Sample Prep Vol: 30 mL**

Replicate Data: BLANK WG751135

Repl #	SampleConc mg/L	StndConc mg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.00009	0.00009	0.0007	0.0166	0.0008	16:19:22	Yes
2	0.00011	0.00011	0.0011	0.0248	0.0012	16:20:06	Yes
3	0.00011	0.00011	0.0010	0.0243	0.0011	16:20:50	Yes
Mean:	0.00010	0.00010	0.0009				
SD:	0.00001	0.00001	0.0002				
%RSD:	13.23	13.23	23.51				

==========

Sequence No.: 126 **Autosampler Location: 39**
Sample ID: LCS WG751135 **Date Collected: 10/28/2014 4:21:14 PM**
Analyst: 628 **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol: 30 mL**
Dilution: **Sample Prep Vol: 30 mL**

Replicate Data: LCS WG751135

Repl #	SampleConc mg/L	StndConc mg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.00285	0.00285	0.0464	0.4061	0.0465	16:22:18	Yes
2	0.00282	0.00282	0.0459	0.4133	0.0460	16:23:02	Yes
3	0.00280	0.00280	0.0455	0.4125	0.0456	16:23:46	Yes
Mean:	0.00283	0.00283	0.0459				
SD:	0.00003	0.00003	0.0004				
%RSD:	0.9210	0.9210	0.94				

==========

Sequence No.: 127 **Autosampler Location: 40**
Sample ID: LCSD WG751135 **Date Collected: 10/28/2014 4:24:10 PM**
Analyst: 628 **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol: 30 mL**

Dilution: **Sample Prep Vol: 30 mL**

Replicate Data: LCSD WG751135

Repl #	SampleConc mg/L	StndConc mg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.00260	0.00260	0.0421	0.3853	0.0422	16:25:14	Yes
2	0.00272	0.00272	0.0442	0.3924	0.0443	16:25:58	Yes
3	0.00272	0.00272	0.0441	0.4045	0.0442	16:26:42	Yes
Mean:	0.00268	0.00268	0.0435				
SD:	0.00007	0.00007	0.0012				
%RSD:	2.702	2.702	2.75				

==========

Sequence No.: 128 **Autosampler Location: 41**
Sample ID: L729800-01 WG751135 **Date Collected: 10/28/2014 4:27:06 PM**
Analyst: 628 **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol: 30 mL**
Dilution: **Sample Prep Vol: 30 mL**

Replicate Data: L729800-01 WG751135

Repl #	SampleConc mg/L	StndConc mg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.00007	0.00007	0.0004	0.0090	0.0005	16:28:11	Yes
2	0.00012	0.00012	0.0012	0.0263	0.0013	16:28:55	Yes
3	0.00012	0.00012	0.0013	0.0274	0.0014	16:29:39	Yes
Mean:	0.00010	0.00010	0.0010				
SD:	0.00003	0.00003	0.0005				
%RSD:	27.36	27.36	47.97				

==========

Sequence No.: 129 **Autosampler Location: 42**
Sample ID: MS WG751135 L729800-01 **Date Collected: 10/28/2014 4:30:03 PM**
Analyst: 628 **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol: 30 mL**
Dilution: **Sample Prep Vol: 30 mL**

Replicate Data: MS WG751135 L729800-01

Repl #	SampleConc mg/L	StndConc mg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.00256	0.00256	0.0415	0.3788	0.0416	16:31:07	Yes
2	0.00256	0.00256	0.0416	0.3863	0.0417	16:31:51	Yes
3	0.00256	0.00256	0.0415	0.3903	0.0416	16:32:35	Yes
Mean:	0.00256	0.00256	0.0415				
SD:	0.00000	0.00000	0.0000				
%RSD:	0.1007	0.1007	0.10				

==========

Sequence No.: 130 **Autosampler Location: 43**
Sample ID: MSD WG751135 L729800-01 **Date Collected: 10/28/2014 4:32:59 PM**
Analyst: 628 **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol: 30 mL**
Dilution: **Sample Prep Vol: 30 mL**

Replicate Data: MSD WG751135 L729800-01

Repl #	SampleConc mg/L	StndConc mg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.00234	0.00234	0.0379	0.3601	0.0380	16:34:03	Yes
2	0.00236	0.00236	0.0383	0.3679	0.0384	16:34:47	Yes
3	0.00233	0.00233	0.0378	0.3631	0.0379	16:35:31	Yes
Mean:	0.00235	0.00235	0.0380				
SD:	0.00002	0.00002	0.0003				
%RSD:	0.6594	0.6594	0.67				

==========

Sequence No.: 131 **Autosampler Location: 44**
Sample ID: SD WG751135 L729800-01 **Date Collected: 10/28/2014 4:35:56 PM**
Analyst: 628 **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol: 30 mL**

Dilution: 5X **Sample Prep Vol: 30 mL**

Replicate Data: SD WG751135 L729800-01

Repl #	SampleConc mg/L	StndConc mg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.00039	0.00008	0.0006	0.0133	0.0007	16:37:00	Yes
2	0.00055	0.00011	0.0011	0.0257	0.0012	16:37:44	Yes
3	0.00053	0.00011	0.0010	0.0237	0.0011	16:38:28	Yes
Mean:	0.00049	0.00010	0.0009				
SD:	0.00009	0.00002	0.0003				
%RSD:	17.31	17.31	31.38				

==========

Sequence No.: 132 **Autosampler Location: 45**
Sample ID: L729559-02 WG751135 **Date Collected: 10/28/2014 4:38:51 PM**
Analyst: 628 **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol: 30 mL**
Dilution: **Sample Prep Vol: 30 mL**

Replicate Data: L729559-02 WG751135

Repl #	SampleConc mg/L	StndConc mg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.00079	0.00079	0.0123	0.1163	0.0124	16:39:56	Yes
2	0.00084	0.00084	0.0132	0.1355	0.0133	16:40:40	Yes
3	0.00083	0.00083	0.0130	0.1311	0.0131	16:41:24	Yes
Mean:	0.00082	0.00082	0.0128				
SD:	0.00003	0.00003	0.0005				
%RSD:	3.440	3.440	3.64				

==========

Sequence No.: 133 **Autosampler Location: 46**
Sample ID: MS WG751135 L729559-02 **Date Collected: 10/28/2014 4:41:48 PM**
Analyst: 628 **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol: 30 mL**
Dilution: **Sample Prep Vol: 30 mL**

Replicate Data: MS WG751135 L729559-02

Repl #	SampleConc mg/L	StndConc mg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.00253	0.00253	0.0410	0.3858	0.0411	16:42:52	Yes
2	0.00255	0.00255	0.0413	0.4000	0.0414	16:43:36	Yes
3	0.00257	0.00257	0.0417	0.4008	0.0418	16:44:20	Yes
Mean:	0.00255	0.00255	0.0413				
SD:	0.00002	0.00002	0.0004				
%RSD:	0.8810	0.8810	0.90				

==========

Sequence No.: 134 **Autosampler Location: 47**
Sample ID: MSD WG751135 L729559-02 **Date Collected: 10/28/2014 4:44:45 PM**
Analyst: 628 **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol: 30 mL**
Dilution: **Sample Prep Vol: 30 mL**

Replicate Data: MSD WG751135 L729559-02

Repl #	SampleConc mg/L	StndConc mg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.00245	0.00245	0.0398	0.3881	0.0399	16:45:50	Yes
2	0.00251	0.00251	0.0408	0.4109	0.0409	16:46:34	Yes
3	0.00254	0.00254	0.0412	0.4133	0.0413	16:47:17	Yes
Mean:	0.00250	0.00250	0.0406				
SD:	0.00005	0.00005	0.0007				
%RSD:	1.811	1.811	1.84				

==========

Sequence No.: 135 **Autosampler Location: 48**
Sample ID: L729561-02 WG751135 **Date Collected: 10/28/2014 4:47:42 PM**
Analyst: 628 **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol: 30 mL**

Dilution: **Sample Prep Vol: 30 mL**

Replicate Data: L729561-02 WG751135

Repl #	SampleConc mg/L	StndConc mg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.00009	0.00009	0.0008	0.0105	0.0009	16:48:47	Yes
2	0.00015	0.00015	0.0017	0.0300	0.0018	16:49:31	Yes
3	0.00015	0.00015	0.0017	0.0300	0.0018	16:50:15	Yes
Mean:	0.00013	0.00013	0.0014				
SD:	0.00003	0.00003	0.0005				
%RSD:	24.37	24.37	36.85				

==========

Sequence No.: 136 **Autosampler Location: 49**
Sample ID: L729561-04 WG751135 **Date Collected: 10/28/2014 4:50:40 PM**
Analyst: 628 **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol: 30 mL**
Dilution: **Sample Prep Vol: 30 mL**

Replicate Data: L729561-04 WG751135

Repl #	SampleConc mg/L	StndConc mg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.00016	0.00016	0.0019	0.0236	0.0020	16:51:45	Yes
2	0.00022	0.00022	0.0029	0.0418	0.0030	16:52:29	Yes
3	0.00022	0.00022	0.0029	0.0418	0.0030	16:53:12	Yes
Mean:	0.00020	0.00020	0.0026				
SD:	0.00003	0.00003	0.0006				
%RSD:	17.02	17.02	21.83				

==========

Sequence No.: 137 **Autosampler Location: 50**
Sample ID: L729561-06 WG751135 **Date Collected: 10/28/2014 4:53:37 PM**
Analyst: 628 **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol: 15 mL**
Dilution: **Sample Prep Vol: 30 mL**

Replicate Data: L729561-06 WG751135

Repl #	SampleConc mg/L	StndConc mg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.00041	0.00021	0.0027	0.0314	0.0028	16:54:41	Yes
2	0.00052	0.00026	0.0036	0.0491	0.0037	16:55:25	Yes
3	0.00051	0.00025	0.0035	0.0479	0.0036	16:56:09	Yes
Mean:	0.00048	0.00024	0.0032				
SD:	0.00006	0.00003	0.0005				
%RSD:	12.05	12.05	14.77				

==========

Sequence No.: 138 **Autosampler Location: 51**
Sample ID: L729798-02 WG751135 **Date Collected: 10/28/2014 4:56:34 PM**
Analyst: 628 **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol: 30 mL**
Dilution: **Sample Prep Vol: 30 mL**

Replicate Data: L729798-02 WG751135

Repl #	SampleConc mg/L	StndConc mg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.00008	0.00008	0.0006	0.0092	0.0007	16:57:38	Yes
2	0.00013	0.00013	0.0015	0.0283	0.0016	16:58:22	Yes
3	0.00014	0.00014	0.0016	0.0302	0.0017	16:59:06	Yes
Mean:	0.00012	0.00012	0.0012				
SD:	0.00003	0.00003	0.0005				
%RSD:	28.16	28.16	45.13				

==========

Sequence No.: 139 **Autosampler Location: 52**
Sample ID: L729798-04 WG751135 **Date Collected: 10/28/2014 4:59:30 PM**
Analyst: 628 **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol: 30 mL**

Dilution: **Sample Prep Vol: 30 mL**

Replicate Data: L729798-04 WG751135

Repl #	SampleConc mg/L	StndConc mg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.00009	0.00009	0.0008	0.0115	0.0009	17:00:35	Yes
2	0.00015	0.00015	0.0018	0.0316	0.0019	17:01:19	Yes
3	0.00015	0.00015	0.0018	0.0313	0.0019	17:02:02	Yes
Mean:	0.00013	0.00013	0.0015				
SD:	0.00003	0.00003	0.0005				
%RSD:	24.89	24.89	37.28				

==========

Sequence No.: 140 **Autosampler Location: 53**
Sample ID: L729798-06 WG751135 **Date Collected: 10/28/2014 5:02:26 PM**
Analyst: 628 **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol: 30 mL**
Dilution: **Sample Prep Vol: 30 mL**

Replicate Data: L729798-06 WG751135

Repl #	SampleConc mg/L	StndConc mg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.00015	0.00015	0.0018	0.0224	0.0019	17:03:31	Yes
2	0.00020	0.00020	0.0025	0.0376	0.0026	17:04:14	Yes
3	0.00020	0.00020	0.0025	0.0378	0.0026	17:04:58	Yes
Mean:	0.00018	0.00018	0.0023				
SD:	0.00002	0.00002	0.0004				
%RSD:	13.11	13.11	17.31				

==========

Sequence No.: 141 **Autosampler Location: 54**
Sample ID: L729942-01 WG751135 **Date Collected: 10/28/2014 5:05:23 PM**
Analyst: 628 **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol: 30 mL**
Dilution: **Sample Prep Vol: 30 mL**

Replicate Data: L729942-01 WG751135

Repl #	SampleConc mg/L	StndConc mg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.00025	0.00025	0.0034	0.0350	0.0035	17:06:27	Yes
2	0.00030	0.00030	0.0042	0.0519	0.0043	17:07:11	Yes
3	0.00031	0.00031	0.0044	0.0570	0.0045	17:07:55	Yes
Mean:	0.00029	0.00029	0.0040				
SD:	0.00003	0.00003	0.0005				
%RSD:	10.64	10.64	12.58				

==========

Sequence No.: 142 **Autosampler Location: 55**
Sample ID: L729942-03 WG751135 **Date Collected: 10/28/2014 5:08:19 PM**
Analyst: 628 **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol: 30 mL**
Dilution: **Sample Prep Vol: 30 mL**

Replicate Data: L729942-03 WG751135

Repl #	SampleConc mg/L	StndConc mg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.00018	0.00018	0.0022	0.0247	0.0023	17:09:24	Yes
2	0.00023	0.00023	0.0031	0.0434	0.0032	17:10:08	Yes
3	0.00023	0.00023	0.0030	0.0424	0.0031	17:10:51	Yes
Mean:	0.00021	0.00021	0.0028				
SD:	0.00003	0.00003	0.0005				
%RSD:	13.85	13.85	17.50				

==========

Sequence No.: 143 **Autosampler Location: 8**
Sample ID: CCV 14J09762 **Date Collected: 10/28/2014 5:11:16 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**

Dilution: **Sample Prep Vol:**

Replicate Data: CCV 14J09762

Repl #	SampleConc mg/L	StndConc mg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.00244	0.00244	0.0396	0.3714	0.0397	17:12:20	Yes
2	0.00250	0.00250	0.0405	0.3945	0.0406	17:13:04	Yes
3	0.00249	0.00249	0.0403	0.3943	0.0404	17:13:48	Yes
Mean:	0.00248	0.00248	0.0401				
SD:	0.00003	0.00003	0.0005				
%RSD:	1.193	1.193	1.21				

QC value within limits for Hg 253.7 Recovery = 99.01%
All analyte(s) passed QC.

Sequence No.: 144 **Autosampler Location: 1**
Sample ID: CCB **Date Collected: 10/28/2014 5:14:12 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: CCB

Repl #	SampleConc mg/L	StndConc mg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.00005	0.00005	0.0001	0.0044	0.0002	17:15:15	Yes
2	0.00011	0.00011	0.0010	0.0234	0.0011	17:15:59	Yes
3	0.00009	0.00009	0.0008	0.0180	0.0009	17:16:43	Yes
Mean:	0.00008	0.00008	0.0007				
SD:	0.00003	0.00003	0.0005				
%RSD:	33.29	33.29	70.45				

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

Sequence No.: 145 **Autosampler Location: 56**
Sample ID: L729942-05 WG751135 **Date Collected: 10/28/2014 5:17:07 PM**
Analyst: 628 **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol: 30 mL**
Dilution: **Sample Prep Vol: 30 mL**

Replicate Data: L729942-05 WG751135

Repl #	SampleConc mg/L	StndConc mg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.00134	0.00134	0.0214	0.2021	0.0215	17:18:11	Yes
2	0.00136	0.00136	0.0217	0.2164	0.0218	17:18:55	Yes
3	0.00137	0.00137	0.0218	0.2168	0.0220	17:19:39	Yes
Mean:	0.00135	0.00135	0.0216				
SD:	0.00002	0.00002	0.0002				
%RSD:	1.108	1.108	1.15				

Sequence No.: 146 **Autosampler Location: 57**
Sample ID: L729942-07 WG751135 **Date Collected: 10/28/2014 5:20:03 PM**
Analyst: 628 **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol: 30 mL**
Dilution: **Sample Prep Vol: 30 mL**

Replicate Data: L729942-07 WG751135

Repl #	SampleConc mg/L	StndConc mg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.00076	0.00076	0.0119	0.1131	0.0120	17:21:07	Yes
2	0.00082	0.00082	0.0129	0.1341	0.0130	17:21:51	Yes
3	0.00082	0.00082	0.0128	0.1348	0.0129	17:22:35	Yes
Mean:	0.00080	0.00080	0.0125				
SD:	0.00003	0.00003	0.0006				
%RSD:	4.181	4.181	4.42				

Sequence No.: 147
Sample ID: L729942-09 WG751135
Analyst: 628
Initial Sample Wt:
Dilution:
Autosampler Location: 58
Date Collected: 10/28/2014 5:22:59 PM
Data Type: Original
Initial Sample Vol: 30 mL
Sample Prep Vol: 30 mL

Replicate Data: L729942-09 WG751135

Repl #	SampleConc mg/L	StndConc mg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.00014	0.00014	0.0016	0.0172	0.0017	17:24:04	Yes
2	0.00019	0.00019	0.0025	0.0379	0.0026	17:24:47	Yes
3	0.00019	0.00019	0.0024	0.0336	0.0025	17:25:31	Yes
Mean:	0.00017	0.00017	0.0021				
SD:	0.00003	0.00003	0.0005				
%RSD:	16.68	16.68	22.38				

Sequence No.: 148
Sample ID: L729946-01 WG751135
Analyst: 628
Initial Sample Wt:
Dilution:
Autosampler Location: 59
Date Collected: 10/28/2014 5:25:55 PM
Data Type: Original
Initial Sample Vol: 30 mL
Sample Prep Vol: 30 mL

Replicate Data: L729946-01 WG751135

Repl #	SampleConc mg/L	StndConc mg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.00006	0.00006	0.0002	0.0050	0.0003	17:27:00	Yes
2	0.00010	0.00010	0.0009	0.0229	0.0011	17:27:44	Yes
3	0.00010	0.00010	0.0009	0.0222	0.0010	17:28:28	Yes
Mean:	0.00009	0.00009	0.0007				
SD:	0.00003	0.00003	0.0004				
%RSD:	30.84	30.84	63.49				

Sequence No.: 149
Sample ID: L729946-02 WG751135
Analyst: 628
Initial Sample Wt:
Dilution:
Autosampler Location: 60
Date Collected: 10/28/2014 5:28:53 PM
Data Type: Original
Initial Sample Vol: 30 mL
Sample Prep Vol: 30 mL

Replicate Data: L729946-02 WG751135

Repl #	SampleConc mg/L	StndConc mg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.00005	0.00005	0.0001	0.0043	0.0002	17:29:58	Yes
2	0.00010	0.00010	0.0009	0.0186	0.0010	17:30:41	Yes
3	0.00011	0.00011	0.0010	0.0237	0.0011	17:31:25	Yes
Mean:	0.00008	0.00008	0.0007				
SD:	0.00003	0.00003	0.0005				
%RSD:	34.25	34.25	71.77				

Sequence No.: 150
Sample ID: L729946-03 WG751135
Analyst: 628
Initial Sample Wt:
Dilution:
Autosampler Location: 61
Date Collected: 10/28/2014 5:31:50 PM
Data Type: Original
Initial Sample Vol: 30 mL
Sample Prep Vol: 30 mL

Replicate Data: L729946-03 WG751135

Repl #	SampleConc mg/L	StndConc mg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.00005	0.00005	0.0002	0.0052	0.0003	17:32:55	Yes
2	0.00011	0.00011	0.0011	0.0245	0.0012	17:33:39	Yes
3	0.00010	0.00010	0.0010	0.0232	0.0011	17:34:23	Yes
Mean:	0.00009	0.00009	0.0007				
SD:	0.00003	0.00003	0.0005				
%RSD:	34.19	34.19	68.33				

Sequence No.: 151 **Autosampler Location: 62**
Sample ID: L729946-04 WG751135 **Date Collected: 10/28/2014 5:34:48 PM**
Analyst: 628 **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol: 30 mL**
Dilution: **Sample Prep Vol: 30 mL**

Replicate Data: L729946-04 WG751135

Repl #	SampleConc mg/L	StndConc mg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.00006	0.00006	0.0002	0.0055	0.0003	17:35:53	Yes
2	0.00009	0.00009	0.0008	0.0190	0.0009	17:36:37	Yes
3	0.00011	0.00011	0.0010	0.0235	0.0011	17:37:21	Yes
Mean:	0.00009	0.00009	0.0007				
SD:	0.00003	0.00003	0.0004				
%RSD:	31.40	31.40	65.07				

==========

Sequence No.: 152 **Autosampler Location: 63**
Sample ID: L729946-05 WG751135 **Date Collected: 10/28/2014 5:37:45 PM**
Analyst: 628 **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol: 30 mL**
Dilution: **Sample Prep Vol: 30 mL**

Replicate Data: L729946-05 WG751135

Repl #	SampleConc mg/L	StndConc mg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.00005	0.00005	0.0001	0.0024	0.0002	17:38:50	Yes
2	0.00011	0.00011	0.0011	0.0248	0.0012	17:39:34	Yes
3	0.00010	0.00010	0.0009	0.0193	0.0010	17:40:18	Yes
Mean:	0.00009	0.00009	0.0007				
SD:	0.00003	0.00003	0.0005				
%RSD:	35.56	35.56	71.84				

==========

Sequence No.: 153 **Autosampler Location: 64**
Sample ID: L729946-06 WG751135 **Date Collected: 10/28/2014 5:40:43 PM**
Analyst: 628 **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol: 30 mL**
Dilution: **Sample Prep Vol: 30 mL**

Replicate Data: L729946-06 WG751135

Repl #	SampleConc mg/L	StndConc mg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.00005	0.00005	0.0001	0.0048	0.0002	17:41:47	Yes
2	0.00010	0.00010	0.0009	0.0221	0.0010	17:42:31	Yes
3	0.00009	0.00009	0.0008	0.0190	0.0009	17:43:15	Yes
Mean:	0.00008	0.00008	0.0006				
SD:	0.00003	0.00003	0.0004				
%RSD:	31.09	31.09	67.41				

==========

Sequence No.: 154 **Autosampler Location: 65**
Sample ID: L729946-07 WG751135 **Date Collected: 10/28/2014 5:43:40 PM**
Analyst: 628 **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol: 30 mL**
Dilution: **Sample Prep Vol: 30 mL**

Replicate Data: L729946-07 WG751135

Repl #	SampleConc mg/L	StndConc mg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.00005	0.00005	0.0001	0.0031	0.0002	17:44:44	Yes
2	0.00009	0.00009	0.0008	0.0199	0.0009	17:45:28	Yes
3	0.00010	0.00010	0.0010	0.0228	0.0011	17:46:12	Yes
Mean:	0.00008	0.00008	0.0006				
SD:	0.00003	0.00003	0.0005				
%RSD:	36.60	36.60	80.22				

==========

Sequence No.: 155 **Autosampler Location: 66**
Sample ID: INSTBLK WG751135 **Date Collected: 10/28/2014 5:46:37 PM**
Analyst: 628 **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol: 30 mL**
Dilution: **Sample Prep Vol: 30 mL**

Replicate Data: INSTBLK WG751135

Repl #	SampleConc mg/L	StndConc mg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.00005	0.00005	0.0002	0.0047	0.0003	17:47:41	Yes
2	0.00010	0.00010	0.0010	0.0209	0.0011	17:48:25	Yes
3	0.00011	0.00011	0.0012	0.0246	0.0013	17:49:09	Yes
Mean:	0.00009	0.00009	0.0008				
SD:	0.00003	0.00003	0.0005				
%RSD:	34.86	34.86	68.13				

==========

Sequence No.: 156 **Autosampler Location: 8**
Sample ID: CCV 14J09762 **Date Collected: 10/28/2014 5:49:34 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: CCV 14J09762

Repl #	SampleConc mg/L	StndConc mg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.00239	0.00239	0.0387	0.3783	0.0388	17:50:38	Yes
2	0.00245	0.00245	0.0397	0.3952	0.0398	17:51:22	Yes
3	0.00248	0.00248	0.0401	0.3955	0.0402	17:52:06	Yes
Mean:	0.00244	0.00244	0.0395				
SD:	0.00004	0.00004	0.0007				
%RSD:	1.787	1.787	1.82				

QC value within limits for Hg 253.7 Recovery = 97.52%
All analyte(s) passed QC.

==========

Sequence No.: 157 **Autosampler Location: 1**
Sample ID: CCB **Date Collected: 10/28/2014 5:52:30 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: CCB

Repl #	SampleConc mg/L	StndConc mg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.00005	0.00005	0.0002	0.0045	0.0003	17:53:34	Yes
2	0.00009	0.00009	0.0008	0.0191	0.0009	17:54:18	Yes
3	0.00011	0.00011	0.0011	0.0244	0.0012	17:55:01	Yes
Mean:	0.00009	0.00009	0.0007				
SD:	0.00003	0.00003	0.0005				
%RSD:	33.38	33.38	68.92				

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

==========

Sequence No.: 158 **Autosampler Location: 67**
Sample ID: BLANK WG751136 **Date Collected: 10/28/2014 5:55:24 PM**
Analyst: 628 **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol: 30 mL**
Dilution: **Sample Prep Vol: 30 mL**

Replicate Data: BLANK WG751136

Repl #	SampleConc mg/L	StndConc mg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.00006	0.00006	0.0002	0.0057	0.0003	17:56:29	Yes
2	0.00010	0.00010	0.0010	0.0229	0.0011	17:57:13	Yes
3	0.00010	0.00010	0.0009	0.0175	0.0010	17:57:56	Yes
Mean:	0.00009	0.00009	0.0007				

SD:	0.00003	0.00003	0.0004
%RSD:	30.57	30.57	63.35

==========

Sequence No.: 159 **Autosampler Location: 68**
Sample ID: LCS WG751136 **Date Collected: 10/28/2014 5:58:21 PM**
Analyst: 628 **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol: 30 mL**
Dilution: **Sample Prep Vol: 30 mL**

Replicate Data: LCS WG751136

Repl #	SampleConc mg/L	StndConc mg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.00283	0.00283	0.0461	0.4481	0.0462	17:59:25	Yes
2	0.00279	0.00279	0.0453	0.4441	0.0454	18:00:09	Yes
3	0.00279	0.00279	0.0452	0.4478	0.0453	18:00:53	Yes
Mean:	0.00280	0.00280	0.0455				
SD:	0.00003	0.00003	0.0005				
%RSD:	0.9815	0.9815	1.00				

==========

Sequence No.: 160 **Autosampler Location: 69**
Sample ID: LCSD WG751136 **Date Collected: 10/28/2014 6:01:18 PM**
Analyst: 628 **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol: 30 mL**
Dilution: **Sample Prep Vol: 30 mL**

Replicate Data: LCSD WG751136

Repl #	SampleConc mg/L	StndConc mg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.00291	0.00291	0.0473	0.4594	0.0474	18:02:22	Yes
2	0.00290	0.00290	0.0471	0.4675	0.0472	18:03:06	Yes
3	0.00292	0.00292	0.0474	0.4698	0.0475	18:03:50	Yes
Mean:	0.00291	0.00291	0.0472				
SD:	0.00001	0.00001	0.0002				
%RSD:	0.3306	0.3306	0.34				

==========

Sequence No.: 161 **Autosampler Location: 70**
Sample ID: L729800-02 WG751136 **Date Collected: 10/28/2014 6:04:14 PM**
Analyst: 628 **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol: 30 mL**
Dilution: **Sample Prep Vol: 30 mL**

Replicate Data: L729800-02 WG751136

Repl #	SampleConc mg/L	StndConc mg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.00006	0.00006	0.0003	0.0069	0.0004	18:05:19	Yes
2	0.00010	0.00010	0.0009	0.0221	0.0010	18:06:03	Yes
3	0.00009	0.00009	0.0008	0.0161	0.0009	18:06:47	Yes
Mean:	0.00008	0.00008	0.0007				
SD:	0.00002	0.00002	0.0004				
%RSD:	25.93	25.93	54.55				

==========

Sequence No.: 162 **Autosampler Location: 71**
Sample ID: MS WG751136 L729800-02 **Date Collected: 10/28/2014 6:07:11 PM**
Analyst: 628 **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol: 30 mL**
Dilution: **Sample Prep Vol: 30 mL**

Replicate Data: MS WG751136 L729800-02

Repl #	SampleConc mg/L	StndConc mg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.00246	0.00246	0.0399	0.3923	0.0400	18:08:15	Yes
2	0.00249	0.00249	0.0403	0.4090	0.0404	18:08:59	Yes
3	0.00248	0.00248	0.0402	0.4047	0.0403	18:09:43	Yes
Mean:	0.00248	0.00248	0.0401				

SD:	0.00001	0.00001	0.0002
%RSD:	0.5014	0.5014	0.51

==========

Sequence No.: 163 **Autosampler Location: 72**
Sample ID: MSD WG751136 L729800-02 **Date Collected: 10/28/2014 6:10:08 PM**
Analyst: 628 **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol: 30 mL**
Dilution: **Sample Prep Vol: 30 mL**

Replicate Data: MSD WG751136 L729800-02

Repl #	SampleConc mg/L	StndConc mg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.00232	0.00232	0.0375	0.3744	0.0376	18:11:13	Yes
2	0.00237	0.00237	0.0384	0.3945	0.0385	18:11:57	Yes
3	0.00237	0.00237	0.0383	0.3913	0.0384	18:12:41	Yes
Mean:	0.00235	0.00235	0.0381				
SD:	0.00003	0.00003	0.0005				
%RSD:	1.290	1.290	1.32				

==========

Sequence No.: 164 **Autosampler Location: 73**
Sample ID: SD WG751136 L729800-02 **Date Collected: 10/28/2014 6:13:06 PM**
Analyst: 628 **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol: 30 mL**
Dilution: 5X **Sample Prep Vol: 30 mL**

Replicate Data: SD WG751136 L729800-02

Repl #	SampleConc mg/L	StndConc mg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.00029	0.00006	0.0002	0.0062	0.0003	18:14:11	Yes
2	0.00051	0.00010	0.0009	0.0206	0.0010	18:14:55	Yes
3	0.00050	0.00010	0.0009	0.0219	0.0010	18:15:38	Yes
Mean:	0.00043	0.00009	0.0007				
SD:	0.00013	0.00003	0.0004				
%RSD:	28.99	28.99	59.31				

==========

Sequence No.: 165 **Autosampler Location: 74**
Sample ID: L729373-01 WG751136 **Date Collected: 10/28/2014 6:16:04 PM**
Analyst: 628 **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol: 30 mL**
Dilution: **Sample Prep Vol: 30 mL**

Replicate Data: L729373-01 WG751136

Repl #	SampleConc mg/L	StndConc mg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.00006	0.00006	0.0002	0.0063	0.0003	18:17:08	Yes
2	0.00009	0.00009	0.0007	0.0164	0.0008	18:17:52	Yes
3	0.00010	0.00010	0.0010	0.0233	0.0011	18:18:36	Yes
Mean:	0.00008	0.00008	0.0006				
SD:	0.00002	0.00002	0.0004				
%RSD:	29.48	29.48	63.25				

==========

Sequence No.: 166 **Autosampler Location: 75**
Sample ID: L729373-02 WG751136 **Date Collected: 10/28/2014 6:19:01 PM**
Analyst: 628 **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol: 30 mL**
Dilution: **Sample Prep Vol: 30 mL**

Replicate Data: L729373-02 WG751136

Repl #	SampleConc mg/L	StndConc mg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.00005	0.00005	0.0001	0.0031	0.0003	18:20:05	Yes
2	0.00011	0.00011	0.0011	0.0253	0.0012	18:20:49	Yes
3	0.00010	0.00010	0.0009	0.0222	0.0010	18:21:33	Yes
Mean:	0.00009	0.00009	0.0007				

SD:	0.00003	0.00003	0.0005
%RSD:	35.37	35.37	70.66

==========

Sequence No.: 167 **Autosampler Location: 76**
Sample ID: L729373-03 WG751136 **Date Collected: 10/28/2014 6:21:58 PM**
Analyst: 628 **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol: 30 mL**
Dilution: **Sample Prep Vol: 30 mL**

Replicate Data: L729373-03 WG751136

Repl #	SampleConc mg/L	StndConc mg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.00005	0.00005	0.0001	0.0048	0.0003	18:23:03	Yes
2	0.00010	0.00010	0.0009	0.0209	0.0010	18:23:47	Yes
3	0.00010	0.00010	0.0009	0.0214	0.0010	18:24:30	Yes
Mean:	0.00008	0.00008	0.0006				
SD:	0.00003	0.00003	0.0004				
%RSD:	31.42	31.42	67.04				

==========

Sequence No.: 168 **Autosampler Location: 77**
Sample ID: L729798-01 WG751136 **Date Collected: 10/28/2014 6:24:55 PM**
Analyst: 628 **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol: 30 mL**
Dilution: **Sample Prep Vol: 30 mL**

Replicate Data: L729798-01 WG751136

Repl #	SampleConc mg/L	StndConc mg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.00006	0.00006	0.0003	0.0060	0.0004	18:26:00	Yes
2	0.00010	0.00010	0.0009	0.0203	0.0010	18:26:44	Yes
3	0.00009	0.00009	0.0007	0.0171	0.0009	18:27:28	Yes
Mean:	0.00008	0.00008	0.0006				
SD:	0.00002	0.00002	0.0003				
%RSD:	24.17	24.17	52.09				

==========

Sequence No.: 169 **Autosampler Location: 78**
Sample ID: L729798-03 WG751136 **Date Collected: 10/28/2014 6:27:53 PM**
Analyst: 628 **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol: 30 mL**
Dilution: **Sample Prep Vol: 30 mL**

Replicate Data: L729798-03 WG751136

Repl #	SampleConc mg/L	StndConc mg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.00005	0.00005	0.0001	0.0022	0.0002	18:28:58	Yes
2	0.00010	0.00010	0.0010	0.0225	0.0011	18:29:42	Yes
3	0.00010	0.00010	0.0010	0.0209	0.0011	18:30:25	Yes
Mean:	0.00009	0.00009	0.0007				
SD:	0.00003	0.00003	0.0005				
%RSD:	34.86	34.86	72.16				

==========

Sequence No.: 170 **Autosampler Location: 79**
Sample ID: L729798-05 WG751136 **Date Collected: 10/28/2014 6:30:50 PM**
Analyst: 628 **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol: 30 mL**
Dilution: **Sample Prep Vol: 30 mL**

Replicate Data: L729798-05 WG751136

Repl #	SampleConc mg/L	StndConc mg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.00005	0.00005	0.0002	0.0045	0.0003	18:31:55	Yes
2	0.00010	0.00010	0.0009	0.0210	0.0010	18:32:38	Yes
3	0.00012	0.00012	0.0012	0.0262	0.0013	18:33:22	Yes
Mean:	0.00009	0.00009	0.0008				

SD:	0.00003	0.00003	0.0005
%RSD:	36.11	36.11	70.70

==========

Sequence No.: 171 **Autosampler Location: 80**
Sample ID: L729807-01 WG751136 **Date Collected: 10/28/2014 6:33:47 PM**
Analyst: 628 **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol: 30 mL**
Dilution: **Sample Prep Vol: 30 mL**

Replicate Data: L729807-01 WG751136

Repl #	SampleConc mg/L	StndConc mg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.00005	0.00005	0.0001	0.0046	0.0002	18:34:51	Yes
2	0.00010	0.00010	0.0010	0.0225	0.0011	18:35:35	Yes
3	0.00010	0.00010	0.0009	0.0208	0.0010	18:36:19	Yes
Mean:	0.00009	0.00009	0.0007				
SD:	0.00003	0.00003	0.0005				
%RSD:	33.24	33.24	69.07				

==========

Sequence No.: 172 **Autosampler Location: 81**
Sample ID: L729807-02 WG751136 **Date Collected: 10/28/2014 6:36:43 PM**
Analyst: 628 **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol: 30 mL**
Dilution: **Sample Prep Vol: 30 mL**

Replicate Data: L729807-02 WG751136

Repl #	SampleConc mg/L	StndConc mg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.00005	0.00005	0.0001	0.0017	0.0002	18:37:48	Yes
2	0.00011	0.00011	0.0011	0.0233	0.0012	18:38:32	Yes
3	0.00010	0.00010	0.0010	0.0231	0.0011	18:39:16	Yes
Mean:	0.00009	0.00009	0.0007				
SD:	0.00003	0.00003	0.0005				
%RSD:	36.88	36.88	74.81				

==========

Sequence No.: 173 **Autosampler Location: 82**
Sample ID: L729807-03 WG751136 **Date Collected: 10/28/2014 6:39:40 PM**
Analyst: 628 **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol: 30 mL**
Dilution: **Sample Prep Vol: 30 mL**

Replicate Data: L729807-03 WG751136

Repl #	SampleConc mg/L	StndConc mg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.00005	0.00005	0.0001	0.0024	0.0002	18:40:45	Yes
2	0.00010	0.00010	0.0008	0.0191	0.0010	18:41:28	Yes
3	0.00010	0.00010	0.0009	0.0210	0.0010	18:42:12	Yes
Mean:	0.00008	0.00008	0.0006				
SD:	0.00003	0.00003	0.0005				
%RSD:	33.14	33.14	71.39				

==========

Sequence No.: 174 **Autosampler Location: 8**
Sample ID: CCV 14J09762 **Date Collected: 10/28/2014 6:42:37 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: CCV 14J09762

Repl #	SampleConc mg/L	StndConc mg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.00238	0.00238	0.0386	0.3845	0.0387	18:43:41	Yes
2	0.00243	0.00243	0.0394	0.3962	0.0395	18:44:25	Yes
3	0.00243	0.00243	0.0393	0.3958	0.0394	18:45:09	Yes
Mean:	0.00241	0.00241	0.0391				

SD:	0.00003	0.00003	0.0004
%RSD:	1.124	1.124	1.15

QC value within limits for Hg 253.7 Recovery = 96.50%
All analyte(s) passed QC.

==========

Sequence No.: 175 **Autosampler Location: 1**
Sample ID: CCB **Date Collected: 10/28/2014 6:45:33 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: CCB

Repl #	SampleConc mg/L	StndConc mg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.00005	0.00005	0.0000	-0.0003	0.0002	18:46:36	Yes
2	0.00010	0.00010	0.0010	0.0229	0.0011	18:47:21	Yes
3	0.00010	0.00010	0.0009	0.0212	0.0010	18:48:04	Yes
Mean:	0.00008	0.00008	0.0006				
SD:	0.00003	0.00003	0.0005				
%RSD:	38.02	38.02	80.91				

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

==========

Sequence No.: 176 **Autosampler Location: 83**
Sample ID: L729807-04 WG751136 **Date Collected: 10/28/2014 6:48:28 PM**
Analyst: 628 **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol: 30 mL**
Dilution: **Sample Prep Vol: 30 mL**

Replicate Data: L729807-04 WG751136

Repl #	SampleConc mg/L	StndConc mg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.00005	0.00005	0.0002	0.0048	0.0003	18:49:33	Yes
2	0.00010	0.00010	0.0009	0.0206	0.0010	18:50:17	Yes
3	0.00010	0.00010	0.0010	0.0226	0.0011	18:51:00	Yes
Mean:	0.00009	0.00009	0.0007				
SD:	0.00003	0.00003	0.0004				
%RSD:	31.60	31.60	64.88				

==========

Sequence No.: 177 **Autosampler Location: 84**
Sample ID: L729807-05 WG751136 **Date Collected: 10/28/2014 6:51:25 PM**
Analyst: 628 **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol: 30 mL**
Dilution: **Sample Prep Vol: 30 mL**

Replicate Data: L729807-05 WG751136

Repl #	SampleConc mg/L	StndConc mg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.00005	0.00005	0.0002	0.0051	0.0003	18:52:30	Yes
2	0.00010	0.00010	0.0010	0.0215	0.0011	18:53:14	Yes
3	0.00010	0.00010	0.0008	0.0180	0.0009	18:53:58	Yes
Mean:	0.00008	0.00008	0.0007				
SD:	0.00003	0.00003	0.0004				
%RSD:	31.15	31.15	65.10				

==========

Sequence No.: 178 **Autosampler Location: 85**
Sample ID: L729807-06 WG751136 **Date Collected: 10/28/2014 6:54:23 PM**
Analyst: 628 **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol: 30 mL**
Dilution: **Sample Prep Vol: 30 mL**

Replicate Data: L729807-06 WG751136

Repl #	SampleConc mg/L	StndConc mg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored

1	0.00005	0.00005	0.0002	0.0051	0.0003	18:55:28	Yes
2	0.00010	0.00010	0.0009	0.0189	0.0010	18:56:12	Yes
3	0.00010	0.00010	0.0009	0.0213	0.0010	18:56:55	Yes
Mean:	0.00008	0.00008	0.0006				
SD:	0.00002	0.00002	0.0004				
%RSD:	29.78	29.78	63.16				

==========

Sequence No.: 179 **Autosampler Location: 86**
Sample ID: L729807-07 WG751136 **Date Collected: 10/28/2014 6:57:21 PM**
Analyst: 628 **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol: 30 mL**
Dilution: **Sample Prep Vol: 30 mL**

Replicate Data: L729807-07 WG751136

Repl #	SampleConc mg/L	StndConc mg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.00005	0.00005	0.0002	0.0052	0.0003	18:58:25	Yes
2	0.00009	0.00009	0.0008	0.0188	0.0009	18:59:09	Yes
3	0.00010	0.00010	0.0010	0.0223	0.0011	18:59:53	Yes
Mean:	0.00008	0.00008	0.0007				
SD:	0.00003	0.00003	0.0004				
%RSD:	30.24	30.24	64.11				

==========

Sequence No.: 180 **Autosampler Location: 87**
Sample ID: L729807-08 WG751136 **Date Collected: 10/28/2014 7:00:18 PM**
Analyst: 628 **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol: 30 mL**
Dilution: **Sample Prep Vol: 30 mL**

Replicate Data: L729807-08 WG751136

Repl #	SampleConc mg/L	StndConc mg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.00006	0.00006	0.0003	0.0079	0.0004	19:01:22	Yes
2	0.00010	0.00010	0.0009	0.0212	0.0010	19:02:06	Yes
3	0.00010	0.00010	0.0008	0.0200	0.0010	19:02:50	Yes
Mean:	0.00009	0.00009	0.0007				
SD:	0.00002	0.00002	0.0003				
%RSD:	23.09	23.09	47.58				

==========

Sequence No.: 181 **Autosampler Location: 88**
Sample ID: INSTBLK WG751136 **Date Collected: 10/28/2014 7:03:14 PM**
Analyst: 628 **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol: 30 mL**
Dilution: **Sample Prep Vol: 30 mL**

Replicate Data: INSTBLK WG751136

Repl #	SampleConc mg/L	StndConc mg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.00005	0.00005	0.0002	0.0050	0.0003	19:04:19	Yes
2	0.00010	0.00010	0.0009	0.0208	0.0010	19:05:03	Yes
3	0.00009	0.00009	0.0008	0.0179	0.0009	19:05:47	Yes
Mean:	0.00008	0.00008	0.0006				
SD:	0.00002	0.00002	0.0004				
%RSD:	28.45	28.45	63.10				

==========

Sequence No.: 182 **Autosampler Location: 89**
Sample ID: BLANK WG751227 **Date Collected: 10/28/2014 7:06:11 PM**
Analyst: 628 **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol: 3 mL**
Dilution: **Sample Prep Vol: 30 mL**

Replicate Data: BLANK WG751227

Repl #	SampleConc mg/L	StndConc mg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored

1	0.00054	0.00005	0.0002	0.0047	0.0003	19:07:16	Yes
2	0.00100	0.00010	0.0009	0.0217	0.0010	19:08:00	Yes
3	0.00099	0.00010	0.0009	0.0213	0.0010	19:08:44	Yes
Mean:	0.00084	0.00008	0.0007				
SD:	0.00027	0.00003	0.0004				
%RSD:	31.43	31.43	65.98				

==========

Sequence No.: 183 **Autosampler Location: 90**
Sample ID: LCS WG751227 **Date Collected: 10/28/2014 7:09:09 PM**
Analyst: 628 **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol: 3 mL**
Dilution: **Sample Prep Vol: 30 mL**

Replicate Data: LCS WG751227

Repl #	SampleConc mg/L	StndConc mg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.02658	0.00266	0.0431	0.4295	0.0432	19:10:14	Yes
2	0.02675	0.00267	0.0434	0.4412	0.0435	19:10:58	Yes
3	0.02685	0.00269	0.0436	0.4457	0.0437	19:11:42	Yes
Mean:	0.02673	0.00267	0.0434				
SD:	0.00014	0.00001	0.0002				
%RSD:	0.5139	0.5139	0.52				

==========

Sequence No.: 184 **Autosampler Location: 91**
Sample ID: LCSD WG751227 **Date Collected: 10/28/2014 7:12:07 PM**
Analyst: 628 **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol: 3 mL**
Dilution: **Sample Prep Vol: 30 mL**

Replicate Data: LCSD WG751227

Repl #	SampleConc mg/L	StndConc mg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.02659	0.00266	0.0432	0.4292	0.0433	19:13:11	Yes
2	0.02669	0.00267	0.0433	0.4398	0.0434	19:13:55	Yes
3	0.02668	0.00267	0.0433	0.4399	0.0434	19:14:39	Yes
Mean:	0.02666	0.00267	0.0433				
SD:	0.00006	0.00001	0.0001				
%RSD:	0.2086	0.2086	0.21				

==========

Sequence No.: 185 **Autosampler Location: 92**
Sample ID: L729689-01 WG751227 **Date Collected: 10/28/2014 7:15:04 PM**
Analyst: 628 **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol: 3 mL**
Dilution: **Sample Prep Vol: 30 mL**

Replicate Data: L729689-01 WG751227

Repl #	SampleConc mg/L	StndConc mg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.00053	0.00005	0.0001	0.0032	0.0003	19:16:08	Yes
2	0.00100	0.00010	0.0009	0.0201	0.0010	19:16:52	Yes
3	0.00096	0.00010	0.0009	0.0200	0.0010	19:17:36	Yes
Mean:	0.00083	0.00008	0.0006				
SD:	0.00026	0.00003	0.0004				
%RSD:	31.24	31.24	66.73				

==========

Sequence No.: 186 **Autosampler Location: 93**
Sample ID: MS WG751227 L729689-01 **Date Collected: 10/28/2014 7:18:00 PM**
Analyst: 628 **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol: 3 mL**
Dilution: **Sample Prep Vol: 30 mL**

Replicate Data: MS WG751227 L729689-01

Repl #	SampleConc mg/L	StndConc mg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored

1	0.02744	0.00274	0.0445	0.4438	0.0447	19:19:05	Yes
2	0.02766	0.00277	0.0449	0.4561	0.0450	19:19:49	Yes
3	0.02722	0.00272	0.0442	0.4503	0.0443	19:20:33	Yes
Mean:	0.02744	0.00274	0.0445				
SD:	0.00022	0.00002	0.0004				
%RSD:	0.7947	0.7947	0.81				

==========

Sequence No.: 187 **Autosampler Location: 94**
Sample ID: MSD WG751227 L729689-01 **Date Collected: 10/28/2014 7:20:58 PM**
Analyst: 628 **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol: 3 mL**
Dilution: **Sample Prep Vol: 30 mL**

Replicate Data: MSD WG751227 L729689-01

Repl #	SampleConc mg/L	StndConc mg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.02818	0.00282	0.0458	0.4537	0.0459	19:22:03	Yes
2	0.02813	0.00281	0.0457	0.4688	0.0458	19:22:47	Yes
3	0.02852	0.00285	0.0463	0.4721	0.0464	19:23:30	Yes
Mean:	0.02828	0.00283	0.0459				
SD:	0.00021	0.00002	0.0004				
%RSD:	0.7519	0.7519	0.76				

==========

Sequence No.: 188 **Autosampler Location: 95**
Sample ID: SD WG751227 L729689-01 **Date Collected: 10/28/2014 7:23:56 PM**
Analyst: 628 **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol: 3 mL**
Dilution: 5X **Sample Prep Vol: 30 mL**

Replicate Data: SD WG751227 L729689-01

Repl #	SampleConc mg/L	StndConc mg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.00302	0.00006	0.0003	0.0067	0.0004	19:25:01	Yes
2	0.00446	0.00009	0.0007	0.0181	0.0009	19:25:44	Yes
3	0.00457	0.00009	0.0008	0.0188	0.0009	19:26:28	Yes
Mean:	0.00402	0.00008	0.0006				
SD:	0.00087	0.00002	0.0003				
%RSD:	21.56	21.56	47.87				

==========

Sequence No.: 189 **Autosampler Location: 96**
Sample ID: L729339-01 WG751227 **Date Collected: 10/28/2014 7:26:52 PM**
Analyst: 628 **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol: 3 mL**
Dilution: **Sample Prep Vol: 30 mL**

Replicate Data: L729339-01 WG751227

Repl #	SampleConc mg/L	StndConc mg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.00057	0.00006	0.0002	0.0056	0.0003	19:27:57	Yes
2	0.00096	0.00010	0.0009	0.0203	0.0010	19:28:41	Yes
3	0.00087	0.00009	0.0007	0.0165	0.0008	19:29:25	Yes
Mean:	0.00080	0.00008	0.0006				
SD:	0.00021	0.00002	0.0003				
%RSD:	25.59	25.59	57.00				

==========

Sequence No.: 190 **Autosampler Location: 97**
Sample ID: L729339-03 WG751227 **Date Collected: 10/28/2014 7:29:50 PM**
Analyst: 628 **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol: 3 mL**
Dilution: **Sample Prep Vol: 30 mL**

Replicate Data: L729339-03 WG751227

Repl #	SampleConc mg/L	StndConc mg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored

1	0.00059	0.00006	0.0002	0.0067	0.0004	19:30:55	Yes
2	0.00090	0.00009	0.0008	0.0184	0.0009	19:31:39	Yes
3	0.00094	0.00009	0.0008	0.0191	0.0009	19:32:23	Yes
Mean:	0.00081	0.00008	0.0006				
SD:	0.00019	0.00002	0.0003				
%RSD:	23.77	23.77	52.13				

==========

Sequence No.: 191 **Autosampler Location: 98**
Sample ID: L729339-05 WG751227 **Date Collected: 10/28/2014 7:32:48 PM**
Analyst: 628 **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol: 3 mL**
Dilution: **Sample Prep Vol: 30 mL**

Replicate Data: L729339-05 WG751227

Repl #	SampleConc mg/L	StndConc mg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.00056	0.00006	0.0002	0.0058	0.0003	19:33:54	Yes
2	0.00092	0.00009	0.0008	0.0186	0.0009	19:34:37	Yes
3	0.00098	0.00010	0.0009	0.0209	0.0010	19:35:22	Yes
Mean:	0.00082	0.00008	0.0006				
SD:	0.00023	0.00002	0.0004				
%RSD:	27.91	27.91	60.66				

==========

Sequence No.: 192 **Autosampler Location: 99**
Sample ID: L729339-07 WG751227 **Date Collected: 10/28/2014 7:35:46 PM**
Analyst: 628 **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol: 3 mL**
Dilution: **Sample Prep Vol: 30 mL**

Replicate Data: L729339-07 WG751227

Repl #	SampleConc mg/L	StndConc mg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.00050	0.00005	0.0001	0.0026	0.0002	19:36:51	Yes
2	0.00100	0.00010	0.0009	0.0203	0.0010	19:37:35	Yes
3	0.00099	0.00010	0.0009	0.0213	0.0010	19:38:19	Yes
Mean:	0.00083	0.00008	0.0006				
SD:	0.00029	0.00003	0.0005				
%RSD:	34.65	34.65	74.24				

==========

Sequence No.: 193 **Autosampler Location: 8**
Sample ID: CCV 14J09762 **Date Collected: 10/28/2014 7:38:44 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: CCV 14J09762

Repl #	SampleConc mg/L	StndConc mg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.00232	0.00232	0.0376	0.3825	0.0377	19:39:48	Yes
2	0.00239	0.00239	0.0387	0.3992	0.0388	19:40:31	Yes
3	0.00238	0.00238	0.0385	0.3968	0.0386	19:41:15	Yes
Mean:	0.00236	0.00236	0.0383				
SD:	0.00004	0.00004	0.0006				
%RSD:	1.580	1.580	1.61				

QC value within limits for Hg 253.7 Recovery = 94.51%
All analyte(s) passed QC.

==========

Sequence No.: 194 **Autosampler Location: 1**
Sample ID: CCB **Date Collected: 10/28/2014 7:41:39 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: CCB

Repl #	SampleConc mg/L	StndConc mg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.00005	0.00005	0.0002	0.0051	0.0003	19:42:42	Yes
2	0.00010	0.00010	0.0009	0.0199	0.0010	19:43:26	Yes
3	0.00010	0.00010	0.0009	0.0206	0.0010	19:44:10	Yes
Mean:	0.00008	0.00008	0.0006				
SD:	0.00002	0.00002	0.0004				
%RSD:	29.86	29.86	63.39				

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

==========

Sequence No.: 195 **Autosampler Location: 100**
Sample ID: L729339-09 WG751227 **Date Collected: 10/28/2014 7:44:33 PM**
Analyst: 628 **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol: 3 mL**
Dilution: **Sample Prep Vol: 30 mL**

Replicate Data: L729339-09 WG751227

Repl #	SampleConc mg/L	StndConc mg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.00050	0.00005	0.0001	0.0036	0.0002	19:45:38	Yes
2	0.00085	0.00009	0.0007	0.0164	0.0008	19:46:22	Yes
3	0.00103	0.00010	0.0010	0.0227	0.0011	19:47:06	Yes
Mean:	0.00080	0.00008	0.0006				
SD:	0.00027	0.00003	0.0004				
%RSD:	33.91	33.91	76.20				

==========

Sequence No.: 196 **Autosampler Location: 101**
Sample ID: L729339-11 WG751227 **Date Collected: 10/28/2014 7:47:31 PM**
Analyst: 628 **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol: 3 mL**
Dilution: **Sample Prep Vol: 30 mL**

Replicate Data: L729339-11 WG751227

Repl #	SampleConc mg/L	StndConc mg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.00059	0.00006	0.0002	0.0065	0.0004	19:48:36	Yes
2	0.00100	0.00010	0.0009	0.0211	0.0010	19:49:20	Yes
3	0.00110	0.00011	0.0011	0.0245	0.0012	19:50:04	Yes
Mean:	0.00090	0.00009	0.0008				
SD:	0.00027	0.00003	0.0004				
%RSD:	30.01	30.01	59.02				

==========

Sequence No.: 197 **Autosampler Location: 102**
Sample ID: L729339-13 WG751227 **Date Collected: 10/28/2014 7:50:29 PM**
Analyst: 628 **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol: 3 mL**
Dilution: **Sample Prep Vol: 30 mL**

Replicate Data: L729339-13 WG751227

Repl #	SampleConc mg/L	StndConc mg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.00056	0.00006	0.0002	0.0056	0.0003	19:51:35	Yes
2	0.00099	0.00010	0.0009	0.0214	0.0010	19:52:18	Yes
3	0.00093	0.00009	0.0008	0.0183	0.0009	19:53:02	Yes
Mean:	0.00083	0.00008	0.0006				
SD:	0.00024	0.00002	0.0004				
%RSD:	28.42	28.42	60.85				

==========

Sequence No.: 198 **Autosampler Location: 103**
Sample ID: L729339-15 WG751227 **Date Collected: 10/28/2014 7:53:28 PM**
Analyst: 628 **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol: 3 mL**
Dilution: **Sample Prep Vol: 30 mL**

Replicate Data: L729339-15 WG751227

Repl #	SampleConc mg/L	StndConc mg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.00046	0.00005	0.0000	0.0013	0.0001	19:54:33	Yes
2	0.00099	0.00010	0.0009	0.0210	0.0010	19:55:17	Yes
3	0.00090	0.00009	0.0008	0.0163	0.0009	19:56:01	Yes
Mean:	0.00078	0.00008	0.0006				
SD:	0.00029	0.00003	0.0005				
%RSD:	36.65	36.65	83.95				

Sequence No.: 199
Sample ID: L729339-17 WG751227
Analyst: 628
Initial Sample Wt:
Dilution:
Autosampler Location: 104
Date Collected: 10/28/2014 7:56:26 PM
Data Type: Original
Initial Sample Vol: 3 mL
Sample Prep Vol: 30 mL

Replicate Data: L729339-17 WG751227

Repl #	SampleConc mg/L	StndConc mg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.00054	0.00005	0.0002	0.0049	0.0003	19:57:31	Yes
2	0.00098	0.00010	0.0009	0.0208	0.0010	19:58:15	Yes
3	0.00098	0.00010	0.0009	0.0205	0.0010	19:58:59	Yes
Mean:	0.00083	0.00008	0.0006				
SD:	0.00025	0.00003	0.0004				
%RSD:	30.58	30.58	65.03				

Sequence No.: 200
Sample ID: L729339-19 WG751227
Analyst: 628
Initial Sample Wt:
Dilution:
Autosampler Location: 105
Date Collected: 10/28/2014 7:59:24 PM
Data Type: Original
Initial Sample Vol: 3 mL
Sample Prep Vol: 30 mL

Replicate Data: L729339-19 WG751227

Repl #	SampleConc mg/L	StndConc mg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.00049	0.00005	0.0001	0.0030	0.0002	20:00:29	Yes
2	0.00085	0.00009	0.0007	0.0163	0.0008	20:01:12	Yes
3	0.00091	0.00009	0.0008	0.0185	0.0009	20:01:56	Yes
Mean:	0.00075	0.00008	0.0005				
SD:	0.00023	0.00002	0.0004				
%RSD:	30.45	30.45	73.72				

Sequence No.: 201
Sample ID: L729650-17 WG751227
Analyst: 628
Initial Sample Wt:
Dilution:
Autosampler Location: 106
Date Collected: 10/28/2014 8:02:22 PM
Data Type: Original
Initial Sample Vol: 3 mL
Sample Prep Vol: 30 mL

Replicate Data: L729650-17 WG751227

Repl #	SampleConc mg/L	StndConc mg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.00054	0.00005	0.0002	0.0048	0.0003	20:03:27	Yes
2	0.00092	0.00009	0.0008	0.0186	0.0009	20:04:10	Yes
3	0.00100	0.00010	0.0009	0.0209	0.0010	20:04:55	Yes
Mean:	0.00082	0.00008	0.0006				
SD:	0.00025	0.00002	0.0004				
%RSD:	30.18	30.18	65.21				

Sequence No.: 202
Sample ID: L729650-18 WG751227
Analyst: 628
Initial Sample Wt:
Dilution:
Autosampler Location: 107
Date Collected: 10/28/2014 8:05:19 PM
Data Type: Original
Initial Sample Vol: 3 mL
Sample Prep Vol: 30 mL

Replicate Data: L729650-18 WG751227

Repl #	SampleConc mg/L	StndConc mg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.00052	0.00005	0.0001	0.0030	0.0002	20:06:25	Yes
2	0.00104	0.00010	0.0010	0.0212	0.0011	20:07:08	Yes
3	0.00102	0.00010	0.0010	0.0218	0.0011	20:07:52	Yes
Mean:	0.00086	0.00009	0.0007				
SD:	0.00030	0.00003	0.0005				
%RSD:	34.45	34.45	70.93				

Sequence No.: 203 **Autosampler Location: 108**
Sample ID: L729833-06 WG751227 **Date Collected: 10/28/2014 8:08:17 PM**
Analyst: 628 **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol: 3 mL**
Dilution: **Sample Prep Vol: 30 mL**

Replicate Data: L729833-06 WG751227

Repl #	SampleConc mg/L	StndConc mg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.00054	0.00005	0.0002	0.0041	0.0003	20:09:22	Yes
2	0.00105	0.00010	0.0010	0.0220	0.0011	20:10:06	Yes
3	0.00090	0.00009	0.0008	0.0172	0.0009	20:10:50	Yes
Mean:	0.00083	0.00008	0.0006				
SD:	0.00026	0.00003	0.0004				
%RSD:	31.36	31.36	67.02				

Sequence No.: 204 **Autosampler Location: 109**
Sample ID: L729833-07 WG751227 **Date Collected: 10/28/2014 8:11:16 PM**
Analyst: 628 **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol: 3 mL**
Dilution: **Sample Prep Vol: 30 mL**

Replicate Data: L729833-07 WG751227

Repl #	SampleConc mg/L	StndConc mg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.00048	0.00005	0.0001	0.0021	0.0002	20:12:21	Yes
2	0.00098	0.00010	0.0009	0.0201	0.0010	20:13:05	Yes
3	0.00103	0.00010	0.0010	0.0228	0.0011	20:13:48	Yes
Mean:	0.00083	0.00008	0.0006				
SD:	0.00031	0.00003	0.0005				
%RSD:	36.93	36.93	78.82				

Sequence No.: 205 **Autosampler Location: 8**
Sample ID: CCV 14J09762 **Date Collected: 10/28/2014 8:14:14 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: CCV 14J09762

Repl #	SampleConc mg/L	StndConc mg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.00240	0.00240	0.0388	0.3962	0.0389	20:15:18	Yes
2	0.00244	0.00244	0.0395	0.4152	0.0396	20:16:02	Yes
3	0.00245	0.00245	0.0397	0.4103	0.0398	20:16:45	Yes
Mean:	0.00243	0.00243	0.0393				
SD:	0.00003	0.00003	0.0004				
%RSD:	1.098	1.098	1.12				

QC value within limits for Hg 253.7 Recovery = 97.09%
All analyte(s) passed QC.

Sequence No.: 206 **Autosampler Location: 1**
Sample ID: CCB **Date Collected: 10/28/2014 8:17:10 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**

Dilution: **Sample Prep Vol:**

Replicate Data: CCB

Repl #	SampleConc mg/L	StndConc mg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.00005	0.00005	0.0001	0.0036	0.0002	20:18:13	Yes
2	0.00010	0.00010	0.0009	0.0208	0.0010	20:18:57	Yes
3	0.00009	0.00009	0.0008	0.0186	0.0009	20:19:41	Yes
Mean:	0.00008	0.00008	0.0006				
SD:	0.00003	0.00003	0.0004				
%RSD:	32.45	32.45	71.52				

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

Sequence No.: 207 **Autosampler Location: 110**
Sample ID: L729833-08 WG751227 **Date Collected: 10/28/2014 8:20:05 PM**
Analyst: 628 **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol: 3 mL**
Dilution: **Sample Prep Vol: 30 mL**

Replicate Data: L729833-08 WG751227

Repl #	SampleConc mg/L	StndConc mg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.00060	0.00006	0.0003	0.0073	0.0004	20:21:10	Yes
2	0.00094	0.00009	0.0008	0.0180	0.0009	20:21:54	Yes
3	0.00102	0.00010	0.0010	0.0224	0.0011	20:22:38	Yes
Mean:	0.00085	0.00009	0.0007				
SD:	0.00023	0.00002	0.0004				
%RSD:	26.42	26.42	54.73				

Sequence No.: 208 **Autosampler Location: 111**
Sample ID: L729833-09 WG751227 **Date Collected: 10/28/2014 8:23:04 PM**
Analyst: 628 **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol: 3 mL**
Dilution: **Sample Prep Vol: 30 mL**

Replicate Data: L729833-09 WG751227

Repl #	SampleConc mg/L	StndConc mg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.00044	0.00004	0.0000	0.0011	0.0001	20:24:09	Yes
2	0.00102	0.00010	0.0010	0.0223	0.0011	20:24:53	Yes
3	0.00096	0.00010	0.0009	0.0200	0.0010	20:25:37	Yes
Mean:	0.00081	0.00008	0.0006				
SD:	0.00032	0.00003	0.0005				
%RSD:	39.51	39.51	86.90				

Sequence No.: 209 **Autosampler Location: 112**
Sample ID: L729833-10 WG751227 **Date Collected: 10/28/2014 8:26:02 PM**
Analyst: 628 **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol: 3 mL**
Dilution: **Sample Prep Vol: 30 mL**

Replicate Data: L729833-10 WG751227

Repl #	SampleConc mg/L	StndConc mg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.00050	0.00005	0.0001	0.0032	0.0002	20:27:07	Yes
2	0.00093	0.00009	0.0008	0.0194	0.0009	20:27:51	Yes
3	0.00092	0.00009	0.0008	0.0187	0.0009	20:28:35	Yes
Mean:	0.00079	0.00008	0.0006				
SD:	0.00024	0.00002	0.0004				
%RSD:	31.12	31.12	70.96				

Sequence No.: 210 **Autosampler Location: 113**
Sample ID: INSTBLK WG751227 **Date Collected: 10/28/2014 8:29:00 PM**

Analyst: 628 **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol: 30 mL**
Dilution: **Sample Prep Vol: 30 mL**

Replicate Data: INSTBLK WG751227

Repl #	SampleConc mg/L	StndConc mg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.00006	0.00006	0.0002	0.0066	0.0004	20:30:05	Yes
2	0.00009	0.00009	0.0008	0.0181	0.0009	20:30:49	Yes
3	0.00010	0.00010	0.0008	0.0196	0.0010	20:31:33	Yes
Mean:	0.00008	0.00008	0.0006				
SD:	0.00002	0.00002	0.0003				
%RSD:	24.73	24.73	53.23				

==========

Sequence No.: 211 **Autosampler Location: 3**
Sample ID: CCVLL 14J23419 **Date Collected: 10/28/2014 8:31:58 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: CCVLL 14J23419

Repl #	SampleConc mg/L	StndConc mg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.00024	0.00024	0.0032	0.0363	0.0033	20:33:03	Yes
2	0.00027	0.00027	0.0037	0.0472	0.0038	20:33:47	Yes
3	0.00027	0.00027	0.0038	0.0505	0.0039	20:34:31	Yes
Mean:	0.00026	0.00026	0.0036				
SD:	0.00002	0.00002	0.0003				
%RSD:	6.919	6.919	8.33				

QC value greater than the upper limit for Hg 253.7 Recovery = 130.13%
QC Failed. Stop the analysis.

==========

Analysis Begun

Logged In Analyst: hg4 **Technique: AA FIMS-MHS**
Spectrometer Model: FIMS-100, S/N B050-9550 **Autosampler Model: S10**

Sample Information File: C:\data-FIMS4\Sample Information\102814CVAA4 W.sif
Batch ID: 628
Results Data Set: 102814CVAA4 W
Results Library: C:\data-FIMS4\Results\Results.mdb

==========

Sequence No.: 211 **Autosampler Location: 3**
Sample ID: CCVLL 14J23419 **Date Collected: 10/28/2014 8:36:49 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: CCVLL 14J23419

Repl #	SampleConc mg/L	StndConc mg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.00025	0.00025	0.0034	0.0468	0.0035	20:37:53	Yes
2	0.00020	0.00020	0.0026	0.0318	0.0027	20:38:37	Yes
3	0.00024	0.00024	0.0032	0.0442	0.0033	20:39:21	Yes
Mean:	0.00023	0.00023	0.0031				
SD:	0.00003	0.00003	0.0004				
%RSD:	10.95	10.95	13.56				

QC value within limits for Hg 253.7 Recovery = 114.51%
All analyte(s) passed QC.

==========

Sequence No.: 212 **Autosampler Location: 8**
Sample ID: CCV 14J09762 **Date Collected: 10/28/2014 8:39:44 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: CCV 14J09762

Repl #	SampleConc mg/L	StndConc mg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.00187	0.00187	0.0301	0.3085	0.0302	20:40:49	Yes
2	0.00190	0.00190	0.0306	0.3200	0.0307	20:41:32	Yes
3	0.00238	0.00238	0.0385	0.4093	0.0386	20:42:16	Yes
Mean:	0.00205	0.00205	0.0331				
SD:	0.00029	0.00029	0.0047				
%RSD:	13.98	13.98	14.28				

QC value less than the lower limit for Hg 253.7 Recovery = 81.97%
QC Failed. Stop the analysis.

Analysis Begun

Logged In Analyst: hg4 **Technique: AA FIMS-MHS**
Spectrometer Model: FIMS-100, S/N B050-9550 **Autosampler Model: S10**

Sample Information File: C:\data-FIMS4\Sample Information\102814CVAA4 W.sif
Batch ID: 628
Results Data Set: 102814CVAA4 W
Results Library: C:\data-FIMS4\Results\Results.mdb

Sequence No.: 212 **Autosampler Location: 8**
Sample ID: CCV 14J09762 **Date Collected: 10/28/2014 8:42:31 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: CCV 14J09762

Repl #	SampleConc mg/L	StndConc mg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.00239	0.00239	0.0387	0.4086	0.0388	20:43:35	Yes
2	0.00238	0.00238	0.0385	0.4039	0.0386	20:44:18	Yes
3	0.00240	0.00240	0.0388	0.4065	0.0389	20:45:02	Yes
Mean:	0.00239	0.00239	0.0387				
SD:	0.00001	0.00001	0.0002				
%RSD:	0.4449	0.4449	0.45				

QC value within limits for Hg 253.7 Recovery = 95.55%
All analyte(s) passed QC.

Sequence No.: 213 **Autosampler Location: 1**
Sample ID: CCB **Date Collected: 10/28/2014 8:45:26 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: CCB

Repl #	SampleConc mg/L	StndConc mg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.00005	0.00005	0.0001	0.0044	0.0002	20:46:30	Yes
2	0.00009	0.00009	0.0008	0.0187	0.0009	20:47:14	Yes
3	0.00009	0.00009	0.0008	0.0192	0.0009	20:47:58	Yes
Mean:	0.00008	0.00008	0.0006				
SD:	0.00002	0.00002	0.0004				
%RSD:	29.37	29.37	66.68				

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

Analytical Sequence
Method: Hg Water PPM-TEST

Seq.	Loc.	ID	Status
1	156	ICVLL 14J23419	
2	157	ICV 14J09761	
3	1	ICB	
4	9	BLANK WG750952	

5	10	LCS WG750952
6	11	LCSD WG750952
7	12	L729208-01 WG750952
8	13	MS WG750952 L729208-01
9	14	MSD WG750952 L729208-01
10	15	SD WG750952 L729208-01
11	16	L727205-03 WG750952
12	17	L729208-03 WG750952
13	18	L729342-03 WG750952
14	19	L729391-02 WG750952
15	20	L729391-04 WG750952
16	21	L729396-03 WG750952
17	22	L729468-01 WG750952
18	23	L729585-01 WG750952
19	24	L729585-02 WG750952
20	8	CCV 14J09762
21	1	CCB
22	25	L729585-03 WG750952
23	26	L729638-01 WG750952
24	27	L729709-01 WG750952
25	28	L729778-01 WG750952
26	29	L729778-03 WG750952
27	30	L729778-05 WG750952
28	31	L729778-07 WG750952
29	32	L729782-01 WG750952
30	33	INSTBLK WG750952
31	8	CCV 14J09762
32	1	CCB
33	34	BLANK WG750953
34	35	LCS WG750953
35	36	LCSD WG750953
36	37	L729805-01 WG750953
37	38	MS WG750953 L729805-01
38	39	MSD WG750953 L729805-01
39	40	SD WG750953 L729805-01
40	41	L729805-02 WG750953
41	42	L729805-03 WG750953
42	43	L729805-04 WG750953
43	44	L729805-05 WG750953
44	45	L729805-06 WG750953
45	46	L729805-07 WG750953
46	47	L729805-08 WG750953
47	48	INSTBLK WG750953
48	49	BLANK WG750954
49	50	LCS WG750954
50	51	LCSD WG750954
51	52	L729806-01 WG750954
52	53	MS WG750954 L729806-01
53	54	MSD WG750954 L729806-01
54	55	SD WG750954 L729806-01
55	56	L729806-02 WG750954
56	8	CCV 14J09762
57	1	CCB
58	57	L729806-03 WG750954
59	58	L729806-04 WG750954
60	59	L729806-05 WG750954
61	60	L729806-06 WG750954
62	61	L729806-07 WG750954
63	62	INSTBLK WG750954
64	63	BLANK WG750955
65	64	LCS WG750955
66	65	LCSD WG750955
67	66	L729877-04 WG750955
68	67	MS WG750955 L729877-04
69	68	MSD WG750955 L729877-04
70	69	SD WG750955 L729877-04
71	70	L729737-01 WG750955
72	71	L729771-01 WG750955
73	72	L729875-01 WG750955
74	73	L729875-02 WG750955
75	8	CCV 14J09762
76	1	CCB

77	74	L729875-03 WG750955	
78	75	L729875-04 WG750955	
79	76	L729877-01 WG750955	
80	77	L729877-02 WG750955	
81	78	L729877-03 WG750955	
82	79	INSTBLK WG750955	
83	80	BLANK WG750956	
84	81	LCS WG750956	
85	82	LCSD WG750956	
86	83	L729879-01 WG750956	
87	84	MS WG750956 L729879-01	
88	85	MSD WG750956 L729879-01	
89	86	SD WG750956 L729879-01	
90	87	L729615-01 WG750956	
91	88	L729615-02 WG750956	
92	89	L729615-03 WG750956	
93	90	L729615-04 WG750956	
94	8	CCV 14J09762	
95	1	CCB	
96	91	L729615-05 WG750956	
97	92	L729615-06 WG750956	
98	93	L729615-07 WG750956	
99	94	L729647-01 WG750956	
100	95	L729647-02 WG750956	
101	96	L729647-03 WG750956	
102	97	L729649-01 WG750956	
103	98	L729649-02 WG750956	
104	99	L729649-03 WG750956	
105	100	L729721-17 WG750956	
106	8	CCV 14J09762	
107	1	CCB	
108	101	L729879-02 WG750956	
109	102	L729879-03 WG750956	
110	103	INSTBLK WG750956	
111	104	BLANK WG750987	
112	105	LCS WG750987	
113	106	LCSD WG750987	
114	107	L729809-01 WG750987	
115	108	MS WG750987 L729809-01	
116	109	MSD WG750987 L729809-01	
117	110	SD WG750987 L729809-01	
118	111	L729809-02 WG750987	
119	112	L729809-03 WG750987	
120	113	L729809-04 WG750987	
121	114	L729809-05 WG750987	
122	115	INSTBLK WG750987	
123	8	CCV 14J09762	
124	1	CCB	
125	38	BLANK WG751135	Analyzed
126	39	LCS WG751135	Analyzed
127	40	LCSD WG751135	Analyzed
128	41	L729800-01 WG751135	Analyzed
129	42	MS WG751135 L729800-01	Analyzed
130	43	MSD WG751135 L729800-01	Analyzed
131	44	SD WG751135 L729800-01	Analyzed
132	45	L729559-02 WG751135	Analyzed
133	46	MS WG751135 L729559-02	Analyzed
134	47	MSD WG751135 L729559-02	Analyzed
135	48	L729561-02 WG751135	Analyzed
136	49	L729561-04 WG751135	Analyzed
137	50	L729561-06 WG751135	Analyzed
138	51	L729798-02 WG751135	Analyzed
139	52	L729798-04 WG751135	Analyzed
140	53	L729798-06 WG751135	Analyzed
141	54	L729942-01 WG751135	Analyzed
142	55	L729942-03 WG751135	Analyzed
143	8	CCV 14J09762	QC Passed
144	1	CCB	QC Passed
145	56	L729942-05 WG751135	Analyzed
146	57	L729942-07 WG751135	Analyzed
147	58	L729942-09 WG751135	Analyzed
148	59	L729946-01 WG751135	Analyzed

149	60	L729946-02 WG751135	Analyzed
150	61	L729946-03 WG751135	Analyzed
151	62	L729946-04 WG751135	Analyzed
152	63	L729946-05 WG751135	Analyzed
153	64	L729946-06 WG751135	Analyzed
154	65	L729946-07 WG751135	Analyzed
155	66	INSTBLK WG751135	Analyzed
156	8	CCV 14J09762	QC Passed
157	1	CCB	QC Passed
158	67	BLANK WG751136	Analyzed
159	68	LCS WG751136	Analyzed
160	69	LCSD WG751136	Analyzed
161	70	L729800-02 WG751136	Analyzed
162	71	MS WG751136 L729800-02	Analyzed
163	72	MSD WG751136 L729800-02	Analyzed
164	73	SD WG751136 L729800-02	Analyzed
165	74	L729373-01 WG751136	Analyzed
166	75	L729373-02 WG751136	Analyzed
167	76	L729373-03 WG751136	Analyzed
168	77	L729798-01 WG751136	Analyzed
169	78	L729798-03 WG751136	Analyzed
170	79	L729798-05 WG751136	Analyzed
171	80	L729807-01 WG751136	Analyzed
172	81	L729807-02 WG751136	Analyzed
173	82	L729807-03 WG751136	Analyzed
174	8	CCV 14J09762	QC Passed
175	1	CCB	QC Passed
176	83	L729807-04 WG751136	Analyzed
177	84	L729807-05 WG751136	Analyzed
178	85	L729807-06 WG751136	Analyzed
179	86	L729807-07 WG751136	Analyzed
180	87	L729807-08 WG751136	Analyzed
181	88	INSTBLK WG751136	Analyzed
182	89	BLANK WG751227	Analyzed
183	90	LCS WG751227	Analyzed
184	91	LCSD WG751227	Analyzed
185	92	L729689-01 WG751227	Analyzed
186	93	MS WG751227 L729689-01	Analyzed
187	94	MSD WG751227 L729689-01	Analyzed
188	95	SD WG751227 L729689-01	Analyzed
189	96	L729339-01 WG751227	Analyzed
190	97	L729339-03 WG751227	Analyzed
191	98	L729339-05 WG751227	Analyzed
192	99	L729339-07 WG751227	Analyzed
193	8	CCV 14J09762	QC Passed
194	1	CCB	QC Passed
195	100	L729339-09 WG751227	Analyzed
196	101	L729339-11 WG751227	Analyzed
197	102	L729339-13 WG751227	Analyzed
198	103	L729339-15 WG751227	Analyzed
199	104	L729339-17 WG751227	Analyzed
200	105	L729339-19 WG751227	Analyzed
201	106	L729650-17 WG751227	Analyzed
202	107	L729650-18 WG751227	Analyzed
203	108	L729833-06 WG751227	Analyzed
204	109	L729833-07 WG751227	Analyzed
205	8	CCV 14J09762	QC Passed
206	1	CCB	QC Passed
207	110	L729833-08 WG751227	Analyzed
208	111	L729833-09 WG751227	Analyzed
209	112	L729833-10 WG751227	Analyzed
210	113	INSTBLK WG751227	Analyzed
211	3	CCVLL 14J23419	QC Passed
212	8	CCV 14J09762	QC Passed
213	1	CCB	QC Passed

==========

Analysis Begun

Logged In Analyst: hg4 **Technique: AA FIMS-MHS**
Spectrometer Model: FIMS-100, S/N B050-9550 **Autosampler Model: S10**

Sample Information File: C:\data-FIMS4\Sample Information\102814CVAA4 W.sif
Batch ID: 628
Results Data Set: 102814CVAA4 W
Results Library: C:\data-FIMS4\Results\Results.mdb

==========

Sequence No.: 1 **Autosampler Location: 156**
Sample ID: ICVLL 14J23419 **Date Collected: 10/28/2014 8:55:08 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**
User canceled analysis.

==========

Analysis Begun

Logged In Analyst: hg4 **Technique: AA FIMS-MHS**
Spectrometer Model: FIMS-100, S/N B050-9550 **Autosampler Model: S10**

Sample Information File: C:\data-FIMS4\Sample Information\102814CVAA4 W.sif
Batch ID: 628
Results Data Set: 102814CVAA4 W
Results Library: C:\data-FIMS4\Results\Results.mdb

==========

Sequence No.: 211 **Autosampler Location: 114**
Sample ID: MSD WG751135 L729800-01 **Date Collected: 10/28/2014 8:56:24 PM**
Analyst: 628 **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol: 30 mL**
Dilution: **Sample Prep Vol: 30 mL**

Replicate Data: MSD WG751135 L729800-01

Repl #	SampleConc mg/L	StndConc mg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.00280	0.00280	0.0454	0.4947	0.0455	20:57:29	Yes
2	0.00279	0.00279	0.0453	0.4793	0.0454	20:58:13	Yes
3	0.00272	0.00272	0.0442	0.4796	0.0443	20:58:57	Yes
Mean:	0.00277	0.00277	0.0450				
SD:	0.00004	0.00004	0.0007				
%RSD:	1.467	1.467	1.49				

==========

Sequence No.: 212 **Autosampler Location: 115**
Sample ID: MS WG751135 L729559-02 **Date Collected: 10/28/2014 8:59:22 PM**
Analyst: 628 **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol: 30 mL**
Dilution: **Sample Prep Vol: 30 mL**

Replicate Data: MS WG751135 L729559-02

Repl #	SampleConc mg/L	StndConc mg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.00247	0.00247	0.0400	0.4444	0.0402	21:00:28	Yes
2	0.00250	0.00250	0.0406	0.4451	0.0407	21:01:11	Yes
3	0.00254	0.00254	0.0411	0.4430	0.0412	21:01:55	Yes
Mean:	0.00250	0.00250	0.0406				
SD:	0.00003	0.00003	0.0005				
%RSD:	1.306	1.306	1.33				

==========

Sequence No.: 213 **Autosampler Location: 116**
Sample ID: MSD WG751135 L729559-02 **Date Collected: 10/28/2014 9:02:21 PM**
Analyst: 628 **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol: 30 mL**

Dilution: Sample Prep Vol: 30 mL

Replicate Data: MSD WG751135 L729559-02

Repl #	SampleConc mg/L	StndConc mg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.00170	0.00170	0.0273	0.3217	0.0274	21:03:27	Yes
2	0.00171	0.00171	0.0275	0.3509	0.0276	21:04:11	Yes
3	0.00176	0.00176	0.0282	0.3412	0.0283	21:04:55	Yes
Mean:	0.00172	0.00172	0.0277				
SD:	0.00003	0.00003	0.0005				
%RSD:	1.819	1.819	1.87				

==========

Sequence No.: 214 Autosampler Location: 117
Sample ID: MSD WG751136 L729800-02 Date Collected: 10/28/2014 9:05:20 PM
Analyst: 628 Data Type: Original
Initial Sample Wt: Initial Sample Vol: 30 mL
Dilution: Sample Prep Vol: 30 mL

Replicate Data: MSD WG751136 L729800-02

Repl #	SampleConc mg/L	StndConc mg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.00195	0.00195	0.0314	0.3637	0.0315	21:06:26	Yes
2	0.00202	0.00202	0.0325	0.3736	0.0326	21:07:10	Yes
3	0.00199	0.00199	0.0321	0.3558	0.0322	21:07:53	Yes
Mean:	0.00198	0.00198	0.0320				
SD:	0.00003	0.00003	0.0006				
%RSD:	1.692	1.692	1.73				

==========

Sequence No.: 215 Autosampler Location: 118
Sample ID: BLANK WG751135 Date Collected: 10/28/2014 9:08:18 PM
Analyst: 628 Data Type: Original
Initial Sample Wt: Initial Sample Vol: 30 mL
Dilution: Sample Prep Vol: 30 mL

Replicate Data: BLANK WG751135

Repl #	SampleConc mg/L	StndConc mg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.00004	0.00004	-0.0001	-0.0028	0.0000	21:09:24	Yes
2	0.00004	0.00004	-0.0001	-0.0050	-0.0000	21:10:07	Yes
3	0.00004	0.00004	-0.0001	-0.0041	-0.0000	21:10:51	Yes
Mean:	0.00004	0.00004	-0.0001				
SD:	0.00000	0.00000	0.0000				
%RSD:	1.283	1.283	6.95				

==========

Sequence No.: 216 Autosampler Location: 119
Sample ID: pS WG751135 L729559-02 Date Collected: 10/28/2014 9:11:17 PM
Analyst: 628 Data Type: Original
Initial Sample Wt: Initial Sample Vol: 30 mL
Dilution: Sample Prep Vol: 30 mL

Replicate Data: pS WG751135 L729559-02

Repl #	SampleConc mg/L	StndConc mg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.00326	0.00326	0.0530	0.6123	0.0532	21:12:22	Yes
2	0.00353	0.00353	0.0575	0.6215	0.0576	21:13:06	Yes
3	0.00321	0.00321	0.0523	0.6165	0.0524	21:13:50	Yes
Mean:	0.00333	0.00333	0.0543				
SD:	0.00017	0.00017	0.0028				
%RSD:	5.086	5.086	5.15				

==========

Sequence No.: 217 Autosampler Location: 120
Sample ID: pS WG751136 L729800-02 Date Collected: 10/28/2014 9:14:15 PM
Analyst: 628 Data Type: Original
Initial Sample Wt: Initial Sample Vol: 30 mL

Dilution: **Sample Prep Vol: 30 mL**

Replicate Data: pS WG751136 L729800-02

Repl #	SampleConc mg/L	StndConc mg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.00289	0.00289	0.0469	0.4960	0.0470	21:15:25	Yes
2	0.00257	0.00257	0.0418	0.4767	0.0419	21:16:09	Yes
3	0.00279	0.00279	0.0453	0.4550	0.0454	21:16:53	Yes
Mean:	0.00275	0.00275	0.0446				
SD:	0.00016	0.00016	0.0026				
%RSD:	5.780	5.780	5.87				

==========

Sequence No.: 218 **Autosampler Location: 3**
Sample ID: CCVLL 14J23419 **Date Collected: 10/28/2014 9:17:18 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: CCVLL 14J23419

Repl #	SampleConc mg/L	StndConc mg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.00005	0.00005	0.0002	0.0003	0.0003	21:18:23	Yes
2	0.00004	0.00004	-0.0001	-0.0012	0.0000	21:19:07	Yes
3	0.00004	0.00004	-0.0001	-0.0007	0.0001	21:19:50	Yes
Mean:	0.00004	0.00004	-0.0000				
SD:	0.00001	0.00001	0.0001				
%RSD:	19.80	19.80	>999.9%				

QC value less than the lower limit for Hg 253.7 Recovery = 22.07%
QC Failed. Stop the analysis.

==========

Analysis Begun

Logged In Analyst: hg4 **Technique: AA FIMS-MHS**
Spectrometer Model: FIMS-100, S/N B050-9550 **Autosampler Model: S10**

Sample Information File: C:\data-FIMS4\Sample Information\102814CVAA4 W.sif
Batch ID: 628
Results Data Set: 102814CVAA4 W
Results Library: C:\data-FIMS4\Results\Results.mdb

==========

Sequence No.: 218 **Autosampler Location: 3**
Sample ID: CCVLL 14J23419 **Date Collected: 10/28/2014 9:20:26 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: CCVLL 14J23419

Repl #	SampleConc mg/L	StndConc mg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.00022	0.00022	0.0029	0.0314	0.0030	21:21:31	Yes
2	0.00023	0.00023	0.0030	0.0347	0.0031	21:22:15	Yes
3	0.00025	0.00025	0.0034	0.0368	0.0035	21:22:59	Yes
Mean:	0.00023	0.00023	0.0031				
SD:	0.00001	0.00001	0.0002				
%RSD:	6.273	6.273	7.74				

QC value within limits for Hg 253.7 Recovery = 116.39%
All analyte(s) passed QC.

==========

Sequence No.: 219 **Autosampler Location: 8**
Sample ID: CCV 14J09762 **Date Collected: 10/28/2014 9:23:23 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: CCV 14J09762

Repl #	SampleConc mg/L	StndConc mg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.00278	0.00278	0.0452	0.4713	0.0453	21:24:27	Yes
2	0.00220	0.00220	0.0356	0.3576	0.0357	21:25:11	Yes
3	0.00241	0.00241	0.0391	0.4017	0.0392	21:25:55	Yes
Mean:	0.00246	0.00246	0.0399				
SD:	0.00029	0.00029	0.0049				
%RSD:	11.95	11.95	12.16				

QC value within limits for Hg 253.7 Recovery = 98.56%
All analyte(s) passed QC.

==========

Sequence No.: 220 **Autosampler Location: 1**
Sample ID: CCB **Date Collected: 10/28/2014 9:26:18 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: CCB

Repl #	SampleConc mg/L	StndConc mg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.00005	0.00005	0.0000	0.0021	0.0001	21:27:22	Yes
2	0.00004	0.00004	-0.0000	-0.0002	0.0001	21:28:06	Yes
3	0.00005	0.00005	0.0001	0.0038	0.0002	21:28:50	Yes
Mean:	0.00005	0.00005	0.0000				
SD:	0.00001	0.00001	0.0001				
%RSD:	12.05	12.05	213.50				

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

Analytical Sequence
Method: Hg Water PPM-TEST

Seq.	Loc.	ID	Status
1	156	ICVLL 14J23419	
2	157	ICV 14J09761	
3	1	ICB	
4	9	BLANK WG750952	
5	10	LCS WG750952	
6	11	LCSD WG750952	
7	12	L729208-01 WG750952	
8	13	MS WG750952 L729208-01	
9	14	MSD WG750952 L729208-01	
10	15	SD WG750952 L729208-01	
11	16	L727205-03 WG750952	
12	17	L729208-03 WG750952	
13	18	L729342-03 WG750952	
14	19	L729391-02 WG750952	
15	20	L729391-04 WG750952	
16	21	L729396-03 WG750952	
17	22	L729468-01 WG750952	
18	23	L729585-01 WG750952	
19	24	L729585-02 WG750952	
20	8	CCV 14J09762	
21	1	CCB	
22	25	L729585-03 WG750952	
23	26	L729638-01 WG750952	
24	27	L729709-01 WG750952	
25	28	L729778-01 WG750952	
26	29	L729778-03 WG750952	
27	30	L729778-05 WG750952	
28	31	L729778-07 WG750952	
29	32	L729782-01 WG750952	
30	33	INSTBLK WG750952	
31	8	CCV 14J09762	
32	1	CCB	
33	34	BLANK WG750953	
34	35	LCS WG750953	
35	36	LCSD WG750953	
36	37	L729805-01 WG750953	
37	38	MS WG750953 L729805-01	

38	39	MSD WG750953 L729805-01
39	40	SD WG750953 L729805-01
40	41	L729805-02 WG750953
41	42	L729805-03 WG750953
42	43	L729805-04 WG750953
43	44	L729805-05 WG750953
44	45	L729805-06 WG750953
45	46	L729805-07 WG750953
46	47	L729805-08 WG750953
47	48	INSTBLK WG750953
48	49	BLANK WG750954
49	50	LCS WG750954
50	51	LCSD WG750954
51	52	L729806-01 WG750954
52	53	MS WG750954 L729806-01
53	54	MSD WG750954 L729806-01
54	55	SD WG750954 L729806-01
55	56	L729806-02 WG750954
56	8	CCV 14J09762
57	1	CCB
58	57	L729806-03 WG750954
59	58	L729806-04 WG750954
60	59	L729806-05 WG750954
61	60	L729806-06 WG750954
62	61	L729806-07 WG750954
63	62	INSTBLK WG750954
64	63	BLANK WG750955
65	64	LCS WG750955
66	65	LCSD WG750955
67	66	L729877-04 WG750955
68	67	MS WG750955 L729877-04
69	68	MSD WG750955 L729877-04
70	69	SD WG750955 L729877-04
71	70	L729737-01 WG750955
72	71	L729771-01 WG750955
73	72	L729875-01 WG750955
74	73	L729875-02 WG750955
75	8	CCV 14J09762
76	1	CCB
77	74	L729875-03 WG750955
78	75	L729875-04 WG750955
79	76	L729877-01 WG750955
80	77	L729877-02 WG750955
81	78	L729877-03 WG750955
82	79	INSTBLK WG750955
83	80	BLANK WG750956
84	81	LCS WG750956
85	82	LCSD WG750956
86	83	L729879-01 WG750956
87	84	MS WG750956 L729879-01
88	85	MSD WG750956 L729879-01
89	86	SD WG750956 L729879-01
90	87	L729615-01 WG750956
91	88	L729615-02 WG750956
92	89	L729615-03 WG750956
93	90	L729615-04 WG750956
94	8	CCV 14J09762
95	1	CCB
96	91	L729615-05 WG750956
97	92	L729615-06 WG750956
98	93	L729615-07 WG750956
99	94	L729647-01 WG750956
100	95	L729647-02 WG750956
101	96	L729647-03 WG750956
102	97	L729649-01 WG750956
103	98	L729649-02 WG750956
104	99	L729649-03 WG750956
105	100	L729721-17 WG750956
106	8	CCV 14J09762
107	1	CCB
108	101	L729879-02 WG750956
109	102	L729879-03 WG750956

110	103	INSTBLK WG750956
111	104	BLANK WG750987
112	105	LCS WG750987
113	106	LCSD WG750987
114	107	L729809-01 WG750987
115	108	MS WG750987 L729809-01
116	109	MSD WG750987 L729809-01
117	110	SD WG750987 L729809-01
118	111	L729809-02 WG750987
119	112	L729809-03 WG750987
120	113	L729809-04 WG750987
121	114	L729809-05 WG750987
122	115	INSTBLK WG750987
123	8	CCV 14J09762
124	1	CCB
125	38	BLANK WG751135
126	39	LCS WG751135
127	40	LCSD WG751135
128	41	L729800-01 WG751135
129	42	MS WG751135 L729800-01
130	43	MSD WG751135 L729800-01
131	44	SD WG751135 L729800-01
132	45	L729559-02 WG751135
133	46	MS WG751135 L729559-02
134	47	MSD WG751135 L729559-02
135	48	L729561-02 WG751135
136	49	L729561-04 WG751135
137	50	L729561-06 WG751135
138	51	L729798-02 WG751135
139	52	L729798-04 WG751135
140	53	L729798-06 WG751135
141	54	L729942-01 WG751135
142	55	L729942-03 WG751135
143	8	CCV 14J09762
144	1	CCB
145	56	L729942-05 WG751135
146	57	L729942-07 WG751135
147	58	L729942-09 WG751135
148	59	L729946-01 WG751135
149	60	L729946-02 WG751135
150	61	L729946-03 WG751135
151	62	L729946-04 WG751135
152	63	L729946-05 WG751135
153	64	L729946-06 WG751135
154	65	L729946-07 WG751135
155	66	INSTBLK WG751135
156	8	CCV 14J09762
157	1	CCB
158	67	BLANK WG751136
159	68	LCS WG751136
160	69	LCSD WG751136
161	70	L729800-02 WG751136
162	71	MS WG751136 L729800-02
163	72	MSD WG751136 L729800-02
164	73	SD WG751136 L729800-02
165	74	L729373-01 WG751136
166	75	L729373-02 WG751136
167	76	L729373-03 WG751136
168	77	L729798-01 WG751136
169	78	L729798-03 WG751136
170	79	L729798-05 WG751136
171	80	L729807-01 WG751136
172	81	L729807-02 WG751136
173	82	L729807-03 WG751136
174	8	CCV 14J09762
175	1	CCB
176	83	L729807-04 WG751136
177	84	L729807-05 WG751136
178	85	L729807-06 WG751136
179	86	L729807-07 WG751136
180	87	L729807-08 WG751136
181	88	INSTBLK WG751136

182	89	BLANK WG751227	
183	90	LCS WG751227	
184	91	LCSD WG751227	
185	92	L729689-01 WG751227	
186	93	MS WG751227 L729689-01	
187	94	MSD WG751227 L729689-01	
188	95	SD WG751227 L729689-01	
189	96	L729339-01 WG751227	
190	97	L729339-03 WG751227	
191	98	L729339-05 WG751227	
192	99	L729339-07 WG751227	
193	8	CCV 14J09762	
194	1	CCB	
195	100	L729339-09 WG751227	
196	101	L729339-11 WG751227	
197	102	L729339-13 WG751227	
198	103	L729339-15 WG751227	
199	104	L729339-17 WG751227	
200	105	L729339-19 WG751227	
201	106	L729650-17 WG751227	
202	107	L729650-18 WG751227	
203	108	L729833-06 WG751227	
204	109	L729833-07 WG751227	
205	8	CCV 14J09762	
206	1	CCB	
207	110	L729833-08 WG751227	
208	111	L729833-09 WG751227	
209	112	L729833-10 WG751227	
210	113	INSTBLK WG751227	
211	114	MSD WG751135 L729800-01	Analyzed
212	115	MS WG751135 L729559-02	Analyzed
213	116	MSD WG751135 L729559-02	Analyzed
214	117	MSD WG751136 L729800-02	Analyzed
215	118	BLANK WG751135	Analyzed
216	119	pS WG751135 L729559-02	Analyzed
217	120	pS WG751136 L729800-02	Analyzed
218	3	CCVLL 14J23419	QC Passed
219	8	CCV 14J09762	QC Passed
220	1	CCB	QC Passed

==========

Analysis Begun

Logged In Analyst: hg4 **Technique: AA FIMS-MHS**
Spectrometer Model: FIMS-100, S/N B050-9550 **Autosampler Model: S10**

Sample Information File: C:\data-FIMS4\Sample Information\102814CVAA4 W.sif
Batch ID: 628
Results Data Set: 102814CVAA4 W
Results Library: C:\data-FIMS4\Results\Results.mdb

==========

Sequence No.: 1 **Autosampler Location: 156**
Sample ID: ICVLL 14J23419 **Date Collected: 10/28/2014 10:17:54 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**
User canceled analysis.

==========

Analysis Begun

Logged In Analyst: hg4 **Technique: AA FIMS-MHS**
Spectrometer Model: FIMS-100, S/N B050-9550 **Autosampler Model: S10**

Sample Information File: C:\data-FIMS4\Sample Information\102814CVAA4 W.sif
Batch ID: 628
Results Data Set: 102814CVAA4 W
Results Library: C:\data-FIMS4\Results\Results.mdb

==========

Sequence No.: 218 **Autosampler Location: 121**
Sample ID: reagent test **Date Collected: 10/28/2014 10:18:39 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: reagent test

Repl #	SampleConc mg/L	StndConc mg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.00024	0.00024	0.0032	0.0337	0.0033	22:19:44	Yes
2	0.00025	0.00025	0.0034	0.0384	0.0035	22:20:28	Yes
3	0.00024	0.00024	0.0033	0.0364	0.0034	22:21:12	Yes
Mean:	0.00024	0.00024	0.0033				
SD:	0.00001	0.00001	0.0001				
%RSD:	2.265	2.265	2.77				

User canceled analysis.

Trace Metals by Method 6010B

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Tax I.D 62-0814289
Est. 1970

Quality Control Summary
SDG: L729800

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

Project: Holloman AFB
Project No: 23446543.0053AA

Login No: L729800

Lab SampleID.	Client ID
L729800-01	H-TU904-GW03-NT01
L729800-02	H-TU904-GW03-ND01

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: L729800
URS Corporation - Tucson AZ - 1088308

Test:	Trace Metals by Method 6010B		
Project No:	23446543.0053AA	Matrix:	Water - mg/L
Project:	Holloman AFB	EPA ID:	TN00003
Collection Date:	10/23/2014	**Analytic Batch:**	**WG750950**
Analysis Date:	10/29/2014	Analyst:	653
Instrument ID:	ICP12	Prep Date:	10/28/2014
Sample Numbers:	L729800-01		

Workgroup: **WG750950**

Sample Name	Collect Date	Prep Date	Analysis Date
L729800-01 5x	10/23/2014	10/28/2014	10/29/2014

Parameters in bold text are reported in this SDG

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Quality Control Summary
SDG: L729800
URS Corporation - Tucson AZ - 1088308

Test:	Trace Metals by Method 6010B		
Project No:	23446543.0053AA	Matrix:	Water - mg/L
Project:	Holloman AFB	EPA ID:	TN00003
Collection Date:	10/23/2014	**Analytic Batch:**	**WG751198**
Analysis Date:	10/28/2014	Analyst:	388
Instrument ID:	ICP11	Prep Date:	10/28/2014
Sample Numbers:	L729800-02		

Workgroup: **WG751198**

Sample Name	Collect Date	Prep Date	Analysis Date
L729800-02 1x	10/23/2014	10/28/2014	10/28/2014

Parameters in bold text are reported in this SDG

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Quality Control Summary
SDG: L729800
URS Corporation - Tucson AZ - 1088308

Test:	Trace Metals by Method 6010B		
Project No:	23446543.0053AA	Matrix:	Water - mg/L
Project:	Holloman AFB	EPA ID:	TN00003
Collection Date:	10/23/2014	**Analytic Batch:**	**WG752582**
Analysis Date:	11/5/2014	Analyst:	388
Instrument ID:	ICP11	Prep Date:	11/4/2014
Sample Numbers:	L729800-02		

Workgroup: **WG752582**

Sample Name	Collect Date	Prep Date	Analysis Date
L729800-02 5x	10/23/2014	11/4/2014	11/05/2014

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Quality Control Summary
SDG: L729800
URS Corporation - Tucson AZ - 1088308

Test:	Trace Metals by Method 6010B		
Project No:	23446543.0053AA	Matrix:	Water - mg/L
Project:	Holloman AFB	EPA ID:	TN00003
Collection Date:	10/23/2014	**Analytic Batch:**	**WG750950**
Analysis Date:	10/29/2014	Analyst:	653
Instrument ID:	ICP12	Prep Date:	10/27/2014
Sample Numbers:	L729800-01		

Method Blank Summary

Instrument	Client Sample ID	Lab Sample ID	File Name	Analysis Date	Analysis Time
ICP12	Blank WG750950	Blank WG750950	28	10/29/2014	10:44 AM
ICP12	LCS WG750950	LCS WG750950	29	10/29/2014	10:48 AM
ICP12	LCSD WG750950	LCSD WG750950	30	10/29/2014	10:52 AM
ICP12	DUP WG750950	DUP WG750950	32	10/29/2014	11:01 AM
ICP12	MS WG750950	MS WG750950	33	10/29/2014	11:05 AM
ICP12	MSD WG750950	MSD WG750950	34	10/29/2014	11:09 AM
ICP12	H-TU904-GW03-NT01	L729800-01	42	10/29/2014	11:47 AM
ICP12	MS WG750950	MS WG750950	43	10/29/2014	11:51 AM
ICP12	MSD WG750950	MSD WG750950	44	10/29/2014	11:56 AM

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Quality Control Summary
SDG: L729800
URS Corporation - Tucson AZ - 1088308

Test:	Trace Metals by Method 6010B		
Project No:	23446543.0053AA	Matrix:	Water - mg/L
Project:	Holloman AFB	EPA ID:	TN00003
Collection Date:	10/23/2014	**Analytic Batch:**	**WG751198**
Analysis Date:	10/28/2014	Analyst:	388
Instrument ID:	ICP11	Prep Date:	10/28/2014
Sample Numbers:	L729800-02		

Method Blank Summary

Instrument	Client Sample ID	Lab Sample ID	File Name	Analysis Date	Analysis Time
ICP11	Blank WG751198	Blank WG751198	79	10/28/2014	4:40 PM
ICP11	LCS WG751198	LCS WG751198	80	10/28/2014	4:45 PM
ICP11	LCSD WG751198	LCSD WG751198	81	10/28/2014	4:50 PM
ICP11	DUP WG751198	DUP WG751198	83	10/28/2014	5:02 PM
ICP11	MS WG751198	MS WG751198	84	10/28/2014	5:07 PM
ICP11	MSD WG751198	MSD WG751198	85	10/28/2014	5:13 PM
ICP11	H-TU904-GW03-ND01	L729800-02	88	10/28/2014	5:32 PM

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Quality Control Summary
SDG: L729800
URS Corporation - Tucson AZ - 1088308

Test:	Trace Metals by Method 6010B		
Project No:	23446543.0053AA	Matrix:	Water - mg/L
Project:	Holloman AFB	EPA ID:	TN00003
Collection Date:	10/23/2014	**Analytic Batch:**	**WG752582**
Analysis Date:	11/5/2014	Analyst:	388
Instrument ID:	ICP11	Prep Date:	11/4/2014
Sample Numbers:	L729800-02		

Method Blank Summary

Instrument	Client Sample ID	Lab Sample ID	File Name	Analysis Date	Analysis Time
ICP11	Blank WG752582	Blank WG752582	75	11/5/2014	3:07 PM
ICP11	LCS WG752582	LCS WG752582	76	11/5/2014	3:11 PM
ICP11	LCSD WG752582	LCSD WG752582	77	11/5/2014	3:16 PM
ICP11	H-TU904-GW03-ND01	L729800-02	78	11/5/2014	3:21 PM
ICP11	DUP WG752582	DUP WG752582	79	11/5/2014	3:26 PM
ICP11	PS WG752582	PS WG752582	80	11/5/2014	3:31 PM
ICP11	MS WG752582	MS WG752582	81	11/5/2014	3:37 PM
ICP11	MSD WG752582	MSD WG752582	82	11/5/2014	3:42 PM
ICP11	MS WG752582	MS WG752582	88	11/5/2014	4:13 PM
ICP11	MSD WG752582	MSD WG752582	89	11/5/2014	4:18 PM
ICP11	MS WG752582	MS WG752582	96	11/5/2014	4:57 PM
ICP11	MSD WG752582	MSD WG752582	97	11/5/2014	5:02 PM

Parameters in bold text are reported in this SDG

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Quality Control Summary
SDG: L729800
URS Corporation - Tucson AZ - 1088308

Test:	Trace Metals by Method 6010B		
Project No:	23446543.0053AA	Matrix:	Water - mg/L
Project:	Holloman AFB	EPA ID:	TN00003
Collection Date:	10/23/2014	**Analytic Batch:**	**WG750950**
Analysis Date:	10/29/2014	Analyst:	653
Instrument ID:	ICP12	Prep Date:	10/27/2014
Sample Numbers:	L729800-01		

Method Blank

Analyte	CAS	RDL	MDL	Qualifier
Aluminum	7429-90-5	< 0.100	< 0.0350	
Barium	7440-39-3	< 0.00500	< 0.00170	
Beryllium	7440-41-7	< 0.00200	< 0.000700	
Copper	7440-50-8	< 0.0200	< 0.00530	
Manganese	7439-96-5	< 0.0100	< 0.00120	
Vanadium	7440-62-2	< 0.0200	< 0.00240	
Zinc	7440-66-6	< 0.0500	< 0.00590	

Parameters in bold text are reported in this SDG

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Quality Control Summary
SDG: L729800
URS Corporation - Tucson AZ - 1088308

Test:	Trace Metals by Method 6010B		
Project No:	23446543.0053AA	Matrix:	Water - mg/L
Project:	Holloman AFB	EPA ID:	TN00003
Collection Date:	10/23/2014	**Analytic Batch:**	**WG751198**
Analysis Date:	10/28/2014	Analyst:	388
Instrument ID:	ICP11	Prep Date:	10/28/2014
Sample Numbers:	L729800-02		

Method Blank

Analyte	CAS	RDL	MDL	Qualifier
Aluminum,Dissolved	7429-90-5	< 0.100	< 0.0350	
Barium,Dissolved	7440-39-3	< 0.00500	< 0.00170	
Beryllium,Dissolved	7440-41-7	< 0.00200	< 0.000700	
Copper,Dissolved	7440-50-8	< 0.0200	0.00911	
Manganese,Dissolved	7439-96-5	< 0.0100	0.00124	
Vanadium,Dissolved	7440-62-2	< 0.0200	< 0.00240	
Zinc,Dissolved	7440-66-6	< 0.0500	0.00598	

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Quality Control Summary
SDG: L729800
URS Corporation - Tucson AZ - 1088308

Test:	Trace Metals by Method 6010B		
Project No:	23446543.0053AA	Matrix:	Water - mg/L
Project:	Holloman AFB	EPA ID:	TN00003
Collection Date:	10/23/2014	**Analytic Batch:**	**WG752582**
Analysis Date:	11/5/2014	Analyst:	388
Instrument ID:	ICP11	Prep Date:	11/4/2014
Sample Numbers:	L729800-02		

Method Blank

Analyte	CAS	RDL	MDL	Qualifier
Aluminum,Dissolved	7429-90-5	< 0.100	< 0.0350	
Barium,Dissolved	7440-39-3	< 0.00500	< 0.00170	
Beryllium,Dissolved	7440-41-7	< 0.00200	< 0.000700	
Copper,Dissolved	7440-50-8	< 0.0200	< 0.00530	
Manganese,Dissolved	7439-96-5	< 0.0100	0.00244	
Vanadium,Dissolved	7440-62-2	< 0.0200	< 0.00240	
Zinc,Dissolved	7440-66-6	< 0.0500	< 0.00590	

Parameters in bold text are reported in this SDG

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Quality Control Summary
SDG: L729800
URS Corporation - Tucson AZ - 1088308

Test:	Trace Metals by Method 6010B		
Project No:	23446543.0053AA	Matrix:	Water - mg/L
Project:	Holloman AFB	EPA ID:	TN00003
Collection Date:	10/23/2014	**Analytic Batch:**	**WG750950**
Analysis Date:	10/29/2014	Analyst:	653
Instrument ID:	ICP12	Prep Date:	10/27/2014
Sample Numbers:	L729800-01		

Laboratory Control Sample (LCS)

Analyte	Dil	True Value	Found	% Rec	Control Limits	Qual
Aluminum	1	1	0.8315	83	80 - 120	
Barium	1	1	0.9798	98	80 - 120	
Beryllium	1	1	1.0060	101	80 - 120	
Copper	1	1	0.9766	98	80 - 120	
Manganese	1	1	1.0098	101	80 - 120	
Vanadium	1	1	1.0185	102	80 - 120	
Zinc	1	1	0.9704	97	80 - 120	

Laboratory Control Sample Duplicate (LCSD)

Analyte	Dil	True Value	Found	% Rec	Control Limits	Qual
Aluminum	1	1	0.8311	83	80 - 120	
Barium	1	1	1.0019	100	80 - 120	
Beryllium	1	1	0.9927	99	80 - 120	
Copper	1	1	0.9659	97	80 - 120	
Manganese	1	1	1.0266	103	80 - 120	
Vanadium	1	1	0.9981	100	80 - 120	
Zinc	1	1	0.9927	99	80 - 120	

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	1	0.8315	83	0.8311	83	80 - 120		0	20	
Barium	1	1	0.9798	98	1.0019	100	80 - 120		2	20	
Beryllium	1	1	1.0060	101	0.9927	99	80 - 120		1	20	
Copper	1	1	0.9766	98	0.9659	97	80 - 120		1	20	
Manganese	1	1	1.0098	101	1.0266	103	80 - 120		2	20	
Vanadium	1	1	1.0185	102	0.9981	100	80 - 120		2	20	
Zinc	1	1	0.9704	97	0.9927	99	80 - 120		2	20	

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Quality Control Summary
SDG: L729800
URS Corporation - Tucson AZ - 1088308

Test:	Trace Metals by Method 6010B		
Project No:	23446543.0053AA	Matrix:	Water - mg/L
Project:	Holloman AFB	EPA ID:	TN00003
Collection Date:	10/23/2014	**Analytic Batch:**	**WG751198**
Analysis Date:	10/28/2014	Analyst:	388
Instrument ID:	ICP11	Prep Date:	10/28/2014
Sample Numbers:	L729800-02		

Laboratory Control Sample (LCS)

Analyte	Dil	True Value	Found	% Rec	Control Limits	Qual
Aluminum,Dissolved	1	1	1.0126	101	80 - 120	
Barium,Dissolved	1	1	0.9954	100	80 - 120	
Beryllium,Dissolved	1	1	1.0086	101	80 - 120	
Copper,Dissolved	1	1	0.9718	97	80 - 120	
Manganese,Dissolved	1	1	0.9834	98	80 - 120	
Vanadium,Dissolved	1	1	1.0097	101	80 - 120	
Zinc,Dissolved	1	1	0.9139	91	80 - 120	

Laboratory Control Sample Duplicate (LCSD)

Analyte	Dil	True Value	Found	% Rec	Control Limits	Qual
Aluminum,Dissolved	1	1	1.0080	101	80 - 120	
Barium,Dissolved	1	1	1.0002	100	80 - 120	
Beryllium,Dissolved	1	1	1.0142	101	80 - 120	
Copper,Dissolved	1	1	0.9785	98	80 - 120	
Manganese,Dissolved	1	1	0.9890	99	80 - 120	
Vanadium,Dissolved	1	1	1.0157	102	80 - 120	
Zinc,Dissolved	1	1	0.9154	92	80 - 120	

Laboratory Control Sample / Laboratory Control Sample Duplicate

Analyte	Dil	Spike	LCS	% Rec	LCSD	% Rec	Control Limits	% Rec Qual	% RPD	Control Limits	RPD Qual
Aluminum,Dissolved	1	1	1.0126	101	1.0080	101	80 - 120		0	20	
Barium,Dissolved	1	1	0.9954	100	1.0002	100	80 - 120		0	20	
Beryllium,Dissolved	1	1	1.0086	101	1.0142	101	80 - 120		1	20	
Copper,Dissolved	1	1	0.9718	97	0.9785	98	80 - 120		1	20	
Manganese,Dissolved	1	1	0.9834	98	0.9890	99	80 - 120		1	20	
Vanadium,Dissolved	1	1	1.0097	101	1.0157	102	80 - 120		1	20	
Zinc,Dissolved	1	1	0.9139	91	0.9154	92	80 - 120		0	20	

Parameters in bold text are reported in this SDG

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Quality Control Summary
SDG: L729800
URS Corporation - Tucson AZ - 1088308

Test:	Trace Metals by Method 6010B		
Project No:	23446543.0053AA	Matrix:	Water - mg/L
Project:	Holloman AFB	EPA ID:	TN00003
Collection Date:	10/23/2014	**Analytic Batch:**	**WG752582**
Analysis Date:	11/5/2014	Analyst:	388
Instrument ID:	ICP11	Prep Date:	11/4/2014
Sample Numbers:	L729800-02		

Laboratory Control Sample (LCS)

Analyte	Dil	True Value	Found	% Rec	Control Limits	Qual
Aluminum,Dissolved	1	1	1.0518	105	80 - 120	
Barium,Dissolved	1	1	1.0435	104	80 - 120	
Beryllium,Dissolved	1	1	1.0518	105	80 - 120	
Copper,Dissolved	1	1	1.0027	100	80 - 120	
Manganese,Dissolved	1	1	1.0275	103	80 - 120	
Vanadium,Dissolved	1	1	1.0621	106	80 - 120	
Zinc,Dissolved	1	1	0.9559	96	80 - 120	

Laboratory Control Sample Duplicate (LCSD)

Analyte	Dil	True Value	Found	% Rec	Control Limits	Qual
Aluminum,Dissolved	1	1	1.0363	104	80 - 120	
Barium,Dissolved	1	1	1.0545	105	80 - 120	
Beryllium,Dissolved	1	1	1.0559	106	80 - 120	
Copper,Dissolved	1	1	1.0146	101	80 - 120	
Manganese,Dissolved	1	1	1.0380	104	80 - 120	
Vanadium,Dissolved	1	1	1.0752	108	80 - 120	
Zinc,Dissolved	1	1	0.9630	96	80 - 120	

Laboratory Control Sample / Laboratory Control Sample Duplicate

Analyte	Dil	Spike	LCS	% Rec	LCSD	% Rec	Control Limits	% Rec Qual	% RPD	Control Limits	RPD Qual
Aluminum,Dissolved	1	1	1.0518	105	1.0363	104	80 - 120		1	20	
Barium,Dissolved	1	1	1.0435	104	1.0545	105	80 - 120		1	20	
Beryllium,Dissolved	1	1	1.0518	105	1.0559	106	80 - 120		0	20	
Copper,Dissolved	1	1	1.0027	100	1.0146	101	80 - 120		1	20	
Manganese,Dissolved	1	1	1.0275	103	1.0380	104	80 - 120		1	20	
Vanadium,Dissolved	1	1	1.0621	106	1.0752	108	80 - 120		1	20	
Zinc,Dissolved	1	1	0.9559	96	0.9630	96	80 - 120		1	20	

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Quality Control Summary
SDG: L729800
URS Corporation - Tucson AZ - 1088308

Test:	Trace Metals by Method 6010B		
Project No:	23446543.0053AA	Matrix:	Water - mg/L
Project:	Holloman AFB	EPA ID:	TN00003
Collection Date:	10/23/2014	**Analytic Batch:**	**WG750950**
Analysis Date:	10/29/2014	Analyst:	653
Instrument ID:	ICP12	Prep Date:	10/27/2014
Sample Numbers:	L729800-01		

Serial Dilution

L729559-02

Analyte	Dil	Sample Result	SD Result	% RPD	Limit	Qualifier
Aluminum	25	45.884	46.561	1	10	
Barium	25	0.5381	0.5857	9	10	
Beryllium	25	0.0133	<0.0175	11	10	
Copper	25	0.0618	<0.1325	61	10	
Manganese	25	8.3499	9.1397	9	10	
Vanadium	25	0.3781	0.3601	5	10	
Zinc	25	0.2315	0.5778	150	10	

Matrix Spike / Matrix Spike Duplicate

L729800-01

Analyte	Dil	Spike Value	Sample	MS	% Rec	MSD	% Rec	Control Limits	% Rec Qual	RPD	Control Limits	RPD Qual
Aluminum	5	0.2	8.3391	12.073	373	12.471	413	75 - 125	V	3	20	
Barium	5	0.2	0.1326	0.1426	1	0.1494	2	75 - 125	J6	5	20	
Beryllium	5	0.2	<0.0035	0.0014	0	0.0004	0	75 - 125	J6	0	20	
Copper	5	0.2	<0.0265	0.0383	3	0.0171	1	75 - 125	J6	77	20	J3
Manganese	5	0.2	0.6651	1.9181	125	1.1285	46	75 - 125	J6	52	20	J3
Vanadium	5	0.2	0.0212	0.0528	3	0.0317	1	75 - 125	J6	50	20	J3
Zinc	5	0.2	0.0969	0.1403	4	0.2355	14	75 - 125	J6	51	20	J3

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Quality Control Summary
SDG: L729800
URS Corporation - Tucson AZ - 1088308

Test:	Trace Metals by Method 6010B		
Project No:	23446543.0053AA	Matrix:	Water - mg/L
Project:	Holloman AFB	EPA ID:	TN00003
Collection Date:	10/23/2014	**Analytic Batch:**	**WG750950**
Analysis Date:	10/29/2014	Analyst:	653
Instrument ID:	ICP12	Prep Date:	10/27/2014
Sample Numbers:	L729800-01		

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
Aluminum	5	0.2	45.884	50.176	429	50.974	509	75 - 125	V	2	20	
Barium	5	0.2	0.5381	1.4952	96	1.5384	100	75 - 125		3	20	
Beryllium	5	0.2	0.0133	0.9780	96	1.0097	100	75 - 125		3	20	
Copper	5	0.2	0.0618	1.0765	101	1.0946	103	75 - 125		2	20	
Manganese	5	0.2	8.3499	9.1923	84	9.3737	102	75 - 125		2	20	
Vanadium	5	0.2	0.3781	1.3842	101	1.4270	105	75 - 125		3	20	
Zinc	5	0.2	0.2315	1.1392	91	1.1644	93	75 - 125		2	20	

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Quality Control Summary
SDG: L729800
URS Corporation - Tucson AZ - 1088308

Test:	Trace Metals by Method 6010B		
Project No:	23446543.0053AA	Matrix:	Water - mg/L
Project:	Holloman AFB	EPA ID:	TN00003
Collection Date:	10/23/2014	**Analytic Batch:**	**WG751198**
Analysis Date:	10/28/2014	Analyst:	388
Instrument ID:	ICP11	Prep Date:	10/28/2014
Sample Numbers:	L729800-02		

Serial Dilution

L729798-03

Analyte	Dil	Sample Result	SD Result	% RPD	Limit	Qualifier
Aluminum,Dissolved	5	<0.035	<0.175		10	
Barium,Dissolved	5	0.0500	0.0545	9	10	
Beryllium,Dissolved	5	<0.0007	<0.0035		10	
Copper,Dissolved	5	<0.0053	<0.0265		10	
Manganese,Dissolved	5	0.4477	0.4615	3	10	
Vanadium,Dissolved	5	0.0034	<0.012	106	10	
Zinc,Dissolved	5	0.0185	<0.0295	247	10	

Matrix Spike / Matrix Spike Duplicate

L729798-03

Analyte	Dil	Spike Value	Sample	MS	% Rec	MSD	% Rec	Control Limits	% Rec Qual	RPD	Control Limits	RPD Qual
Aluminum,Dissolved	1	1	<0.035	1.1160	111	1.1273	112	75 - 125		1	20	
Barium,Dissolved	1	1	0.0500	1.0165	97	0.9710	92	75 - 125		5	20	
Beryllium,Dissolved	1	1	<0.0007	0.9886	99	0.9550	95	75 - 125		3	20	
Copper,Dissolved	1	1	<0.0053	1.0755	107	1.0275	102	75 - 125		5	20	
Manganese,Dissolved	1	1	0.4477	1.3846	94	1.3480	90	75 - 125		3	20	
Vanadium,Dissolved	1	1	0.0034	1.0233	102	0.9779	97	75 - 125		5	20	
Zinc,Dissolved	1	1	0.0185	1.0025	98	0.9574	94	75 - 125		5	20	

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Quality Control Summary
SDG: L729800
URS Corporation - Tucson AZ - 1088308

Test:	Trace Metals by Method 6010B		
Project No:	23446543.0053AA	Matrix:	Water - mg/L
Project:	Holloman AFB	EPA ID:	TN00003
Collection Date:	10/23/2014	**Analytic Batch:**	**WG752582**
Analysis Date:	11/5/2014	Analyst:	388
Instrument ID:	ICP11	Prep Date:	11/4/2014
Sample Numbers:	L729800-02		

Serial Dilution

L729800-02

Analyte	Dil	Sample Result	SD Result	% RPD	Limit	Qualifier
Aluminum,Dissolved	25	<0.175	<0.875		10	
Barium,Dissolved	25	0.0271	<0.0425	6	10	
Beryllium,Dissolved	25	<0.0035	<0.0175		10	
Copper,Dissolved	25	<0.0265	<0.1325		10	
Manganese,Dissolved	25	0.5858	0.5695	3	10	
Vanadium,Dissolved	25	<0.012	<0.06		10	
Zinc,Dissolved	25	<0.0295	<0.1475		10	

Matrix Spike / Matrix Spike Duplicate

L730147-17

Analyte	Dil	Spike Value	Sample	MS	% Rec	MSD	% Rec	Control Limits	% Rec Qual	RPD	Control Limits	RPD Qual
Aluminum,Dissolved	5	0.2	<0.175	0.9772	98	1.0299	103	75 - 125		5	20	
Barium,Dissolved	5	0.2	0.0285	1.0737	105	1.0434	101	75 - 125		3	20	
Beryllium,Dissolved	5	0.2	<0.0035	1.0009	100	1.0000	100	75 - 125		0	20	
Copper,Dissolved	5	0.2	<0.0265	0.9902	99	0.9933	99	75 - 125		0	20	
Manganese,Dissolved	5	0.2	0.7672	1.8319	106	1.8203	105	75 - 125		1	20	
Vanadium,Dissolved	5	0.2	0.0132	1.0619	105	1.0555	104	75 - 125		1	20	
Zinc,Dissolved	5	0.2	<0.0295	0.9329	93	0.9278	93	75 - 125		1	20	

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Quality Control Summary
SDG: L729800
URS Corporation - Tucson AZ - 1088308

Test:	Trace Metals by Method 6010B		
Project No:	23446543.0053AA	Matrix:	Water - mg/L
Project:	Holloman AFB	EPA ID:	TN00003
Collection Date:	10/23/2014	**Analytic Batch:**	**WG752582**
Analysis Date:	11/5/2014	Analyst:	388
Instrument ID:	ICP11	Prep Date:	11/4/2014
Sample Numbers:	L729800-02		

Matrix Spike / Matrix Spike Duplicate

L729800-02

Analyte	Dil	Spike Value	Sample	MS	% Rec	MSD	% Rec	Control Limits	% Rec Qual	RPD	Control Limits	RPD Qual
Aluminum,Dissolved	5	0.2	<0.175	0.9011	90	0.8965	90	75 - 125		1	20	
Barium,Dissolved	5	0.2	0.0271	1.1019	107	0.9884	96	75 - 125		11	20	
Beryllium,Dissolved	5	0.2	<0.0035	0.9861	99	0.9532	95	75 - 125		3	20	
Copper,Dissolved	5	0.2	<0.0265	0.9893	99	0.9528	95	75 - 125		4	20	
Manganese,Dissolved	5	0.2	0.5858	1.5864	100	1.5500	96	75 - 125		2	20	
Vanadium,Dissolved	5	0.2	<0.012	1.0252	102	0.9994	99	75 - 125		3	20	
Zinc,Dissolved	5	0.2	<0.0295	0.9443	94	0.9161	92	75 - 125		3	20	

Matrix Spike / Matrix Spike Duplicate

L730147-06

Analyte	Dil	Spike Value	Sample	MS	% Rec	MSD	% Rec	Control Limits	% Rec Qual	RPD	Control Limits	RPD Qual
Aluminum,Dissolved	5	0.2	<0.175	0.7942	79	0.7966	80	75 - 125		0	20	
Barium,Dissolved	5	0.2	0.0160	1.0819	107	1.0336	102	75 - 125		5	20	
Beryllium,Dissolved	5	0.2	<0.0035	1.0018	100	0.9544	95	75 - 125		5	20	
Copper,Dissolved	5	0.2	<0.0265	0.9896	99	0.9306	93	75 - 125		6	20	
Manganese,Dissolved	5	0.2	<0.006	1.0072	101	0.9555	95	75 - 125		5	20	
Vanadium,Dissolved	5	0.2	<0.012	1.0436	103	0.9907	98	75 - 125		5	20	
Zinc,Dissolved	5	0.2	<0.0295	0.9281	93	0.8800	88	75 - 125		5	20	

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Quality Control Summary
SDG: L729800
URS Corporation - Tucson AZ - 1088308

Test:	Trace Metals by Method 6010B		
Project No:	23446543.0053AA	Matrix:	Water - mg/L
Project:	Holloman AFB	EPA ID:	TN00003
Collection Date:	10/23/2014	**Analytic Batch:**	**WG752582**
Analysis Date:	11/5/2014	Analyst:	388
Instrument ID:	ICP11	Prep Date:	11/4/2014
Sample Numbers:	L729800-02		

Post Digest Spike

L729800-02

Analyte	Dil	Spike Value	Sample	Result	% Rec	Control Limits	Qualifier
Aluminum,Dissolved	5	1.12	<0.175	5.3138	95	75-125	
Barium,Dissolved	5	1.12	0.0271	5.3082	94	75-125	
Beryllium,Dissolved	5	1.12	<0.0035	5.3121	95	75-125	
Copper,Dissolved	5	1.12	<0.0265	5.2336	93	75-125	
Manganese,Dissolved	5	1.12	0.5858	5.7542	92	75-125	
Vanadium,Dissolved	5	1.12	<0.012	5.4777	98	75-125	
Zinc,Dissolved	5	1.12	<0.0295	5.0822	91	75-125	

Parameters in bold text are reported in this SDG

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Quality Control Summary
SDG: L729800
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: 10/29/2014 10:17 AM
Analysis Time: 1017
Data File: 102914ICP12

Analyte	Conc.	True Value	Recovery	Limits
Aluminum	9.59	10	96 %	90-110
Barium	0.989	1	99 %	90-110
Beryllium	0.992	1	99 %	90-110
Copper	0.980	1	98 %	90-110
Manganese	0.998	1	100 %	90-110
Vanadium	0.985	1	98 %	90-110
Zinc	0.981	1	98 %	90-110

Standard Type: ICVLL
Analysis Date: 10/29/2014 10:26 AM
Analysis Time: 1026
Data File: 102914ICP12

Analyte	Conc.
Aluminum	0.0853
Barium	0.0051
Beryllium	0.0019
Copper	0.0172
Manganese	0.0103
Vanadium	0.0022
Zinc	0.0293

*** - calibrated by linear regression*

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Quality Control Summary
SDG: L729800
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: 10/29/2014 11:33 AM
Analysis Time: 1133
Data File: 102914ICP12

Analyte	Conc.	True Value	Recovery	Limits
Aluminum	9.60	10	96 %	90-110
Barium	0.476	0.5	95 %	90-110
Beryllium	0.185	0.2	93 %	90-110
Copper	1.82	2	91 %	90-110
Manganese	0.994	1	99 %	90-110
Vanadium	0.927	1	93 %	90-110
Zinc	2.86	3	95 %	90-110

Standard Type: CCV
Analysis Date: 10/29/2014 12:26 PM
Analysis Time: 1226
Data File: 102914ICP12

Analyte	Conc.	True Value	Recovery	Limits
Aluminum	9.39	10	94 %	90-110
Barium	0.475	0.5	95 %	90-110
Beryllium	0.181	0.2	90 %	90-110
Copper	1.81	2	91 %	90-110
Manganese	1.03	1	103 %	90-110
Vanadium	0.930	1	93 %	90-110
Zinc	2.91	3	97 %	90-110

*** - calibrated by linear regression*

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Quality Control Summary
SDG: L729800
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: 10/29/2014 1:54 PM
Analysis Time: 1354
Data File: 102914ICP12

Analyte	Conc.
Aluminum	0.0845
Barium	0.0049
Beryllium	0.0015
Copper	0.0161
Manganese	0.0110
Vanadium	0.0055
Zinc	0.0303

*** - calibrated by linear regression*

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Quality Control Summary
SDG: L729800
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: ICP11

Standard Type: ICV
Analysis Date: 10/28/2014 10:07 AM
Analysis Time: 1007
Data File: 102814ICP11

Analyte	Conc.	True Value	Recovery	Limits
Aluminum	9.93	10	99 %	90-110
Barium	0.994	1	99 %	90-110
Beryllium	0.997	1	100 %	90-110
Copper	0.990	1	99 %	90-110
Manganese	1.01	1	101 %	90-110
Vanadium	0.993	1	99 %	90-110
Zinc	0.958	1	96 %	90-110

Standard Type: ICVLL
Analysis Date: 10/28/2014 10:16 AM
Analysis Time: 1016
Data File: 102814ICP11

Analyte	Conc.
Aluminum	0.103
Barium	0.0056
Beryllium	0.0020
Copper	0.0298
Manganese	0.0104
Vanadium	0.0100
Zinc	0.0308

*** - calibrated by linear regression*

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Quality Control Summary
SDG: L729800
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: ICP11

Standard Type: CCV
Analysis Date: 10/28/2014 4:22 PM
Analysis Time: 1622
Data File: 102814ICP11

Analyte	Conc.	True Value	Recovery	Limits
Aluminum	9.56	10	96 %	90-110
Barium	0.484	0.5	97 %	90-110
Beryllium	0.192	0.2	96 %	90-110
Copper	1.91	2	96 %	90-110
Manganese	0.971	1	97 %	90-110
Vanadium	0.976	1	98 %	90-110
Zinc	2.87	3	96 %	90-110

Standard Type: CCV
Analysis Date: 10/28/2014 5:38 PM
Analysis Time: 1738
Data File: 102814ICP11

Analyte	Conc.	True Value	Recovery	Limits
Aluminum	9.38	10	94 %	90-110
Barium	0.502	0.5	100 %	90-110
Beryllium	0.191	0.2	96 %	90-110
Copper	1.84	2	92 %	90-110
Manganese	0.972	1	97 %	90-110
Vanadium	0.951	1	95 %	90-110
Zinc	2.79	3	93 %	90-110

*** - calibrated by linear regression*

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Quality Control Summary
SDG: L729800
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: ICP11

Standard Type: CCVLL
Analysis Date: 10/28/2014 6:09 PM
Analysis Time: 1809
Data File: 102814ICP11

Analyte	Conc.
Aluminum	0.102
Barium	0.0054
Beryllium	0.0019
Copper	0.0197
Manganese	0.0099
Vanadium	0.0099
Zinc	0.0299

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Quality Control Summary
SDG: L729800
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: ICP11

Standard Type: ICV
Analysis Date: 11/5/2014 8:13 AM
Analysis Time: 0813
Data File: 110514ICP11

Analyte	Conc.	True Value	Recovery	Limits
Aluminum	9.74	10	97 %	90-110
Barium	1.01	1	101 %	90-110
Beryllium	0.996	1	100 %	90-110
Copper	0.990	1	99 %	90-110
Manganese	0.999	1	100 %	90-110
Vanadium	1.01	1	101 %	90-110
Zinc	0.962	1	96 %	90-110

Standard Type: ICVLL
Analysis Date: 11/5/2014 8:28 AM
Analysis Time: 0828
Data File: 110514ICP11

Analyte	Conc.
Aluminum	0.0921
Barium	0.0053
Beryllium	0.0019
Copper	0.0219
Manganese	0.0100
Vanadium	0.0103
Zinc	0.0303

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Quality Control Summary
SDG: L729800
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: ICP11

Standard Type: CCV
Analysis Date: 11/5/2014 2:42 PM
Analysis Time: 1442
Data File: 110514ICP11

Analyte	Conc.	True Value	Recovery	Limits
Aluminum	9.89	10	99 %	90-110
Barium	0.503	0.5	101 %	90-110
Beryllium	0.199	0.2	99 %	90-110
Copper	1.93	2	97 %	90-110
Manganese	1.01	1	101 %	90-110
Vanadium	0.996	1	100 %	90-110
Zinc	2.90	3	97 %	90-110

Standard Type: CCVLL
Analysis Date: 11/5/2014 2:52 PM
Analysis Time: 1452
Data File: 110514ICP11

Analyte	Conc.
Aluminum	0.0835
Barium	0.0053
Beryllium	0.0019
Copper	0.0205
Manganese	0.0099
Vanadium	0.0096
Zinc	0.0306

*** - calibrated by linear regression*

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Quality Control Summary
SDG: L729800
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: ICP11

Standard Type: CCV
Analysis Date: 11/5/2014 3:58 PM
Analysis Time: 1558
Data File: 110514ICP11

Analyte	Conc.	True Value	Recovery	Limits
Aluminum	9.75	10	98 %	90-110
Barium	0.498	0.5	100 %	90-110
Beryllium	0.197	0.2	99 %	90-110
Copper	1.92	2	96 %	90-110
Manganese	1.00	1	100 %	90-110
Vanadium	0.989	1	99 %	90-110
Zinc	2.87	3	96 %	90-110

Standard Type: CCV
Analysis Date: 11/5/2014 5:07 PM
Analysis Time: 1707
Data File: 110514ICP11

Analyte	Conc.	True Value	Recovery	Limits
Aluminum	9.93	10	99 %	90-110
Barium	0.502	0.5	100 %	90-110
Beryllium	0.198	0.2	99 %	90-110
Copper	1.93	2	96 %	90-110
Manganese	1.01	1	101 %	90-110
Vanadium	0.994	1	99 %	90-110
Zinc	2.89	3	96 %	90-110

*** - calibrated by linear regression*

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Quality Control Summary
SDG: L729800
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: ICP11

Standard Type: CCVLL
Analysis Date: 11/5/2014 5:38 PM
Analysis Time: 1738
Data File: 110514ICP11

Analyte	Conc.
Aluminum	0.0708
Barium	0.0055
Beryllium	0.0018
Copper	0.0204
Manganese	0.0101
Vanadium	0.0105
Zinc	0.0310

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Quality Control Summary
SDG: L729800
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: 10/29/2014 10:22 AM
Analysis Time: 1022
Data File: 102914ICP12

Analyte	MDL	Conc	Filename
Aluminum	0.035	< 0.035	102914ICP12
Barium	0.0017	< 0.0017	102914ICP12
Beryllium	0.0007	< 0.0007	102914ICP12
Copper	0.0053	< 0.0053	102914ICP12
Manganese	0.0012	< 0.0012	102914ICP12
Vanadium	0.0024	< 0.0024	102914ICP12
Zinc	0.0059	< 0.0059	102914ICP12

Standard Type: CCB
Analysis Date: 10/29/2014 11:38 AM
Analysis Time: 1138
Data File: 102914ICP12

Analyte	MDL	Conc	Filename
Aluminum	0.035	< 0.035	102914ICP12
Barium	0.0017	< 0.0017	102914ICP12
Beryllium	0.0007	< 0.0007	102914ICP12
Copper	0.0053	< 0.0053	102914ICP12
Manganese	0.0012	< 0.0012	102914ICP12
Vanadium	0.0024	< 0.0024	102914ICP12
Zinc	0.0059	< 0.0059	102914ICP12

*** - calibrated by linear regression*

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Quality Control Summary
SDG: L729800
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: 10/29/2014 12:32 PM
Analysis Time: 1232
Data File: 102914ICP12

Analyte	MDL	Conc	Filename
Aluminum	0.035	0.0407	102914ICP12
Barium	0.0017	< 0.0017	102914ICP12
Beryllium	0.0007	< 0.0007	102914ICP12
Copper	0.0053	< 0.0053	102914ICP12
Manganese	0.0012	< 0.0012	102914ICP12
Vanadium	0.0024	< 0.0024	102914ICP12
Zinc	0.0059	< 0.0059	102914ICP12

*** - calibrated by linear regression*

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Quality Control Summary
SDG: L729800
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: ICP11

Standard Type: ICB
Analysis Date: 10/28/2014 10:21 AM
Analysis Time: 1021
Data File: 102814ICP11

Analyte	MDL	Conc	Filename
Aluminum	0.035	< 0.035	102814ICP11
Barium	0.0017	< 0.0017	102814ICP11
Beryllium	0.0007	< 0.0007	102814ICP11
Copper	0.0053	0.00862	102814ICP11
Manganese	0.0012	< 0.0012	102814ICP11
Vanadium	0.0024	< 0.0024	102814ICP11
Zinc	0.0059	< 0.0059	102814ICP11

Standard Type: CCB
Analysis Date: 10/28/2014 4:27 PM
Analysis Time: 1627
Data File: 102814ICP11

Analyte	MDL	Conc	Filename
Aluminum	0.035	< 0.035	102814ICP11
Barium	0.0017	< 0.0017	102814ICP11
Beryllium	0.0007	< 0.0007	102814ICP11
Copper	0.0053	0.00899	102814ICP11
Manganese	0.0012	< 0.0012	102814ICP11
Vanadium	0.0024	< 0.0024	102814ICP11
Zinc	0.0059	< 0.0059	102814ICP11

*** - calibrated by linear regression*

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Quality Control Summary
SDG: L729800
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: ICP11

Standard Type: CCB
Analysis Date: 10/28/2014 5:43 PM
Analysis Time: 1743
Data File: 102814ICP11

Analyte	MDL	Conc	Filename
Aluminum	0.035	< 0.035	102814ICP11
Barium	0.0017	< 0.0017	102814ICP11
Beryllium	0.0007	< 0.0007	102814ICP11
Copper	0.0053	0.00907	102814ICP11
Manganese	0.0012	< 0.0012	102814ICP11
Vanadium	0.0024	< 0.0024	102814ICP11
Zinc	0.0059	< 0.0059	102814ICP11

*** - calibrated by linear regression*

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Quality Control Summary
SDG: L729800
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: ICP11

Standard Type: ICB
Analysis Date: 11/5/2014 8:33 AM
Analysis Time: 0833
Data File: 110514ICP11

Analyte	MDL	Conc	Filename
Aluminum	0.035	< 0.035	110514ICP11
Barium	0.0017	< 0.0017	110514ICP11
Beryllium	0.0007	< 0.0007	110514ICP11
Copper	0.0053	< 0.0053	110514ICP11
Manganese	0.0012	< 0.0012	110514ICP11
Vanadium	0.0024	< 0.0024	110514ICP11
Zinc	0.0059	< 0.0059	110514ICP11

Standard Type: CCB
Analysis Date: 11/5/2014 2:47 PM
Analysis Time: 1447
Data File: 110514ICP11

Analyte	MDL	Conc	Filename
Aluminum	0.035	< 0.035	110514ICP11
Barium	0.0017	< 0.0017	110514ICP11
Beryllium	0.0007	< 0.0007	110514ICP11
Copper	0.0053	< 0.0053	110514ICP11
Manganese	0.0012	< 0.0012	110514ICP11
Vanadium	0.0024	< 0.0024	110514ICP11
Zinc	0.0059	< 0.0059	110514ICP11

*** - calibrated by linear regression*

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Quality Control Summary
SDG: L729800
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: ICP11

Standard Type: CCB
Analysis Date: 11/5/2014 4:03 PM
Analysis Time: 1603
Data File: 110514ICP11

Analyte	MDL	Conc	Filename
Aluminum	0.035	< 0.035	110514ICP11
Barium	0.0017	< 0.0017	110514ICP11
Beryllium	0.0007	< 0.0007	110514ICP11
Copper	0.0053	< 0.0053	110514ICP11
Manganese	0.0012	< 0.0012	110514ICP11
Vanadium	0.0024	< 0.0024	110514ICP11
Zinc	0.0059	< 0.0059	110514ICP11

Standard Type: CCB
Analysis Date: 11/5/2014 5:12 PM
Analysis Time: 1712
Data File: 110514ICP11

Analyte	MDL	Conc	Filename
Aluminum	0.035	< 0.035	110514ICP11
Barium	0.0017	< 0.0017	110514ICP11
Beryllium	0.0007	< 0.0007	110514ICP11
Copper	0.0053	< 0.0053	110514ICP11
Manganese	0.0012	< 0.0012	110514ICP11
Vanadium	0.0024	< 0.0024	110514ICP11
Zinc	0.0059	< 0.0059	110514ICP11

*** - calibrated by linear regression*

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Quality Control Summary
SDG: L729800
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: 10/29/2014 10:31 AM
Analysis Time: 1031
Data File: 102914ICP12

Analyte	Conc.	True Value	Recovery	Limits
SILVER	-0.0006	0		80 - 120
ALUMINUM	471	500	94 %	80 - 120
ARSENIC	-0.0002	0		80 - 120
BORON	-0.0028	0		80 - 120
BARIUM	0.0021	0		80 - 120
BERYLLIUM	-0.0001	0		80 - 120
CALCIUM	462	500	92 %	80 - 120
CADMIUM	-0.0009	0		80 - 120
COBALT	0.0010	0		80 - 120
CHROMIUM	0.0012	0		80 - 120
COPPER	-0.0007	0		80 - 120
IRON	187	200	93 %	80 - 120
POTASSIUM	0.0410	0		80 - 120
LITHIUM	0.0047	0		80 - 120
MAGNESIUM	480	500	96 %	80 - 120
MANGANESE	-0.0023	0		80 - 120
MOLYBDENUM	-0.0001	0		80 - 120
SODIUM	0.0729	0		80 - 120
NICKEL	-0.0083	0		80 - 120
LEAD	-0.0347	0		80 - 120
SULFUR	0.0011	0		80 - 120
ANTIMONY	-0.0019	0		80 - 120
SELENIUM	0.0239	0		80 - 120
SILICON	-0.0015	0		80 - 120
TIN	0.0009	0		80 - 120
STRONTIUM	0.0072	0		80 - 120
TITANIUM	0.0048	0		80 - 120
THALLIUM	-0.0054	0		80 - 120
VANADIUM	0.0024	0		80 - 120
ZINC	0.0047	0		80 - 120

*** - calibrated by linear regression*

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Quality Control Summary
SDG: L729800
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: 10/29/2014 10:35 AM
Analysis Time: 1035
Data File: 102914ICP12

Analyte	Conc.	True Value	Recovery	Limits
SILVER	1.11	1.00	111 %	80 - 120
ALUMINUM	469	500	94 %	80 - 120
ARSENIC	0.485	0.500	97 %	80 - 120
BORON	0.928	1.00	93 %	80 - 120
BARIUM	0.449	0.500	90 %	80 - 120
BERYLLIUM	0.464	0.500	93 %	80 - 120
CALCIUM	461	500	92 %	80 - 120
CADMIUM	1.03	1.00	103 %	80 - 120
COBALT	0.484	0.500	97 %	80 - 120
CHROMIUM	0.450	0.500	90 %	80 - 120
COPPER	0.468	0.500	94 %	80 - 120
IRON	186	200	93 %	80 - 120
POTASSIUM	0.0175	0		80 - 120
LITHIUM	0.0047	0		80 - 120
MAGNESIUM	477	500	95 %	80 - 120
MANGANESE	0.450	0.500	90 %	80 - 120
MOLYBDENUM	0.451	0.500	90 %	80 - 120
SODIUM	0.0677	0		80 - 120
NICKEL	0.956	1.00	96 %	80 - 120
LEAD	0.957	1.00	96 %	80 - 120
SULFUR	0.0003	0		80 - 120
ANTIMONY	0.501	0.500	100 %	80 - 120
SELENIUM	0.529	0.500	106 %	80 - 120
SILICON	0.971	1.00	97 %	80 - 120
TIN	0.482	0.500	96 %	80 - 120
STRONTIUM	0.0074	0		80 - 120
TITANIUM	0.465	0.500	93 %	80 - 120
THALLIUM	0.471	0.500	94 %	80 - 120
VANADIUM	0.455	0.500	91 %	80 - 120
ZINC	0.868	1.00	87 %	80 - 120

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Quality Control Summary
SDG: L729800
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: 10/29/2014 1:58 PM
Analysis Time: 1358
Data File: 102914ICP12

Analyte	Conc.	True Value	Recovery	Limits
SILVER	-0.0002	0		80 - 120
ALUMINUM	449	500	90 %	80 - 120
ARSENIC	-0.0032	0		80 - 120
BORON	0.0007	0		80 - 120
BARIUM	0.0022	0		80 - 120
BERYLLIUM	0.0000	0		80 - 120
CALCIUM	466	500	93 %	80 - 120
CADMIUM	-0.0011	0		80 - 120
COBALT	0.0011	0		80 - 120
CHROMIUM	0.0016	0		80 - 120
COPPER	-0.0036	0		80 - 120
IRON	188	200	94 %	80 - 120
POTASSIUM	0.0177	0		80 - 120
LITHIUM	0.0045	0		80 - 120
MAGNESIUM	488	500	98 %	80 - 120
MANGANESE	-0.0022	0		80 - 120
MOLYBDENUM	-0.0002	0		80 - 120
SODIUM	0.0515	0		80 - 120
NICKEL	-0.0083	0		80 - 120
LEAD	-0.0377	0		80 - 120
SULFUR	0.0120	0		80 - 120
ANTIMONY	-0.0073	0		80 - 120
SELENIUM	0.0215	0		80 - 120
SILICON	0.0039	0		80 - 120
TIN	0.0016	0		80 - 120
STRONTIUM	0.0073	0		80 - 120
TITANIUM	0.0038	0		80 - 120
THALLIUM	-0.0049	0		80 - 120
VANADIUM	0.0002	0		80 - 120
ZINC	0.0049	0		80 - 120

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Quality Control Summary
SDG: L729800
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: 10/29/2014 2:02 PM
Analysis Time: 1402
Data File: 102914ICP12

Analyte	Conc.	True Value	Recovery	Limits
SILVER	1.15	1.00	115 %	80 - 120
ALUMINUM	447	500	89 %	80 - 120
ARSENIC	0.481	0.500	96 %	80 - 120
BORON	0.931	1.00	93 %	80 - 120
BARIUM	0.443	0.500	89 %	80 - 120
BERYLLIUM	0.441	0.500	88 %	80 - 120
CALCIUM	463	500	93 %	80 - 120
CADMIUM	1.03	1.00	103 %	80 - 120
COBALT	0.488	0.500	98 %	80 - 120
CHROMIUM	0.475	0.500	95 %	80 - 120
COPPER	0.452	0.500	90 %	80 - 120
IRON	187	200	94 %	80 - 120
POTASSIUM	0.0240	0		80 - 120
LITHIUM	0.0048	0		80 - 120
MAGNESIUM	485	500	97 %	80 - 120
MANGANESE	0.487	0.500	97 %	80 - 120
MOLYBDENUM	0.449	0.500	90 %	80 - 120
SODIUM	0.0465	0		80 - 120
NICKEL	0.986	1.00	99 %	80 - 120
LEAD	0.985	1.00	99 %	80 - 120
SULFUR	0.0103	0		80 - 120
ANTIMONY	0.477	0.500	95 %	80 - 120
SELENIUM	0.526	0.500	105 %	80 - 120
SILICON	1.01	1.00	101 %	80 - 120
TIN	0.497	0.500	99 %	80 - 120
STRONTIUM	0.0081	0		80 - 120
TITANIUM	0.465	0.500	93 %	80 - 120
THALLIUM	0.469	0.500	94 %	80 - 120
VANADIUM	0.458	0.500	92 %	80 - 120
ZINC	0.897	1.00	90 %	80 - 120

*** - calibrated by linear regression*

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Quality Control Summary
SDG: L729800
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: ICP11

Standard Type : ICSA
Analysis Date: 10/28/2014 10:26 AM
Analysis Time: 1026
Data File: 102814ICP11

Analyte	Conc.	True Value	Recovery	Limits
SILVER	-0.0070	0		80 - 120
ALUMINUM	537	500	107 %	80 - 120
ARSENIC	-0.0033	0		80 - 120
BORON	0.240	0		80 - 120
BARIUM	-0.0006	0		80 - 120
BERYLLIUM	-0.0006	0		80 - 120
CALCIUM	474	500	95 %	80 - 120
CADMIUM	-0.0011	0		80 - 120
COBALT	-0.0008	0		80 - 120
CHROMIUM	-0.0033	0		80 - 120
COPPER	-0.0086	0		80 - 120
IRON	191	200	96 %	80 - 120
POTASSIUM	0.0033	0		80 - 120
LITHIUM	-0.0024	0		80 - 120
MAGNESIUM	546	500	109 %	80 - 120
MANGANESE	-0.0194	0		80 - 120
MOLYBDENUM	0.0013	0		80 - 120
SODIUM	0.0414	0		80 - 120
NICKEL	0.0221	0		80 - 120
LEAD	-0.0004	0		80 - 120
ANTIMONY	0.0013	0		80 - 120
SELENIUM	0.0408	0		80 - 120
SILICON	-0.0210	0		80 - 120
TIN	0.0114	0		80 - 120
STRONTIUM	0.0001	0		80 - 120
TITANIUM	-0.0213	0		80 - 120
THALLIUM	-0.0048	0		80 - 120
VANADIUM	-0.0012	0		80 - 120
ZINC	-0.0148	0		80 - 120

*** - calibrated by linear regression*

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Quality Control Summary
SDG: L729800
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: ICP11

Standard Type : ICSAB
Analysis Date: 10/28/2014 10:33 AM
Analysis Time: 1033
Data File: 102814ICP11

Analyte	Conc.	True Value	Recovery	Limits
SILVER	1.02	1.00	102 %	80 - 120
ALUMINUM	525	500	105 %	80 - 120
ARSENIC	0.469	0.500	94 %	80 - 120
BORON	1.22	1.00	122 %	80 - 120
BARIUM	0.492	0.500	98 %	80 - 120
BERYLLIUM	0.489	0.500	98 %	80 - 120
CALCIUM	471	500	94 %	80 - 120
CADMIUM	0.904	1.00	90 %	80 - 120
COBALT	0.463	0.500	93 %	80 - 120
CHROMIUM	0.480	0.500	96 %	80 - 120
COPPER	0.470	0.500	94 %	80 - 120
IRON	192	200	96 %	80 - 120
POTASSIUM	0.0450	0		80 - 120
LITHIUM	-0.0013	0		80 - 120
MAGNESIUM	547	500	109 %	80 - 120
MANGANESE	0.447	0.500	89 %	80 - 120
MOLYBDENUM	0.478	0.500	96 %	80 - 120
SODIUM	0.0794	0		80 - 120
NICKEL	1.02	1.00	102 %	80 - 120
LEAD	0.940	1.00	94 %	80 - 120
ANTIMONY	0.503	0.500	101 %	80 - 120
SELENIUM	0.527	0.500	105 %	80 - 120
SILICON	0.997	1.00	100 %	80 - 120
TIN	0.471	0.500	94 %	80 - 120
STRONTIUM	0.0004	0		80 - 120
TITANIUM	0.460	0.500	92 %	80 - 120
THALLIUM	0.462	0.500	92 %	80 - 120
VANADIUM	0.472	0.500	94 %	80 - 120
ZINC	0.924	1.00	92 %	80 - 120

*** - calibrated by linear regression*

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Quality Control Summary
SDG: L729800
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: ICP11

Standard Type : ICSA
Analysis Date: 11/5/2014 8:38 AM
Analysis Time: 0838
Data File: 110514ICP11

Analyte	Conc.	True Value	Recovery	Limits
SILVER	-0.0072	0		80 - 120
ALUMINUM	511	500	102 %	80 - 120
ARSENIC	0.0022	0		80 - 120
BORON	0.278	0		80 - 120
BARIUM	-0.0008	0		80 - 120
BERYLLIUM	-0.0006	0		80 - 120
CALCIUM	468	500	94 %	80 - 120
CADMIUM	-0.0015	0		80 - 120
COBALT	-0.0009	0		80 - 120
CHROMIUM	-0.0017	0		80 - 120
COPPER	-0.0135	0		80 - 120
IRON	189	200	95 %	80 - 120
POTASSIUM	0.140	0		80 - 120
LITHIUM	-0.0028	0		80 - 120
MAGNESIUM	538	500	108 %	80 - 120
MANGANESE	-0.0188	0		80 - 120
MOLYBDENUM	0.0007	0		80 - 120
SODIUM	-0.0289	0		80 - 120
NICKEL	0.0076	0		80 - 120
LEAD	-0.0082	0		80 - 120
ANTIMONY	-0.0060	0		80 - 120
SELENIUM	0.0389	0		80 - 120
SILICON	-0.0223	0		80 - 120
TIN	0.0103	0		80 - 120
STRONTIUM	0.0002	0		80 - 120
TITANIUM	-0.0212	0		80 - 120
THALLIUM	-0.0036	0		80 - 120
VANADIUM	-0.0013	0		80 - 120
ZINC	-0.0173	0		80 - 120

*** - calibrated by linear regression*

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Quality Control Summary
SDG: L729800
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: ICP11

Standard Type : ICSAB
Analysis Date: 11/5/2014 8:44 AM
Analysis Time: 0844
Data File: 110514ICP11

Analyte	Conc.	True Value	Recovery	Limits
SILVER	1.02	1.00	102 %	80 - 120
ALUMINUM	512	500	102 %	80 - 120
ARSENIC	0.478	0.500	96 %	80 - 120
BORON	1.24	1.00	124 %	80 - 120
BARIUM	0.508	0.500	102 %	80 - 120
BERYLLIUM	0.491	0.500	98 %	80 - 120
CALCIUM	460	500	92 %	80 - 120
CADMIUM	0.921	1.00	92 %	80 - 120
COBALT	0.472	0.500	94 %	80 - 120
CHROMIUM	0.489	0.500	98 %	80 - 120
COPPER	0.477	0.500	95 %	80 - 120
IRON	190	200	95 %	80 - 120
POTASSIUM	0.147	0		80 - 120
LITHIUM	-0.0021	0		80 - 120
MAGNESIUM	539	500	108 %	80 - 120
MANGANESE	0.451	0.500	90 %	80 - 120
MOLYBDENUM	0.483	0.500	97 %	80 - 120
SODIUM	-0.0284	0		80 - 120
NICKEL	1.03	1.00	103 %	80 - 120
LEAD	0.942	1.00	94 %	80 - 120
ANTIMONY	0.494	0.500	99 %	80 - 120
SELENIUM	0.510	0.500	102 %	80 - 120
SILICON	0.991	1.00	99 %	80 - 120
TIN	0.470	0.500	94 %	80 - 120
STRONTIUM	0.0003	0		80 - 120
TITANIUM	0.463	0.500	93 %	80 - 120
THALLIUM	0.466	0.500	93 %	80 - 120
VANADIUM	0.477	0.500	95 %	80 - 120
ZINC	0.922	1.00	92 %	80 - 120

*** - calibrated by linear regression*

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Quality Control Summary
SDG: L729800
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: ICP11

Standard Type : ICSA
Analysis Date: 11/5/2014 10:26 PM
Analysis Time: 2226
Data File: 110514ICP11

Analyte	Conc.	True Value	Recovery	Limits
SILVER	-0.0064	0		80 - 120
ALUMINUM	546	500	109 %	80 - 120
ARSENIC	-0.0039	0		80 - 120
BORON	0.324	0		80 - 120
BARIUM	-0.0007	0		80 - 120
BERYLLIUM	-0.0006	0		80 - 120
CALCIUM	486	500	97 %	80 - 120
CADMIUM	-0.0012	0		80 - 120
COBALT	0.0000	0		80 - 120
CHROMIUM	-0.0013	0		80 - 120
COPPER	-0.0163	0		80 - 120
IRON	191	200	95 %	80 - 120
POTASSIUM	-0.0752	0		80 - 120
LITHIUM	-0.0036	0		80 - 120
MAGNESIUM	548	500	110 %	80 - 120
MANGANESE	-0.0189	0		80 - 120
MOLYBDENUM	0.0008	0		80 - 120
SODIUM	0.0958	0		80 - 120
NICKEL	0.0083	0		80 - 120
LEAD	-0.0066	0		80 - 120
ANTIMONY	-0.0075	0		80 - 120
SELENIUM	0.0166	0		80 - 120
SILICON	-0.0519	0		80 - 120
TIN	0.0100	0		80 - 120
STRONTIUM	0.0002	0		80 - 120
TITANIUM	-0.0213	0		80 - 120
THALLIUM	-0.0053	0		80 - 120
VANADIUM	-0.0019	0		80 - 120
ZINC	-0.0131	0		80 - 120

*** - calibrated by linear regression*

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Quality Control Summary
SDG: L729800
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: ICP11

Standard Type : ICSAB
Analysis Date: 11/5/2014 10:32 PM
Analysis Time: 2232
Data File: 110514ICP11

Analyte	Conc.	True Value	Recovery	Limits
SILVER	1.04	1.00	104 %	80 - 120
ALUMINUM	520	500	104 %	80 - 120
ARSENIC	0.495	0.500	99 %	80 - 120
BORON	1.30	1.00	130 %	80 - 120
BARIUM	0.491	0.500	98 %	80 - 120
BERYLLIUM	0.502	0.500	100 %	80 - 120
CALCIUM	484	500	97 %	80 - 120
CADMIUM	0.960	1.00	96 %	80 - 120
COBALT	0.480	0.500	96 %	80 - 120
CHROMIUM	0.495	0.500	99 %	80 - 120
COPPER	0.481	0.500	96 %	80 - 120
IRON	192	200	96 %	80 - 120
POTASSIUM	-0.0345	0		80 - 120
LITHIUM	-0.0031	0		80 - 120
MAGNESIUM	553	500	111 %	80 - 120
MANGANESE	0.470	0.500	94 %	80 - 120
MOLYBDENUM	0.486	0.500	97 %	80 - 120
SODIUM	0.133	0		80 - 120
NICKEL	1.05	1.00	105 %	80 - 120
LEAD	0.961	1.00	96 %	80 - 120
ANTIMONY	0.500	0.500	100 %	80 - 120
SELENIUM	0.527	0.500	105 %	80 - 120
SILICON	1.01	1.00	101 %	80 - 120
TIN	0.478	0.500	96 %	80 - 120
STRONTIUM	0.0002	0		80 - 120
TITANIUM	0.481	0.500	96 %	80 - 120
THALLIUM	0.467	0.500	93 %	80 - 120
VANADIUM	0.486	0.500	97 %	80 - 120
ZINC	0.954	1.00	95 %	80 - 120

*** - calibrated by linear regression*

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Quality Control Summary
SDG: L729800
URS Corporation - Tucson AZ - 1088308

Project No: 23446543.0053AA
Project: Holloman AFB EPA ID: TN00003
Instrument ID: ICP12 Method: ICP-AES Run Number: 102914ICP12

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	0943	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	0947	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	0951		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	0955		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	1000			X	X	X	X		X	X	X	X	X		X		X	X	X			X		X	X	X		X	X	X	X
STD4 14J27630	1	1004	X			X				X				X			X				X				X		X					
STD5 14J08650	1	1008	X							X				X			X				X				X		X					
STD6 14I24985	1	1013	X							X				X			X				X				X		X					
ICV	1	1017	X			X	X						X					X													X	X
ICB	1	1022	X			X	X						X					X													X	X
ICVLL	1	1026	X			X	X						X					X													X	X
ICSA	1	1031	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	1035	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
BLANK WG750950	1	1044	X			X	X						X					X													X	X
LCS WG750950	1	1048	X			X	X						X					X													X	X
LCSD WG750950	1	1052	X			X	X						X					X													X	X
L729559-02SD WG750950	25	1101	X			X	X						X					X													X	X
L729559-02MS WG750950	5	1105	X			X	X						X					X													X	X
L729559-02MSD WG750950	5	1109	X			X	X						X					X													X	X
CCV	1	1133	X			X	X						X					X													X	X
CCB	1	1138	X			X	X						X					X													X	X
L729800-01 WG750950	5	1147	X			X	X						X					X													X	X
L729800-01MS WG750950	5	1151	X			X	X						X					X													X	X
L729800-01MSD WG750950	5	1156	X			X	X						X					X													X	X
CCV	1	1226	X			X	X						X					X													X	X
CCB	1	1232	X			X	X						X					X													X	X
CCVLL	1	1354	X			X	X						X					X													X	X
ICSA	1	1358	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	1402	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

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Quality Control Summary
SDG: L729800
URS Corporation - Tucson AZ - 1088308

Project No: 23446543.0053AA
Project: Holloman AFB EPA ID: TN00003
Instrument ID: ICP11 Method: ICP-AES Run Number: 102814ICP11

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	0942	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 14J27638	1	0947	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
STD2 14J27638	1	0952	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
STD3 14J27638	1	0957	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
STD4 14J27638	1	1002	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
ICV	1	1007	X			X	X						X					X													X	X
ICVLL	1	1016	X			X	X						X					X													X	X
ICB	1	1021	X			X	X						X					X													X	X
ICSA	1	1026	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	1033	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
CCV	1	1622	X			X	X						X					X													X	X
CCB	1	1627	X			X	X						X					X													X	X
BLANK WG751198	1	1640	X			X	X						X					X													X	X
LCS WG751198	1	1645	X			X	X						X					X													X	X
LCSD WG751198	1	1650	X			X	X						X					X													X	X
L729798-03SD WG751198	5	1702	X			X	X						X					X													X	X
L729798-03MS WG751198	1	1707	X			X	X						X					X													X	X
L729798-03MSD WG751198	1	1713	X			X	X						X					X													X	X
L729800-02 WG751198	1	1732	X			X	X						X					X													X	X
CCV	1	1738	X			X	X						X					X													X	X
CCB	1	1743	X			X	X						X					X													X	X
CCVLL	1	1809	X			X	X						X					X													X	X

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Quality Control Summary
SDG: L729800
URS Corporation - Tucson AZ - 1088308

Project No: 23446543.0053AA
Project: Holloman AFB EPA ID: TN00003
Instrument ID: ICP11 Method: ICP-AES Run Number: 110514ICP11

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	0747	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 14J27638	1	0752	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
STD2 14J27638	1	0757	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
STD3 14J27638	1	0802	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
STD4 14J27638	1	0807	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
ICV	1	0813	X			X	X						X					X													X	X
ICVLL	1	0828	X			X	X						X					X													X	X
ICB	1	0833	X			X	X						X					X													X	X
ICSA	1	0838	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	0844	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	1034	X			X	X						X					X													X	X
CCVLL	1	1324	X			X	X						X					X													X	X
CCV	1	1442	X			X	X						X					X													X	X
CCB	1	1447	X			X	X						X					X													X	X
CCVLL	1	1452	X			X	X						X					X													X	X
BLANK WG752582	1	1507	X			X	X						X					X													X	X
LCS WG752582	1	1511	X			X	X						X					X													X	X
LCSD WG752582	1	1516	X			X	X						X					X													X	X
L729800-02 WG752582	5	1521	X			X	X						X					X													X	X
L729800-02SD WG752582	25	1526	X			X	X						X					X													X	X
L729800-02PS WG752582	5	1531	X			X	X						X					X													X	X
L729800-02MS WG752582	5	1537	X			X	X						X					X													X	X
L729800-02MSD WG752582	5	1542	X			X	X						X					X													X	X
CCV	1	1558	X			X	X						X					X													X	X
CCB	1	1603	X			X	X						X					X													X	X
L730147-06MS WG752582	5	1613	X			X	X						X					X													X	X
L730147-06MSD WG752582	5	1618	X			X	X						X					X													X	X
L730147-17MS WG752582	5	1657	X			X	X						X					X													X	X
L730147-17MSD WG752582	5	1702	X			X	X						X					X													X	X
CCV	1	1707	X			X	X						X					X													X	X
CCB	1	1712	X			X	X						X					X													X	X
CCVLL	1	1738	X			X	X						X					X													X	X
CCVLL	1	2153	X			X	X						X					X													X	X
ICSA	1	2226	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	2232	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

Sample ID: ICVLL
Analysis Date: 10/28/14 10:16 Standard ID: 14J27641
Sequence: 7

QC Parameters

Exp	Parameter	Units	Intensity	Uncorrected Result	Corrected Result	RSD	%Rec	LL	HL	TV	CorCoef
N	YTTRIUM	mg/L	2668121	100.0053	100.0053	2.321032	100	60	140	2667981	

Target Parameters

Exp	Parameter	Units	Uncorrected Result	Corrected Result	RSD	%Rec	LL	HL	TV	CorCoef
Y	ALUMINUM	mg/L	0.1032763	0.1032763	21.85528	103	50	150	0.10	0.9999771
Y	ANTIMONY	mg/L	0.01864739	0.01864739	16.32288	93	50	150	0.02	0.9999916
Y	ARSENIC	mg/L	0.02113932	0.02113932	27.09778	106	50	150	0.02	0.9999932
Y	BARIUM	mg/L	0.005597052	0.005597052	3.307213	112	50	150	0.0050	0.9998050
Y	BERYLLIUM	mg/L	0.002046448	0.002046448	4.509131	102	50	150	0.0020	0.9999948
Y	BORON	mg/L	0.2106587	0.2106587	2.502691	105	50	150	0.20	0.9999613
Y	CADMIUM	mg/L	0.005322485	0.005322485	5.731702	106	50	150	0.0050	0.9998115
Y	CALCIUM	mg/L	0.4898767	0.4898767	0.6641115	98	50	150	0.50	0.9999850
Y	CHROMIUM	mg/L	0.01053719	0.01053719	2.326425	105	50	150	0.01	0.9998558
Y	COBALT	mg/L	0.01137889	0.01137889	5.594211	114	50	150	0.01	0.9998097
Y	COPPER	mg/L	0.02980152	0.02980152	3.026518	149	50	150	0.02	0.9998841
Y	IRON	mg/L	0.1114026	0.1114026	2.994383	111	50	150	0.10	0.9999633
Y	LEAD	mg/L	0.002939951	0.002939951	61.09840	59	50	150	0.0050	0.9999529
Y	LITHIUM	mg/L	0.01720775	0.01720775	2.507548	115	50	150	0.0150	0.9999676
Y	MAGNESIUM	mg/L	0.1112430	0.1112430	2.471943	111	50	150	0.10	0.9999970
Y	MANGANESE	mg/L	0.01038552	0.01038552	3.515287	104	50	150	0.01	0.9999930
Y	MOLYBDENUM	mg/L	0.005425810	0.005425810	4.308737	109	50	150	0.0050	0.9999998
Y	NICKEL	mg/L	0.02150434	0.02150434	10.72750	108	50	150	0.02	0.9999558
Y	POTASSIUM	mg/L	0.5380315	0.5380315	6.750410	108	50	150	0.50	0.9999954
Y	SELENIUM	mg/L	0.02397010	0.02397010	24.10233	120	50	150	0.02	0.9999936
Y	SILICON	mg/L	0.1903456	0.1903456	3.904424	95	50	150	0.20	0.9999888
Y	SILVER	mg/L	0.01044793	0.01044793	0.5954005	104	50	150	0.01	0.9998968
Y	SODIUM	mg/L	0.5593439	0.5593439	1.642696	112	50	150	0.50	0.9999865
Y	STRONTIUM	mg/L	0.009977814	0.009977814	0.3525340	100	50	150	0.01	0.9999901
Y	THALLIUM	mg/L	0.02193768	0.02193768	16.70432	110	50	150	0.02	0.9999429
Y	TIN	mg/L	0.02269671	0.02269671	1.921137	113	50	150	0.02	0.9999997
Y	TITANIUM	mg/L	0.01048012	0.01048012	2.594864	105	50	150	0.01	0.9999998
Y	VANADIUM	mg/L	0.009966469	0.009966469	3.130203	100	50	150	0.01	0.9999791
Y	ZINC	mg/L	0.03082046	0.03082046	3.555935	103	50	150	0.03	0.9999056

Sample ID: CCVLL
Analysis Date: 10/28/14 18:09 Standard ID: 14J27641
Sequence: 92

QC Parameters

Exp	Parameter	Units	Intensity	Uncorrected Result	Corrected Result	RSD	%Rec	LL	HL	TV	CorCoef
N	YTTRIUM	mg/L	2813065	105.4380	105.4380	1.801950	105	60	140	2667981	

Target Parameters

Exp	Parameter	Units	Uncorrected Result	Corrected Result	RSD	%Rec	LL	HL	TV	CorCoef
Y	ALUMINUM	mg/L	0.1018697	0.1018697	19.54364	102	1	200	0.10	0.9999771
Y	ANTIMONY	mg/L	0.01320978	0.01320978	11.91693	66	1	200	0.02	0.9999916
Y	ARSENIC	mg/L	0.02824288	0.02824288	27.38419	141	1	200	0.02	0.9999932
Y	BARIUM	mg/L	0.005431867	0.005431867	1.313801	109	1	200	0.0050	0.9998050
Y	BERYLLIUM	mg/L	0.001900180	0.001900180	4.477163	95	1	200	0.0020	0.9999948
Y	BORON	mg/L	0.1965552	0.1965552	2.493920	98	1	200	0.20	0.9999613
Y	CADMIUM	mg/L	0.004649527	0.004649527	5.984566	93	1	200	0.0050	0.9998115
Y	CALCIUM	mg/L	0.5083557	0.5083557	0.4846472	102	1	200	0.50	0.9999850
Y	CHROMIUM	mg/L	0.01006494	0.01006494	3.263106	101	1	200	0.01	0.9998558
Y	COBALT	mg/L	0.01087740	0.01087740	4.206394	109	1	200	0.01	0.9998097
Y	COPPER	mg/L	0.01972409	0.01972409	3.704239	99	1	200	0.02	0.9998841
Y	IRON	mg/L	0.1090033	0.1090033	2.058870	109	1	200	0.10	0.9999633
Y	LEAD	mg/L	0.003421896	0.003421896	28.20990	68	1	200	0.0050	0.9999529
Y	LITHIUM	mg/L	0.01704652	0.01704652	2.625702	114	1	200	0.0150	0.9999676
Y	MAGNESIUM	mg/L	0.1124197	0.1124197	0.7491205	112	1	200	0.10	0.9999970
Y	MANGANESE	mg/L	0.009940128	0.009940128	2.532364	99	1	200	0.01	0.9999930
Y	MOLYBDENUM	mg/L	0.005412800	0.005412800	13.27828	108	1	200	0.0050	0.9999998
Y	NICKEL	mg/L	0.02558531	0.02558531	13.79454	128	1	200	0.02	0.9999558
Y	POTASSIUM	mg/L	0.5221989	0.5221989	6.440787	104	1	200	0.50	0.9999954
Y	SELENIUM	mg/L	0.01950032	0.01950032	31.67675	98	1	200	0.02	0.9999936
Y	SILICON	mg/L	0.1817477	0.1817477	3.579092	91	1	200	0.20	0.9999888
Y	SILVER	mg/L	0.01022180	0.01022180	1.320189	102	1	200	0.01	0.9998968
Y	SODIUM	mg/L	0.8423398	0.8423398	1.269625	168	1	200	0.50	0.9999865
Y	STRONTIUM	mg/L	0.009721514	0.009721514	0.7373667	97	1	200	0.01	0.9999901
Y	THALLIUM	mg/L	0.02478458	0.02478458	5.211444	124	1	200	0.02	0.9999429
Y	TIN	mg/L	0.02132987	0.02132987	1.106225	107	1	200	0.02	0.9999997
Y	TITANIUM	mg/L	0.009865031	0.009865031	1.807710	99	1	200	0.01	0.9999998
Y	VANADIUM	mg/L	0.009870931	0.009870931	3.042098	99	1	200	0.01	0.9999791
Y	ZINC	mg/L	0.02987485	0.02987485	1.810108	100	1	200	0.03	0.9999056

Sample ID: ICVLL
Analysis Date: 10/29/14 10:26 Standard ID: 14G16199
Sequence: 24

QC Parameters

Exp	Parameter	Units	Intensity	Uncorrected Result	Corrected Result	RSD	%Rec	LL	HL	TV	CorCoef
N	YTTRIUM	%	10968.40	100.9227	100.9227	0.08348905	101	60	140	10868.12	
N	INDIUM	%	3748.101	100.4379	100.4379	0.1177063	100	60	140	3731.759	
N	YTTRIUM	%	4624.656	100.3979	100.3979	0.4364345	100	60	140	4606.328	
N	YTTRIUM	%	172324.7	99.75799	99.75799	0.3083334	100	60	140	172742.7	

Target Parameters

Exp	Parameter	Units	Uncorrected Result	Corrected Result	RSD	%Rec	LL	HL	TV	CorCoef	
Y	ALUMINUM	ppm	0.08525966	0.08525966	38.15875	85	50	150	0.10	0.9999994	
Y	ANTIMONY	ppm	0.01899457	0.01899457	4.020653	95	50	150	0.02	0.9999786	
Y	ARSENIC	ppm	0.01935203	0.01935203	7.439817	97	50	150	0.02	0.9995962	
Y	BARIUM	ppm	0.005143911	0.005143911	1.889474	103	50	150	0.0050	0.9999921	
Y	BERYLLIUM	ppm	0.001873052	0.001873052	2.176468	94	50	150	0.0020	0.9999988	
Y	BORON	ppm	0.1987030	0.1987030	3.563600	99	50	150	0.20	0.9998606	
Y	CADMIUM	ppm	0.005235632	0.005235632	2.081421	105	50	150	0.0050	0.9999946	
Y	CALCIUM	ppm	0.4575567	0.4575567	0.6300998	92	50	150	0.50	0.9999571	
Y	CHROMIUM	ppm	0.01065873	0.01065873	1.646720	107	50	150	0.01	0.9999779	
Y	COBALT	ppm	0.009894886	0.009894886	1.908853	99	50	150	0.01	0.9996191	
Y	COPPER	ppm	0.01716066	0.01716066	12.27826	86	50	150	0.02	0.9998741	
Y	IRON	ppm	0.08997042	0.08997042	5.880206	90	50	150	0.10	0.9999809	
Y	LEAD	ppm	0.005247402	0.005247402	18.10011	105	50	150	0.0050	0.9999623	
Y	LITHIUM	ppm	0.01491111	0.01491111	1.822628	99	50	150	0.0150	0.9999232	
Y	MAGNESIUM	ppm	0.08781374	0.08781374	28.14549	88	50	150	0.10	0.9998328	
Y	MANGANESE	ppm	0.01031047	0.01031047	0.1111908	103	50	150	0.01	0.9999494	
Y	MOLYBDENUM	ppm	0.005042240	0.005042240	0.3345870	101	50	150	0.0050	0.9999994	
Y	NICKEL	ppm	0.01915406	0.01915406	0.2490268	96	50	150	0.02	0.9995309	
Y	POTASSIUM	ppm	0.4665551	0.4665551	0.6496165	93	50	150	0.50	0.9996955	
Y	SELENIUM	ppm	0.02076511	0.02076511	6.272416	104	50	150	0.02	0.9999684	
Y	SILICON	ppm	0.1845137	0.1845137	1.011263	92	50	150	0.20	0.9997518	
Y	SILVER	ppm	0.009671052	0.009671052	5.253060	97	50	150	0.01	0.9999467	
Y	SODIUM	ppm	0.5087244	0.5087244	0.8783683	102	50	150	0.50	0.9999827	
Y	STRONTIUM	ppm	0.009970616	0.009970616	0.9296761	100	50	150	0.01	0.9999447	
Y	SULFUR	ppm	4.458076	4.458076	0.3047979	446	50	150	1	0.9997227	NT
Y	THALLIUM	ppm	0.01992674	0.01992674	5.399712	100	50	150	0.02	0.9999546	
Y	TIN	ppm	0.01902127	0.01902127	1.566237	95	50	150	0.02	0.9991776	

Sample ID: ICVLL
Analysis Date: 10/29/14 10:26 Standard ID: 14G16199
Sequence: 24

Target Parameters cont'd.

Exp	Parameter	Units	Uncorrected Result	Corrected Result	RSD	%Rec	LL	HL	TV	CorCoef
Y	TITANIUM	ppm	0.01077957	0.01077957	9.277648	108	50	150	0.01	0.9999011
Y	VANADIUM	ppm	0.002234425	0.002234425	147.4773	22	50	150	0.01	0.9999242
Y	ZINC	ppm	0.02928402	0.02928402	0.1013528	98	50	150	0.03	0.9999960

Sample ID: CCVLL
Analysis Date: 10/29/14 13:54 Standard ID: 14G16199
Sequence: 70

QC Parameters

Exp	Parameter	Units	Intensity	Uncorrected Result	Corrected Result	RSD	%Rec	LL	HL	TV	CorCoef
N	YTTRIUM	%	11051.80	101.6901	101.6901	0.1762716	102	60	140	10868.12	
N	INDIUM	%	3751.621	100.5322	100.5322	0.09781760	101	60	140	3731.759	
N	YTTRIUM	%	4834.472	104.9528	104.9528	7.732727	105	60	140	4606.328	
N	YTTRIUM	%	166606.6	96.44784	96.44784	0.1673001	96	60	140	172742.7	

Target Parameters

Exp	Parameter	Units	Uncorrected Result	Corrected Result	RSD	%Rec	LL	HL	TV	CorCoef
Y	ALUMINUM	ppm	0.08454718	0.08454718	72.83774	85	1	200	0.10	0.9999994
Y	ANTIMONY	ppm	0.01975519	0.01975519	2.472517	99	1	200	0.02	0.9999786
Y	ARSENIC	ppm	0.01725974	0.01725974	2.935616	86	1	200	0.02	0.9995962
Y	BARIUM	ppm	0.004939296	0.004939296	0.7443222	99	1	200	0.0050	0.9999921
Y	BERYLLIUM	ppm	0.001523937	0.001523937	20.03837	76	1	200	0.0020	0.9999988
Y	BORON	ppm	0.1759385	0.1759385	17.93235	88	1	200	0.20	0.9998606
Y	CADMIUM	ppm	0.005122797	0.005122797	1.426235	102	1	200	0.0050	0.9999946
Y	CALCIUM	ppm	0.4175571	0.4175571	11.10126	84	1	200	0.50	0.9999571
Y	CHROMIUM	ppm	0.01064634	0.01064634	6.907395	106	1	200	0.01	0.9999779
Y	COBALT	ppm	0.009703911	0.009703911	2.392195	97	1	200	0.01	0.9996191
Y	COPPER	ppm	0.01606047	0.01606047	30.84297	80	1	200	0.02	0.9998741
Y	IRON	ppm	0.08356035	0.08356035	21.89167	84	1	200	0.10	0.9999809
Y	LEAD	ppm	0.005733366	0.005733366	12.97919	115	1	200	0.0050	0.9999623
Y	LITHIUM	ppm	0.01330545	0.01330545	10.86744	89	1	200	0.0150	0.9999232
Y	MAGNESIUM	ppm	0.07628848	0.07628848	12.40886	76	1	200	0.10	0.9998328
Y	MANGANESE	ppm	0.01095312	0.01095312	0.8301476	110	1	200	0.01	0.9999494
Y	MOLYBDENUM	ppm	0.004909974	0.004909974	2.362759	98	1	200	0.0050	0.9999994
Y	NICKEL	ppm	0.01984498	0.01984498	1.022283	99	1	200	0.02	0.9995309
Y	POTASSIUM	ppm	0.3867367	0.3867367	12.35120	77	1	200	0.50	0.9996955
Y	SELENIUM	ppm	0.02066768	0.02066768	10.18538	103	1	200	0.02	0.9999684
Y	SILICON	ppm	0.1872888	0.1872888	1.082993	94	1	200	0.20	0.9997518
Y	SILVER	ppm	0.009714444	0.009714444	3.770827	97	1	200	0.01	0.9999467
Y	SODIUM	ppm	0.4368362	0.4368362	11.31303	87	1	200	0.50	0.9999827
Y	STRONTIUM	ppm	0.009123144	0.009123144	9.394387	91	1	200	0.01	0.9999447
N	SULFUR	ppm	4.257612	4.257612	0.1868961	426			1	0.9997227
Y	THALLIUM	ppm	0.01961613	0.01961613	3.971546	98	1	200	0.02	0.9999546
Y	TIN	ppm	0.01950344	0.01950344	1.227406	98	1	200	0.02	0.9991776

Sample ID: CCVLL
Analysis Date: 10/29/14 13:54 Standard ID: 14G16199
Sequence: 70

Target Parameters cont'd.

Exp	Parameter	Units	Uncorrected Result	Corrected Result	RSD	%Rec	LL	HL	TV	CorCoef
Y	TITANIUM	ppm	0.009469241	0.009469241	17.48739	95	1	200	0.01	0.9999011
Y	VANADIUM	ppm	0.005543660	0.005543660	33.28306	55	1	200	0.01	0.9999242
Y	ZINC	ppm	0.03032009	0.03032009	0.3438269	101	1	200	0.03	0.9999960

Sample ID: ICVLL-2
Analysis Date: 11/05/14 08:28 Standard ID: 14J27641
Sequence: 7

QC Parameters

Exp	Parameter	Units	Intensity	Uncorrected Result	Corrected Result	RSD	%Rec	LL	HL	TV	CorCoef
N	YTTRIUM	mg/L	2635219	100.5077	100.5077	0.7612917	101	60	140	2621908	

Target Parameters

Exp	Parameter	Units	Uncorrected Result	Corrected Result	RSD	%Rec	LL	HL	TV	CorCoef
Y	ALUMINUM	mg/L	0.09211858	0.09211858	17.27017	92	50	150	0.10	0.9999313
Y	ANTIMONY	mg/L	0.01558503	0.01558503	12.04743	78	50	150	0.02	0.9999347
Y	ARSENIC	mg/L	0.01783192	0.01783192	3.334815	89	50	150	0.02	0.9999636
Y	BARIUM	mg/L	0.005344224	0.005344224	1.075288	107	50	150	0.0050	0.9999845
Y	BERYLLIUM	mg/L	0.001920709	0.001920709	1.197590	96	50	150	0.0020	0.9999604
Y	BORON	mg/L	0.1923842	0.1923842	0.9748787	96	50	150	0.20	0.9999272
Y	CADMIUM	mg/L	0.005404636	0.005404636	3.258646	108	50	150	0.0050	0.9999916
Y	CALCIUM	mg/L	0.4655672	0.4655672	1.184856	93	50	150	0.50	0.9999449
Y	CHROMIUM	mg/L	0.01053158	0.01053158	5.248513	105	50	150	0.01	0.9998850
Y	COBALT	mg/L	0.01042574	0.01042574	0.7809721	104	50	150	0.01	0.9998773
Y	COPPER	mg/L	0.02191485	0.02191485	3.712150	110	50	150	0.02	0.9997782
Y	IRON	mg/L	0.1100685	0.1100685	1.697590	110	50	150	0.10	0.9999414
Y	LEAD	mg/L	0.005319961	0.005319961	17.50483	106	50	150	0.0050	0.9999941
Y	LITHIUM	mg/L	0.01376829	0.01376829	9.011779	92	50	150	0.0150	0.9999260
Y	MAGNESIUM	mg/L	0.1067792	0.1067792	0.6547351	107	50	150	0.10	0.9999830
Y	MANGANESE	mg/L	0.009962799	0.009962799	0.6558505	100	50	150	0.01	0.9999910
Y	MOLYBDENUM	mg/L	0.004652388	0.004652388	7.615708	93	50	150	0.0050	0.9999766
Y	NICKEL	mg/L	0.01249051	0.01249051	15.03948	62	50	150	0.02	0.9999755
Y	POTASSIUM	mg/L	0.4952624	0.4952624	7.523779	99	50	150	0.50	0.9997361
Y	SELENIUM	mg/L	0.02398697	0.02398697	22.80504	120	50	150	0.02	0.9999691
Y	SILICON	mg/L	0.1801127	0.1801127	2.212437	90	50	150	0.20	0.9999655
Y	SILVER	mg/L	0.01141165	0.01141165	8.897227	114	50	150	0.01	0.9998197
Y	SODIUM	mg/L	0.5664192	0.5664192	2.249581	113	50	150	0.50	0.9999996
Y	STRONTIUM	mg/L	0.009802422	0.009802422	0.8449715	98	50	150	0.01	0.9999992
Y	THALLIUM	mg/L	0.01777067	0.01777067	17.14035	89	50	150	0.02	0.9999913
Y	TIN	mg/L	0.01908432	0.01908432	6.626185	95	50	150	0.02	0.9999728
Y	TITANIUM	mg/L	0.01015586	0.01015586	1.916844	102	50	150	0.01	0.9999789
Y	VANADIUM	mg/L	0.01030229	0.01030229	7.438089	103	50	150	0.01	0.9999468
Y	ZINC	mg/L	0.03030160	0.03030160	0.8631416	101	50	150	0.03	0.9998293

Sample ID: CCVLL
Analysis Date: 11/05/14 14:52 Standard ID: 14J27641
Sequence: 74

QC Parameters

Exp	Parameter	Units	Intensity	Uncorrected Result	Corrected Result	RSD	%Rec	LL	HL	TV	CorCoef
N	YTTRIUM	mg/L	2796285	106.6508	106.6508	1.794696	107	60	140	2621908	

Target Parameters

Exp	Parameter	Units	Uncorrected Result	Corrected Result	RSD	%Rec	LL	HL	TV	CorCoef
Y	ALUMINUM	mg/L	0.08347553	0.08347553	9.185939	83	1	200	0.10	0.9999313
Y	ANTIMONY	mg/L	0.007179809	0.007179809	6.979477	36	1	200	0.02	0.9999347
Y	ARSENIC	mg/L	0.02131155	0.02131155	15.30079	107	1	200	0.02	0.9999636
Y	BARIUM	mg/L	0.005281200	0.005281200	4.175095	106	1	200	0.0050	0.9999845
Y	BERYLLIUM	mg/L	0.001871586	0.001871586	1.759457	94	1	200	0.0020	0.9999604
Y	BORON	mg/L	0.1891504	0.1891504	1.839551	95	1	200	0.20	0.9999272
Y	CADMIUM	mg/L	0.004689615	0.004689615	8.353892	94	1	200	0.0050	0.9999916
Y	CALCIUM	mg/L	0.4775167	0.4775167	0.6638169	96	1	200	0.50	0.9999449
Y	CHROMIUM	mg/L	0.01076672	0.01076672	4.566891	108	1	200	0.01	0.9998850
Y	COBALT	mg/L	0.01038645	0.01038645	0.5333742	104	1	200	0.01	0.9998773
Y	COPPER	mg/L	0.02046926	0.02046926	2.715979	102	1	200	0.02	0.9997782
Y	IRON	mg/L	0.1075212	0.1075212	2.535079	108	1	200	0.10	0.9999414
Y	LEAD	mg/L	0.002401371	0.002401371	96.22189	48	1	200	0.0050	0.9999941
Y	LITHIUM	mg/L	0.01385801	0.01385801	2.926694	92	1	200	0.0150	0.9999260
Y	MAGNESIUM	mg/L	0.1085470	0.1085470	1.230506	109	1	200	0.10	0.9999830
Y	MANGANESE	mg/L	0.009875754	0.009875754	0.4159127	99	1	200	0.01	0.9999910
Y	MOLYBDENUM	mg/L	0.004173114	0.004173114	9.978106	83	1	200	0.0050	0.9999766
Y	NICKEL	mg/L	0.01989796	0.01989796	6.380976	99	1	200	0.02	0.9999755
Y	POTASSIUM	mg/L	0.4151493	0.4151493	12.26254	83	1	200	0.50	0.9997361
Y	SELENIUM	mg/L	0.01836632	0.01836632	41.89853	92	1	200	0.02	0.9999691
Y	SILICON	mg/L	0.1800670	0.1800670	6.674935	90	1	200	0.20	0.9999655
Y	SILVER	mg/L	0.01288289	0.01288289	5.387334	129	1	200	0.01	0.9998197
Y	SODIUM	mg/L	0.6681378	0.6681378	0.9773447	134	1	200	0.50	0.9999996
Y	STRONTIUM	mg/L	0.009898838	0.009898838	0.7423278	99	1	200	0.01	0.9999992
Y	THALLIUM	mg/L	0.01974012	0.01974012	17.23646	99	1	200	0.02	0.9999913
Y	TIN	mg/L	0.01771927	0.01771927	6.795209	89	1	200	0.02	0.9999728
Y	TITANIUM	mg/L	0.01017873	0.01017873	2.003590	102	1	200	0.01	0.9999789
Y	VANADIUM	mg/L	0.009590803	0.009590803	0.6780648	96	1	200	0.01	0.9999468
Y	ZINC	mg/L	0.03062546	0.03062546	2.480786	102	1	200	0.03	0.9998293

Sample ID: CCVLL
Analysis Date: 11/05/14 17:38 Standard ID: 14J27641
Sequence: 104

QC Parameters

Exp	Parameter	Units	Intensity	Uncorrected Result	Corrected Result	RSD	%Rec	LL	HL	TV	CorCoef
N	YTTRIUM	mg/L	2947196	112.4066	112.4066	2.769089	112	60	140	2621908	

Target Parameters

Exp	Parameter	Units	Uncorrected Result	Corrected Result	RSD	%Rec	LL	HL	TV	CorCoef
Y	ALUMINUM	mg/L	0.07082089	0.07082089	56.82421	71	1	200	0.10	0.9999313
Y	ANTIMONY	mg/L	0.009789414	0.009789414	51.55891	49	1	200	0.02	0.9999347
Y	ARSENIC	mg/L	0.02083716	0.02083716	20.51492	104	1	200	0.02	0.9999636
Y	BARIUM	mg/L	0.005451748	0.005451748	4.013278	109	1	200	0.0050	0.9999845
Y	BERYLLIUM	mg/L	0.001834980	0.001834980	2.233961	92	1	200	0.0020	0.9999604
Y	BORON	mg/L	0.1889571	0.1889571	4.364315	94	1	200	0.20	0.9999272
Y	CADMIUM	mg/L	0.004499467	0.004499467	8.742845	90	1	200	0.0050	0.9999916
Y	CALCIUM	mg/L	0.4976416	0.4976416	0.5195080	100	1	200	0.50	0.9999449
Y	CHROMIUM	mg/L	0.01124203	0.01124203	3.484118	112	1	200	0.01	0.9998850
Y	COBALT	mg/L	0.01107148	0.01107148	2.416908	111	1	200	0.01	0.9998773
Y	COPPER	mg/L	0.02035917	0.02035917	3.838719	102	1	200	0.02	0.9997782
Y	IRON	mg/L	0.1093655	0.1093655	4.579424	109	1	200	0.10	0.9999414
Y	LEAD	mg/L	0.002544110	0.002544110	75.69831	51	1	200	0.0050	0.9999941
Y	LITHIUM	mg/L	0.01463938	0.01463938	12.44722	98	1	200	0.0150	0.9999260
Y	MAGNESIUM	mg/L	0.1088533	0.1088533	5.977239	109	1	200	0.10	0.9999830
Y	MANGANESE	mg/L	0.01011568	0.01011568	1.193120	101	1	200	0.01	0.9999910
Y	MOLYBDENUM	mg/L	0.004142712	0.004142712	8.434463	83	1	200	0.0050	0.9999766
Y	NICKEL	mg/L	0.02455494	0.02455494	9.584046	123	1	200	0.02	0.9999755
Y	POTASSIUM	mg/L	0.3865334	0.3865334	9.734011	77	1	200	0.50	0.9997361
Y	SELENIUM	mg/L	0.01185338	0.01185338	21.58118	59	1	200	0.02	0.9999691
Y	SILICON	mg/L	0.1824602	0.1824602	7.504727	91	1	200	0.20	0.9999655
Y	SILVER	mg/L	0.01207504	0.01207504	0.9080920	121	1	200	0.01	0.9998197
Y	SODIUM	mg/L	0.6443573	0.6443573	2.955583	129	1	200	0.50	0.9999996
Y	STRONTIUM	mg/L	0.01001022	0.01001022	0.4221923	100	1	200	0.01	0.9999992
Y	THALLIUM	mg/L	0.02084186	0.02084186	18.28811	104	1	200	0.02	0.9999913
Y	TIN	mg/L	0.01724774	0.01724774	9.999791	86	1	200	0.02	0.9999728
Y	TITANIUM	mg/L	0.01040953	0.01040953	2.418959	104	1	200	0.01	0.9999789
Y	VANADIUM	mg/L	0.01049601	0.01049601	2.731154	105	1	200	0.01	0.9999468
Y	ZINC	mg/L	0.03099436	0.03099436	3.814920	103	1	200	0.03	0.9998293

Raw Data

3015 GW
ESC Lab Sciences

Method: 3015 SOP:340389 R.13

HNO3 Standard ID:	14J24505	**Vol. Used:**	3 mL	**Workgroup:**	WG750950
HCl Standard ID:	14J02360	**Vol. Used:**	2 mL	**Date:**	10/28/2014
ICP Spike Standard ID:	14J20248	**Vol. Used:**	0.45 mL	**Analyst:**	646 JN
Sulfur Spike Standard ID:	(none)	**Vol. Used:**	0.45 mL	**Samples pH Verified:**	646 JN
Digestion Vessel Standard ID:	ESC30376			**Tray ID:**	10
				Microwave ID:	MJ2771
Spike Pipetter ID:	F13412501			**Digest Time & Date:**	10/28/14 10:32

Pos.		Sample Number	Sample Volume (mL)	Final Volume (mL)	Sample Description	Comments
1		**BLANK**	45	50	Clear	
2		**LCS**	45	50	Clear	
3		**LCSD**	45	50	Clear	
4	1.	**L729559-02**	45	50	Clear	
5	1.	**MS L729559-02**	45	50	Clear	
6	1.	**MSD L729559-02**	45	50	Clear	
7	2.	**L729771-01**	45	50	Clear	
8	3.	**L729798-02**	45	50	Clear	
9	4.	**L729798-04**	45	50	Clear	
10	5.	**L729798-06**	45	50	Clear	
11	6.	**L729800-01**	45	50	Clear	
12	7.	**MS L729800-01**	45	50	Clear	
13	8.	**MSD L729800-01**	45	50	Clear	
14	9.	**L729875-01**	45	50	Clear	
15	10.	**L729875-02**	45	50	Clear	
16	11.	**L729875-03**	45	50	Clear	
17	12.	**L729875-04**	45	50	Clear	
18	13.	**L729877-01**	45	50	Clear	
19	14.	**L729877-02**	45	50	Clear	
20	15.	**L729877-03**	45	50	Clear	
21	16.	**L729877-04**	45	50	Clear	
22	17.	**L729879-01**	45	50	Clear	
23	18.	**L729879-02**	45	50	Clear	
24	19.	**L729879-03**	45	50	Clear	
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Reviewed By: **Analyst:** 638

Additional Remarks: **Date:** 10/28/2014

3015 GW
ESC Lab Sciences

Method: 3015 SOP:340389 R.13

HNO3 Standard ID:	14J24505	**Vol. Used:**	3 mL	**Workgroup:**	WG751198
HCl Standard ID:	14J02360	**Vol. Used:**	2 mL	**Date:**	10/28/2014
ICP Spike Standard ID:	14J02356	**Vol. Used:**	0.45 mL	**Analyst:**	656
Sulfur Spike Standard ID:	(none)	**Vol. Used:**	0.45 mL	**Samples pH Verified:**	656
Digestion Vessel Standard ID:	ESC30376			**Tray ID:**	4
				Microwave ID:	MD2861
Spike Pipetter ID:	F13412531			**Digest Time & Date:**	10/28/14 16:02

Pos.		Sample Number	Sample Volume (mL)	Final Volume (mL)	Sample Description	Comments
1		**BLANK**	45	50	Nanopure	
2		**LCS**	45	50	Nanopure	
3		**LCSD**	45	50	Nanopure	
4	1.	**L729798-03**	45	50	Clear	
5	1.	**MS L729798-03**	45	50	Clear	
6	1.	**MSD L729798-03**	45	50	Clear	
7	2.	**L729373-01**	45	50	Clear	
8	3.	**L729373-02**	45	50	Clear	
9	4.	**L729373-03**	45	50	Clear	
10	5.	**L729798-01**	45	50	Clear	
11	6.	**L729798-05**	45	50	Clear	
12	7.	**L729800-02**	45	50	Clear	
13	8.	**L729867-01**	45	50	Clear	
14	9.	**L729876-01**	45	50	Clear	
15	10.	**L729976-01**	45	50	Clear	
16	11.	**L729976-02**	45	50	Clear	
17	12.	**L729976-03**	45	50	Clear	
18	13.	**L729989-01**	45	50	Clear	
19	14.	**L729989-02**	45	50	Clear	
20	15.	**L729989-03**	45	50	Clear	
21	16.		45	50	(none)	
22	17.		45	50	(none)	
23	18.		45	50	(none)	
24	19.		45	50	(none)	
25	20.		45	50	(none)	
26			45	50	(none)	
27			45	50	(none)	
28			45	50	(none)	
29			45	50	(none)	
30			45	50	(none)	
31			45	50	(none)	
32			45	50	(none)	
33			45	50	(none)	
34			45	50	(none)	
35			45	50	(none)	

Reviewed By: **Analyst:** 638

Additional Remarks: **Date:** 10/28/2014

3015 GW
ESC Lab Sciences

Method: 3015 SOP:340389 R.13

HNO3 Standard ID:	14J30879	**Vol. Used:**	3 mL	**Workgroup:**	WG752582
HCl Standard ID:	14J02360	**Vol. Used:**	2 mL	**Date:**	11/4/2014
ICP Spike Standard ID:	14J22403	**Vol. Used:**	0.45 mL	**Analyst:**	681
Sulfur Spike Standard ID:	(none)	**Vol. Used:**	0.45 mL	**Samples pH Verified:**	681
Digestion Vessel Standard ID:	ESC30376			**Tray ID:**	9
				Microwave ID:	MJ2771
Spike Pipetter ID:	F13412591			**Digest Time & Date:**	11/4/14 17:10

Pos.		Sample Number	Sample Volume (mL)	Final Volume (mL)	Sample Description	Comments
1		**BLANK**	45	50	Nanopure	
2		**LCS**	45	50	Nanopure	
3		**LCSD**	45	50	Nanopure	
4	1.	**L729800-02**	45	50	Clear	
5	1.	**MS L729800-02**	45	50	Clear	
6	1.	**MSD L729800-02**	45	50	Clear	
7	2.	**L730147-02**	45	50	Clear	
8	3.	**L730147-04**	45	50	Clear	
9	4.	**L730147-06**	45	50	Clear	
10	4.	**MS L730147-06**	45	50	Clear	
11	4.	**MSD L730147-06**	45	50	Clear	
12	5.	**L730147-08**	45	50	Clear	
13	6.	**L730147-10**	45	50	Clear	
14	7.	**L730147-12**	45	50	Clear	
15	8.	**L730147-13**	45	50	Clear	
16	9.	**L730147-15**	45	50	Clear	
17	10.	**L730147-17**	45	50	Clear	
18	10.	**MS L730147-17**	45	50	Clear	
19	10.	**MSD L730147-17**	45	50	Clear	
20	11.	**L730147-19**	45	50	Clear	
21	12.	**L730147-21**	45	50	Clear	
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Reviewed By: **Analyst:** 388JG

Additional Remarks: **Date:** 11/5/2014

Comprehensive sample report

10/29/2014 2:12:10 PM

LabBook 102914ICP12.imexp

Instrument esc icp 12
Serial number IC74DC141801

LabBook summary

Acquired by icp12 Date 10/29/2014 12:33:48 PM
Last changed by icp12 Date 10/29/2014 2:02:52 PM

Configuration iCAP 7000 ASX520
Template DAILY CALIBRATION
Evaluation eQuant
Number of samples 72
Number of results 72

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

10/29/2014 2:12:10 PM

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	7	2
S	182.034 {485}	212.22	318.33	13	5	6	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

Comprehensive sample report

10/29/2014 2:12:10 PM

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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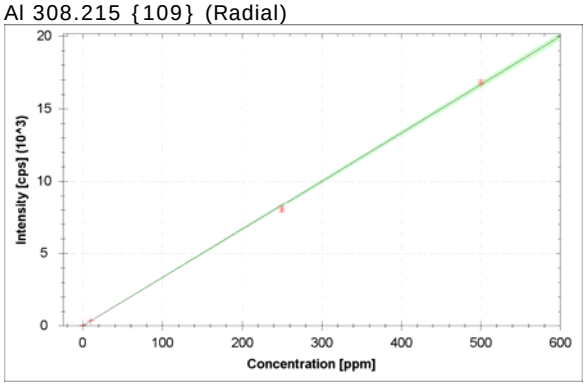
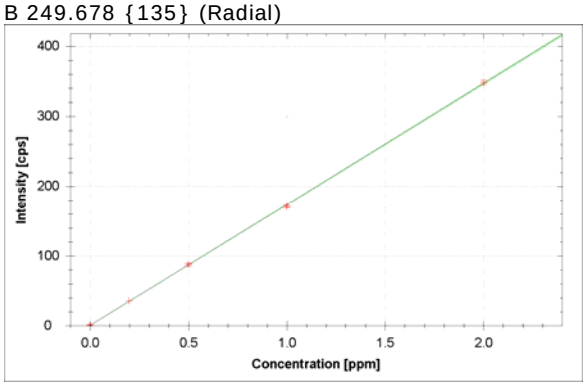
Al 308.215 {109} (Radial)



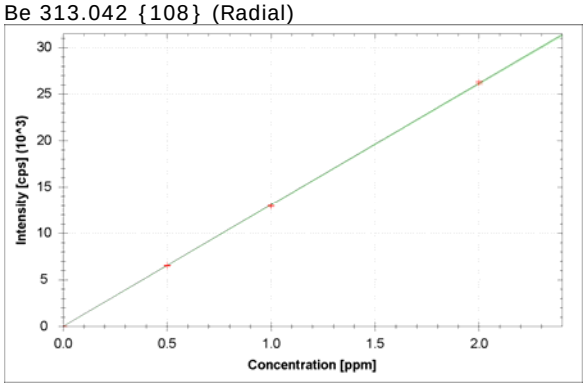
f(x) = 33.3070*x + 6.0218
R^2 = 0.9995
BEC = 0.181 ppm
LoD = 0.1498 ppm

B 249.678 {135} (Radial)



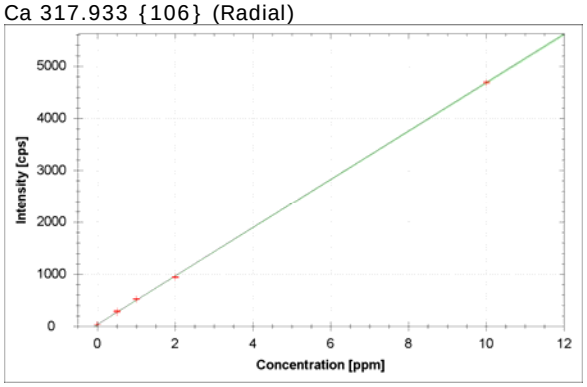
f(x) = 173.1851*x + 0.5741
R^2 = 0.9999
BEC = 0.003 ppm
LoD = 0.0252 ppm

Be 313.042 {108} (Radial)



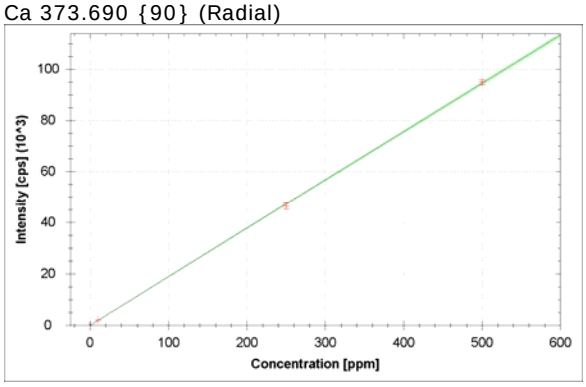
f(x) = 13069.2817*x + -1.1571
R^2 = 0.9999
BEC = 0.000 ppm
LoD = 0.0002 ppm

Ca 317.933 {106} (Radial)



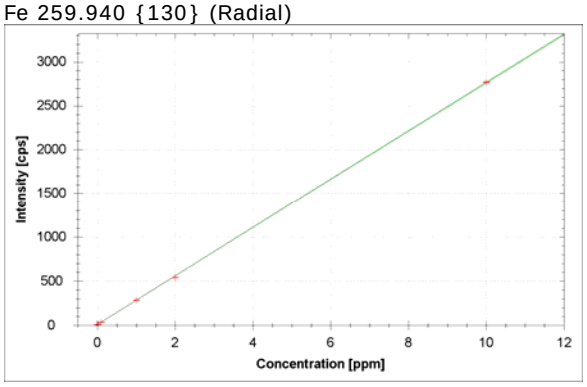
f(x) = 464.6654*x + 36.9084
R^2 = 0.9999
BEC = 0.079 ppm
LoD = 0.0019 ppm

Ca 373.690 {90} (Radial)



f(x) = 188.9164*x + 13.8311
R^2 = 0.9998
BEC = 0.073 ppm
LoD = 0.0111 ppm

Fe 259.940 {130} (Radial)



f(x) = 275.4968*x + 9.8265
R^2 = 0.9999
BEC = 0.036 ppm
LoD = 0.0035 ppm

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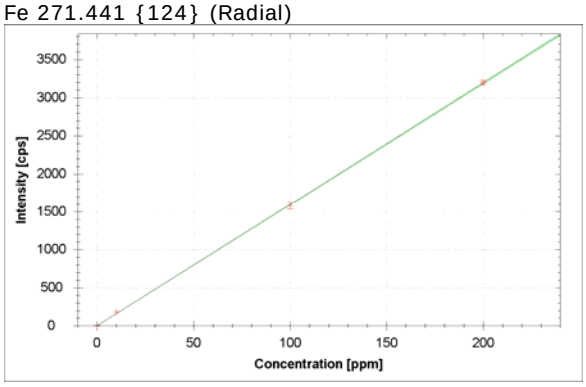
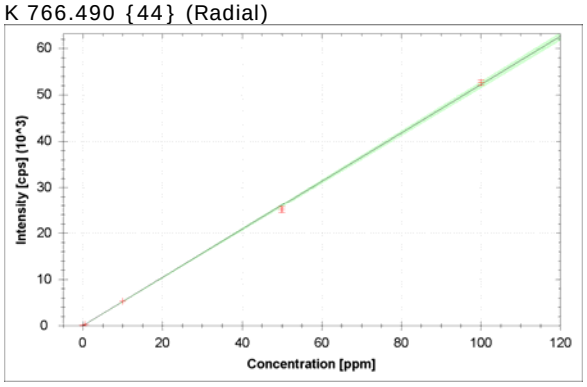
Fe 271.441 {124} (Radial)



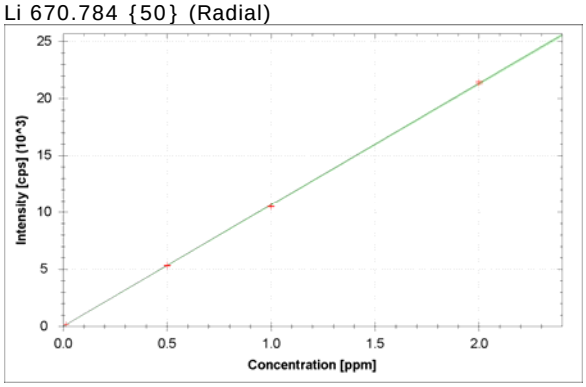
f(x) = 15.9442*x + 1.6547
R^2 = 0.9999
BEC = 0.104 ppm
LoD = 0.2389 ppm

K 766.490 {44} (Radial)



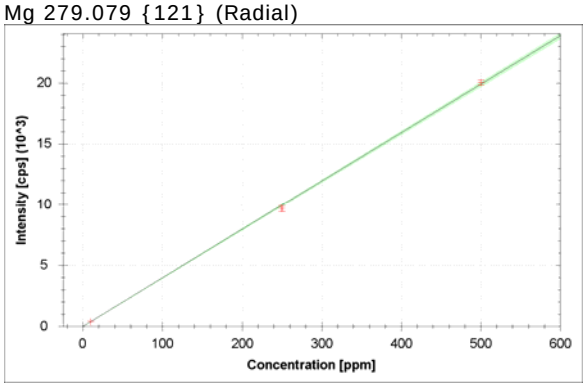
f(x) = 521.3394*x + 16.6076
R^2 = 0.9995
BEC = 0.032 ppm
LoD = 0.0490 ppm

Li 670.784 {50} (Radial)



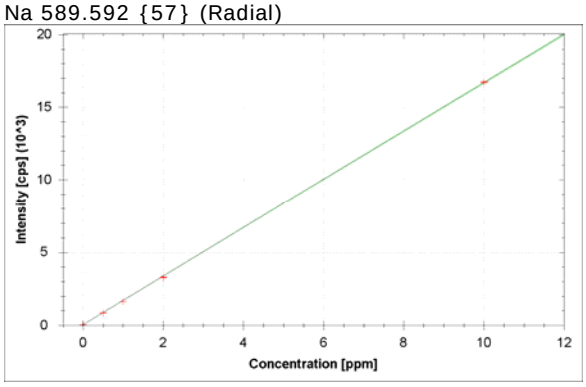
f(x) = 10655.7779*x + -0.3502
R^2 = 0.9999
BEC = 0.000 ppm
LoD = 0.0018 ppm

Mg 279.079 {121} (Radial)



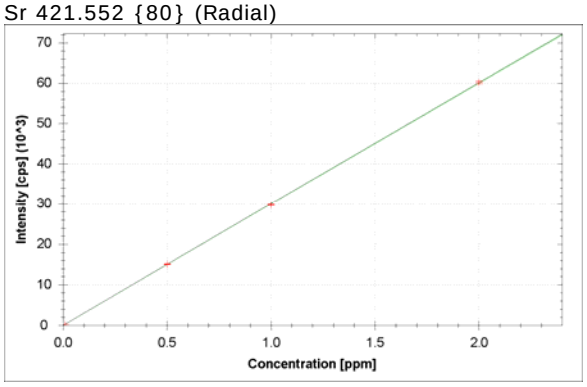
f(x) = 39.7988*x + 0.0671
R^2 = 0.9997
BEC = 0.002 ppm
LoD = 0.1065 ppm

Na 589.592 {57} (Radial)



f(x) = 1664.7028*x + 48.9665
R^2 = 0.9999
BEC = 0.029 ppm
LoD = 0.0099 ppm

Sr 421.552 {80} (Radial)



f(x) = 30042.8466*x + -5.4773
R^2 = 1.0000
BEC = 0.000 ppm
LoD = 0.0001 ppm

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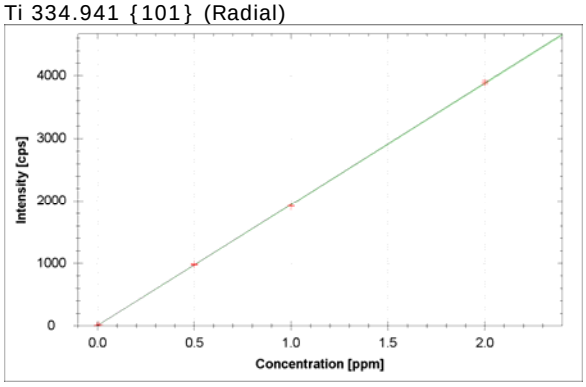
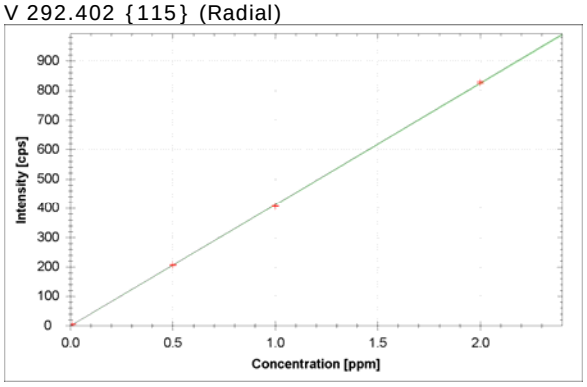
Ti 334.941 {101} (Radial)



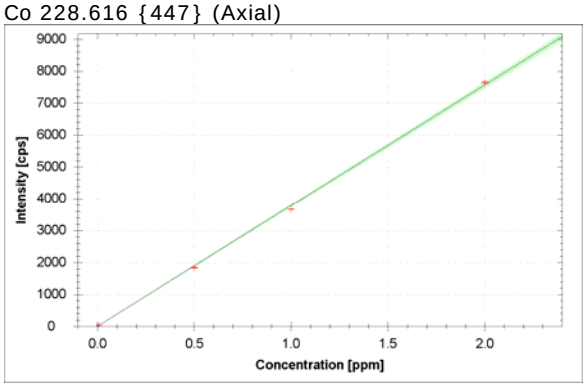
f(x) = 1938.8646*x + 2.1448
R^2 = 0.9999
BEC = 0.001 ppm
LoD = 0.0016 ppm

V 292.402 {115} (Radial)



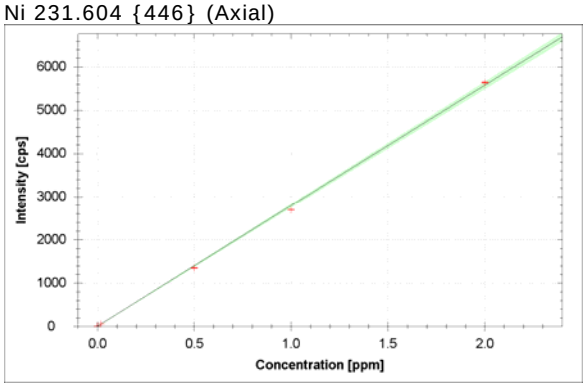
f(x) = 412.4135*x + -0.1499
R^2 = 0.9999
BEC = 0.000 ppm
LoD = 0.0076 ppm

Co 228.616 {447} (Axial)



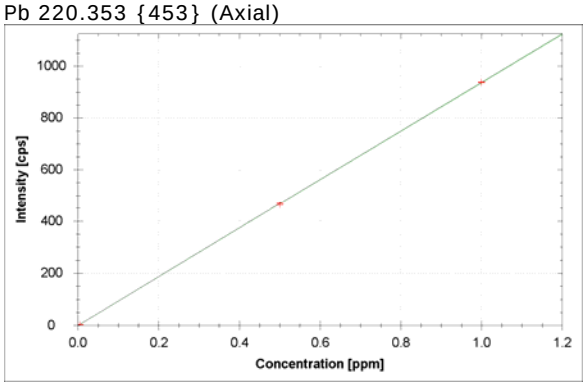
f(x) = 3783.2408*x + 0.1214
R^2 = 0.9994
BEC = 0.000 ppm
LoD = 0.0001 ppm

Ni 231.604 {446} (Axial)



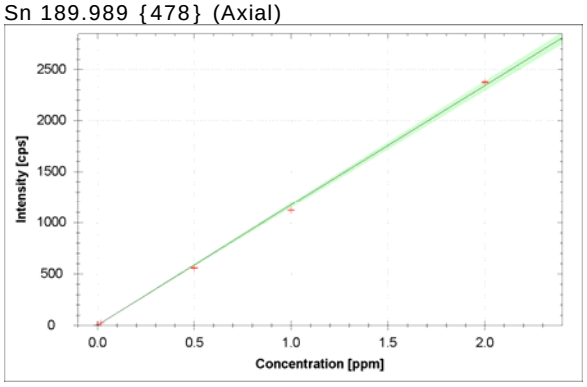
f(x) = 2786.5823*x + 2.9214
R^2 = 0.9993
BEC = 0.001 ppm
LoD = 0.0005 ppm

Pb 220.353 {453} (Axial)



f(x) = 936.7491*x + -0.4803
R^2 = 1.0000
BEC = -0.001 ppm
LoD = 0.0005 ppm

Sn 189.989 {478} (Axial)



f(x) = 1169.9678*x + 1.4813
R^2 = 0.9988
BEC = 0.001 ppm
LoD = 0.0002 ppm

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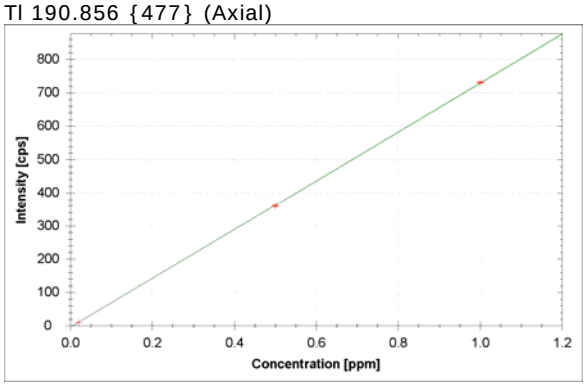
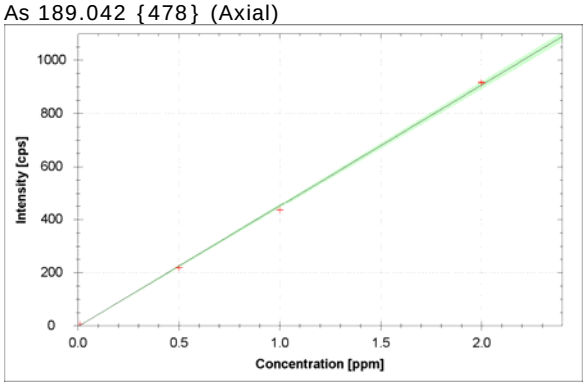
Tl 190.856 {477} (Axial)



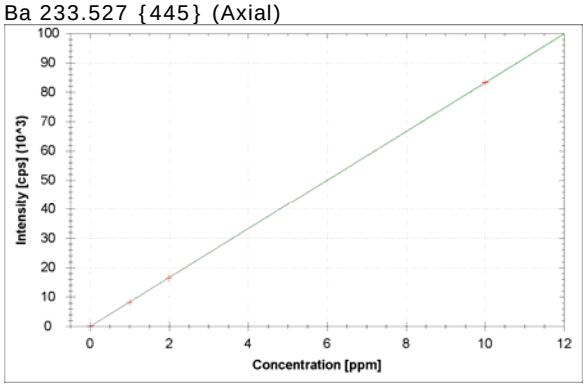
f(x) = 732.9387*x + -3.9629
R^2 = 1.0000
BEC = -0.005 ppm
LoD = 0.0029 ppm

As 189.042 {478} (Axial)



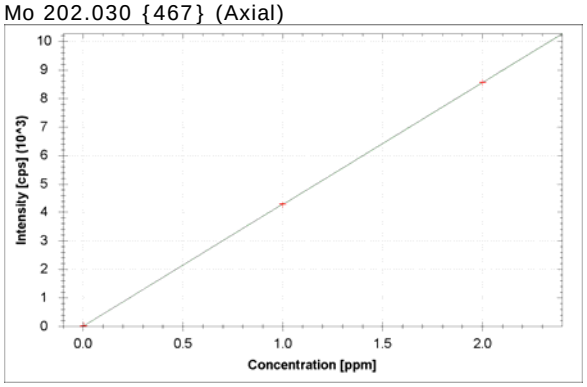
f(x) = 454.5873*x + -2.9880
R^2 = 0.9993
BEC = -0.007 ppm
LoD = 0.0009 ppm

Ba 233.527 {445} (Axial)



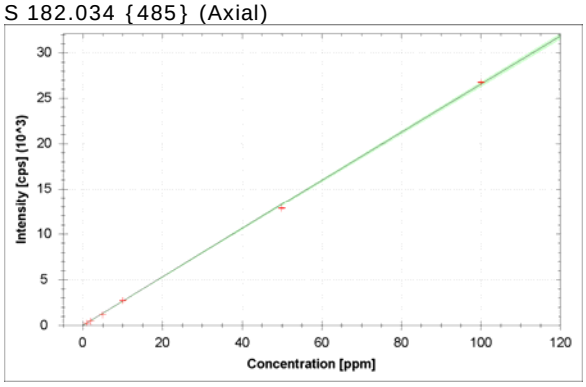
f(x) = 8325.1231*x + 2.9058
R^2 = 1.0000
BEC = 0.000 ppm
LoD = 0.0003 ppm

Mo 202.030 {467} (Axial)



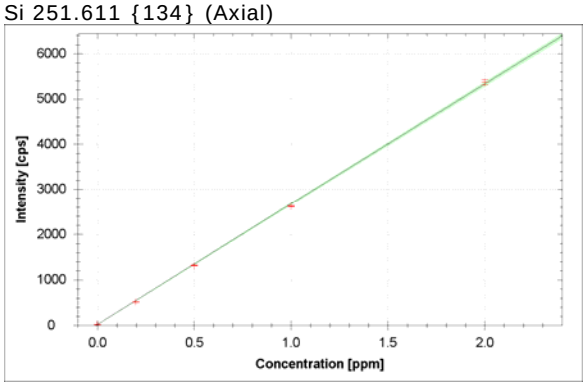
f(x) = 4275.8697*x + 2.6097
R^2 = 1.0000
BEC = 0.001 ppm
LoD = 0.0003 ppm

S 182.034 {485} (Axial)



f(x) = 265.3394*x + 4.9815
R^2 = 0.9996
BEC = 0.019 ppm
LoD = 0.0075 ppm

Si 251.611 {134} (Axial)



f(x) = 2656.7705*x + 19.1118
R^2 = 0.9996
BEC = 0.007 ppm
LoD = 0.0036 ppm

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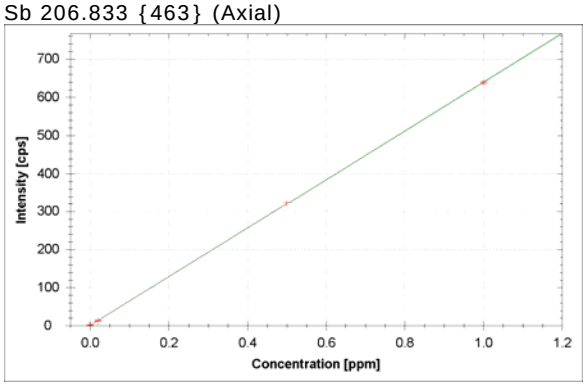
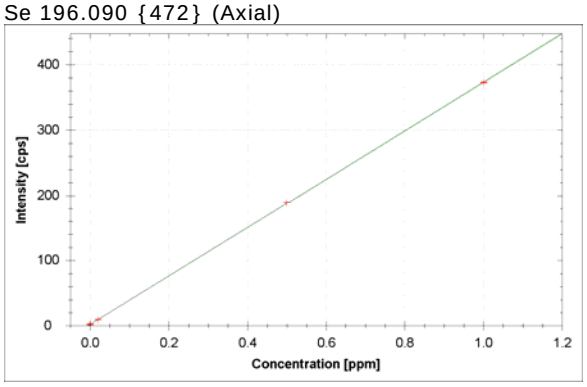
Sb 206.833 {463} (Axial)



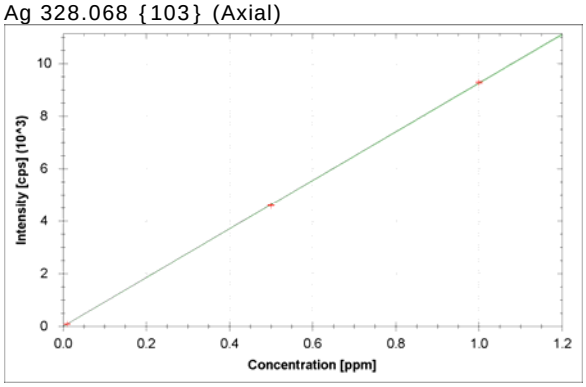
f(x) = 638.6281*x + 1.1019
R^2 = 1.0000
BEC = 0.002 ppm
LoD = 0.0007 ppm

Se 196.090 {472} (Axial)



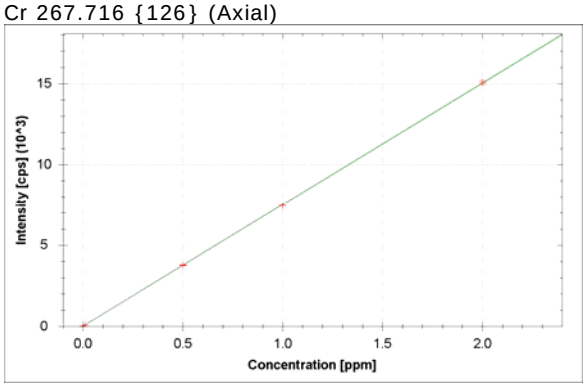
f(x) = 371.2730*x + 2.0633
R^2 = 1.0000
BEC = 0.006 ppm
LoD = 0.0046 ppm

Ag 328.068 {103} (Axial)



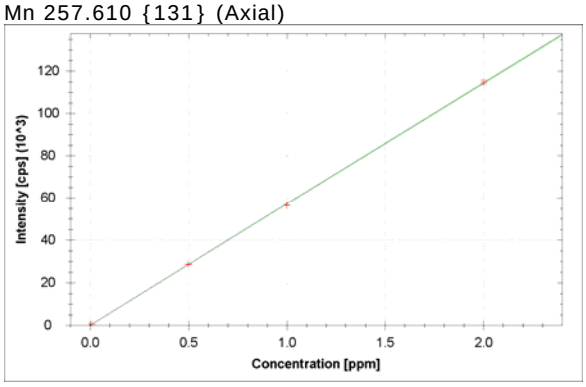
f(x) = 9263.4348*x + -1.6888
R^2 = 1.0000
BEC = 0.000 ppm
LoD = 0.0003 ppm

Cr 267.716 {126} (Axial)



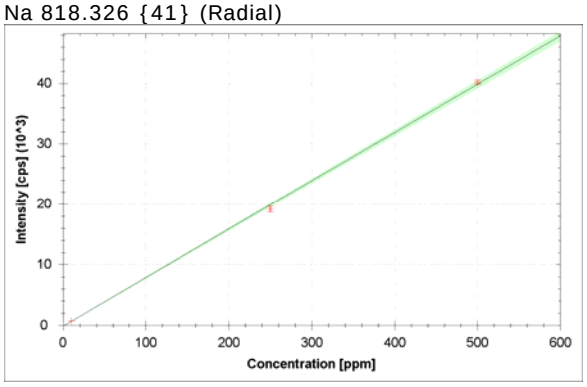
f(x) = 7507.2698*x + 14.7531
R^2 = 1.0000
BEC = 0.002 ppm
LoD = 0.0009 ppm

Mn 257.610 {131} (Axial)



f(x) = 57149.3710*x + 10.0083
R^2 = 0.9999
BEC = 0.000 ppm
LoD = 0.0001 ppm

Na 818.326 {41} (Radial)



f(x) = 80.0098*x + -137.8810
R^2 = 0.9995
BEC = -1.723 ppm
LoD = 0.2436 ppm

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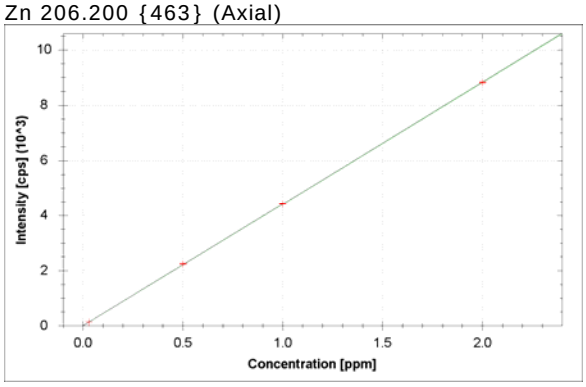
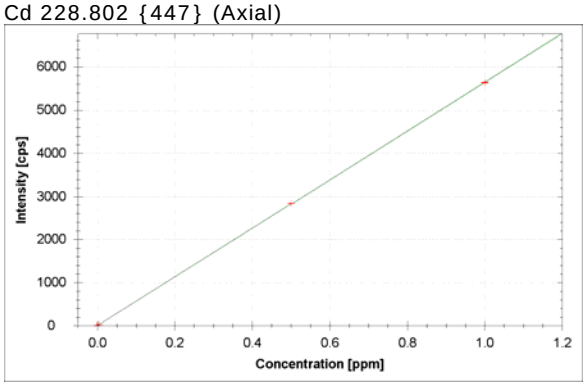
Zn 206.200 {463} (Axial)



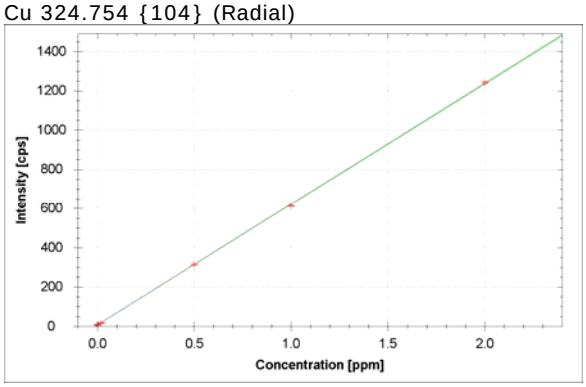
f(x) = 4411.9164*x + 2.5093
R^2 = 1.0000
BEC = 0.001 ppm
LoD = 0.0001 ppm

Cd 228.802 {447} (Axial)



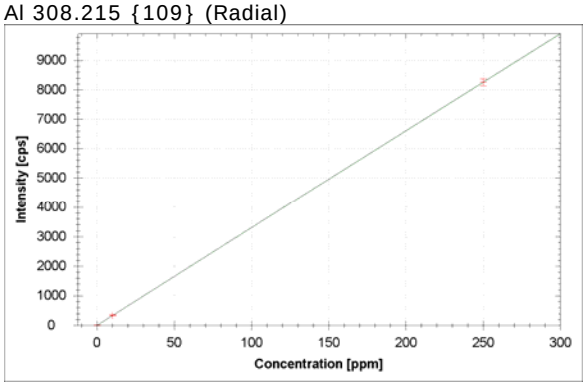
f(x) = 5640.0859*x + 3.9265
R^2 = 1.0000
BEC = 0.001 ppm
LoD = 0.0004 ppm

Cu 324.754 {104} (Radial)



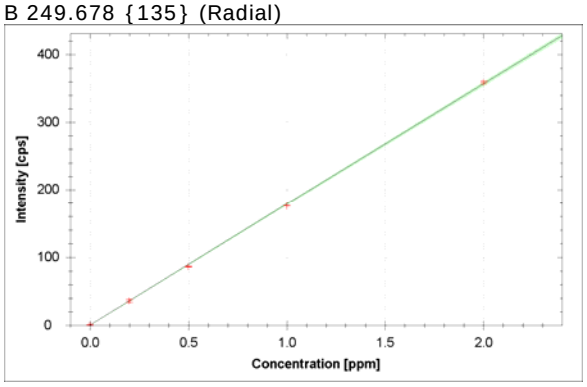
f(x) = 614.8388*x + 7.3105
R^2 = 0.9999
BEC = 0.012 ppm
LoD = 0.0132 ppm

Al 308.215 {109} (Radial)



f(x) = 33.0163*x + 5.2982
R^2 = 1.0000
BEC = 0.160 ppm
LoD = 0.1380 ppm

B 249.678 {135} (Radial)



f(x) = 178.1609*x + 0.5385
R^2 = 0.9997
BEC = 0.003 ppm
LoD = 0.0208 ppm

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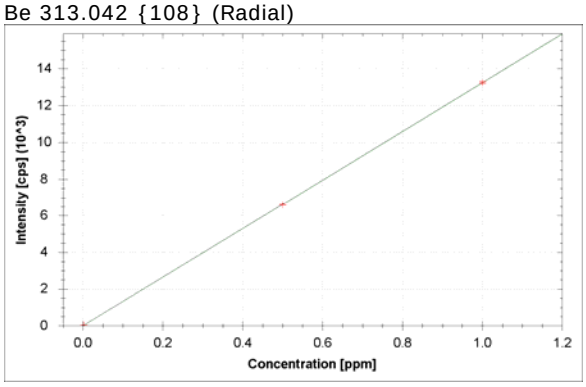
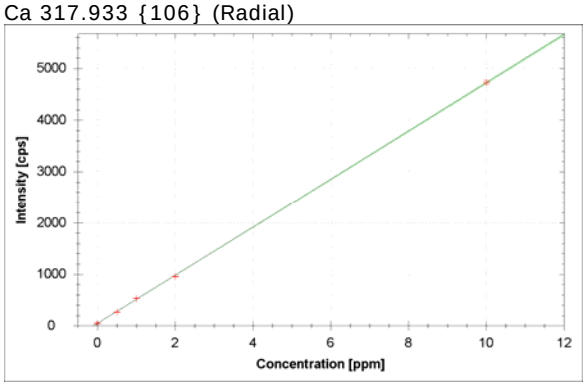
Be 313.042 {108} (Radial)



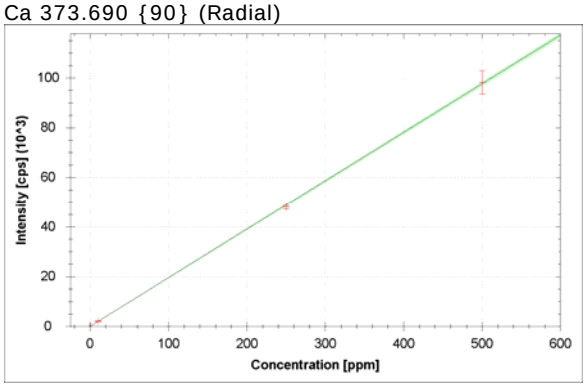
f(x) = 13238.1745*x + 0.3265
R^2 = 1.0000
BEC = 0.000 ppm
LoD = 0.0006 ppm

Ca 317.933 {106} (Radial)



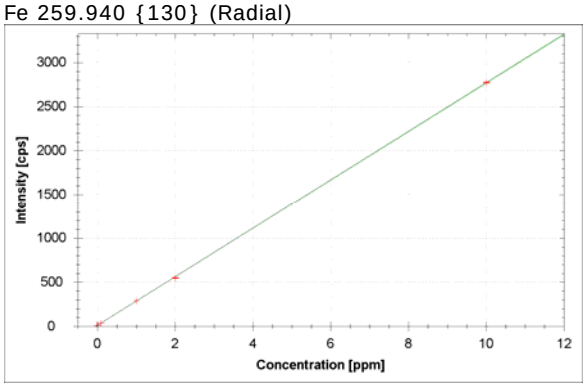
f(x) = 467.8418*x + 45.5185
R^2 = 0.9999
BEC = 0.097 ppm
LoD = 0.0124 ppm

Ca 373.690 {90} (Radial)



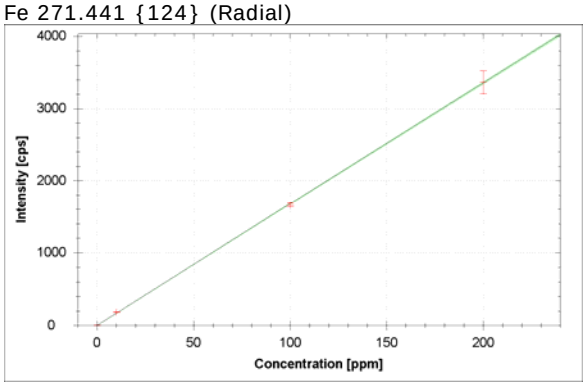
f(x) = 195.2152*x + 20.3646
R^2 = 0.9998
BEC = 0.104 ppm
LoD = 0.0095 ppm

Fe 259.940 {130} (Radial)



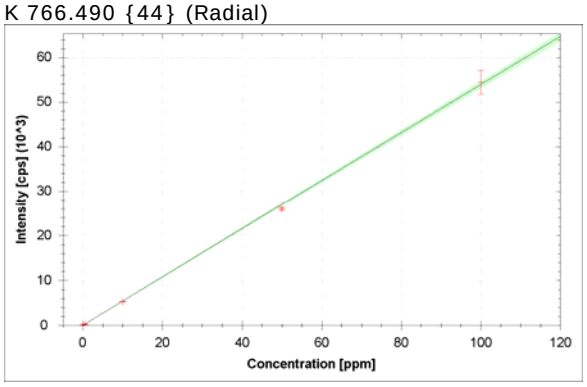
f(x) = 275.9619*x + 11.6028
R^2 = 1.0000
BEC = 0.042 ppm
LoD = 0.0127 ppm

Fe 271.441 {124} (Radial)



f(x) = 16.7687*x + 1.1731
R^2 = 0.9999
BEC = 0.070 ppm
LoD = 0.2020 ppm

K 766.490 {44} (Radial)



f(x) = 538.8613*x + 35.1515
R^2 = 0.9994
BEC = 0.065 ppm
LoD = 0.0299 ppm

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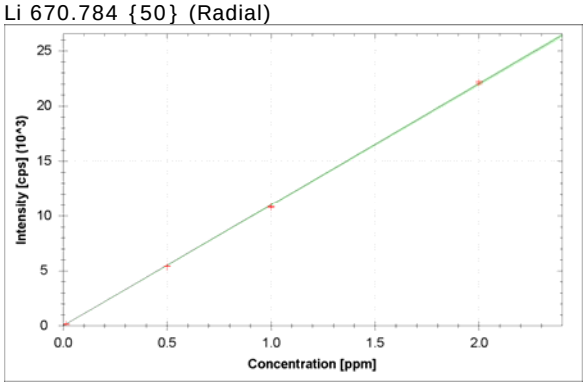
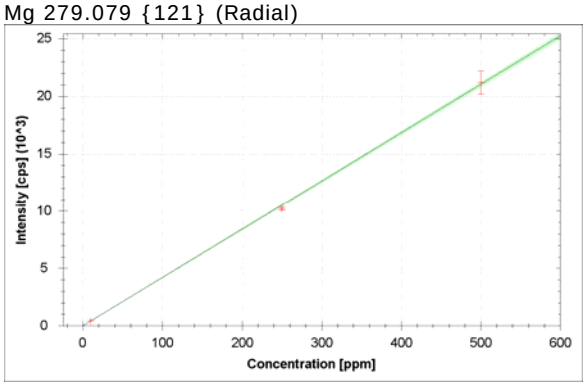
Li 670.784 {50} (Radial)



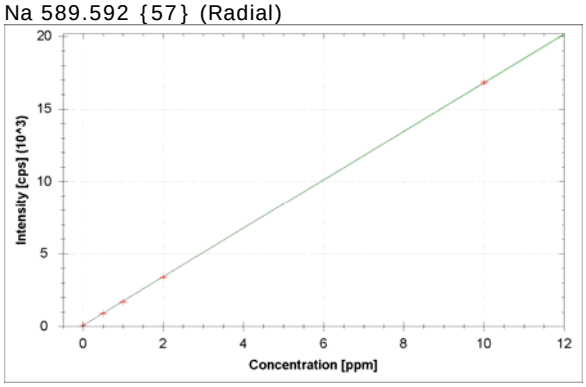
f(x) = 11011.1315*x + -10.2342
R^2 = 0.9998
BEC = -0.001 ppm
LoD = 0.0021 ppm

Mg 279.079 {121} (Radial)



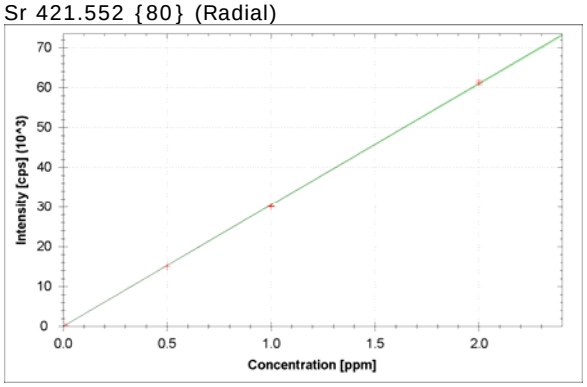
f(x) = 42.0708*x + 1.2215
R^2 = 0.9997
BEC = 0.029 ppm
LoD = 0.0223 ppm

Na 589.592 {57} (Radial)



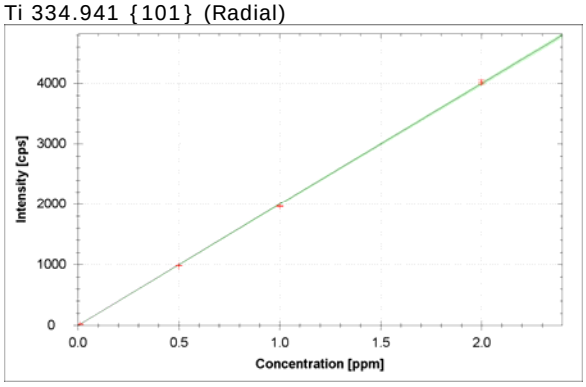
f(x) = 1672.8299*x + 72.4007
R^2 = 1.0000
BEC = 0.043 ppm
LoD = 0.0096 ppm

Sr 421.552 {80} (Radial)



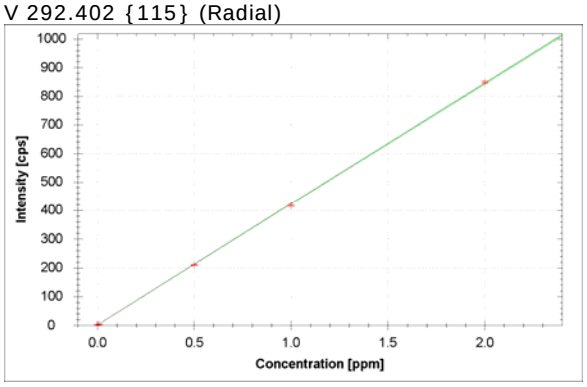
f(x) = 30500.4962*x + -5.9799
R^2 = 0.9999
BEC = 0.000 ppm
LoD = 0.0006 ppm

Ti 334.941 {101} (Radial)



f(x) = 1999.1751*x + -1.6670
R^2 = 0.9998
BEC = -0.001 ppm
LoD = 0.0018 ppm

V 292.402 {115} (Radial)



f(x) = 421.6094*x + 1.4122
R^2 = 0.9998
BEC = 0.003 ppm
LoD = 0.0133 ppm

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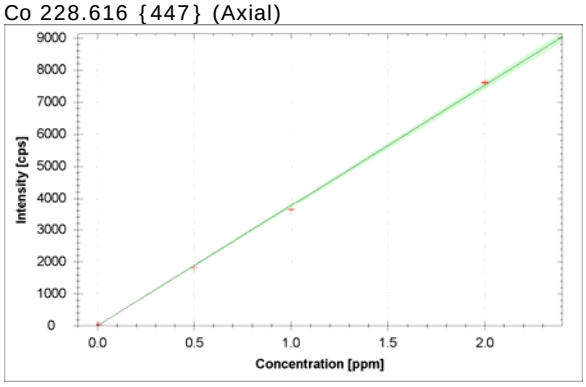
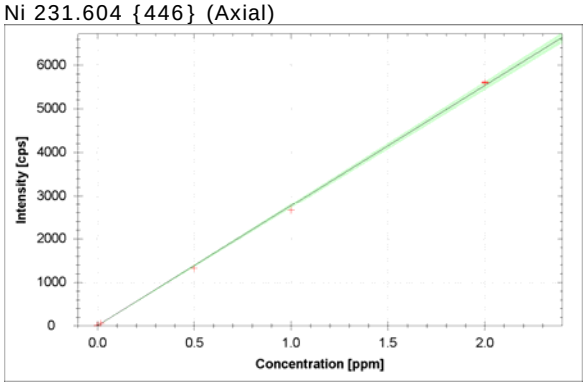
Co 228.616 {447} (Axial)



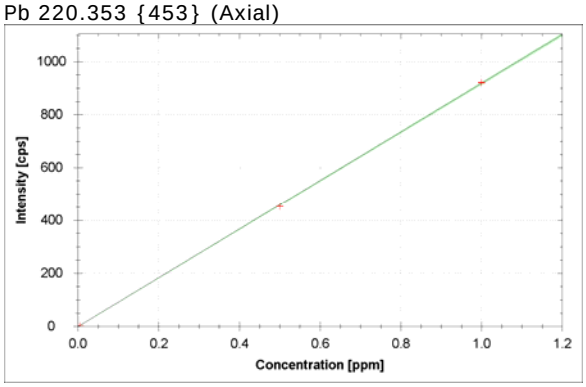
f(x) = 3762.2120*x + 0.1182
R^2 = 0.9992
BEC = 0.000 ppm
LoD = 0.0009 ppm

Ni 231.604 {446} (Axial)



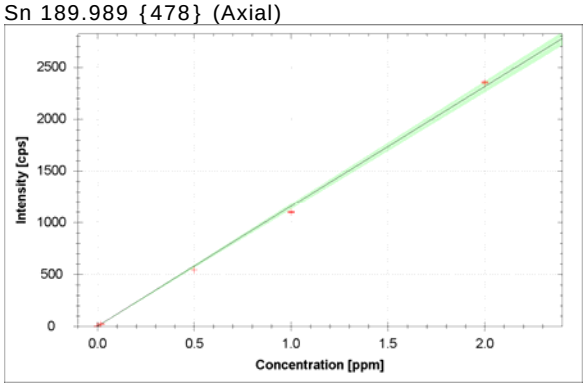
f(x) = 2763.9504*x + 2.1121
R^2 = 0.9991
BEC = 0.001 ppm
LoD = 0.0004 ppm

Pb 220.353 {453} (Axial)



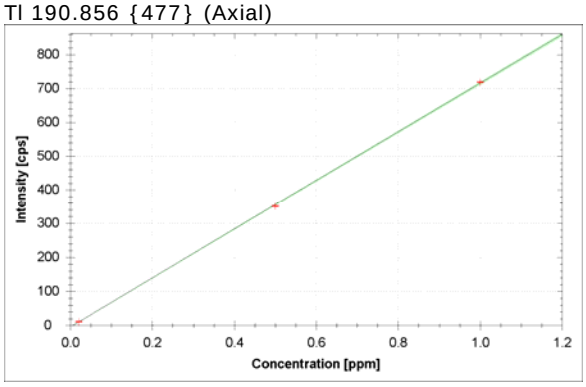
f(x) = 918.8172*x + -0.8278
R^2 = 0.9999
BEC = -0.001 ppm
LoD = 0.0022 ppm

Sn 189.989 {478} (Axial)



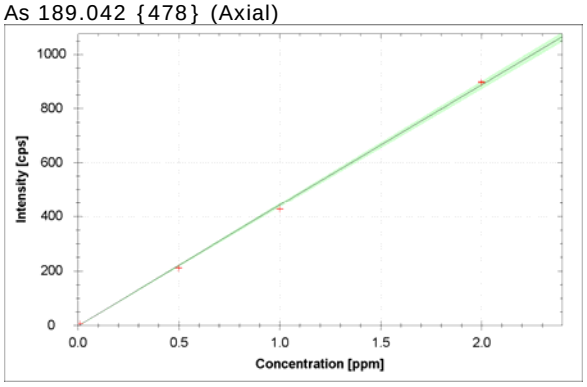
f(x) = 1156.3993*x + 1.3071
R^2 = 0.9984
BEC = 0.001 ppm
LoD = 0.0004 ppm

Tl 190.856 {477} (Axial)



f(x) = 720.6057*x + -4.3984
R^2 = 0.9999
BEC = -0.006 ppm
LoD = 0.0004 ppm

As 189.042 {478} (Axial)



f(x) = 444.5728*x + -2.3218
R^2 = 0.9992
BEC = -0.005 ppm
LoD = 0.0010 ppm

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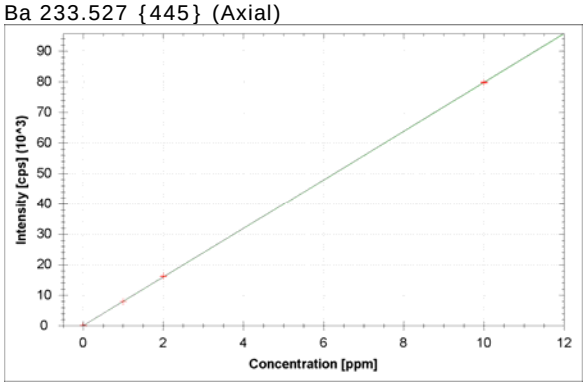
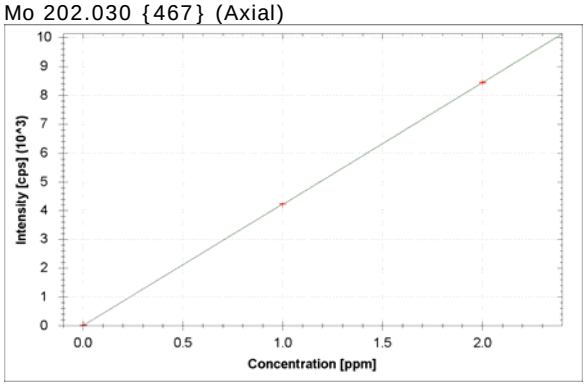
Ba 233.527 {445} (Axial)



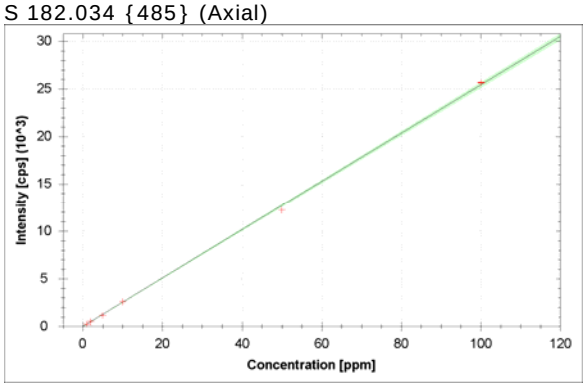
f(x) = 7977.5290*x + 3.4942
R^2 = 1.0000
BEC = 0.000 ppm
LoD = 0.0001 ppm

Mo 202.030 {467} (Axial)



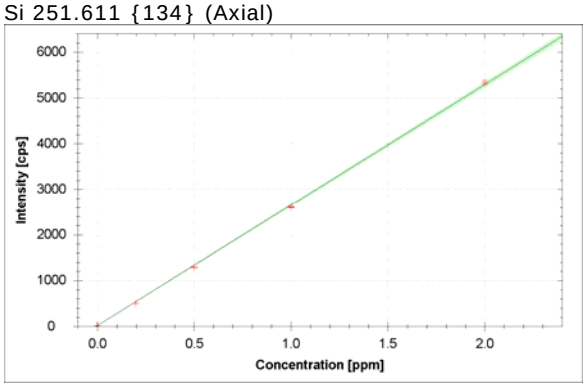
f(x) = 4216.8583*x + 3.4964
R^2 = 1.0000
BEC = 0.001 ppm
LoD = 0.0002 ppm

S 182.034 {485} (Axial)



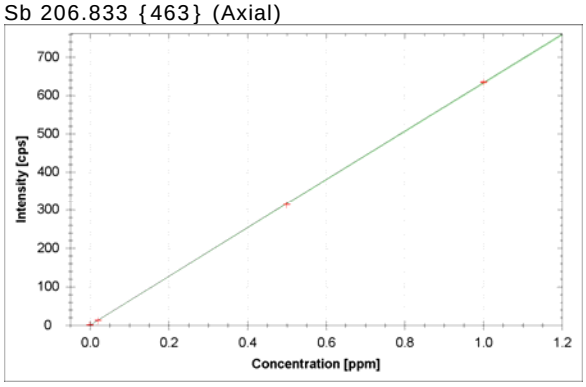
f(x) = 254.2357*x + 6.0921
R^2 = 0.9994
BEC = 0.024 ppm
LoD = 0.0005 ppm

Si 251.611 {134} (Axial)



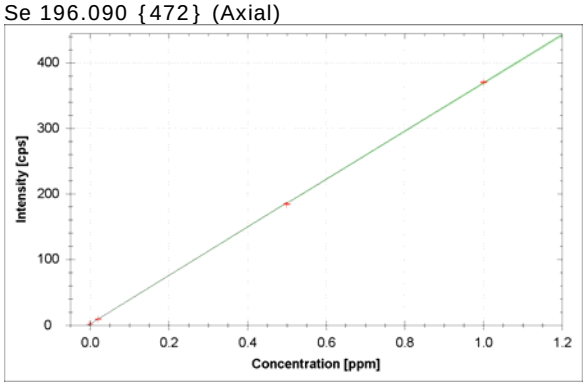
f(x) = 2637.5837*x + 16.5433
R^2 = 0.9995
BEC = 0.006 ppm
LoD = 0.0021 ppm

Sb 206.833 {463} (Axial)



f(x) = 632.1922*x + 0.8363
R^2 = 1.0000
BEC = 0.001 ppm
LoD = 0.0045 ppm

Se 196.090 {472} (Axial)



f(x) = 367.0328*x + 2.1683
R^2 = 0.9999
BEC = 0.006 ppm
LoD = 0.0020 ppm

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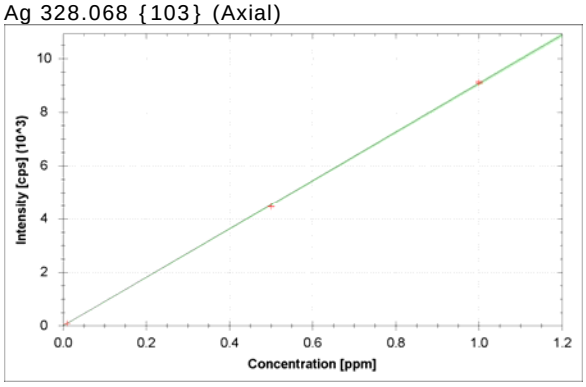
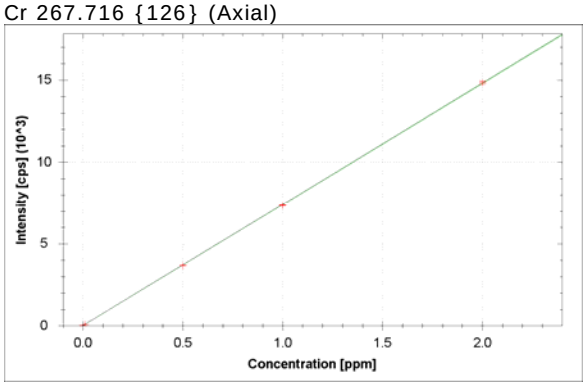
Ag 328.068 {103} (Axial)



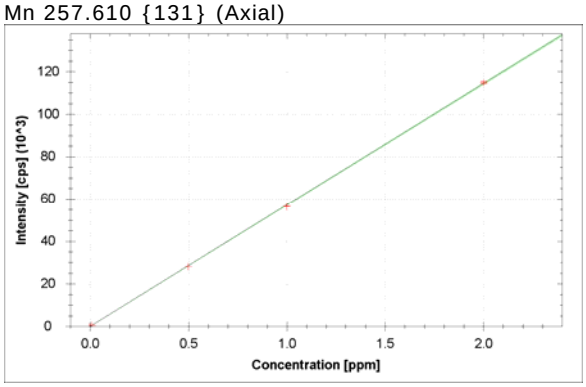
f(x) = 9072.9103*x + -4.4648
R^2 = 0.9999
BEC = 0.000 ppm
LoD = 0.0003 ppm

Cr 267.716 {126} (Axial)



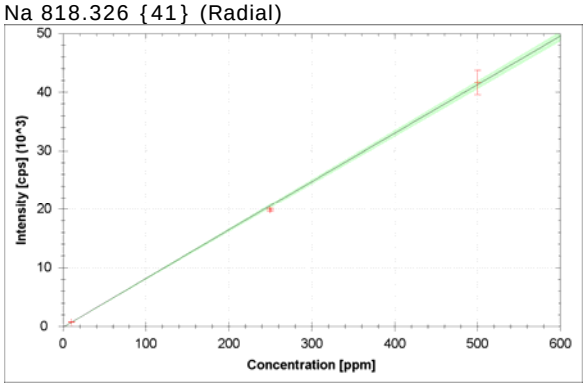
f(x) = 7394.1311*x + 15.8988
R^2 = 1.0000
BEC = 0.002 ppm
LoD = 0.0010 ppm

Mn 257.610 {131} (Axial)



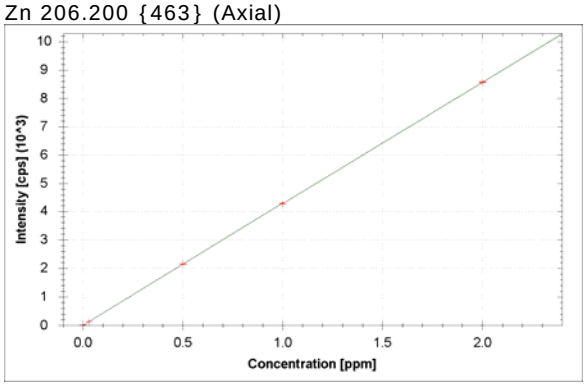
f(x) = 57204.4352*x + 9.9584
R^2 = 0.9999
BEC = 0.000 ppm
LoD = 0.0001 ppm

Na 818.326 {41} (Radial)



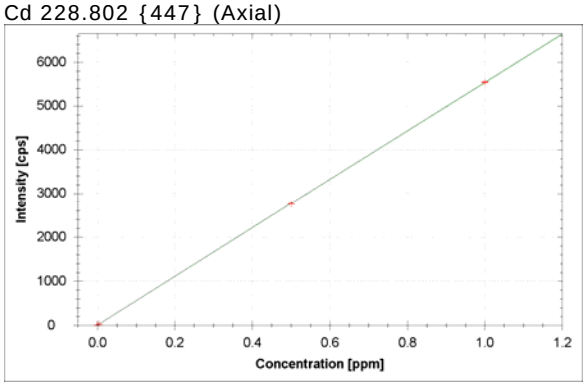
f(x) = 82.8172*x + -139.2612
R^2 = 0.9994
BEC = -1.682 ppm
LoD = 0.3236 ppm

Zn 206.200 {463} (Axial)



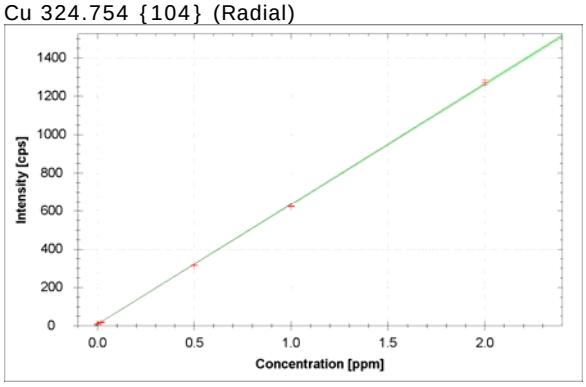
f(x) = 4279.9112*x + 3.6248
R^2 = 1.0000
BEC = 0.001 ppm
LoD = 0.0016 ppm

Cd 228.802 {447} (Axial)



f(x) = 5529.4168*x + 4.6541
R^2 = 1.0000
BEC = 0.001 ppm
LoD = 0.0003 ppm

Cu 324.754 {104} (Radial)



f(x) = 627.5277*x + 7.6389
R^2 = 0.9997
BEC = 0.012 ppm
LoD = 0.0048 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)	0.203 ppm	0.200 ppm
Be 313.042 {108} (Radial)	0.002 ppm	0.002 ppm
Ca 317.933 {106} (Radial)	0.491 ppm	0.500 ppm
Ca 373.690 {90} (Radial)	0.000 ppm	
Fe 259.940 {130} (Radial)	0.092 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)	0.097 ppm	0.100 ppm
Na 589.592 {57} (Radial)	0.491 ppm	0.500 ppm
Sr 421.552 {80} (Radial)	0.010 ppm	0.010 ppm
Ti 334.941 {101} (Radial)	0.008 ppm	0.010 ppm
V 292.402 {115} (Radial)	0.013 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)	0.019 ppm	0.020 ppm
As 189.042 {478} (Axial)	0.022 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)	4.449 ppm	5.000 ppm
Si 251.611 {134} (Axial)	0.187 ppm	0.200 ppm
Sb 206.833 {463} (Axial)	0.019 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)	0.010 ppm	0.010 ppm
Y 360.073 {94} (Radial)	100.828 %	
Y 224.306 {450} (Axial)	100.096 %	
In 230.606 {446} (Axial)	100.019 %	
Y 360.073 {94} (Axial)	99.872 %	
Na 818.326 {41} (Radial)	0.000 ppm	
Zn 206.200 {463} (Axial)	0.030 ppm	0.030 ppm
Cd 228.802 {447} (Axial)	0.005 ppm	0.005 ppm
Cu 324.754 {104} (Radial)	0.016 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)	0.501 ppm	0.500 ppm
Be 313.042 {108} (Radial)	0.498 ppm	0.500 ppm
Ca 317.933 {106} (Radial)	0.548 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)	0.499 ppm	0.500 ppm
Mg 279.079 {121} (Radial)	0.000 ppm	
Na 589.592 {57} (Radial)	0.478 ppm	0.500 ppm
Sr 421.552 {80} (Radial)	0.502 ppm	0.500 ppm
Ti 334.941 {101} (Radial)	0.502 ppm	0.500 ppm

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	STD7 14J27631	STD7 14J27631
V 292.402 {115} (Radial)	0.501 ppm	0.500 ppm
Co 228.616 {447} (Axial)	0.485 ppm	0.500 ppm
Ni 231.604 {446} (Axial)	0.484 ppm	0.500 ppm
Pb 220.353 {453} (Axial)	0.497 ppm	0.500 ppm
Sn 189.989 {478} (Axial)	0.475 ppm	0.500 ppm
Tl 190.856 {477} (Axial)	0.496 ppm	0.500 ppm
As 189.042 {478} (Axial)	0.485 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)	0.489 ppm	0.500 ppm
Sb 206.833 {463} (Axial)	0.504 ppm	0.500 ppm
Se 196.090 {472} (Axial)	0.503 ppm	0.500 ppm
Ag 328.068 {103} (Axial)	0.496 ppm	0.500 ppm
Cr 267.716 {126} (Axial)	0.500 ppm	0.500 ppm
Mn 257.610 {131} (Axial)	0.500 ppm	0.500 ppm
Y 360.073 {94} (Radial)	101.364 %	
Y 224.306 {450} (Axial)	99.777 %	
In 230.606 {446} (Axial)	98.812 %	
Y 360.073 {94} (Axial)	99.907 %	
Na 818.326 {41} (Radial)	0.000 ppm	
Zn 206.200 {463} (Axial)	0.507 ppm	0.500 ppm
Cd 228.802 {447} (Axial)	0.503 ppm	0.500 ppm
Cu 324.754 {104} (Radial)	0.498 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)	0.984 ppm	1.000 ppm
Be 313.042 {108} (Radial)	0.987 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)	1.004 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)	0.984 ppm	1.000 ppm
Mg 279.079 {121} (Radial)	0.000 ppm	
Na 589.592 {57} (Radial)	0.953 ppm	1.000 ppm
Sr 421.552 {80} (Radial)	0.990 ppm	1.000 ppm
Ti 334.941 {101} (Radial)	0.988 ppm	1.000 ppm
V 292.402 {115} (Radial)	0.989 ppm	1.000 ppm
Co 228.616 {447} (Axial)	0.968 ppm	1.000 ppm
Ni 231.604 {446} (Axial)	0.964 ppm	1.000 ppm
Pb 220.353 {453} (Axial)	1.001 ppm	1.000 ppm
Sn 189.989 {478} (Axial)	0.954 ppm	1.000 ppm
Tl 190.856 {477} (Axial)	1.002 ppm	1.000 ppm
As 189.042 {478} (Axial)	0.965 ppm	1.000 ppm
Ba 233.527 {445} (Axial)	0.974 ppm	1.000 ppm
Mo 202.030 {467} (Axial)	0.999 ppm	1.000 ppm
S 182.034 {485} (Axial)	0.890 ppm	1.000 ppm
Si 251.611 {134} (Axial)	0.980 ppm	1.000 ppm
Sb 206.833 {463} (Axial)	0.998 ppm	1.000 ppm
Se 196.090 {472} (Axial)	0.998 ppm	1.000 ppm
Ag 328.068 {103} (Axial)	1.002 ppm	1.000 ppm
Cr 267.716 {126} (Axial)	0.990 ppm	1.000 ppm

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	STD2 14J08649	STD2 14J08649
Mn 257.610 {131} (Axial)	0.987 ppm	1.000 ppm
Y 360.073 {94} (Radial)	102.855 %	
Y 224.306 {450} (Axial)	101.362 %	
In 230.606 {446} (Axial)	99.233 %	
Y 360.073 {94} (Axial)	100.122 %	
Na 818.326 {41} (Radial)	0.000 ppm	
Zn 206.200 {463} (Axial)	1.001 ppm	1.000 ppm
Cd 228.802 {447} (Axial)	0.999 ppm	1.000 ppm
Cu 324.754 {104} (Radial)	0.985 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)	2.007 ppm	2.000 ppm
Be 313.042 {108} (Radial)	2.007 ppm	2.000 ppm
Ca 317.933 {106} (Radial)	1.948 ppm	2.000 ppm
Ca 373.690 {90} (Radial)	0.000 ppm	
Fe 259.940 {130} (Radial)	1.925 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)	2.008 ppm	2.000 ppm
Mg 279.079 {121} (Radial)	0.000 ppm	
Na 589.592 {57} (Radial)	1.938 ppm	2.000 ppm
Sr 421.552 {80} (Radial)	2.005 ppm	2.000 ppm
Ti 334.941 {101} (Radial)	2.005 ppm	2.000 ppm
V 292.402 {115} (Radial)	2.005 ppm	2.000 ppm
Co 228.616 {447} (Axial)	2.020 ppm	2.000 ppm
Ni 231.604 {446} (Axial)	2.022 ppm	2.000 ppm
Pb 220.353 {453} (Axial)	0.000 ppm	
Sn 189.989 {478} (Axial)	2.029 ppm	2.000 ppm
Tl 190.856 {477} (Axial)	0.000 ppm	
As 189.042 {478} (Axial)	2.021 ppm	2.000 ppm
Ba 233.527 {445} (Axial)	1.980 ppm	2.000 ppm
Mo 202.030 {467} (Axial)	2.001 ppm	2.000 ppm
S 182.034 {485} (Axial)	1.904 ppm	2.000 ppm
Si 251.611 {134} (Axial)	2.014 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)	2.005 ppm	2.000 ppm
Mn 257.610 {131} (Axial)	2.006 ppm	2.000 ppm
Y 360.073 {94} (Radial)	103.378 %	
Y 224.306 {450} (Axial)	100.355 %	
In 230.606 {446} (Axial)	96.457 %	
Y 360.073 {94} (Axial)	99.511 %	
Na 818.326 {41} (Radial)	0.000 ppm	
Zn 206.200 {463} (Axial)	1.998 ppm	2.000 ppm
Cd 228.802 {447} (Axial)	0.000 ppm	
Cu 324.754 {104} (Radial)	2.008 ppm	2.000 ppm

	STD4 14J27630	STD4 14J27630
	Concentration average	Standard Concentration
Al 308.215 {109} (Radial)	10.185 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)	10.003 ppm	10.000 ppm
Ca 373.690 {90} (Radial)	10.957 ppm	10.000 ppm
Fe 259.940 {130} (Radial)	10.015 ppm	10.000 ppm
Fe 271.441 {124} (Radial)	11.217 ppm	10.000 ppm
K 766.490 {44} (Radial)	10.158 ppm	10.000 ppm
Li 670.784 {50} (Radial)	0.000 ppm	
Mg 279.079 {121} (Radial)	10.429 ppm	10.000 ppm
Na 589.592 {57} (Radial)	10.019 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)	10.007 ppm	10.000 ppm
Mo 202.030 {467} (Axial)	0.000 ppm	
S 182.034 {485} (Axial)	10.263 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)	102.635 %	
Y 224.306 {450} (Axial)	97.388 %	
In 230.606 {446} (Axial)	92.444 %	
Y 360.073 {94} (Axial)	95.845 %	
Na 818.326 {41} (Radial)	11.089 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)	241.284 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)	245.119 ppm	250.000 ppm
Fe 259.940 {130} (Radial)	0.000 ppm	
Fe 271.441 {124} (Radial)	98.980 ppm	100.000 ppm
K 766.490 {44} (Radial)	48.185 ppm	50.000 ppm
Li 670.784 {50} (Radial)	0.000 ppm	
Mg 279.079 {121} (Radial)	242.991 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)	48.328 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)	99.444 %	
Y 224.306 {450} (Axial)	86.909 %	
In 230.606 {446} (Axial)	73.416 %	
Y 360.073 {94} (Axial)	84.398 %	
Na 818.326 {41} (Radial)	241.455 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)	504.354 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)	502.421 ppm	500.000 ppm
Fe 259.940 {130} (Radial)	0.000 ppm	
Fe 271.441 {124} (Radial)	200.449 ppm	200.000 ppm
K 766.490 {44} (Radial)	100.891 ppm	100.000 ppm
Li 670.784 {50} (Radial)	0.000 ppm	
Mg 279.079 {121} (Radial)	503.496 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)	100.840 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)	95.812 %	
Y 224.306 {450} (Axial)	83.124 %	
In 230.606 {446} (Axial)	66.558 %	
Y 360.073 {94} (Axial)	80.865 %	

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	STD6 14I24985	STD6 14I24985
Na 818.326 {41} (Radial)	504.251 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)	0.136 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)	0.467 ppm	0.500 ppm
Ca 373.690 {90} (Radial)	0.000 ppm	
Fe 259.940 {130} (Radial)	0.094 ppm	0.100 ppm
Fe 271.441 {124} (Radial)	0.000 ppm	
K 766.490 {44} (Radial)	0.451 ppm	0.500 ppm
Li 670.784 {50} (Radial)	0.015 ppm	0.015 ppm
Mg 279.079 {121} (Radial)	0.052 ppm	0.100 ppm
Na 589.592 {57} (Radial)	0.500 ppm	0.500 ppm
Sr 421.552 {80} (Radial)	0.010 ppm	0.010 ppm
Ti 334.941 {101} (Radial)	0.011 ppm	0.010 ppm
V 292.402 {115} (Radial)	0.004 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)	0.005 ppm	0.005 ppm
Sn 189.989 {478} (Axial)	0.019 ppm	0.020 ppm
Tl 190.856 {477} (Axial)	0.021 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)	4.521 ppm	5.000 ppm
Si 251.611 {134} (Axial)	0.185 ppm	0.200 ppm
Sb 206.833 {463} (Axial)	0.019 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)	0.010 ppm	0.010 ppm
Y 360.073 {94} (Radial)	99.343 %	
Y 224.306 {450} (Axial)	100.787 %	
In 230.606 {446} (Axial)	100.146 %	
Y 360.073 {94} (Axial)	100.067 %	
Na 818.326 {41} (Radial)	0.000 ppm	
Zn 206.200 {463} (Axial)	0.029 ppm	0.030 ppm
Cd 228.802 {447} (Axial)	0.005 ppm	0.005 ppm
Cu 324.754 {104} (Radial)	0.016 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)	0.483 ppm	0.500 ppm
Be 313.042 {108} (Radial)	0.499 ppm	0.500 ppm
Ca 317.933 {106} (Radial)	0.527 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)	0.492 ppm	0.500 ppm
Mg 279.079 {121} (Radial)	0.000 ppm	
Na 589.592 {57} (Radial)	0.486 ppm	0.500 ppm
Sr 421.552 {80} (Radial)	0.493 ppm	0.500 ppm
Ti 334.941 {101} (Radial)	0.491 ppm	0.500 ppm
V 292.402 {115} (Radial)	0.493 ppm	0.500 ppm
Co 228.616 {447} (Axial)	0.479 ppm	0.500 ppm
Ni 231.604 {446} (Axial)	0.477 ppm	0.500 ppm
Pb 220.353 {453} (Axial)	0.494 ppm	0.500 ppm
Sn 189.989 {478} (Axial)	0.469 ppm	0.500 ppm
Tl 190.856 {477} (Axial)	0.493 ppm	0.500 ppm
As 189.042 {478} (Axial)	0.478 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)	0.481 ppm	0.500 ppm
Sb 206.833 {463} (Axial)	0.495 ppm	0.500 ppm
Se 196.090 {472} (Axial)	0.494 ppm	0.500 ppm
Ag 328.068 {103} (Axial)	0.492 ppm	0.500 ppm
Cr 267.716 {126} (Axial)	0.494 ppm	0.500 ppm
Mn 257.610 {131} (Axial)	0.493 ppm	0.500 ppm
Y 360.073 {94} (Radial)	100.367 %	
Y 224.306 {450} (Axial)	100.964 %	
In 230.606 {446} (Axial)	99.305 %	
Y 360.073 {94} (Axial)	99.892 %	
Na 818.326 {41} (Radial)	0.000 ppm	
Zn 206.200 {463} (Axial)	0.502 ppm	0.500 ppm
Cd 228.802 {447} (Axial)	0.498 ppm	0.500 ppm
Cu 324.754 {104} (Radial)	0.488 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)	0.984 ppm	1.000 ppm
Be 313.042 {108} (Radial)	1.001 ppm	1.000 ppm
Ca 317.933 {106} (Radial)	1.043 ppm	1.000 ppm
Ca 373.690 {90} (Radial)	0.000 ppm	
Fe 259.940 {130} (Radial)	1.005 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)	0.984 ppm	1.000 ppm
Mg 279.079 {121} (Radial)	0.000 ppm	
Na 589.592 {57} (Radial)	0.964 ppm	1.000 ppm
Sr 421.552 {80} (Radial)	0.986 ppm	1.000 ppm
Ti 334.941 {101} (Radial)	0.981 ppm	1.000 ppm
V 292.402 {115} (Radial)	0.984 ppm	1.000 ppm
Co 228.616 {447} (Axial)	0.965 ppm	1.000 ppm
Ni 231.604 {446} (Axial)	0.961 ppm	1.000 ppm
Pb 220.353 {453} (Axial)	1.003 ppm	1.000 ppm
Sn 189.989 {478} (Axial)	0.949 ppm	1.000 ppm
Tl 190.856 {477} (Axial)	1.003 ppm	1.000 ppm
As 189.042 {478} (Axial)	0.966 ppm	1.000 ppm
Ba 233.527 {445} (Axial)	0.999 ppm	1.000 ppm
Mo 202.030 {467} (Axial)	0.998 ppm	1.000 ppm
S 182.034 {485} (Axial)	0.910 ppm	1.000 ppm

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	STD2 14J08649	STD2 14J08649
Si 251.611 {134} (Axial)	0.979 ppm	1.000 ppm
Sb 206.833 {463} (Axial)	1.002 ppm	1.000 ppm
Se 196.090 {472} (Axial)	1.003 ppm	1.000 ppm
Ag 328.068 {103} (Axial)	1.004 ppm	1.000 ppm
Cr 267.716 {126} (Axial)	0.992 ppm	1.000 ppm
Mn 257.610 {131} (Axial)	0.987 ppm	1.000 ppm
Y 360.073 {94} (Radial)	101.578 %	
Y 224.306 {450} (Axial)	101.377 %	
In 230.606 {446} (Axial)	98.782 %	
Y 360.073 {94} (Axial)	99.601 %	
Na 818.326 {41} (Radial)	0.000 ppm	
Zn 206.200 {463} (Axial)	0.996 ppm	1.000 ppm
Cd 228.802 {447} (Axial)	1.001 ppm	1.000 ppm
Cu 324.754 {104} (Radial)	0.980 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)	2.013 ppm	2.000 ppm
Be 313.042 {108} (Radial)	2.054 ppm	2.000 ppm
Ca 317.933 {106} (Radial)	1.946 ppm	2.000 ppm
Ca 373.690 {90} (Radial)	0.000 ppm	
Fe 259.940 {130} (Radial)	1.949 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)	2.010 ppm	2.000 ppm
Mg 279.079 {121} (Radial)	0.000 ppm	
Na 589.592 {57} (Radial)	1.969 ppm	2.000 ppm
Sr 421.552 {80} (Radial)	2.009 ppm	2.000 ppm
Ti 334.941 {101} (Radial)	2.011 ppm	2.000 ppm
V 292.402 {115} (Radial)	2.010 ppm	2.000 ppm
Co 228.616 {447} (Axial)	2.023 ppm	2.000 ppm
Ni 231.604 {446} (Axial)	2.025 ppm	2.000 ppm
Pb 220.353 {453} (Axial)	0.000 ppm	
Sn 189.989 {478} (Axial)	2.033 ppm	2.000 ppm
Tl 190.856 {477} (Axial)	0.000 ppm	
As 189.042 {478} (Axial)	2.023 ppm	2.000 ppm
Ba 233.527 {445} (Axial)	2.033 ppm	2.000 ppm
Mo 202.030 {467} (Axial)	2.001 ppm	2.000 ppm
S 182.034 {485} (Axial)	1.952 ppm	2.000 ppm
Si 251.611 {134} (Axial)	2.017 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)	2.005 ppm	2.000 ppm
Mn 257.610 {131} (Axial)	2.008 ppm	2.000 ppm
Y 360.073 {94} (Radial)	101.384 %	
Y 224.306 {450} (Axial)	100.785 %	
In 230.606 {446} (Axial)	96.057 %	
Y 360.073 {94} (Axial)	98.687 %	
Na 818.326 {41} (Radial)	0.000 ppm	
Zn 206.200 {463} (Axial)	2.001 ppm	2.000 ppm
Cd 228.802 {447} (Axial)	0.000 ppm	
Cu 324.754 {104} (Radial)	2.013 ppm	2.000 ppm

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	STD4 14J27630	STD4 14J27630
	Concentration average	Standard Concentration
Al 308.215 {109} (Radial)	10.231 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)	10.008 ppm	10.000 ppm
Ca 373.690 {90} (Radial)	10.448 ppm	10.000 ppm
Fe 259.940 {130} (Radial)	10.010 ppm	10.000 ppm
Fe 271.441 {124} (Radial)	10.823 ppm	10.000 ppm
K 766.490 {44} (Radial)	9.722 ppm	10.000 ppm
Li 670.784 {50} (Radial)	0.000 ppm	
Mg 279.079 {121} (Radial)	9.969 ppm	10.000 ppm
Na 589.592 {57} (Radial)	10.010 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)	9.994 ppm	10.000 ppm
Mo 202.030 {467} (Axial)	0.000 ppm	
S 182.034 {485} (Axial)	10.198 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)	100.889 %	
Y 224.306 {450} (Axial)	100.333 %	
In 230.606 {446} (Axial)	94.481 %	
Y 360.073 {94} (Axial)	97.210 %	
Na 818.326 {41} (Radial)	10.721 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)	249.991 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)	244.869 ppm	250.000 ppm
Fe 259.940 {130} (Radial)	0.000 ppm	
Fe 271.441 {124} (Radial)	98.859 ppm	100.000 ppm
K 766.490 {44} (Radial)	48.112 ppm	50.000 ppm
Li 670.784 {50} (Radial)	0.000 ppm	
Mg 279.079 {121} (Radial)	242.718 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)	48.099 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)	95.305 %	
Y 224.306 {450} (Axial)	90.105 %	
In 230.606 {446} (Axial)	75.225 %	
Y 360.073 {94} (Axial)	90.897 %	
Na 818.326 {41} (Radial)	241.212 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)	521.566 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)	502.557 ppm	500.000 ppm
Fe 259.940 {130} (Radial)	0.000 ppm	
Fe 271.441 {124} (Radial)	200.530 ppm	200.000 ppm
K 766.490 {44} (Radial)	100.972 ppm	100.000 ppm
Li 670.784 {50} (Radial)	0.000 ppm	
Mg 279.079 {121} (Radial)	503.642 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)	100.956 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)	91.576 %	
Y 224.306 {450} (Axial)	85.879 %	
In 230.606 {446} (Axial)	67.983 %	
Y 360.073 {94} (Axial)	81.864 %	
Na 818.326 {41} (Radial)	504.379 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	

Comprehensive sample report

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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
ICB	QC	3	1	10
ICSA 14J10823	QC	3	1	12
blank	QC	3	0	1
ICSA 14J10823	QC	3	1	12
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
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	2	1
BLANK WG750950	UNKNOWN	3	2	1
LCS WG750950	UNKNOWN	3	2	2
LCSD WG750950	UNKNOWN	3	2	3
L729559-02 WG750950	UNKNOWN	3	2	4
SD L729559-02 WG750950	UNKNOWN	3	2	5
MS L729559-02 WG750950	UNKNOWN	3	2	6
MSD L729559-02 WG750950	UNKNOWN	3	2	7
L729771-01 WG750950	UNKNOWN	3	2	8
L729798-02 WG750950	UNKNOWN	3	2	9
L729798-04 WG750950	UNKNOWN	3	2	10
CCV 14J27642	QC	3	2	11
CCV 14J27642	QC	3	2	11
CCB	QC	3	2	12
L729798-06 WG750950	UNKNOWN	3	2	13
L729800-01 WG750950	UNKNOWN	3	2	14
MS L729800-01 WG750950	UNKNOWN	3	2	15
MSD L729800-01 WG750950	UNKNOWN	3	2	16
L729875-01 WG750950	UNKNOWN	3	2	17
L729875-02 WG750950	UNKNOWN	3	2	18
L729875-03 WG750950	UNKNOWN	3	2	19
L729875-04 WG750950	UNKNOWN	3	2	20
L729877-01 WG750950	UNKNOWN	3	2	21
L729877-02 WG750950	UNKNOWN	3	2	22
CCV 14J27642	QC	3	2	23
CCB	QC	3	2	24
L729877-03 WG750950	UNKNOWN	3	2	25
L729877-04 WG750950	UNKNOWN	3	2	26

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Label	Sample Type	Repeats	Rack	Vial
L729879-01 WG750950	UNKNOWN	3	2	27
L729879-02 WG750950	UNKNOWN	3	2	28
L729879-03 WG750950	UNKNOWN	3	2	29
L729731-03 WG751068	UNKNOWN	3	2	30
L729731-04 WG751068	UNKNOWN	3	2	31
L729731-05 WG751068	UNKNOWN	3	2	32
L729864-06 WG751068	UNKNOWN	3	2	33
L729864-07 WG751068	UNKNOWN	3	2	34
CCV 14I23907	QC	3	2	35
CCB	QC	3	2	36
L729864-08 WG751068	UNKNOWN	3	2	37
L729864-09 WG751068	UNKNOWN	3	2	38
L729864-10 WG751068	UNKNOWN	3	2	39
CCV 14J27642	QC	3	2	40
CCB	QC	3	2	41
CCVLL 14G16199	QC	3	2	42
ICSA 14J27643	QC	3	2	43
ICSAB 14J27644	QC	3	2	44

Start Time
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10/29/2014 8:50:35 AM
10/29/2014 8:54:50 AM
10/29/2014 8:59:00 AM
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10/29/2014 9:12:05 AM
10/29/2014 9:16:39 AM
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Start Time
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10/29/2014 11:19:02 AM
10/29/2014 11:23:35 AM
10/29/2014 11:29:30 AM
10/29/2014 11:33:38 AM
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CALBLK

Sample Type BLK Analysis Date 10/29/2014 8:41:39 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	0.3 %	2.5 %	-0.8 %	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	0.1 %	0.0 %	0.8 %	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	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	-18.6 %	21.1 %	0.1 %	-0.2 %
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	0.000 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 %	-6.9 %	1.3 %	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	0.000 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	-0.3 %	0.1 %	-0.2 %	0.0 %
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	0.2 %	0.2 %	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	0.000 ppm	0.000 ppm	0.000 ppm	0.000 ppm

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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 %	-0.6 %	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	0.000 ppm	100.000 %	100.000 %	100.000 %
Concentration per Run	0.000 ppm	100.000 %	100.000 %	100.000 %
Concentration RSD	0.1 %			
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	100.000 %	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 %	0.1 %	0.2 %
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	0.4 %
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	6 cps	1 cps	-1 cps	37 cps

	Ca 373.690 {90} (Radial)	Fe 259.940 {130} (Radial)	Fe 271.441 {124} (Radial)	K 766.490 {44} (Radial)
Intensity average	14 cps	10 cps	2 cps	17 cps

	Li 670.784 {50} (Radial)	Mg 279.079 {121} (Radial)	Na 589.592 {57} (Radial)	Sr 421.552 {80} (Radial)
Intensity average	0 cps	0 cps	49 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	2 cps	0 cps	0 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	0 cps	1 cps	-4 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	3 cps	3 cps	5 cps	19 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	1 cps	2 cps	-2 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	10 cps	4,477 cps	11,049 cps	3,748 cps

	Y 360.073 {94} (Axial)	Na 818.326 {41} (Radial)	Zn 206.200 {463} (Axial)	Cd 228.802 {447} (Axial)
Intensity average	171,477 cps	-138 cps	3 cps	4 cps

	Cu 324.754 {104} (Radial)
Intensity average	7 cps

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STD1 14G16199

Sample Type STD Analysis Date 10/29/2014 8:46:08 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	0.203 ppm	0.002 ppm	0.491 ppm
Concentration per Run 1	0.108 ppm	0.202 ppm	0.002 ppm	0.497 ppm
Concentration per Run 2	0.100 ppm	0.203 ppm	0.002 ppm	0.489 ppm
Concentration per Run 3	0.103 ppm	0.204 ppm	0.002 ppm	0.488 ppm
Concentration RSD	4.0 %	0.6 %	8.1 %	1.0 %
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	0.092 ppm	0.000 ppm	0.513 ppm
Concentration per Run 1	0.000 ppm	0.090 ppm	0.000 ppm	0.511 ppm
Concentration per Run 2	0.000 ppm	0.090 ppm	0.000 ppm	0.497 ppm
Concentration per Run 3	0.000 ppm	0.096 ppm	0.000 ppm	0.532 ppm
Concentration RSD		4.1 %		3.4 %
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	0.097 ppm	0.491 ppm	0.010 ppm
Concentration per Run 1	0.015 ppm	0.112 ppm	0.498 ppm	0.010 ppm
Concentration per Run 2	0.015 ppm	0.051 ppm	0.486 ppm	0.010 ppm
Concentration per Run 3	0.016 ppm	0.127 ppm	0.489 ppm	0.010 ppm
Concentration RSD	4.8 %	41.4 %	1.3 %	0.6 %
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	0.008 ppm	0.013 ppm	0.010 ppm	0.019 ppm
Concentration per Run 1	0.008 ppm	0.015 ppm	0.010 ppm	0.020 ppm
Concentration per Run 2	0.008 ppm	0.013 ppm	0.010 ppm	0.019 ppm
Concentration per Run 3	0.008 ppm	0.012 ppm	0.010 ppm	0.019 ppm
Concentration RSD	4.5 %	11.6 %	0.6 %	2.5 %
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	0.022 ppm
Concentration per Run 1	0.005 ppm	0.019 ppm	0.019 ppm	0.022 ppm
Concentration per Run 2	0.004 ppm	0.019 ppm	0.020 ppm	0.021 ppm
Concentration per Run 3	0.004 ppm	0.019 ppm	0.019 ppm	0.022 ppm
Concentration RSD	14.9 %	0.8 %	2.5 %	2.6 %
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	0.005 ppm	0.005 ppm	4.449 ppm	0.187 ppm
Concentration per Run 1	0.005 ppm	0.006 ppm	4.464 ppm	0.189 ppm
Concentration per Run 2	0.005 ppm	0.005 ppm	4.441 ppm	0.186 ppm
Concentration per Run 3	0.005 ppm	0.005 ppm	4.442 ppm	0.186 ppm
Concentration RSD	1.2 %	3.0 %	0.3 %	1.0 %
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	0.010 ppm
Concentration per Run 1	0.017 ppm	0.021 ppm	0.009 ppm	0.010 ppm
Concentration per Run 2	0.020 ppm	0.020 ppm	0.010 ppm	0.011 ppm
Concentration per Run 3	0.021 ppm	0.019 ppm	0.011 ppm	0.010 ppm
Concentration RSD	8.4 %	4.9 %	10.7 %	3.7 %
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	100.828 %	100.096 %	100.019 %
Concentration per Run 1	0.010 ppm	100.972 %	99.905 %	99.769 %
Concentration per Run 2	0.010 ppm	100.705 %	100.267 %	100.157 %
Concentration per Run 3	0.010 ppm	100.807 %	100.116 %	100.130 %
Concentration RSD	0.4 %			
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	99.872 %	0.000 ppm	0.030 ppm	0.005 ppm
Concentration per Run 1	99.732 %	0.000 ppm	0.030 ppm	0.005 ppm
Concentration per Run 2	99.661 %	0.000 ppm	0.030 ppm	0.005 ppm
Concentration per Run 3	100.224 %	0.000 ppm	0.030 ppm	0.005 ppm
Concentration RSD			0.8 %	1.3 %
Concentration SD			0.0 ppm	0.0 ppm

	Cu 324.754 {104} (Radial)
Concentration average	0.016 ppm
Concentration per Run 1	0.020 ppm
Concentration per Run 2	0.015 ppm
Concentration per Run 3	0.013 ppm
Concentration RSD	19.9 %
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	10 cps	36 cps	25 cps	267 cps

	Ca 373.690 {90} (Radial)	Fe 259.940 {130} (Radial)	Fe 271.441 {124} (Radial)	K 766.490 {44} (Radial)
Intensity average	116 cps	35 cps	2 cps	286 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	162 cps	4 cps	873 cps	301 cps

	Ti 334.941 {101} (Radial)	V 292.402 {115} (Radial)	Co 228.616 {447} (Axial)	Ni 231.604 {446} (Axial)
Intensity average	18 cps	5 cps	38 cps	57 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	24 cps	10 cps	7 cps

	Ba 233.527 {445} (Axial)	Mo 202.030 {467} (Axial)	S 182.034 {485} (Axial)	Si 251.611 {134} (Axial)
Intensity average	46 cps	26 cps	1,187 cps	515 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	10 cps	88 cps	92 cps

	Mn 257.610 {131} (Axial)	Y 360.073 {94} (Radial)	Y 224.306 {450} (Axial)	In 230.606 {446} (Axial)
Intensity average	598 cps	4,514 cps	11,059 cps	3,749 cps

	Y 360.073 {94} (Axial)	Na 818.326 {41} (Radial)	Zn 206.200 {463} (Axial)	Cd 228.802 {447} (Axial)
Intensity average	171,258 cps	-91 cps	134 cps	34 cps

	Cu 324.754 {104} (Radial)
Intensity average	17 cps

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STD7 14J27631

Sample Type STD Analysis Date 10/29/2014 8:50:35 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	0.501 ppm	0.498 ppm	0.548 ppm
Concentration per Run 1	0.000 ppm	0.513 ppm	0.496 ppm	0.536 ppm
Concentration per Run 2	0.000 ppm	0.487 ppm	0.496 ppm	0.527 ppm
Concentration per Run 3	0.000 ppm	0.503 ppm	0.502 ppm	0.581 ppm
Concentration RSD		2.6 %	0.7 %	5.3 %
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	0.499 ppm	0.000 ppm	0.478 ppm	0.502 ppm
Concentration per Run 1	0.497 ppm	0.000 ppm	0.476 ppm	0.502 ppm
Concentration per Run 2	0.498 ppm	0.000 ppm	0.475 ppm	0.500 ppm
Concentration per Run 3	0.503 ppm	0.000 ppm	0.482 ppm	0.505 ppm
Concentration RSD	0.7 %		0.8 %	0.5 %
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	0.502 ppm	0.501 ppm	0.485 ppm	0.484 ppm
Concentration per Run 1	0.499 ppm	0.499 ppm	0.484 ppm	0.483 ppm
Concentration per Run 2	0.500 ppm	0.506 ppm	0.483 ppm	0.480 ppm
Concentration per Run 3	0.508 ppm	0.498 ppm	0.488 ppm	0.487 ppm
Concentration RSD	1.1 %	0.9 %	0.6 %	0.7 %
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	0.497 ppm	0.475 ppm	0.496 ppm	0.485 ppm
Concentration per Run 1	0.497 ppm	0.476 ppm	0.494 ppm	0.483 ppm
Concentration per Run 2	0.494 ppm	0.471 ppm	0.494 ppm	0.486 ppm
Concentration per Run 3	0.501 ppm	0.479 ppm	0.500 ppm	0.486 ppm
Concentration RSD	0.7 %	0.9 %	0.8 %	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	0.000 ppm	0.000 ppm	0.000 ppm	0.489 ppm
Concentration per Run 1	0.000 ppm	0.000 ppm	0.000 ppm	0.484 ppm
Concentration per Run 2	0.000 ppm	0.000 ppm	0.000 ppm	0.491 ppm
Concentration per Run 3	0.000 ppm	0.000 ppm	0.000 ppm	0.491 ppm
Concentration RSD				0.8 %
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	0.504 ppm	0.503 ppm	0.496 ppm	0.500 ppm
Concentration per Run 1	0.503 ppm	0.500 ppm	0.493 ppm	0.497 ppm
Concentration per Run 2	0.505 ppm	0.502 ppm	0.498 ppm	0.504 ppm
Concentration per Run 3	0.503 ppm	0.507 ppm	0.497 ppm	0.499 ppm
Concentration RSD	0.2 %	0.7 %	0.6 %	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	0.500 ppm	101.364 %	99.777 %	98.812 %
Concentration per Run 1	0.498 ppm	101.404 %	99.955 %	98.934 %
Concentration per Run 2	0.502 ppm	102.394 %	99.884 %	99.134 %
Concentration per Run 3	0.500 ppm	100.293 %	99.492 %	98.367 %
Concentration RSD	0.4 %			
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	99.907 %	0.000 ppm	0.507 ppm	0.503 ppm
Concentration per Run 1	99.932 %	0.000 ppm	0.506 ppm	0.501 ppm
Concentration per Run 2	99.792 %	0.000 ppm	0.504 ppm	0.501 ppm
Concentration per Run 3	99.998 %	0.000 ppm	0.512 ppm	0.505 ppm
Concentration RSD			0.8 %	0.4 %
Concentration SD			0.0 ppm	0.0 ppm

	Cu 324.754 {104} (Radial)
Concentration average	0.498 ppm
Concentration per Run 1	0.503 ppm
Concentration per Run 2	0.490 ppm
Concentration per Run 3	0.501 ppm
Concentration RSD	1.5 %
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 cps	89 cps	6,593 cps	295 cps

	Ca 373.690 {90} (Radial)	Fe 259.940 {130} (Radial)	Fe 271.441 {124} (Radial)	K 766.490 {44} (Radial)
Intensity average	128 cps	151 cps	10 cps	280 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	5,392 cps	18 cps	855 cps	15,283 cps

	Ti 334.941 {101} (Radial)	V 292.402 {115} (Radial)	Co 228.616 {447} (Axial)	Ni 231.604 {446} (Axial)
Intensity average	989 cps	209 cps	1,813 cps	1,334 cps

	Pb 220.353 {453} (Axial)	Sn 189.989 {478} (Axial)	Tl 190.856 {477} (Axial)	As 189.042 {478} (Axial)
Intensity average	460 cps	551 cps	355 cps	217 cps

	Ba 233.527 {445} (Axial)	Mo 202.030 {467} (Axial)	S 182.034 {485} (Axial)	Si 251.611 {134} (Axial)
Intensity average	4,128 cps	2,184 cps	122 cps	1,316 cps

	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)	Ag 328.068 {103} (Axial)	Cr 267.716 {126} (Axial)
Intensity average	322 cps	188 cps	4,590 cps	3,762 cps

	Mn 257.610 {131} (Axial)	Y 360.073 {94} (Radial)	Y 224.306 {450} (Axial)	In 230.606 {446} (Axial)
Intensity average	28,564 cps	4,538 cps	11,024 cps	3,703 cps

	Y 360.073 {94} (Axial)	Na 818.326 {41} (Radial)	Zn 206.200 {463} (Axial)	Cd 228.802 {447} (Axial)
Intensity average	171,319 cps	-93 cps	2,235 cps	2,832 cps

	Cu 324.754 {104} (Radial)
Intensity average	318 cps

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STD2 14J08649

Sample Type STD Analysis Date 10/29/2014 8:54:50 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	0.984 ppm	0.987 ppm	1.051 ppm
Concentration per Run 1	0.000 ppm	0.976 ppm	0.981 ppm	1.042 ppm
Concentration per Run 2	0.000 ppm	0.994 ppm	0.994 ppm	1.060 ppm
Concentration per Run 3	0.000 ppm	0.982 ppm	0.986 ppm	1.052 ppm
Concentration RSD		1.0 %	0.6 %	0.9 %
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	1.004 ppm	0.000 ppm	0.000 ppm
Concentration per Run 1	0.000 ppm	0.997 ppm	0.000 ppm	0.000 ppm
Concentration per Run 2	0.000 ppm	1.015 ppm	0.000 ppm	0.000 ppm
Concentration per Run 3	0.000 ppm	1.001 ppm	0.000 ppm	0.000 ppm
Concentration RSD		0.9 %		
Concentration SD		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	0.984 ppm	0.000 ppm	0.953 ppm	0.990 ppm
Concentration per Run 1	0.979 ppm	0.000 ppm	0.949 ppm	0.984 ppm
Concentration per Run 2	0.985 ppm	0.000 ppm	0.959 ppm	0.992 ppm
Concentration per Run 3	0.989 ppm	0.000 ppm	0.952 ppm	0.992 ppm
Concentration RSD	0.5 %		0.6 %	0.5 %
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	0.988 ppm	0.989 ppm	0.968 ppm	0.964 ppm
Concentration per Run 1	0.989 ppm	0.987 ppm	0.969 ppm	0.964 ppm
Concentration per Run 2	0.988 ppm	0.988 ppm	0.967 ppm	0.965 ppm
Concentration per Run 3	0.988 ppm	0.993 ppm	0.967 ppm	0.962 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

	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	0.954 ppm	1.002 ppm	0.965 ppm
Concentration per Run 1	1.001 ppm	0.953 ppm	1.000 ppm	0.967 ppm
Concentration per Run 2	1.000 ppm	0.957 ppm	1.005 ppm	0.966 ppm
Concentration per Run 3	1.003 ppm	0.954 ppm	1.001 ppm	0.962 ppm
Concentration RSD	0.1 %	0.2 %	0.2 %	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	0.974 ppm	0.999 ppm	0.890 ppm	0.980 ppm
Concentration per Run 1	0.975 ppm	0.999 ppm	0.893 ppm	0.977 ppm
Concentration per Run 2	0.976 ppm	1.001 ppm	0.889 ppm	0.980 ppm
Concentration per Run 3	0.972 ppm	0.997 ppm	0.887 ppm	0.982 ppm
Concentration RSD	0.2 %	0.2 %	0.4 %	0.3 %
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	0.998 ppm	0.998 ppm	1.002 ppm	0.990 ppm
Concentration per Run 1	1.001 ppm	1.001 ppm	0.997 ppm	0.989 ppm
Concentration per Run 2	1.000 ppm	0.997 ppm	1.004 ppm	0.992 ppm
Concentration per Run 3	0.993 ppm	0.997 ppm	1.005 ppm	0.990 ppm
Concentration RSD	0.4 %	0.2 %	0.4 %	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	0.987 ppm	102.855 %	101.362 %	99.233 %
Concentration per Run 1	0.987 ppm	103.456 %	101.427 %	99.211 %
Concentration per Run 2	0.989 ppm	102.293 %	101.224 %	99.183 %
Concentration per Run 3	0.986 ppm	102.817 %	101.435 %	99.304 %
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	100.122 %	0.000 ppm	1.001 ppm	0.999 ppm
Concentration per Run 1	100.450 %	0.000 ppm	1.004 ppm	0.999 ppm
Concentration per Run 2	99.882 %	0.000 ppm	1.001 ppm	1.000 ppm
Concentration per Run 3	100.035 %	0.000 ppm	1.000 ppm	0.997 ppm
Concentration RSD			0.2 %	0.1 %
Concentration SD			0.0 ppm	0.0 ppm

	Cu 324.754 {104} (Radial)
Concentration average	0.985 ppm
Concentration per Run 1	0.984 ppm
Concentration per Run 2	0.990 ppm
Concentration per Run 3	0.980 ppm
Concentration RSD	0.5 %
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	33 cps	176 cps	13,266 cps	540 cps

	Ca 373.690 {90} (Radial)	Fe 259.940 {130} (Radial)	Fe 271.441 {124} (Radial)	K 766.490 {44} (Radial)
Intensity average	239 cps	295 cps	22 cps	534 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	10,788 cps	39 cps	1,683 cps	30,573 cps

	Ti 334.941 {101} (Radial)	V 292.402 {115} (Radial)	Co 228.616 {447} (Axial)	Ni 231.604 {446} (Axial)
Intensity average	1,973 cps	419 cps	3,633 cps	2,668 cps

	Pb 220.353 {453} (Axial)	Sn 189.989 {478} (Axial)	Tl 190.856 {477} (Axial)	As 189.042 {478} (Axial)
Intensity average	930 cps	1,110 cps	725 cps	442 cps

	Ba 233.527 {445} (Axial)	Mo 202.030 {467} (Axial)	S 182.034 {485} (Axial)	Si 251.611 {134} (Axial)
Intensity average	8,224 cps	4,332 cps	244 cps	2,625 cps

	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)	Ag 328.068 {103} (Axial)	Cr 267.716 {126} (Axial)
Intensity average	647 cps	378 cps	9,291 cps	7,459 cps

	Mn 257.610 {131} (Axial)	Y 360.073 {94} (Radial)	Y 224.306 {450} (Axial)	In 230.606 {446} (Axial)
Intensity average	56,486 cps	4,605 cps	11,199 cps	3,719 cps

	Y 360.073 {94} (Axial)	Na 818.326 {41} (Radial)	Zn 206.200 {463} (Axial)	Cd 228.802 {447} (Axial)
Intensity average	171,687 cps	-33 cps	4,480 cps	5,713 cps

	Cu 324.754 {104} (Radial)
Intensity average	630 cps

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STD3 14J06521

Sample Type STD Analysis Date 10/29/2014 8:59:00 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	2.007 ppm	2.007 ppm	1.948 ppm
Concentration per Run 1	0.000 ppm	1.998 ppm	2.009 ppm	1.943 ppm
Concentration per Run 2	0.000 ppm	1.997 ppm	1.994 ppm	1.930 ppm
Concentration per Run 3	0.000 ppm	2.027 ppm	2.018 ppm	1.971 ppm
Concentration RSD		0.9 %	0.6 %	1.1 %
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	1.925 ppm	0.000 ppm	0.000 ppm
Concentration per Run 1	0.000 ppm	1.923 ppm	0.000 ppm	0.000 ppm
Concentration per Run 2	0.000 ppm	1.920 ppm	0.000 ppm	0.000 ppm
Concentration per Run 3	0.000 ppm	1.932 ppm	0.000 ppm	0.000 ppm
Concentration RSD		0.3 %		
Concentration SD		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	2.008 ppm	0.000 ppm	1.938 ppm	2.005 ppm
Concentration per Run 1	2.007 ppm	0.000 ppm	1.943 ppm	2.007 ppm
Concentration per Run 2	1.997 ppm	0.000 ppm	1.918 ppm	1.991 ppm
Concentration per Run 3	2.021 ppm	0.000 ppm	1.953 ppm	2.016 ppm
Concentration RSD	0.6 %		0.9 %	0.6 %
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	2.005 ppm	2.005 ppm	2.020 ppm	2.022 ppm
Concentration per Run 1	2.004 ppm	2.002 ppm	2.028 ppm	2.027 ppm
Concentration per Run 2	1.991 ppm	1.998 ppm	2.020 ppm	2.021 ppm
Concentration per Run 3	2.021 ppm	2.016 ppm	2.012 ppm	2.018 ppm
Concentration RSD	0.7 %	0.5 %	0.4 %	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	0.000 ppm	2.029 ppm	0.000 ppm	2.021 ppm
Concentration per Run 1	0.000 ppm	2.035 ppm	0.000 ppm	2.014 ppm
Concentration per Run 2	0.000 ppm	2.028 ppm	0.000 ppm	2.023 ppm
Concentration per Run 3	0.000 ppm	2.024 ppm	0.000 ppm	2.026 ppm
Concentration RSD		0.3 %		0.3 %
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	1.980 ppm	2.001 ppm	1.904 ppm	2.014 ppm
Concentration per Run 1	1.980 ppm	2.000 ppm	1.906 ppm	2.000 ppm
Concentration per Run 2	1.979 ppm	1.999 ppm	1.903 ppm	2.040 ppm
Concentration per Run 3	1.981 ppm	2.002 ppm	1.903 ppm	2.004 ppm
Concentration RSD	0.0 %	0.1 %	0.1 %	1.1 %
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	2.005 ppm
Concentration per Run 1	0.000 ppm	0.000 ppm	0.000 ppm	1.993 ppm
Concentration per Run 2	0.000 ppm	0.000 ppm	0.000 ppm	2.024 ppm
Concentration per Run 3	0.000 ppm	0.000 ppm	0.000 ppm	1.997 ppm
Concentration RSD				0.8 %
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	2.006 ppm	103.378 %	100.355 %	96.457 %
Concentration per Run 1	1.992 ppm	103.650 %	100.789 %	96.631 %
Concentration per Run 2	2.025 ppm	103.868 %	100.415 %	96.500 %
Concentration per Run 3	2.002 ppm	102.615 %	99.860 %	96.241 %
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	99.511 %	0.000 ppm	1.998 ppm	0.000 ppm
Concentration per Run 1	100.158 %	0.000 ppm	2.003 ppm	0.000 ppm
Concentration per Run 2	98.850 %	0.000 ppm	1.998 ppm	0.000 ppm
Concentration per Run 3	99.523 %	0.000 ppm	1.992 ppm	0.000 ppm
Concentration RSD			0.3 %	
Concentration SD			0.0 ppm	

	Cu 324.754 {104} (Radial)
Concentration average	2.008 ppm
Concentration per Run 1	2.000 ppm
Concentration per Run 2	2.005 ppm
Concentration per Run 3	2.020 ppm
Concentration RSD	0.5 %
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	66 cps	360 cps	27,115 cps	974 cps

	Ca 373.690 {90} (Radial)	Fe 259.940 {130} (Radial)	Fe 271.441 {124} (Radial)	K 766.490 {44} (Radial)
Intensity average	432 cps	558 cps	39 cps	1,071 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	22,119 cps	80 cps	3,385 cps	62,253 cps

	Ti 334.941 {101} (Radial)	V 292.402 {115} (Radial)	Co 228.616 {447} (Axial)	Ni 231.604 {446} (Axial)
Intensity average	4,021 cps	855 cps	7,371 cps	5,438 cps

	Pb 220.353 {453} (Axial)	Sn 189.989 {478} (Axial)	Tl 190.856 {477} (Axial)	As 189.042 {478} (Axial)
Intensity average	1,931 cps	2,291 cps	1,517 cps	919 cps

	Ba 233.527 {445} (Axial)	Mo 202.030 {467} (Axial)	S 182.034 {485} (Axial)	Si 251.611 {134} (Axial)
Intensity average	16,547 cps	8,587 cps	512 cps	5,344 cps

	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)	Ag 328.068 {103} (Axial)	Cr 267.716 {126} (Axial)
Intensity average	1,345 cps	788 cps	19,565 cps	14,992 cps

	Mn 257.610 {131} (Axial)	Y 360.073 {94} (Radial)	Y 224.306 {450} (Axial)	In 230.606 {446} (Axial)
Intensity average	114,113 cps	4,628 cps	11,088 cps	3,615 cps

	Y 360.073 {94} (Axial)	Na 818.326 {41} (Radial)	Zn 206.200 {463} (Axial)	Cd 228.802 {447} (Axial)
Intensity average	170,639 cps	72 cps	8,847 cps	11,910 cps

	Cu 324.754 {104} (Radial)
Intensity average	1,284 cps

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STD4 14J27630

Sample Type STD Analysis Date 10/29/2014 9:03:08 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	10.185 ppm	0.000 ppm	0.000 ppm	10.003 ppm
Concentration per Run 1	10.249 ppm	0.000 ppm	0.000 ppm	10.044 ppm
Concentration per Run 2	10.146 ppm	0.000 ppm	0.000 ppm	9.998 ppm
Concentration per Run 3	10.160 ppm	0.000 ppm	0.000 ppm	9.968 ppm
Concentration RSD	0.5 %			0.4 %
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	10.957 ppm	10.015 ppm	11.217 ppm	10.158 ppm
Concentration per Run 1	11.007 ppm	10.021 ppm	11.214 ppm	10.169 ppm
Concentration per Run 2	10.917 ppm	9.987 ppm	11.240 ppm	10.147 ppm
Concentration per Run 3	10.946 ppm	10.036 ppm	11.198 ppm	10.159 ppm
Concentration RSD	0.4 %	0.3 %	0.2 %	0.1 %
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	10.429 ppm	10.019 ppm	0.000 ppm
Concentration per Run 1	0.000 ppm	10.439 ppm	10.043 ppm	0.000 ppm
Concentration per Run 2	0.000 ppm	10.417 ppm	9.983 ppm	0.000 ppm
Concentration per Run 3	0.000 ppm	10.432 ppm	10.030 ppm	0.000 ppm
Concentration RSD		0.1 %	0.3 %	
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				

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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	10.007 ppm	0.000 ppm	10.263 ppm	0.000 ppm
Concentration per Run 1	10.013 ppm	0.000 ppm	10.282 ppm	0.000 ppm
Concentration per Run 2	10.005 ppm	0.000 ppm	10.261 ppm	0.000 ppm
Concentration per Run 3	10.001 ppm	0.000 ppm	10.245 ppm	0.000 ppm
Concentration RSD	0.1 %		0.2 %	
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	102.635 %	97.388 %	92.444 %
Concentration per Run 1	0.000 ppm	102.458 %	96.854 %	92.085 %
Concentration per Run 2	0.000 ppm	102.650 %	96.997 %	92.069 %
Concentration per Run 3	0.000 ppm	102.796 %	98.312 %	93.178 %
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	95.845 %	11.089 ppm	0.000 ppm	0.000 ppm
Concentration per Run 1	95.685 %	11.034 ppm	0.000 ppm	0.000 ppm
Concentration per Run 2	96.068 %	10.961 ppm	0.000 ppm	0.000 ppm
Concentration per Run 3	95.781 %	11.273 ppm	0.000 ppm	0.000 ppm
Concentration RSD		1.5 %		
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	354 cps	1 cps	0 cps	4,809 cps

	Ca 373.690 {90} (Radial)	Fe 259.940 {130} (Radial)	Fe 271.441 {124} (Radial)	K 766.490 {44} (Radial)
Intensity average	2,139 cps	2,842 cps	185 cps	5,452 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 cps	426 cps	17,168 cps	0 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	-2 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	-2 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	81,132 cps	2 cps	2,657 cps	26,862 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	-3 cps	5 cps

	Mn 257.610 {131} (Axial)	Y 360.073 {94} (Radial)	Y 224.306 {450} (Axial)	In 230.606 {446} (Axial)
Intensity average	31 cps	4,595 cps	10,760 cps	3,465 cps

	Y 360.073 {94} (Axial)	Na 818.326 {41} (Radial)	Zn 206.200 {463} (Axial)	Cd 228.802 {447} (Axial)
Intensity average	164,352 cps	769 cps	4 cps	-8 cps

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

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STD5 14J08650

Sample Type STD Analysis Date 10/29/2014 9:07:32 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	241.284 ppm	0.000 ppm	0.000 ppm	0.000 ppm
Concentration per Run 1	243.839 ppm	0.000 ppm	0.000 ppm	0.000 ppm
Concentration per Run 2	244.532 ppm	0.000 ppm	0.000 ppm	0.000 ppm
Concentration per Run 3	235.481 ppm	0.000 ppm	0.000 ppm	0.000 ppm
Concentration RSD	2.1 %			
Concentration SD	5.0 ppm			

	Ca 373.690 {90} (Radial)	Fe 259.940 {130} (Radial)	Fe 271.441 {124} (Radial)	K 766.490 {44} (Radial)
Concentration average	245.119 ppm	0.000 ppm	98.980 ppm	48.185 ppm
Concentration per Run 1	248.344 ppm	0.000 ppm	100.289 ppm	48.852 ppm
Concentration per Run 2	248.728 ppm	0.000 ppm	100.804 ppm	48.923 ppm
Concentration per Run 3	238.285 ppm	0.000 ppm	95.846 ppm	46.781 ppm
Concentration RSD	2.4 %		2.8 %	2.5 %
Concentration SD	5.9 ppm		2.7 ppm	1.2 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	242.991 ppm	0.000 ppm	0.000 ppm
Concentration per Run 1	0.000 ppm	246.619 ppm	0.000 ppm	0.000 ppm
Concentration per Run 2	0.000 ppm	246.465 ppm	0.000 ppm	0.000 ppm
Concentration per Run 3	0.000 ppm	235.889 ppm	0.000 ppm	0.000 ppm
Concentration RSD		2.5 %		
Concentration SD		6.2 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	48.328 ppm	0.000 ppm
Concentration per Run 1	0.000 ppm	0.000 ppm	48.498 ppm	0.000 ppm
Concentration per Run 2	0.000 ppm	0.000 ppm	48.245 ppm	0.000 ppm
Concentration per Run 3	0.000 ppm	0.000 ppm	48.240 ppm	0.000 ppm
Concentration RSD			0.3 %	
Concentration SD			0.1 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	99.444 %	86.909 %	73.416 %
Concentration per Run 1	0.000 ppm	98.193 %	86.570 %	73.136 %
Concentration per Run 2	0.000 ppm	98.518 %	87.207 %	73.671 %
Concentration per Run 3	0.000 ppm	101.621 %	86.951 %	73.442 %
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	84.398 %	241.455 ppm	0.000 ppm	0.000 ppm
Concentration per Run 1	83.566 %	244.691 ppm	0.000 ppm	0.000 ppm
Concentration per Run 2	84.422 %	244.718 ppm	0.000 ppm	0.000 ppm
Concentration per Run 3	85.206 %	234.956 ppm	0.000 ppm	0.000 ppm
Concentration RSD		2.3 %		
Concentration SD		5.6 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	7,996 cps	-1 cps	0 cps	102,122 cps

	Ca 373.690 {90} (Radial)	Fe 259.940 {130} (Radial)	Fe 271.441 {124} (Radial)	K 766.490 {44} (Radial)
Intensity average	46,049 cps	23,949 cps	1,570 cps	24,990 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	18 cps	9,614 cps	360,379 cps	110 cps

	Ti 334.941 {101} (Radial)	V 292.402 {115} (Radial)	Co 228.616 {447} (Axial)	Ni 231.604 {446} (Axial)
Intensity average	42 cps	2 cps	4 cps	-4 cps

	Pb 220.353 {453} (Axial)	Sn 189.989 {478} (Axial)	Tl 190.856 {477} (Axial)	As 189.042 {478} (Axial)
Intensity average	-12 cps	1 cps	-4 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	13 cps	3 cps	11,149 cps	18 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	5 cps	-6 cps	17 cps

	Mn 257.610 {131} (Axial)	Y 360.073 {94} (Radial)	Y 224.306 {450} (Axial)	In 230.606 {446} (Axial)
Intensity average	389 cps	4,452 cps	9,602 cps	2,752 cps

	Y 360.073 {94} (Axial)	Na 818.326 {41} (Radial)	Zn 206.200 {463} (Axial)	Cd 228.802 {447} (Axial)
Intensity average	144,724 cps	19,069 cps	10 cps	1 cps

	Cu 324.754 {104} (Radial)
Intensity average	5 cps

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STD6 14I24985

Sample Type STD Analysis Date 10/29/2014 9:12:05 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	504.354 ppm	0.000 ppm	0.000 ppm	0.000 ppm
Concentration per Run 1	509.231 ppm	0.000 ppm	0.000 ppm	0.000 ppm
Concentration per Run 2	503.553 ppm	0.000 ppm	0.000 ppm	0.000 ppm
Concentration per Run 3	500.279 ppm	0.000 ppm	0.000 ppm	0.000 ppm
Concentration RSD	0.9 %			
Concentration SD	4.5 ppm			

	Ca 373.690 {90} (Radial)	Fe 259.940 {130} (Radial)	Fe 271.441 {124} (Radial)	K 766.490 {44} (Radial)
Concentration average	502.421 ppm	0.000 ppm	200.449 ppm	100.891 ppm
Concentration per Run 1	507.726 ppm	0.000 ppm	202.231 ppm	102.193 ppm
Concentration per Run 2	500.372 ppm	0.000 ppm	199.079 ppm	100.336 ppm
Concentration per Run 3	499.165 ppm	0.000 ppm	200.038 ppm	100.145 ppm
Concentration RSD	0.9 %		0.8 %	1.1 %
Concentration SD	4.6 ppm		1.6 ppm	1.1 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	503.496 ppm	0.000 ppm	0.000 ppm
Concentration per Run 1	0.000 ppm	509.308 ppm	0.000 ppm	0.000 ppm
Concentration per Run 2	0.000 ppm	501.754 ppm	0.000 ppm	0.000 ppm
Concentration per Run 3	0.000 ppm	499.426 ppm	0.000 ppm	0.000 ppm
Concentration RSD		1.0 %		
Concentration SD		5.2 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	100.840 ppm	0.000 ppm
Concentration per Run 1	0.000 ppm	0.000 ppm	100.913 ppm	0.000 ppm
Concentration per Run 2	0.000 ppm	0.000 ppm	100.926 ppm	0.000 ppm
Concentration per Run 3	0.000 ppm	0.000 ppm	100.681 ppm	0.000 ppm
Concentration RSD			0.1 %	
Concentration SD			0.1 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	95.812 %	83.124 %	66.558 %
Concentration per Run 1	0.000 ppm	95.252 %	83.088 %	66.553 %
Concentration per Run 2	0.000 ppm	96.090 %	83.164 %	66.535 %
Concentration per Run 3	0.000 ppm	96.094 %	83.119 %	66.585 %
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	80.865 %	504.251 ppm	0.000 ppm	0.000 ppm
Concentration per Run 1	81.803 %	509.061 ppm	0.000 ppm	0.000 ppm
Concentration per Run 2	80.165 %	502.147 ppm	0.000 ppm	0.000 ppm
Concentration per Run 3	80.628 %	501.545 ppm	0.000 ppm	0.000 ppm
Concentration RSD		0.8 %		
Concentration SD		4.2 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	16,100 cps	0 cps	1 cps	198,096 cps

	Ca 373.690 {90} (Radial)	Fe 259.940 {130} (Radial)	Fe 271.441 {124} (Radial)	K 766.490 {44} (Radial)
Intensity average	90,951 cps	45,937 cps	3,064 cps	50,410 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	67 cps	19,199 cps	645,985 cps	219 cps

	Ti 334.941 {101} (Radial)	V 292.402 {115} (Radial)	Co 228.616 {447} (Axial)	Ni 231.604 {446} (Axial)
Intensity average	48 cps	2 cps	5 cps	-11 cps

	Pb 220.353 {453} (Axial)	Sn 189.989 {478} (Axial)	Tl 190.856 {477} (Axial)	As 189.042 {478} (Axial)
Intensity average	-24 cps	2 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	19 cps	2 cps	22,245 cps	15 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	8 cps	-12 cps	20 cps

	Mn 257.610 {131} (Axial)	Y 360.073 {94} (Radial)	Y 224.306 {450} (Axial)	In 230.606 {446} (Axial)
Intensity average	718 cps	4,290 cps	9,184 cps	2,495 cps

	Y 360.073 {94} (Axial)	Na 818.326 {41} (Radial)	Zn 206.200 {463} (Axial)	Cd 228.802 {447} (Axial)
Intensity average	138,666 cps	38,522 cps	16 cps	-4 cps

	Cu 324.754 {104} (Radial)
Intensity average	7 cps

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ICV 14I23903

Sample Type QC Analysis Date 10/29/2014 9:16:39 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	9.524 ppm	0.996 ppm	0.992 ppm	9.504 ppm
Concentration per Run 1	9.531 ppm	0.989 ppm	0.989 ppm	9.441 ppm
Concentration per Run 2	9.539 ppm	1.003 ppm	0.996 ppm	9.567 ppm
Concentration per Run 3	9.501 ppm	0.996 ppm	0.992 ppm	9.502 ppm
Concentration RSD	0.2 %	0.7 %	0.3 %	0.7 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 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	10.258 ppm	9.515 ppm	10.771 ppm	9.417 ppm
Concentration per Run 1	10.246 ppm	9.502 ppm	10.772 ppm	9.414 ppm
Concentration per Run 2	10.271 ppm	9.550 ppm	10.791 ppm	9.425 ppm
Concentration per Run 3	10.258 ppm	9.493 ppm	10.750 ppm	9.413 ppm
Concentration RSD	0.1 %	0.3 %	0.2 %	0.1 %
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	0.997 ppm	9.855 ppm	9.485 ppm	0.398 ppm
Concentration per Run 1	0.999 ppm	9.853 ppm	9.489 ppm	0.398 ppm
Concentration per Run 2	0.999 ppm	9.928 ppm	9.494 ppm	0.398 ppm
Concentration per Run 3	0.995 ppm	9.783 ppm	9.472 ppm	0.397 ppm
Concentration RSD	0.2 %	0.7 %	0.1 %	0.1 %
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	0.992 ppm	0.994 ppm	0.993 ppm	0.983 ppm
Concentration per Run 1	0.995 ppm	0.998 ppm	0.994 ppm	0.983 ppm
Concentration per Run 2	0.992 ppm	1.003 ppm	0.993 ppm	0.984 ppm
Concentration per Run 3	0.990 ppm	0.980 ppm	0.991 ppm	0.983 ppm
Concentration RSD	0.3 %	1.2 %	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	1.008 ppm	0.971 ppm	0.995 ppm	0.986 ppm
Concentration per Run 1	1.010 ppm	0.971 ppm	0.993 ppm	0.989 ppm
Concentration per Run 2	1.005 ppm	0.972 ppm	0.996 ppm	0.985 ppm
Concentration per Run 3	1.010 ppm	0.969 ppm	0.997 ppm	0.985 ppm
Concentration RSD	0.2 %	0.2 %	0.2 %	0.2 %
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	0.975 ppm	1.027 ppm	0.022 ppm	0.958 ppm
Concentration per Run 1	0.976 ppm	1.026 ppm	0.026 ppm	0.955 ppm
Concentration per Run 2	0.975 ppm	1.027 ppm	0.022 ppm	0.959 ppm
Concentration per Run 3	0.975 ppm	1.027 ppm	0.019 ppm	0.959 ppm
Concentration RSD	0.1 %	0.0 %	16.5 %	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	1.024 ppm	1.033 ppm	0.099 ppm	0.991 ppm
Concentration per Run 1	1.019 ppm	1.032 ppm	0.100 ppm	0.994 ppm
Concentration per Run 2	1.025 ppm	1.033 ppm	0.098 ppm	0.992 ppm
Concentration per Run 3	1.029 ppm	1.033 ppm	0.099 ppm	0.986 ppm
Concentration RSD	0.5 %	0.1 %	0.8 %	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	0.996 ppm	100.978 %	95.199 %	91.808 %
Concentration per Run 1	0.999 ppm	101.393 %	95.277 %	91.819 %
Concentration per Run 2	0.996 ppm	100.569 %	95.040 %	91.696 %
Concentration per Run 3	0.993 ppm	100.973 %	95.281 %	91.908 %
Concentration RSD	0.3 %	0.4 %	0.1 %	0.1 %
Concentration SD	0.0 ppm	0.4 %	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	95.425 %	9.798 ppm	0.976 ppm	1.017 ppm
Concentration per Run 1	95.269 %	9.587 ppm	0.977 ppm	1.016 ppm
Concentration per Run 2	95.405 %	10.040 ppm	0.977 ppm	1.017 ppm
Concentration per Run 3	95.602 %	9.769 ppm	0.975 ppm	1.018 ppm
Concentration RSD	0.2 %	2.3 %	0.1 %	0.1 %
Concentration SD	0.2 %	0.2 ppm	0.0 ppm	0.0 ppm

	Cu 324.754 {104} (Radial)
Concentration average	0.980 ppm
Concentration per Run 1	0.978 ppm
Concentration per Run 2	0.976 ppm
Concentration per Run 3	0.985 ppm
Concentration RSD	0.5 %
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	326 cps	175 cps	13,096 cps	4,496 cps

	Ca 373.690 {90} (Radial)	Fe 259.940 {130} (Radial)	Fe 271.441 {124} (Radial)	K 766.490 {44} (Radial)
Intensity average	1,971 cps	2,657 cps	175 cps	4,974 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	10,732 cps	396 cps	15,994 cps	12,055 cps

	Ti 334.941 {101} (Radial)	V 292.402 {115} (Radial)	Co 228.616 {447} (Axial)	Ni 231.604 {446} (Axial)
Intensity average	1,944 cps	414 cps	3,448 cps	2,518 cps

	Pb 220.353 {453} (Axial)	Sn 189.989 {478} (Axial)	Tl 190.856 {477} (Axial)	As 189.042 {478} (Axial)
Intensity average	867 cps	1,044 cps	666 cps	424 cps

	Ba 233.527 {445} (Axial)	Mo 202.030 {467} (Axial)	S 182.034 {485} (Axial)	Si 251.611 {134} (Axial)
Intensity average	7,732 cps	4,182 cps	10 cps	2,446 cps

	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)	Ag 328.068 {103} (Axial)	Cr 267.716 {126} (Axial)
Intensity average	624 cps	367 cps	873 cps	7,110 cps

	Mn 257.610 {131} (Axial)	Y 360.073 {94} (Radial)	Y 224.306 {450} (Axial)	In 230.606 {446} (Axial)
Intensity average	54,331 cps	4,521 cps	10,518 cps	3,441 cps

	Y 360.073 {94} (Axial)	Na 818.326 {41} (Radial)	Zn 206.200 {463} (Axial)	Cd 228.802 {447} (Axial)
Intensity average	163,633 cps	652 cps	4,102 cps	5,465 cps

	Cu 324.754 {104} (Radial)
Intensity average	616 cps

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Sample Type QC Analysis Date 10/29/2014 9:20:49 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	-0.018 ppm	0.000 ppm	0.000 ppm	-0.006 ppm
Concentration per Run 1	-0.007 ppm	-0.007 ppm	0.000 ppm	-0.008 ppm
Concentration per Run 2	0.004 ppm	0.002 ppm	0.000 ppm	-0.003 ppm
Concentration per Run 3	-0.050 ppm	0.005 ppm	0.000 ppm	-0.007 ppm
Concentration RSD	162.6 %	51,183.3 %	153.4 %	43.1 %
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	-0.004 ppm	-0.038 ppm	0.033 ppm
Concentration per Run 1	-0.014 ppm	-0.010 ppm	0.068 ppm	0.019 ppm
Concentration per Run 2	0.014 ppm	-0.003 ppm	-0.114 ppm	0.029 ppm
Concentration per Run 3	0.010 ppm	0.001 ppm	-0.069 ppm	0.052 ppm
Concentration RSD	439.6 %	139.0 %	247.8 %	50.1 %
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	-0.001 ppm	-0.018 ppm	0.032 ppm	0.000 ppm
Concentration per Run 1	-0.001 ppm	-0.012 ppm	0.030 ppm	0.000 ppm
Concentration per Run 2	-0.001 ppm	-0.046 ppm	0.032 ppm	0.000 ppm
Concentration per Run 3	0.000 ppm	0.006 ppm	0.034 ppm	0.000 ppm
Concentration RSD	49.7 %	150.8 %	5.9 %	183.1 %
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	-0.001 ppm	-0.001 ppm	0.000 ppm	0.000 ppm
Concentration per Run 1	-0.001 ppm	-0.001 ppm	0.000 ppm	-0.001 ppm
Concentration per Run 2	-0.001 ppm	-0.002 ppm	0.000 ppm	0.000 ppm
Concentration per Run 3	-0.001 ppm	0.000 ppm	0.000 ppm	0.000 ppm
Concentration RSD	29.5 %	79.9 %	2,843.8 %	243.0 %
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	0.000 ppm	0.000 ppm	-0.001 ppm	0.001 ppm
Concentration per Run 1	0.000 ppm	0.000 ppm	-0.001 ppm	0.002 ppm
Concentration per Run 2	-0.001 ppm	0.000 ppm	-0.001 ppm	0.001 ppm
Concentration per Run 3	0.000 ppm	0.000 ppm	0.000 ppm	0.002 ppm
Concentration RSD	96.8 %	47.8 %	45.8 %	25.4 %
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	0.007 ppm	-0.002 ppm
Concentration per Run 1	0.000 ppm	0.000 ppm	0.006 ppm	-0.002 ppm
Concentration per Run 2	0.000 ppm	0.000 ppm	0.006 ppm	-0.002 ppm
Concentration per Run 3	0.000 ppm	0.000 ppm	0.008 ppm	-0.002 ppm
Concentration RSD	300.7 %	50.9 %	20.3 %	7.0 %
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	0.001 ppm	0.000 ppm	0.001 ppm
Concentration per Run 1	0.000 ppm	0.001 ppm	0.000 ppm	0.001 ppm
Concentration per Run 2	0.000 ppm	0.001 ppm	0.000 ppm	0.000 ppm
Concentration per Run 3	0.000 ppm	0.000 ppm	-0.001 ppm	0.000 ppm
Concentration RSD	335.1 %	43.3 %	54.6 %	79.3 %
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	0.000 ppm	109.459 %	97.673 %	98.669 %
Concentration per Run 1	0.000 ppm	121.771 %	97.625 %	98.491 %
Concentration per Run 2	0.000 ppm	105.373 %	97.570 %	98.639 %
Concentration per Run 3	0.000 ppm	101.233 %	97.825 %	98.879 %
Concentration RSD	196.0 %	9.9 %	0.1 %	0.2 %
Concentration SD	0.0 ppm	10.9 %	0.1 %	0.2 %

	Y 360.073 {94} (Axial)	Na 818.326 {41} (Radial)	Zn 206.200 {463} (Axial)	Cd 228.802 {447} (Axial)
Concentration average	98.950 %	0.172 ppm	0.000 ppm	0.000 ppm
Concentration per Run 1	98.608 %	0.425 ppm	0.000 ppm	0.000 ppm
Concentration per Run 2	98.752 %	0.112 ppm	0.000 ppm	0.000 ppm
Concentration per Run 3	99.491 %	-0.020 ppm	0.000 ppm	0.000 ppm
Concentration RSD	0.5 %	132.7 %	435.9 %	51.7 %
Concentration SD	0.5 %	0.2 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	0.000 ppm
Concentration per Run 3	-0.002 ppm
Concentration RSD	105.9 %
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	6 cps	1 cps	-1 cps	37 cps

	Ca 373.690 {90} (Radial)	Fe 259.940 {130} (Radial)	Fe 271.441 {124} (Radial)	K 766.490 {44} (Radial)
Intensity average	16 cps	9 cps	1 cps	37 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	-9 cps	-1 cps	112 cps	-4 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	0 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	2 cps	-4 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	3 cps	3 cps	7 cps	13 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	2 cps	-5 cps	19 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	4,901 cps	10,792 cps	3,698 cps

	Y 360.073 {94} (Axial)	Na 818.326 {41} (Radial)	Zn 206.200 {463} (Axial)	Cd 228.802 {447} (Axial)
Intensity average	169,677 cps	-135 cps	2 cps	5 cps

	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)	Ca 317.933 {106} (Radial)
Concentration average	474.636 ppm	0.001 ppm	0.000 ppm	426.206 ppm
Concentration per Run 1	477.213 ppm	0.005 ppm	0.000 ppm	425.581 ppm
Concentration per Run 2	472.933 ppm	0.000 ppm	0.000 ppm	426.493 ppm
Concentration per Run 3	473.762 ppm	-0.002 ppm	0.000 ppm	426.543 ppm
Concentration RSD	0.5 %	389.1 %	886.4 %	0.1 %
Concentration SD	2.3 ppm	0.0 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	476.772 ppm	166.618 ppm	193.218 ppm	0.064 ppm
Concentration per Run 1	477.518 ppm	166.479 ppm	192.454 ppm	0.069 ppm
Concentration per Run 2	475.431 ppm	166.615 ppm	193.394 ppm	0.058 ppm
Concentration per Run 3	477.369 ppm	166.762 ppm	193.807 ppm	0.065 ppm
Concentration RSD	0.2 %	0.1 %	0.4 %	8.8 %
Concentration SD	1.2 ppm	0.1 ppm	0.7 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	494.576 ppm	0.099 ppm	0.007 ppm
Concentration per Run 1	0.003 ppm	492.887 ppm	0.097 ppm	0.007 ppm
Concentration per Run 2	0.005 ppm	496.358 ppm	0.101 ppm	0.007 ppm
Concentration per Run 3	0.004 ppm	494.484 ppm	0.100 ppm	0.007 ppm
Concentration RSD	20.9 %	0.4 %	2.1 %	0.3 %
Concentration SD	0.0 ppm	1.7 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	0.001 ppm	-0.009 ppm
Concentration per Run 1	0.006 ppm	0.012 ppm	0.001 ppm	-0.009 ppm
Concentration per Run 2	0.004 ppm	0.008 ppm	0.001 ppm	-0.008 ppm
Concentration per Run 3	0.003 ppm	0.000 ppm	0.001 ppm	-0.009 ppm
Concentration RSD	30.1 %	95.6 %	31.6 %	2.5 %
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	-0.036 ppm	0.001 ppm	-0.006 ppm	-0.004 ppm
Concentration per Run 1	-0.036 ppm	0.001 ppm	-0.004 ppm	-0.006 ppm
Concentration per Run 2	-0.036 ppm	0.001 ppm	-0.007 ppm	-0.001 ppm
Concentration per Run 3	-0.035 ppm	0.001 ppm	-0.006 ppm	-0.005 ppm
Concentration RSD	1.3 %	6.8 %	26.4 %	59.2 %
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	0.002 ppm	0.000 ppm	0.018 ppm	-0.002 ppm
Concentration per Run 1	0.003 ppm	0.000 ppm	0.016 ppm	-0.001 ppm
Concentration per Run 2	0.002 ppm	-0.001 ppm	0.012 ppm	-0.005 ppm
Concentration per Run 3	0.002 ppm	0.000 ppm	0.026 ppm	-0.001 ppm
Concentration RSD	12.5 %	110.0 %	39.5 %	85.1 %
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	-0.003 ppm	0.021 ppm	0.000 ppm	0.001 ppm
Concentration per Run 1	-0.005 ppm	0.022 ppm	0.000 ppm	0.001 ppm
Concentration per Run 2	-0.004 ppm	0.019 ppm	0.000 ppm	0.002 ppm
Concentration per Run 3	0.000 ppm	0.023 ppm	0.000 ppm	0.001 ppm
Concentration RSD	81.1 %	11.0 %	1,136.8 %	42.3 %
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	-0.002 ppm	97.391 %	84.609 %	71.546 %
Concentration per Run 1	-0.002 ppm	97.819 %	84.213 %	71.310 %
Concentration per Run 2	-0.002 ppm	96.922 %	84.791 %	71.634 %
Concentration per Run 3	-0.002 ppm	97.432 %	84.823 %	71.695 %
Concentration RSD	3.0 %	0.5 %	0.4 %	0.3 %
Concentration SD	0.0 ppm	0.4 %	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	83.471 %	0.018 ppm	0.005 ppm	-0.001 ppm
Concentration per Run 1	83.576 %	0.044 ppm	0.005 ppm	-0.001 ppm
Concentration per Run 2	83.383 %	0.062 ppm	0.004 ppm	-0.001 ppm
Concentration per Run 3	83.453 %	-0.052 ppm	0.005 ppm	-0.001 ppm
Concentration RSD	0.1 %	344.9 %	5.0 %	12.6 %
Concentration SD	0.1 %	0.1 ppm	0.0 ppm	0.0 ppm

	Cu 324.754 {104} (Radial)
Concentration average	0.000 ppm
Concentration per Run 1	-0.005 ppm
Concentration per Run 2	0.000 ppm
Concentration per Run 3	0.004 ppm
Concentration RSD	2,025.8 %
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	15,402 cps	1 cps	-1 cps	192,911 cps

	Ca 373.690 {90} (Radial)	Fe 259.940 {130} (Radial)	Fe 271.441 {124} (Radial)	K 766.490 {44} (Radial)
Intensity average	87,734 cps	44,715 cps	3,002 cps	49 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	42 cps	19,170 cps	208 cps	207 cps

	Ti 334.941 {101} (Radial)	V 292.402 {115} (Radial)	Co 228.616 {447} (Axial)	Ni 231.604 {446} (Axial)
Intensity average	11 cps	2 cps	3 cps	-15 cps

	Pb 220.353 {453} (Axial)	Sn 189.989 {478} (Axial)	Tl 190.856 {477} (Axial)	As 189.042 {478} (Axial)
Intensity average	-24 cps	2 cps	-6 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	19 cps	1 cps	8 cps	11 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	8 cps	-1 cps	19 cps

	Mn 257.610 {131} (Axial)	Y 360.073 {94} (Radial)	Y 224.306 {450} (Axial)	In 230.606 {446} (Axial)
Intensity average	-104 cps	4,360 cps	9,348 cps	2,681 cps

	Y 360.073 {94} (Axial)	Na 818.326 {41} (Radial)	Zn 206.200 {463} (Axial)	Cd 228.802 {447} (Axial)
Intensity average	143,134 cps	-133 cps	20 cps	-1 cps

	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)	Ca 317.933 {106} (Radial)
Concentration average	0.022 ppm	0.003 ppm	0.000 ppm	0.036 ppm
Concentration per Run 1	0.011 ppm	0.005 ppm	0.000 ppm	0.043 ppm
Concentration per Run 2	0.022 ppm	0.006 ppm	0.000 ppm	0.039 ppm
Concentration per Run 3	0.034 ppm	-0.001 ppm	0.000 ppm	0.027 ppm
Concentration RSD	51.8 %	123.6 %	71.2 %	23.6 %
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	0.051 ppm	0.015 ppm	-0.006 ppm	0.031 ppm
Concentration per Run 1	0.051 ppm	0.021 ppm	0.067 ppm	0.038 ppm
Concentration per Run 2	0.051 ppm	0.010 ppm	0.014 ppm	0.015 ppm
Concentration per Run 3	0.050 ppm	0.013 ppm	-0.099 ppm	0.039 ppm
Concentration RSD	1.5 %	37.5 %	1,380.4 %	44.1 %
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	0.059 ppm	0.020 ppm	0.000 ppm
Concentration per Run 1	-0.001 ppm	0.068 ppm	0.021 ppm	0.000 ppm
Concentration per Run 2	-0.001 ppm	0.060 ppm	0.021 ppm	0.000 ppm
Concentration per Run 3	0.001 ppm	0.049 ppm	0.019 ppm	0.000 ppm
Concentration RSD	202.3 %	15.7 %	7.6 %	88.5 %
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	-0.002 ppm	0.004 ppm	0.000 ppm	0.000 ppm
Concentration per Run 1	-0.002 ppm	0.005 ppm	0.000 ppm	0.000 ppm
Concentration per Run 2	-0.002 ppm	0.002 ppm	0.000 ppm	0.000 ppm
Concentration per Run 3	-0.001 ppm	0.005 ppm	0.000 ppm	0.000 ppm
Concentration RSD	29.5 %	41.7 %	589.7 %	28.2 %
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	0.000 ppm	0.000 ppm	0.000 ppm	0.001 ppm
Concentration per Run 1	0.000 ppm	0.000 ppm	0.001 ppm	0.000 ppm
Concentration per Run 2	0.001 ppm	0.000 ppm	-0.001 ppm	0.001 ppm
Concentration per Run 3	0.000 ppm	0.000 ppm	0.000 ppm	0.002 ppm
Concentration RSD	206.9 %	255.9 %	265.7 %	112.2 %
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	0.006 ppm	-0.002 ppm
Concentration per Run 1	0.000 ppm	0.000 ppm	0.006 ppm	-0.002 ppm
Concentration per Run 2	0.000 ppm	0.000 ppm	0.005 ppm	-0.001 ppm
Concentration per Run 3	0.000 ppm	0.000 ppm	0.009 ppm	-0.003 ppm
Concentration RSD	84.2 %	104.5 %	36.4 %	66.4 %
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	-0.001 ppm	0.000 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	-0.001 ppm	0.000 ppm	-0.001 ppm	0.000 ppm
Concentration per Run 3	-0.002 ppm	-0.002 ppm	0.000 ppm	0.000 ppm
Concentration RSD	21.5 %	849.4 %	63.5 %	75.0 %
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	0.000 ppm	102.266 %	97.729 %	98.837 %
Concentration per Run 1	0.000 ppm	102.503 %	98.358 %	99.733 %
Concentration per Run 2	0.000 ppm	101.552 %	99.001 %	100.128 %
Concentration per Run 3	0.000 ppm	102.744 %	95.828 %	96.649 %
Concentration RSD	57.2 %	0.6 %	1.7 %	1.9 %
Concentration SD	0.0 ppm	0.6 %	1.7 %	1.9 %

	Y 360.073 {94} (Axial)	Na 818.326 {41} (Radial)	Zn 206.200 {463} (Axial)	Cd 228.802 {447} (Axial)
Concentration average	100.813 %	0.034 ppm	0.000 ppm	0.000 ppm
Concentration per Run 1	100.779 %	0.034 ppm	0.000 ppm	0.000 ppm
Concentration per Run 2	100.606 %	-0.012 ppm	0.000 ppm	0.000 ppm
Concentration per Run 3	101.055 %	0.080 ppm	0.000 ppm	0.000 ppm
Concentration RSD	0.2 %	134.1 %	21.0 %	144.2 %
Concentration SD	0.2 %	0.0 ppm	0.0 ppm	0.0 ppm

	Cu 324.754 {104} (Radial)
Concentration average	-0.001 ppm
Concentration per Run 1	0.000 ppm
Concentration per Run 2	-0.001 ppm
Concentration per Run 3	-0.001 ppm
Concentration RSD	40.0 %
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	7 cps	1 cps	-2 cps	55 cps

	Ca 373.690 {90} (Radial)	Fe 259.940 {130} (Radial)	Fe 271.441 {124} (Radial)	K 766.490 {44} (Radial)
Intensity average	24 cps	14 cps	2 cps	33 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	-6 cps	2 cps	85 cps	-10 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	0 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	0 cps	1 cps	-4 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	3 cps	3 cps	7 cps	15 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	-6 cps	16 cps

	Mn 257.610 {131} (Axial)	Y 360.073 {94} (Radial)	Y 224.306 {450} (Axial)	In 230.606 {446} (Axial)
Intensity average	8 cps	4,578 cps	10,798 cps	3,704 cps

	Y 360.073 {94} (Axial)	Na 818.326 {41} (Radial)	Zn 206.200 {463} (Axial)	Cd 228.802 {447} (Axial)
Intensity average	172,872 cps	-138 cps	1 cps	5 cps

	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)	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	0.3 %	2.3 %	7.8 %	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 %	0.1 %	1.0 %	0.2 %
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	0.000 ppm	0.000 ppm	0.000 ppm
Concentration per Run	0.000 ppm	0.000 ppm	0.000 ppm	0.000 ppm
Concentration RSD	-0.8 %	0.3 %	0.1 %	-1.0 %
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	-0.7 %	1.3 %	9.9 %	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	0.000 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	-0.8 %	0.1 %	0.0 %	-0.1 %
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	0.1 %	0.1 %	0.0 %	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

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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	1.1 %	0.1 %	-0.2 %	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	0.000 ppm	100.000 %	100.000 %	100.000 %
Concentration per Run	0.000 ppm	100.000 %	100.000 %	100.000 %
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	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		-0.1 %	0.6 %	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	1 cps	0 cps	46 cps

	Ca 373.690 {90} (Radial)	Fe 259.940 {130} (Radial)	Fe 271.441 {124} (Radial)	K 766.490 {44} (Radial)
Intensity average	20 cps	12 cps	1 cps	35 cps

	Li 670.784 {50} (Radial)	Mg 279.079 {121} (Radial)	Na 589.592 {57} (Radial)	Sr 421.552 {80} (Radial)
Intensity average	-10 cps	1 cps	72 cps	-6 cps

	Ti 334.941 {101} (Radial)	V 292.402 {115} (Radial)	Co 228.616 {447} (Axial)	Ni 231.604 {446} (Axial)
Intensity average	-2 cps	1 cps	0 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	-4 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	3 cps	3 cps	6 cps	17 cps

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)
Intensity average	1 cps	2 cps	-4 cps	16 cps

	Mn 257.610 {131} (Axial)	Y 360.073 {94} (Radial)	Y 224.306 {450} (Axial)	In 230.606 {446} (Axial)
Intensity average	10 cps	4,606 cps	10,868 cps	3,732 cps

	Y 360.073 {94} (Axial)	Na 818.326 {41} (Radial)	Zn 206.200 {463} (Axial)	Cd 228.802 {447} (Axial)
Intensity average	172,743 cps	-139 cps	4 cps	5 cps

	Cu 324.754 {104} (Radial)
Intensity average	8 cps

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STD1 14G16199

Sample Type STD Analysis Date 10/29/2014 9:43:01 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	0.136 ppm	0.199 ppm	0.002 ppm	0.467 ppm
Concentration per Run 1	0.230 ppm	0.209 ppm	0.002 ppm	0.468 ppm
Concentration per Run 2	0.064 ppm	0.208 ppm	0.002 ppm	0.468 ppm
Concentration per Run 3	0.113 ppm	0.181 ppm	0.002 ppm	0.466 ppm
Concentration RSD	62.8 %	8.0 %	3.2 %	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	0.000 ppm	0.094 ppm	0.000 ppm	0.451 ppm
Concentration per Run 1	0.000 ppm	0.089 ppm	0.000 ppm	0.458 ppm
Concentration per Run 2	0.000 ppm	0.098 ppm	0.000 ppm	0.438 ppm
Concentration per Run 3	0.000 ppm	0.096 ppm	0.000 ppm	0.457 ppm
Concentration RSD		4.8 %		2.5 %
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	0.052 ppm	0.500 ppm	0.010 ppm
Concentration per Run 1	0.014 ppm	0.041 ppm	0.497 ppm	0.010 ppm
Concentration per Run 2	0.015 ppm	0.067 ppm	0.502 ppm	0.010 ppm
Concentration per Run 3	0.016 ppm	0.048 ppm	0.500 ppm	0.010 ppm
Concentration RSD	8.0 %	26.0 %	0.4 %	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	0.011 ppm	0.004 ppm	0.010 ppm	0.020 ppm
Concentration per Run 1	0.012 ppm	0.005 ppm	0.010 ppm	0.020 ppm
Concentration per Run 2	0.010 ppm	0.002 ppm	0.010 ppm	0.019 ppm
Concentration per Run 3	0.011 ppm	0.006 ppm	0.010 ppm	0.019 ppm
Concentration RSD	10.6 %	48.1 %	1.0 %	1.4 %
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	0.005 ppm	0.019 ppm	0.021 ppm	0.020 ppm
Concentration per Run 1	0.006 ppm	0.018 ppm	0.022 ppm	0.021 ppm
Concentration per Run 2	0.005 ppm	0.018 ppm	0.021 ppm	0.019 ppm
Concentration per Run 3	0.005 ppm	0.020 ppm	0.019 ppm	0.020 ppm
Concentration RSD	9.5 %	4.4 %	8.1 %	5.2 %
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	4.521 ppm	0.185 ppm
Concentration per Run 1	0.005 ppm	0.005 ppm	4.529 ppm	0.186 ppm
Concentration per Run 2	0.005 ppm	0.005 ppm	4.521 ppm	0.185 ppm
Concentration per Run 3	0.005 ppm	0.005 ppm	4.515 ppm	0.184 ppm
Concentration RSD	1.4 %	1.6 %	0.2 %	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	0.019 ppm	0.020 ppm	0.010 ppm	0.010 ppm
Concentration per Run 1	0.020 ppm	0.021 ppm	0.010 ppm	0.010 ppm
Concentration per Run 2	0.019 ppm	0.019 ppm	0.009 ppm	0.010 ppm
Concentration per Run 3	0.018 ppm	0.021 ppm	0.010 ppm	0.010 ppm
Concentration RSD	4.5 %	5.8 %	3.6 %	2.0 %
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	0.010 ppm	99.343 %	100.787 %	100.146 %
Concentration per Run 1	0.010 ppm	100.147 %	100.847 %	100.210 %
Concentration per Run 2	0.010 ppm	98.524 %	100.772 %	100.197 %
Concentration per Run 3	0.010 ppm	99.357 %	100.741 %	100.031 %
Concentration RSD	0.3 %			
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	100.067 %	0.000 ppm	0.029 ppm	0.005 ppm
Concentration per Run 1	99.975 %	0.000 ppm	0.030 ppm	0.005 ppm
Concentration per Run 2	99.976 %	0.000 ppm	0.029 ppm	0.005 ppm
Concentration per Run 3	100.249 %	0.000 ppm	0.029 ppm	0.005 ppm
Concentration RSD			0.6 %	3.4 %
Concentration SD			0.0 ppm	0.0 ppm

	Cu 324.754 {104} (Radial)
Concentration average	0.016 ppm
Concentration per Run 1	0.014 ppm
Concentration per Run 2	0.016 ppm
Concentration per Run 3	0.019 ppm
Concentration RSD	16.5 %
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	36 cps	27 cps	262 cps

	Ca 373.690 {90} (Radial)	Fe 259.940 {130} (Radial)	Fe 271.441 {124} (Radial)	K 766.490 {44} (Radial)
Intensity average	114 cps	37 cps	2 cps	276 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	153 cps	3 cps	902 cps	300 cps

	Ti 334.941 {101} (Radial)	V 292.402 {115} (Radial)	Co 228.616 {447} (Axial)	Ni 231.604 {446} (Axial)
Intensity average	20 cps	3 cps	37 cps	56 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	23 cps	11 cps	7 cps

	Ba 233.527 {445} (Axial)	Mo 202.030 {467} (Axial)	S 182.034 {485} (Axial)	Si 251.611 {134} (Axial)
Intensity average	45 cps	25 cps	1,165 cps	506 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	10 cps	83 cps	91 cps

	Mn 257.610 {131} (Axial)	Y 360.073 {94} (Radial)	Y 224.306 {450} (Axial)	In 230.606 {446} (Axial)
Intensity average	593 cps	4,576 cps	10,954 cps	3,737 cps

	Y 360.073 {94} (Axial)	Na 818.326 {41} (Radial)	Zn 206.200 {463} (Axial)	Cd 228.802 {447} (Axial)
Intensity average	172,858 cps	-98 cps	131 cps	33 cps

	Cu 324.754 {104} (Radial)
Intensity average	18 cps

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STD7 14J27631

Sample Type STD Analysis Date 10/29/2014 9:47:28 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	0.483 ppm	0.499 ppm	0.527 ppm
Concentration per Run 1	0.000 ppm	0.481 ppm	0.499 ppm	0.522 ppm
Concentration per Run 2	0.000 ppm	0.487 ppm	0.499 ppm	0.532 ppm
Concentration per Run 3	0.000 ppm	0.481 ppm	0.498 ppm	0.526 ppm
Concentration RSD		0.7 %	0.1 %	1.0 %
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	0.492 ppm	0.000 ppm	0.486 ppm	0.493 ppm
Concentration per Run 1	0.492 ppm	0.000 ppm	0.486 ppm	0.493 ppm
Concentration per Run 2	0.492 ppm	0.000 ppm	0.485 ppm	0.493 ppm
Concentration per Run 3	0.491 ppm	0.000 ppm	0.486 ppm	0.494 ppm
Concentration RSD	0.1 %		0.1 %	0.2 %
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	0.491 ppm	0.493 ppm	0.479 ppm	0.477 ppm
Concentration per Run 1	0.492 ppm	0.493 ppm	0.478 ppm	0.477 ppm
Concentration per Run 2	0.492 ppm	0.489 ppm	0.480 ppm	0.478 ppm
Concentration per Run 3	0.489 ppm	0.497 ppm	0.479 ppm	0.476 ppm
Concentration RSD	0.3 %	0.8 %	0.1 %	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	0.494 ppm	0.469 ppm	0.493 ppm	0.478 ppm
Concentration per Run 1	0.495 ppm	0.469 ppm	0.491 ppm	0.480 ppm
Concentration per Run 2	0.494 ppm	0.470 ppm	0.495 ppm	0.477 ppm
Concentration per Run 3	0.492 ppm	0.469 ppm	0.493 ppm	0.477 ppm
Concentration RSD	0.3 %	0.1 %	0.5 %	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	0.000 ppm	0.000 ppm	0.000 ppm	0.481 ppm
Concentration per Run 1	0.000 ppm	0.000 ppm	0.000 ppm	0.480 ppm
Concentration per Run 2	0.000 ppm	0.000 ppm	0.000 ppm	0.483 ppm
Concentration per Run 3	0.000 ppm	0.000 ppm	0.000 ppm	0.479 ppm
Concentration RSD				0.5 %
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	0.495 ppm	0.494 ppm	0.492 ppm	0.494 ppm
Concentration per Run 1	0.494 ppm	0.492 ppm	0.492 ppm	0.492 ppm
Concentration per Run 2	0.495 ppm	0.494 ppm	0.493 ppm	0.495 ppm
Concentration per Run 3	0.496 ppm	0.497 ppm	0.492 ppm	0.495 ppm
Concentration RSD	0.2 %	0.5 %	0.1 %	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	0.493 ppm	100.367 %	100.964 %	99.305 %
Concentration per Run 1	0.492 ppm	100.219 %	101.187 %	99.363 %
Concentration per Run 2	0.493 ppm	100.298 %	100.730 %	99.249 %
Concentration per Run 3	0.493 ppm	100.584 %	100.976 %	99.305 %
Concentration RSD	0.1 %			
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	99.892 %	0.000 ppm	0.502 ppm	0.498 ppm
Concentration per Run 1	100.020 %	0.000 ppm	0.502 ppm	0.497 ppm
Concentration per Run 2	99.760 %	0.000 ppm	0.504 ppm	0.498 ppm
Concentration per Run 3	99.896 %	0.000 ppm	0.501 ppm	0.497 ppm
Concentration RSD			0.3 %	0.2 %
Concentration SD			0.0 ppm	0.0 ppm

	Cu 324.754 {104} (Radial)
Concentration average	0.488 ppm
Concentration per Run 1	0.489 ppm
Concentration per Run 2	0.488 ppm
Concentration per Run 3	0.486 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	19 cps	87 cps	6,628 cps	293 cps

	Ca 373.690 {90} (Radial)	Fe 259.940 {130} (Radial)	Fe 271.441 {124} (Radial)	K 766.490 {44} (Radial)
Intensity average	127 cps	151 cps	11 cps	278 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	5,426 cps	20 cps	888 cps	15,093 cps

	Ti 334.941 {101} (Radial)	V 292.402 {115} (Radial)	Co 228.616 {447} (Axial)	Ni 231.604 {446} (Axial)
Intensity average	984 cps	210 cps	1,790 cps	1,311 cps

	Pb 220.353 {453} (Axial)	Sn 189.989 {478} (Axial)	Tl 190.856 {477} (Axial)	As 189.042 {478} (Axial)
Intensity average	450 cps	540 cps	348 cps	212 cps

	Ba 233.527 {445} (Axial)	Mo 202.030 {467} (Axial)	S 182.034 {485} (Axial)	Si 251.611 {134} (Axial)
Intensity average	4,058 cps	2,151 cps	120 cps	1,284 cps

	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)	Ag 328.068 {103} (Axial)	Cr 267.716 {126} (Axial)
Intensity average	317 cps	185 cps	4,458 cps	3,666 cps

	Mn 257.610 {131} (Axial)	Y 360.073 {94} (Radial)	Y 224.306 {450} (Axial)	In 230.606 {446} (Axial)
Intensity average	28,160 cps	4,623 cps	10,973 cps	3,706 cps

	Y 360.073 {94} (Axial)	Na 818.326 {41} (Radial)	Zn 206.200 {463} (Axial)	Cd 228.802 {447} (Axial)
Intensity average	172,556 cps	-94 cps	2,174 cps	2,783 cps

	Cu 324.754 {104} (Radial)
Intensity average	315 cps

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STD2 14J08649

Sample Type STD Analysis Date 10/29/2014 9:51:43 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	0.984 ppm	1.001 ppm	1.043 ppm
Concentration per Run 1	0.000 ppm	0.985 ppm	1.004 ppm	1.059 ppm
Concentration per Run 2	0.000 ppm	0.984 ppm	1.002 ppm	1.033 ppm
Concentration per Run 3	0.000 ppm	0.982 ppm	0.996 ppm	1.037 ppm
Concentration RSD		0.2 %	0.4 %	1.3 %
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	1.005 ppm	0.000 ppm	0.000 ppm
Concentration per Run 1	0.000 ppm	1.002 ppm	0.000 ppm	0.000 ppm
Concentration per Run 2	0.000 ppm	1.011 ppm	0.000 ppm	0.000 ppm
Concentration per Run 3	0.000 ppm	1.001 ppm	0.000 ppm	0.000 ppm
Concentration RSD		0.5 %		
Concentration SD		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	0.984 ppm	0.000 ppm	0.964 ppm	0.986 ppm
Concentration per Run 1	0.988 ppm	0.000 ppm	0.963 ppm	0.988 ppm
Concentration per Run 2	0.985 ppm	0.000 ppm	0.965 ppm	0.988 ppm
Concentration per Run 3	0.978 ppm	0.000 ppm	0.965 ppm	0.983 ppm
Concentration RSD	0.5 %		0.1 %	0.3 %
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	0.981 ppm	0.984 ppm	0.965 ppm	0.961 ppm
Concentration per Run 1	0.987 ppm	0.994 ppm	0.968 ppm	0.961 ppm
Concentration per Run 2	0.979 ppm	0.980 ppm	0.963 ppm	0.961 ppm
Concentration per Run 3	0.979 ppm	0.978 ppm	0.965 ppm	0.962 ppm
Concentration RSD	0.5 %	0.9 %	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	1.003 ppm	0.949 ppm	1.003 ppm	0.966 ppm
Concentration per Run 1	1.005 ppm	0.952 ppm	1.006 ppm	0.969 ppm
Concentration per Run 2	1.001 ppm	0.947 ppm	1.002 ppm	0.964 ppm
Concentration per Run 3	1.003 ppm	0.947 ppm	1.003 ppm	0.964 ppm
Concentration RSD	0.2 %	0.3 %	0.2 %	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	0.999 ppm	0.998 ppm	0.910 ppm	0.979 ppm
Concentration per Run 1	1.001 ppm	1.000 ppm	0.913 ppm	0.976 ppm
Concentration per Run 2	0.997 ppm	0.997 ppm	0.909 ppm	0.982 ppm
Concentration per Run 3	0.999 ppm	0.997 ppm	0.907 ppm	0.980 ppm
Concentration RSD	0.2 %	0.2 %	0.4 %	0.3 %
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	1.002 ppm	1.003 ppm	1.004 ppm	0.992 ppm
Concentration per Run 1	1.003 ppm	1.006 ppm	0.999 ppm	0.988 ppm
Concentration per Run 2	1.000 ppm	1.003 ppm	1.006 ppm	0.995 ppm
Concentration per Run 3	1.004 ppm	0.999 ppm	1.006 ppm	0.994 ppm
Concentration RSD	0.2 %	0.4 %	0.4 %	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	0.987 ppm	101.578 %	101.377 %	98.782 %
Concentration per Run 1	0.987 ppm	101.289 %	101.200 %	98.624 %
Concentration per Run 2	0.988 ppm	101.442 %	101.553 %	98.930 %
Concentration per Run 3	0.987 ppm	102.004 %	101.378 %	98.791 %
Concentration RSD	0.0 %			
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	99.601 %	0.000 ppm	0.996 ppm	1.001 ppm
Concentration per Run 1	99.805 %	0.000 ppm	0.999 ppm	1.004 ppm
Concentration per Run 2	99.362 %	0.000 ppm	0.995 ppm	1.000 ppm
Concentration per Run 3	99.636 %	0.000 ppm	0.995 ppm	1.000 ppm
Concentration RSD			0.2 %	0.2 %
Concentration SD			0.0 ppm	0.0 ppm

	Cu 324.754 {104} (Radial)
Concentration average	0.980 ppm
Concentration per Run 1	0.984 ppm
Concentration per Run 2	0.979 ppm
Concentration per Run 3	0.978 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	33 cps	179 cps	13,455 cps	542 cps

	Ca 373.690 {90} (Radial)	Fe 259.940 {130} (Radial)	Fe 271.441 {124} (Radial)	K 766.490 {44} (Radial)
Intensity average	237 cps	293 cps	20 cps	541 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	10,993 cps	39 cps	1,712 cps	30,548 cps

	Ti 334.941 {101} (Radial)	V 292.402 {115} (Radial)	Co 228.616 {447} (Axial)	Ni 231.604 {446} (Axial)
Intensity average	1,991 cps	423 cps	3,587 cps	2,627 cps

	Pb 220.353 {453} (Axial)	Sn 189.989 {478} (Axial)	Tl 190.856 {477} (Axial)	As 189.042 {478} (Axial)
Intensity average	910 cps	1,085 cps	710 cps	433 cps

	Ba 233.527 {445} (Axial)	Mo 202.030 {467} (Axial)	S 182.034 {485} (Axial)	Si 251.611 {134} (Axial)
Intensity average	8,083 cps	4,272 cps	241 cps	2,589 cps

	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)	Ag 328.068 {103} (Axial)	Cr 267.716 {126} (Axial)
Intensity average	643 cps	375 cps	9,067 cps	7,323 cps

	Mn 257.610 {131} (Axial)	Y 360.073 {94} (Radial)	Y 224.306 {450} (Axial)	In 230.606 {446} (Axial)
Intensity average	56,261 cps	4,679 cps	11,018 cps	3,686 cps

	Y 360.073 {94} (Axial)	Na 818.326 {41} (Radial)	Zn 206.200 {463} (Axial)	Cd 228.802 {447} (Axial)
Intensity average	172,054 cps	-41 cps	4,326 cps	5,617 cps

	Cu 324.754 {104} (Radial)
Intensity average	633 cps

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STD3 14J06521

Sample Type STD Analysis Date 10/29/2014 9:55:54 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	2.013 ppm	2.054 ppm	1.946 ppm
Concentration per Run 1	0.000 ppm	2.025 ppm	2.043 ppm	1.942 ppm
Concentration per Run 2	0.000 ppm	2.002 ppm	2.043 ppm	1.940 ppm
Concentration per Run 3	0.000 ppm	2.011 ppm	2.076 ppm	1.955 ppm
Concentration RSD		0.6 %	0.9 %	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	1.949 ppm	0.000 ppm	0.000 ppm
Concentration per Run 1	0.000 ppm	1.938 ppm	0.000 ppm	0.000 ppm
Concentration per Run 2	0.000 ppm	1.947 ppm	0.000 ppm	0.000 ppm
Concentration per Run 3	0.000 ppm	1.963 ppm	0.000 ppm	0.000 ppm
Concentration RSD		0.7 %		
Concentration SD		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	2.010 ppm	0.000 ppm	1.969 ppm	2.009 ppm
Concentration per Run 1	2.005 ppm	0.000 ppm	1.956 ppm	1.999 ppm
Concentration per Run 2	2.001 ppm	0.000 ppm	1.970 ppm	2.000 ppm
Concentration per Run 3	2.025 ppm	0.000 ppm	1.981 ppm	2.026 ppm
Concentration RSD	0.7 %		0.6 %	0.8 %
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	2.011 ppm	2.010 ppm	2.023 ppm	2.025 ppm
Concentration per Run 1	1.994 ppm	1.998 ppm	2.016 ppm	2.020 ppm
Concentration per Run 2	2.010 ppm	2.012 ppm	2.028 ppm	2.030 ppm
Concentration per Run 3	2.030 ppm	2.018 ppm	2.024 ppm	2.025 ppm
Concentration RSD	0.9 %	0.5 %	0.3 %	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	0.000 ppm	2.033 ppm	0.000 ppm	2.023 ppm
Concentration per Run 1	0.000 ppm	2.026 ppm	0.000 ppm	2.018 ppm
Concentration per Run 2	0.000 ppm	2.042 ppm	0.000 ppm	2.028 ppm
Concentration per Run 3	0.000 ppm	2.032 ppm	0.000 ppm	2.021 ppm
Concentration RSD		0.4 %		0.3 %
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	2.033 ppm	2.001 ppm	1.952 ppm	2.017 ppm
Concentration per Run 1	2.028 ppm	1.995 ppm	1.952 ppm	2.035 ppm
Concentration per Run 2	2.037 ppm	2.007 ppm	1.955 ppm	2.012 ppm
Concentration per Run 3	2.034 ppm	2.000 ppm	1.950 ppm	2.003 ppm
Concentration RSD	0.2 %	0.3 %	0.1 %	0.8 %
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	0.000 ppm	0.000 ppm	0.000 ppm	2.005 ppm
Concentration per Run 1	0.000 ppm	0.000 ppm	0.000 ppm	2.016 ppm
Concentration per Run 2	0.000 ppm	0.000 ppm	0.000 ppm	2.009 ppm
Concentration per Run 3	0.000 ppm	0.000 ppm	0.000 ppm	1.992 ppm
Concentration RSD				0.6 %
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	2.008 ppm	101.384 %	100.785 %	96.057 %
Concentration per Run 1	2.015 ppm	102.308 %	101.050 %	96.450 %
Concentration per Run 2	2.012 ppm	101.544 %	100.684 %	95.852 %
Concentration per Run 3	1.998 ppm	100.300 %	100.620 %	95.870 %
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	98.687 %	0.000 ppm	2.001 ppm	0.000 ppm
Concentration per Run 1	98.427 %	0.000 ppm	1.998 ppm	0.000 ppm
Concentration per Run 2	98.741 %	0.000 ppm	2.007 ppm	0.000 ppm
Concentration per Run 3	98.894 %	0.000 ppm	1.999 ppm	0.000 ppm
Concentration RSD			0.2 %	
Concentration SD			0.0 ppm	

	Cu 324.754 {104} (Radial)
Concentration average	2.013 ppm
Concentration per Run 1	2.012 ppm
Concentration per Run 2	1.992 ppm
Concentration per Run 3	2.034 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	64 cps	364 cps	27,562 cps	969 cps

	Ca 373.690 {90} (Radial)	Fe 259.940 {130} (Radial)	Fe 271.441 {124} (Radial)	K 766.490 {44} (Radial)
Intensity average	424 cps	557 cps	38 cps	1,069 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	22,429 cps	82 cps	3,413 cps	62,102 cps

	Ti 334.941 {101} (Radial)	V 292.402 {115} (Radial)	Co 228.616 {447} (Axial)	Ni 231.604 {446} (Axial)
Intensity average	4,075 cps	860 cps	7,310 cps	5,379 cps

	Pb 220.353 {453} (Axial)	Sn 189.989 {478} (Axial)	Tl 190.856 {477} (Axial)	As 189.042 {478} (Axial)
Intensity average	1,901 cps	2,260 cps	1,496 cps	904 cps

	Ba 233.527 {445} (Axial)	Mo 202.030 {467} (Axial)	S 182.034 {485} (Axial)	Si 251.611 {134} (Axial)
Intensity average	16,349 cps	8,507 cps	506 cps	5,266 cps

	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)	Ag 328.068 {103} (Axial)	Cr 267.716 {126} (Axial)
Intensity average	1,339 cps	782 cps	18,931 cps	14,649 cps

	Mn 257.610 {131} (Axial)	Y 360.073 {94} (Radial)	Y 224.306 {450} (Axial)	In 230.606 {446} (Axial)
Intensity average	113,379 cps	4,670 cps	10,953 cps	3,585 cps

	Y 360.073 {94} (Axial)	Na 818.326 {41} (Radial)	Zn 206.200 {463} (Axial)	Cd 228.802 {447} (Axial)
Intensity average	170,475 cps	64 cps	8,636 cps	11,740 cps

	Cu 324.754 {104} (Radial)
Intensity average	1,288 cps

Comprehensive sample report

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STD4 14J27630

Sample Type STD Analysis Date 10/29/2014 10:00:01 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	10.231 ppm	0.000 ppm	0.000 ppm	10.008 ppm
Concentration per Run 1	10.311 ppm	0.000 ppm	0.000 ppm	10.040 ppm
Concentration per Run 2	10.227 ppm	0.000 ppm	0.000 ppm	10.059 ppm
Concentration per Run 3	10.154 ppm	0.000 ppm	0.000 ppm	9.926 ppm
Concentration RSD	0.8 %			0.7 %
Concentration SD	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	10.448 ppm	10.010 ppm	10.823 ppm	9.722 ppm
Concentration per Run 1	10.468 ppm	9.977 ppm	10.665 ppm	9.716 ppm
Concentration per Run 2	10.518 ppm	10.037 ppm	10.849 ppm	9.768 ppm
Concentration per Run 3	10.359 ppm	10.015 ppm	10.955 ppm	9.682 ppm
Concentration RSD	0.8 %	0.3 %	1.4 %	0.4 %
Concentration SD	0.1 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	9.969 ppm	10.010 ppm	0.000 ppm
Concentration per Run 1	0.000 ppm	9.981 ppm	9.988 ppm	0.000 ppm
Concentration per Run 2	0.000 ppm	10.031 ppm	10.067 ppm	0.000 ppm
Concentration per Run 3	0.000 ppm	9.894 ppm	9.977 ppm	0.000 ppm
Concentration RSD		0.7 %	0.5 %	
Concentration SD		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	0.000 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	9.994 ppm	0.000 ppm	10.198 ppm	0.000 ppm
Concentration per Run 1	10.017 ppm	0.000 ppm	10.222 ppm	0.000 ppm
Concentration per Run 2	9.992 ppm	0.000 ppm	10.191 ppm	0.000 ppm
Concentration per Run 3	9.971 ppm	0.000 ppm	10.180 ppm	0.000 ppm
Concentration RSD	0.2 %		0.2 %	
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	100.889 %	100.333 %	94.481 %
Concentration per Run 1	0.000 ppm	100.567 %	100.527 %	94.503 %
Concentration per Run 2	0.000 ppm	100.385 %	100.301 %	94.420 %
Concentration per Run 3	0.000 ppm	101.715 %	100.169 %	94.522 %
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	97.210 %	10.721 ppm	0.000 ppm	0.000 ppm
Concentration per Run 1	96.991 %	10.586 ppm	0.000 ppm	0.000 ppm
Concentration per Run 2	98.521 %	10.891 ppm	0.000 ppm	0.000 ppm
Concentration per Run 3	96.118 %	10.686 ppm	0.000 ppm	0.000 ppm
Concentration RSD		1.5 %		
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	346 cps	0 cps	0 cps	4,770 cps

	Ca 373.690 {90} (Radial)	Fe 259.940 {130} (Radial)	Fe 271.441 {124} (Radial)	K 766.490 {44} (Radial)
Intensity average	2,078 cps	2,799 cps	184 cps	5,321 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	-1 cps	424 cps	16,967 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	0 cps	-1 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	0 cps	0 cps	-2 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	79,992 cps	2 cps	2,607 cps	26,419 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	1 cps	-3 cps	4 cps

	Mn 257.610 {131} (Axial)	Y 360.073 {94} (Radial)	Y 224.306 {450} (Axial)	In 230.606 {446} (Axial)
Intensity average	33 cps	4,647 cps	10,904 cps	3,526 cps

	Y 360.073 {94} (Axial)	Na 818.326 {41} (Radial)	Zn 206.200 {463} (Axial)	Cd 228.802 {447} (Axial)
Intensity average	167,923 cps	755 cps	6 cps	-8 cps

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

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STD5 14J08650

Sample Type STD Analysis Date 10/29/2014 10:04:25 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	249.991 ppm	0.000 ppm	0.000 ppm	0.000 ppm
Concentration per Run 1	251.685 ppm	0.000 ppm	0.000 ppm	0.000 ppm
Concentration per Run 2	252.384 ppm	0.000 ppm	0.000 ppm	0.000 ppm
Concentration per Run 3	245.903 ppm	0.000 ppm	0.000 ppm	0.000 ppm
Concentration RSD	1.4 %			
Concentration SD	3.6 ppm			

	Ca 373.690 {90} (Radial)	Fe 259.940 {130} (Radial)	Fe 271.441 {124} (Radial)	K 766.490 {44} (Radial)
Concentration average	244.869 ppm	0.000 ppm	98.859 ppm	48.112 ppm
Concentration per Run 1	246.488 ppm	0.000 ppm	99.657 ppm	48.533 ppm
Concentration per Run 2	247.352 ppm	0.000 ppm	99.795 ppm	48.497 ppm
Concentration per Run 3	240.766 ppm	0.000 ppm	97.124 ppm	47.307 ppm
Concentration RSD	1.5 %		1.5 %	1.4 %
Concentration SD	3.6 ppm		1.5 ppm	0.7 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	242.718 ppm	0.000 ppm	0.000 ppm
Concentration per Run 1	0.000 ppm	244.136 ppm	0.000 ppm	0.000 ppm
Concentration per Run 2	0.000 ppm	244.985 ppm	0.000 ppm	0.000 ppm
Concentration per Run 3	0.000 ppm	239.032 ppm	0.000 ppm	0.000 ppm
Concentration RSD		1.3 %		
Concentration SD		3.2 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	48.099 ppm	0.000 ppm
Concentration per Run 1	0.000 ppm	0.000 ppm	48.144 ppm	0.000 ppm
Concentration per Run 2	0.000 ppm	0.000 ppm	48.105 ppm	0.000 ppm
Concentration per Run 3	0.000 ppm	0.000 ppm	48.048 ppm	0.000 ppm
Concentration RSD			0.1 %	
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	0.000 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	95.305 %	90.105 %	75.225 %
Concentration per Run 1	0.000 ppm	94.759 %	90.107 %	75.227 %
Concentration per Run 2	0.000 ppm	94.249 %	89.958 %	75.211 %
Concentration per Run 3	0.000 ppm	96.906 %	90.248 %	75.238 %
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	90.897 %	241.212 ppm	0.000 ppm	0.000 ppm
Concentration per Run 1	96.407 %	243.095 ppm	0.000 ppm	0.000 ppm
Concentration per Run 2	88.691 %	243.326 ppm	0.000 ppm	0.000 ppm
Concentration per Run 3	87.592 %	237.215 ppm	0.000 ppm	0.000 ppm
Concentration RSD		1.4 %		
Concentration SD		3.5 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	7,870 cps	1 cps	-1 cps	102,229 cps

	Ca 373.690 {90} (Radial)	Fe 259.940 {130} (Radial)	Fe 271.441 {124} (Radial)	K 766.490 {44} (Radial)
Intensity average	45,571 cps	23,913 cps	1,581 cps	24,739 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	24 cps	9,732 cps	360,320 cps	107 cps

	Ti 334.941 {101} (Radial)	V 292.402 {115} (Radial)	Co 228.616 {447} (Axial)	Ni 231.604 {446} (Axial)
Intensity average	44 cps	3 cps	4 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	-13 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	11,024 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	-2 cps	6 cps	-8 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	385 cps	4,390 cps	9,793 cps	2,807 cps

	Y 360.073 {94} (Axial)	Na 818.326 {41} (Radial)	Zn 206.200 {463} (Axial)	Cd 228.802 {447} (Axial)
Intensity average	157,017 cps	18,903 cps	11 cps	1 cps

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

Comprehensive sample report

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STD6 14I24985

Sample Type STD Analysis Date 10/29/2014 10:08:59 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	521.566 ppm	0.000 ppm	0.000 ppm	0.000 ppm
Concentration per Run 1	498.668 ppm	0.000 ppm	0.000 ppm	0.000 ppm
Concentration per Run 2	550.410 ppm	0.000 ppm	0.000 ppm	0.000 ppm
Concentration per Run 3	515.619 ppm	0.000 ppm	0.000 ppm	0.000 ppm
Concentration RSD	5.1 %			
Concentration SD	26.4 ppm			

	Ca 373.690 {90} (Radial)	Fe 259.940 {130} (Radial)	Fe 271.441 {124} (Radial)	K 766.490 {44} (Radial)
Concentration average	502.557 ppm	0.000 ppm	200.530 ppm	100.972 ppm
Concentration per Run 1	481.965 ppm	0.000 ppm	192.090 ppm	96.951 ppm
Concentration per Run 2	529.558 ppm	0.000 ppm	210.758 ppm	106.463 ppm
Concentration per Run 3	496.147 ppm	0.000 ppm	198.741 ppm	99.501 ppm
Concentration RSD	4.9 %		4.7 %	4.9 %
Concentration SD	24.4 ppm		9.5 ppm	4.9 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	503.642 ppm	0.000 ppm	0.000 ppm
Concentration per Run 1	0.000 ppm	483.930 ppm	0.000 ppm	0.000 ppm
Concentration per Run 2	0.000 ppm	529.765 ppm	0.000 ppm	0.000 ppm
Concentration per Run 3	0.000 ppm	497.231 ppm	0.000 ppm	0.000 ppm
Concentration RSD		4.7 %		
Concentration SD		23.6 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	100.956 ppm	0.000 ppm
Concentration per Run 1	0.000 ppm	0.000 ppm	101.045 ppm	0.000 ppm
Concentration per Run 2	0.000 ppm	0.000 ppm	100.735 ppm	0.000 ppm
Concentration per Run 3	0.000 ppm	0.000 ppm	101.089 ppm	0.000 ppm
Concentration RSD			0.2 %	
Concentration SD			0.2 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	91.576 %	85.879 %	67.983 %
Concentration per Run 1	0.000 ppm	94.865 %	85.936 %	68.131 %
Concentration per Run 2	0.000 ppm	87.740 %	85.908 %	67.987 %
Concentration per Run 3	0.000 ppm	92.123 %	85.793 %	67.830 %
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	81.864 %	504.379 ppm	0.000 ppm	0.000 ppm
Concentration per Run 1	81.292 %	483.068 ppm	0.000 ppm	0.000 ppm
Concentration per Run 2	81.850 %	531.866 ppm	0.000 ppm	0.000 ppm
Concentration per Run 3	82.452 %	498.205 ppm	0.000 ppm	0.000 ppm
Concentration RSD		5.0 %		
Concentration SD		25.0 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	15,754 cps	0 cps	1 cps	197,857 cps

	Ca 373.690 {90} (Radial)	Fe 259.940 {130} (Radial)	Fe 271.441 {124} (Radial)	K 766.490 {44} (Radial)
Intensity average	89,747 cps	45,627 cps	3,077 cps	49,795 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	67 cps	19,381 cps	652,518 cps	221 cps

	Ti 334.941 {101} (Radial)	V 292.402 {115} (Radial)	Co 228.616 {447} (Axial)	Ni 231.604 {446} (Axial)
Intensity average	47 cps	2 cps	7 cps	-11 cps

	Pb 220.353 {453} (Axial)	Sn 189.989 {478} (Axial)	Tl 190.856 {477} (Axial)	As 189.042 {478} (Axial)
Intensity average	-27 cps	2 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	20 cps	1 cps	22,048 cps	15 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	-8 cps	17 cps

	Mn 257.610 {131} (Axial)	Y 360.073 {94} (Radial)	Y 224.306 {450} (Axial)	In 230.606 {446} (Axial)
Intensity average	717 cps	4,218 cps	9,333 cps	2,537 cps

	Y 360.073 {94} (Axial)	Na 818.326 {41} (Radial)	Zn 206.200 {463} (Axial)	Cd 228.802 {447} (Axial)
Intensity average	141,415 cps	38,076 cps	15 cps	-4 cps

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

Comprehensive sample report

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ICV 14I23903

Sample Type QC Analysis Date 10/29/2014 10:13:32 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	9.590 ppm	0.975 ppm	0.992 ppm	9.600 ppm
Concentration per Run 1	9.540 ppm	0.975 ppm	0.995 ppm	9.639 ppm
Concentration per Run 2	9.543 ppm	0.963 ppm	0.992 ppm	9.632 ppm
Concentration per Run 3	9.687 ppm	0.986 ppm	0.988 ppm	9.529 ppm
Concentration RSD	0.9 %	1.2 %	0.3 %	0.6 %
Concentration SD	0.1 ppm	0.0 ppm	0.0 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	10.078 ppm	9.651 ppm	10.419 ppm	9.250 ppm
Concentration per Run 1	10.102 ppm	9.662 ppm	10.427 ppm	9.298 ppm
Concentration per Run 2	10.099 ppm	9.652 ppm	10.407 ppm	9.265 ppm
Concentration per Run 3	10.033 ppm	9.640 ppm	10.423 ppm	9.188 ppm
Concentration RSD	0.4 %	0.1 %	0.1 %	0.6 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	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	0.987 ppm	9.435 ppm	9.630 ppm	0.398 ppm
Concentration per Run 1	0.991 ppm	9.415 ppm	9.673 ppm	0.400 ppm
Concentration per Run 2	0.986 ppm	9.504 ppm	9.629 ppm	0.398 ppm
Concentration per Run 3	0.984 ppm	9.385 ppm	9.588 ppm	0.396 ppm
Concentration RSD	0.3 %	0.7 %	0.4 %	0.5 %
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	0.987 ppm	0.985 ppm	0.983 ppm	0.979 ppm
Concentration per Run 1	0.992 ppm	0.993 ppm	0.987 ppm	0.980 ppm
Concentration per Run 2	0.983 ppm	0.980 ppm	0.979 ppm	0.980 ppm
Concentration per Run 3	0.987 ppm	0.982 ppm	0.982 ppm	0.978 ppm
Concentration RSD	0.5 %	0.7 %	0.4 %	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	1.012 ppm	0.966 ppm	0.998 ppm	0.977 ppm
Concentration per Run 1	1.015 ppm	0.969 ppm	1.001 ppm	0.976 ppm
Concentration per Run 2	1.011 ppm	0.965 ppm	0.996 ppm	0.981 ppm
Concentration per Run 3	1.012 ppm	0.966 ppm	0.997 ppm	0.975 ppm
Concentration RSD	0.2 %	0.2 %	0.3 %	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	0.989 ppm	1.015 ppm	0.007 ppm	0.963 ppm
Concentration per Run 1	0.988 ppm	1.012 ppm	0.009 ppm	0.964 ppm
Concentration per Run 2	0.989 ppm	1.015 ppm	0.007 ppm	0.962 ppm
Concentration per Run 3	0.989 ppm	1.016 ppm	0.005 ppm	0.962 ppm
Concentration RSD	0.1 %	0.2 %	33.1 %	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	1.007 ppm	1.021 ppm	0.100 ppm	1.003 ppm
Concentration per Run 1	1.010 ppm	1.018 ppm	0.100 ppm	1.001 ppm
Concentration per Run 2	1.002 ppm	1.025 ppm	0.100 ppm	1.002 ppm
Concentration per Run 3	1.008 ppm	1.021 ppm	0.100 ppm	1.005 ppm
Concentration RSD	0.4 %	0.3 %	0.3 %	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	0.998 ppm	99.095 %	97.464 %	92.885 %
Concentration per Run 1	0.997 ppm	98.782 %	97.559 %	92.671 %
Concentration per Run 2	0.998 ppm	98.925 %	97.311 %	92.878 %
Concentration per Run 3	0.998 ppm	99.578 %	97.522 %	93.107 %
Concentration RSD	0.1 %	0.4 %	0.1 %	0.2 %
Concentration SD	0.0 ppm	0.4 %	0.1 %	0.2 %

	Y 360.073 {94} (Axial)	Na 818.326 {41} (Radial)	Zn 206.200 {463} (Axial)	Cd 228.802 {447} (Axial)
Concentration average	95.233 %	9.681 ppm	0.981 ppm	1.009 ppm
Concentration per Run 1	95.191 %	9.786 ppm	0.982 ppm	1.008 ppm
Concentration per Run 2	95.445 %	9.877 ppm	0.981 ppm	1.011 ppm
Concentration per Run 3	95.062 %	9.381 ppm	0.981 ppm	1.009 ppm
Concentration RSD	0.2 %	2.7 %	0.1 %	0.2 %
Concentration SD	0.2 %	0.3 ppm	0.0 ppm	0.0 ppm

	Cu 324.754 {104} (Radial)
Concentration average	0.980 ppm
Concentration per Run 1	0.979 ppm
Concentration per Run 2	0.977 ppm
Concentration per Run 3	0.984 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	319 cps	173 cps	13,010 cps	4,496 cps

	Ca 373.690 {90} (Radial)	Fe 259.940 {130} (Radial)	Fe 271.441 {124} (Radial)	K 766.490 {44} (Radial)
Intensity average	1,970 cps	2,651 cps	174 cps	4,974 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	10,757 cps	395 cps	16,035 cps	12,022 cps

	Ti 334.941 {101} (Radial)	V 292.402 {115} (Radial)	Co 228.616 {447} (Axial)	Ni 231.604 {446} (Axial)
Intensity average	1,954 cps	413 cps	3,435 cps	2,516 cps

	Pb 220.353 {453} (Axial)	Sn 189.989 {478} (Axial)	Tl 190.856 {477} (Axial)	As 189.042 {478} (Axial)
Intensity average	863 cps	1,039 cps	664 cps	421 cps

	Ba 233.527 {445} (Axial)	Mo 202.030 {467} (Axial)	S 182.034 {485} (Axial)	Si 251.611 {134} (Axial)
Intensity average	7,691 cps	4,174 cps	8 cps	2,434 cps

	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)	Ag 328.068 {103} (Axial)	Cr 267.716 {126} (Axial)
Intensity average	621 cps	367 cps	862 cps	7,075 cps

	Mn 257.610 {131} (Axial)	Y 360.073 {94} (Radial)	Y 224.306 {450} (Axial)	In 230.606 {446} (Axial)
Intensity average	54,353 cps	4,565 cps	10,593 cps	3,466 cps

	Y 360.073 {94} (Axial)	Na 818.326 {41} (Radial)	Zn 206.200 {463} (Axial)	Cd 228.802 {447} (Axial)
Intensity average	164,508 cps	656 cps	4,096 cps	5,443 cps

	Cu 324.754 {104} (Radial)
Intensity average	617 cps

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ICB

Sample Type QC Analysis Date 10/29/2014 10:17:43 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	-0.004 ppm	0.000 ppm	0.000 ppm	-0.030 ppm
Concentration per Run 1	-0.021 ppm	0.002 ppm	0.000 ppm	-0.030 ppm
Concentration per Run 2	0.025 ppm	-0.009 ppm	0.000 ppm	-0.030 ppm
Concentration per Run 3	-0.017 ppm	0.006 ppm	0.000 ppm	-0.031 ppm
Concentration RSD	629.8 %	6,319.0 %	134.3 %	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	-0.031 ppm	-0.008 ppm	-0.013 ppm	0.000 ppm
Concentration per Run 1	-0.044 ppm	-0.010 ppm	0.046 ppm	0.027 ppm
Concentration per Run 2	-0.028 ppm	-0.011 ppm	-0.081 ppm	-0.019 ppm
Concentration per Run 3	-0.021 ppm	-0.004 ppm	-0.004 ppm	-0.008 ppm
Concentration RSD	38.2 %	43.8 %	498.2 %	22,473.3 %
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	0.001 ppm	-0.039 ppm	0.027 ppm	0.000 ppm
Concentration per Run 1	0.001 ppm	-0.091 ppm	0.027 ppm	0.000 ppm
Concentration per Run 2	0.001 ppm	-0.040 ppm	0.028 ppm	0.000 ppm
Concentration per Run 3	0.001 ppm	0.016 ppm	0.025 ppm	0.000 ppm
Concentration RSD	50.8 %	139.4 %	4.7 %	133.4 %
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	0.001 ppm	-0.002 ppm	0.000 ppm	0.000 ppm
Concentration per Run 1	0.000 ppm	-0.002 ppm	0.000 ppm	0.000 ppm
Concentration per Run 2	0.001 ppm	0.000 ppm	0.000 ppm	0.000 ppm
Concentration per Run 3	0.001 ppm	-0.005 ppm	0.000 ppm	0.000 ppm
Concentration RSD	55.0 %	123.0 %	237.6 %	18.2 %
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	0.000 ppm	0.000 ppm	0.000 ppm	0.000 ppm
Concentration per Run 1	0.001 ppm	0.000 ppm	0.001 ppm	0.000 ppm
Concentration per Run 2	0.001 ppm	0.001 ppm	-0.001 ppm	-0.001 ppm
Concentration per Run 3	-0.001 ppm	0.000 ppm	0.001 ppm	0.002 ppm
Concentration RSD	294.6 %	62.9 %	329.1 %	537.5 %
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	-0.001 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	-0.001 ppm	0.001 ppm
Concentration per Run 3	0.000 ppm	0.000 ppm	-0.002 ppm	0.000 ppm
Concentration RSD	292.1 %	328.9 %	84.1 %	506.1 %
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	0.001 ppm	0.000 ppm	0.001 ppm
Concentration per Run 1	0.001 ppm	0.000 ppm	0.000 ppm	0.001 ppm
Concentration per Run 2	0.002 ppm	0.000 ppm	0.000 ppm	0.000 ppm
Concentration per Run 3	-0.002 ppm	0.001 ppm	-0.001 ppm	0.000 ppm
Concentration RSD	403.5 %	44.2 %	11,095.1 %	50.0 %
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	0.000 ppm	99.639 %	100.719 %	100.421 %
Concentration per Run 1	0.000 ppm	99.666 %	100.581 %	100.413 %
Concentration per Run 2	0.000 ppm	99.379 %	100.746 %	100.365 %
Concentration per Run 3	0.000 ppm	99.871 %	100.831 %	100.486 %
Concentration RSD	25.6 %	0.2 %	0.1 %	0.1 %
Concentration SD	0.0 ppm	0.2 %	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	99.321 %	0.066 ppm	-0.001 ppm	0.000 ppm
Concentration per Run 1	99.027 %	0.073 ppm	0.000 ppm	0.000 ppm
Concentration per Run 2	99.641 %	0.068 ppm	-0.001 ppm	0.000 ppm
Concentration per Run 3	99.296 %	0.057 ppm	-0.001 ppm	0.000 ppm
Concentration RSD	0.3 %	12.7 %	25.4 %	152.6 %
Concentration SD	0.3 %	0.0 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	-0.002 ppm
Concentration per Run 3	0.001 ppm
Concentration RSD	169.3 %
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	5 cps	1 cps	1 cps	31 cps

	Ca 373.690 {90} (Radial)	Fe 259.940 {130} (Radial)	Fe 271.441 {124} (Radial)	K 766.490 {44} (Radial)
Intensity average	14 cps	9 cps	1 cps	35 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	-1 cps	0 cps	117 cps	-10 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	0 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	2 cps	-4 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	4 cps	6 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	2 cps	-4 cps	20 cps

	Mn 257.610 {131} (Axial)	Y 360.073 {94} (Radial)	Y 224.306 {450} (Axial)	In 230.606 {446} (Axial)
Intensity average	15 cps	4,590 cps	10,946 cps	3,747 cps

	Y 360.073 {94} (Axial)	Na 818.326 {41} (Radial)	Zn 206.200 {463} (Axial)	Cd 228.802 {447} (Axial)
Intensity average	171,570 cps	-133 cps	1 cps	4 cps

	Cu 324.754 {104} (Radial)
Intensity average	7 cps

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ICVLL 14G16199

Sample Type QC Analysis Date 10/29/2014 10:22:14 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	0.085 ppm	0.199 ppm	0.002 ppm	0.458 ppm
Concentration per Run 1	0.066 ppm	0.199 ppm	0.002 ppm	0.460 ppm
Concentration per Run 2	0.123 ppm	0.191 ppm	0.002 ppm	0.459 ppm
Concentration per Run 3	0.067 ppm	0.205 ppm	0.002 ppm	0.454 ppm
Concentration RSD	38.2 %	3.6 %	2.2 %	0.6 %
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	0.465 ppm	0.090 ppm	0.055 ppm	0.467 ppm
Concentration per Run 1	0.467 ppm	0.084 ppm	0.082 ppm	0.470 ppm
Concentration per Run 2	0.465 ppm	0.092 ppm	0.010 ppm	0.463 ppm
Concentration per Run 3	0.462 ppm	0.094 ppm	0.073 ppm	0.467 ppm
Concentration RSD	0.5 %	5.9 %	70.9 %	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	0.015 ppm	0.088 ppm	0.509 ppm	0.010 ppm
Concentration per Run 1	0.015 ppm	0.108 ppm	0.508 ppm	0.010 ppm
Concentration per Run 2	0.015 ppm	0.060 ppm	0.514 ppm	0.010 ppm
Concentration per Run 3	0.015 ppm	0.095 ppm	0.505 ppm	0.010 ppm
Concentration RSD	1.8 %	28.1 %	0.9 %	0.9 %
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	0.011 ppm	0.002 ppm	0.010 ppm	0.019 ppm
Concentration per Run 1	0.012 ppm	0.001 ppm	0.010 ppm	0.019 ppm
Concentration per Run 2	0.010 ppm	0.006 ppm	0.010 ppm	0.019 ppm
Concentration per Run 3	0.011 ppm	-0.001 ppm	0.010 ppm	0.019 ppm
Concentration RSD	9.3 %	147.5 %	1.9 %	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	0.005 ppm	0.019 ppm	0.020 ppm	0.019 ppm
Concentration per Run 1	0.006 ppm	0.019 ppm	0.019 ppm	0.021 ppm
Concentration per Run 2	0.004 ppm	0.019 ppm	0.020 ppm	0.019 ppm
Concentration per Run 3	0.006 ppm	0.019 ppm	0.021 ppm	0.018 ppm
Concentration RSD	18.1 %	1.6 %	5.4 %	7.4 %
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	0.005 ppm	0.005 ppm	4.458 ppm	0.185 ppm
Concentration per Run 1	0.005 ppm	0.005 ppm	4.471 ppm	0.183 ppm
Concentration per Run 2	0.005 ppm	0.005 ppm	4.444 ppm	0.187 ppm
Concentration per Run 3	0.005 ppm	0.005 ppm	4.459 ppm	0.184 ppm
Concentration RSD	1.9 %	0.3 %	0.3 %	1.0 %
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	0.021 ppm	0.010 ppm	0.011 ppm
Concentration per Run 1	0.018 ppm	0.022 ppm	0.009 ppm	0.011 ppm
Concentration per Run 2	0.020 ppm	0.020 ppm	0.009 ppm	0.011 ppm
Concentration per Run 3	0.019 ppm	0.020 ppm	0.010 ppm	0.011 ppm
Concentration RSD	4.0 %	6.3 %	5.3 %	1.6 %
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	0.010 ppm	100.398 %	100.923 %	100.438 %
Concentration per Run 1	0.010 ppm	100.654 %	100.956 %	100.539 %
Concentration per Run 2	0.010 ppm	100.648 %	100.985 %	100.466 %
Concentration per Run 3	0.010 ppm	99.892 %	100.827 %	100.308 %
Concentration RSD	0.1 %	0.4 %	0.1 %	0.1 %
Concentration SD	0.0 ppm	0.4 %	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	99.758 %	0.535 ppm	0.029 ppm	0.005 ppm
Concentration per Run 1	99.404 %	0.582 ppm	0.029 ppm	0.005 ppm
Concentration per Run 2	99.961 %	0.501 ppm	0.029 ppm	0.005 ppm
Concentration per Run 3	99.909 %	0.522 ppm	0.029 ppm	0.005 ppm
Concentration RSD	0.3 %	7.9 %	0.1 %	2.1 %
Concentration SD	0.3 %	0.0 ppm	0.0 ppm	0.0 ppm

	Cu 324.754 {104} (Radial)
Concentration average	0.017 ppm
Concentration per Run 1	0.020 ppm
Concentration per Run 2	0.016 ppm
Concentration per Run 3	0.016 ppm
Concentration RSD	12.3 %
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	8 cps	36 cps	25 cps	261 cps

	Ca 373.690 {90} (Radial)	Fe 259.940 {130} (Radial)	Fe 271.441 {124} (Radial)	K 766.490 {44} (Radial)
Intensity average	112 cps	37 cps	2 cps	288 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	155 cps	5 cps	927 cps	299 cps

	Ti 334.941 {101} (Radial)	V 292.402 {115} (Radial)	Co 228.616 {447} (Axial)	Ni 231.604 {446} (Axial)
Intensity average	20 cps	2 cps	38 cps	55 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	23 cps	10 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	45 cps	25 cps	1,150 cps	502 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	10 cps	83 cps	94 cps

	Mn 257.610 {131} (Axial)	Y 360.073 {94} (Radial)	Y 224.306 {450} (Axial)	In 230.606 {446} (Axial)
Intensity average	598 cps	4,625 cps	10,968 cps	3,748 cps

	Y 360.073 {94} (Axial)	Na 818.326 {41} (Radial)	Zn 206.200 {463} (Axial)	Cd 228.802 {447} (Axial)
Intensity average	172,325 cps	-95 cps	130 cps	34 cps

	Cu 324.754 {104} (Radial)
Intensity average	18 cps

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ICSA 14J10823

Sample Type QC Analysis Date 10/29/2014 10:26:44 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	471.442 ppm	-0.003 ppm	0.000 ppm	428.932 ppm
Concentration per Run 1	471.267 ppm	0.003 ppm	0.000 ppm	428.689 ppm
Concentration per Run 2	472.200 ppm	-0.001 ppm	0.000 ppm	428.590 ppm
Concentration per Run 3	470.860 ppm	-0.010 ppm	0.000 ppm	429.516 ppm
Concentration RSD	0.1 %	223.2 %	135.7 %	0.1 %
Concentration SD	0.7 ppm	0.0 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	462.380 ppm	167.434 ppm	186.611 ppm	0.041 ppm
Concentration per Run 1	461.917 ppm	167.409 ppm	186.655 ppm	0.030 ppm
Concentration per Run 2	462.824 ppm	167.361 ppm	185.750 ppm	0.047 ppm
Concentration per Run 3	462.400 ppm	167.531 ppm	187.429 ppm	0.047 ppm
Concentration RSD	0.1 %	0.1 %	0.5 %	23.8 %
Concentration SD	0.5 ppm	0.1 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	0.005 ppm	479.616 ppm	0.073 ppm	0.007 ppm
Concentration per Run 1	0.005 ppm	479.377 ppm	0.073 ppm	0.007 ppm
Concentration per Run 2	0.005 ppm	478.413 ppm	0.070 ppm	0.007 ppm
Concentration per Run 3	0.005 ppm	481.058 ppm	0.075 ppm	0.007 ppm
Concentration RSD	3.1 %	0.3 %	3.5 %	2.6 %
Concentration SD	0.0 ppm	1.3 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	0.002 ppm	0.001 ppm	-0.008 ppm
Concentration per Run 1	0.006 ppm	0.004 ppm	0.001 ppm	-0.008 ppm
Concentration per Run 2	0.004 ppm	0.002 ppm	0.000 ppm	-0.008 ppm
Concentration per Run 3	0.004 ppm	0.001 ppm	0.002 ppm	-0.009 ppm
Concentration RSD	15.1 %	79.7 %	54.6 %	5.1 %
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	-0.035 ppm	0.001 ppm	-0.005 ppm	0.000 ppm
Concentration per Run 1	-0.033 ppm	0.001 ppm	-0.006 ppm	-0.002 ppm
Concentration per Run 2	-0.036 ppm	0.000 ppm	-0.003 ppm	-0.001 ppm
Concentration per Run 3	-0.035 ppm	0.001 ppm	-0.008 ppm	0.002 ppm
Concentration RSD	4.7 %	53.8 %	44.6 %	906.6 %
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	0.002 ppm	0.000 ppm	0.001 ppm	-0.002 ppm
Concentration per Run 1	0.002 ppm	0.000 ppm	0.002 ppm	-0.003 ppm
Concentration per Run 2	0.002 ppm	0.000 ppm	0.004 ppm	-0.001 ppm
Concentration per Run 3	0.002 ppm	0.000 ppm	-0.003 ppm	-0.001 ppm
Concentration RSD	3.3 %	257.1 %	298.5 %	61.9 %
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	-0.002 ppm	0.024 ppm	-0.001 ppm	0.001 ppm
Concentration per Run 1	0.000 ppm	0.023 ppm	-0.001 ppm	0.000 ppm
Concentration per Run 2	-0.005 ppm	0.029 ppm	0.000 ppm	0.001 ppm
Concentration per Run 3	-0.002 ppm	0.019 ppm	-0.001 ppm	0.002 ppm
Concentration RSD	130.1 %	21.9 %	92.1 %	57.7 %
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	-0.002 ppm	95.541 %	87.142 %	72.734 %
Concentration per Run 1	-0.002 ppm	95.343 %	87.185 %	72.744 %
Concentration per Run 2	-0.002 ppm	95.866 %	87.149 %	72.721 %
Concentration per Run 3	-0.002 ppm	95.415 %	87.093 %	72.737 %
Concentration RSD	2.9 %	0.3 %	0.1 %	0.0 %
Concentration SD	0.0 ppm	0.3 %	0.0 %	0.0 %

	Y 360.073 {94} (Axial)	Na 818.326 {41} (Radial)	Zn 206.200 {463} (Axial)	Cd 228.802 {447} (Axial)
Concentration average	83.217 %	0.226 ppm	0.005 ppm	-0.001 ppm
Concentration per Run 1	83.420 %	0.272 ppm	0.005 ppm	-0.001 ppm
Concentration per Run 2	83.010 %	0.271 ppm	0.004 ppm	-0.001 ppm
Concentration per Run 3	83.222 %	0.134 ppm	0.005 ppm	-0.001 ppm
Concentration RSD	0.2 %	35.1 %	4.7 %	1.4 %
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	-0.004 ppm
Concentration per Run 2	0.002 ppm
Concentration per Run 3	0.000 ppm
Concentration RSD	436.7 %
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	14,876 cps	0 cps	-1 cps	191,768 cps

	Ca 373.690 {90} (Radial)	Fe 259.940 {130} (Radial)	Fe 271.441 {124} (Radial)	K 766.490 {44} (Radial)
Intensity average	86,259 cps	44,156 cps	2,991 cps	55 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	40 cps	19,279 cps	186 cps	204 cps

	Ti 334.941 {101} (Radial)	V 292.402 {115} (Radial)	Co 228.616 {447} (Axial)	Ni 231.604 {446} (Axial)
Intensity average	8 cps	2 cps	3 cps	-15 cps

	Pb 220.353 {453} (Axial)	Sn 189.989 {478} (Axial)	Tl 190.856 {477} (Axial)	As 189.042 {478} (Axial)
Intensity average	-24 cps	2 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	18 cps	3 cps	6 cps	10 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	10 cps	-9 cps	21 cps

	Mn 257.610 {131} (Axial)	Y 360.073 {94} (Radial)	Y 224.306 {450} (Axial)	In 230.606 {446} (Axial)
Intensity average	-100 cps	4,401 cps	9,471 cps	2,714 cps

	Y 360.073 {94} (Axial)	Na 818.326 {41} (Radial)	Zn 206.200 {463} (Axial)	Cd 228.802 {447} (Axial)
Intensity average	143,752 cps	-115 cps	21 cps	0 cps

	Cu 324.754 {104} (Radial)
Intensity average	7 cps

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ICSAB 14J10824

Sample Type QC Analysis Date 10/29/2014 10:31:12 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	469.220 ppm	0.928 ppm	0.464 ppm	426.869 ppm
Concentration per Run 1	474.024 ppm	0.942 ppm	0.469 ppm	431.721 ppm
Concentration per Run 2	472.330 ppm	0.938 ppm	0.467 ppm	428.677 ppm
Concentration per Run 3	461.307 ppm	0.904 ppm	0.457 ppm	420.207 ppm
Concentration RSD	1.5 %	2.2 %	1.5 %	1.4 %
Concentration SD	6.9 ppm	0.0 ppm	0.0 ppm	6.0 ppm

	Ca 373.690 {90} (Radial)	Fe 259.940 {130} (Radial)	Fe 271.441 {124} (Radial)	K 766.490 {44} (Radial)
Concentration average	461.127 ppm	166.805 ppm	185.704 ppm	0.017 ppm
Concentration per Run 1	466.615 ppm	168.594 ppm	187.029 ppm	0.005 ppm
Concentration per Run 2	463.626 ppm	167.647 ppm	186.395 ppm	0.043 ppm
Concentration per Run 3	453.140 ppm	164.174 ppm	183.689 ppm	0.004 ppm
Concentration RSD	1.5 %	1.4 %	1.0 %	128.7 %
Concentration SD	7.1 ppm	2.3 ppm	1.8 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	0.005 ppm	476.930 ppm	0.068 ppm	0.007 ppm
Concentration per Run 1	0.005 ppm	481.799 ppm	0.067 ppm	0.008 ppm
Concentration per Run 2	0.005 ppm	478.523 ppm	0.071 ppm	0.007 ppm
Concentration per Run 3	0.005 ppm	470.469 ppm	0.066 ppm	0.007 ppm
Concentration RSD	3.4 %	1.2 %	3.9 %	2.3 %
Concentration SD	0.0 ppm	5.8 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	0.465 ppm	0.455 ppm	0.484 ppm	0.956 ppm
Concentration per Run 1	0.470 ppm	0.456 ppm	0.485 ppm	0.956 ppm
Concentration per Run 2	0.465 ppm	0.453 ppm	0.484 ppm	0.957 ppm
Concentration per Run 3	0.462 ppm	0.456 ppm	0.483 ppm	0.955 ppm
Concentration RSD	0.9 %	0.4 %	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	0.957 ppm	0.482 ppm	0.471 ppm	0.485 ppm
Concentration per Run 1	0.956 ppm	0.482 ppm	0.468 ppm	0.482 ppm
Concentration per Run 2	0.955 ppm	0.483 ppm	0.470 ppm	0.484 ppm
Concentration per Run 3	0.960 ppm	0.480 ppm	0.475 ppm	0.489 ppm
Concentration RSD	0.3 %	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	0.449 ppm	0.451 ppm	0.000 ppm	0.971 ppm
Concentration per Run 1	0.449 ppm	0.452 ppm	0.001 ppm	0.952 ppm
Concentration per Run 2	0.449 ppm	0.450 ppm	0.001 ppm	0.979 ppm
Concentration per Run 3	0.450 ppm	0.450 ppm	-0.001 ppm	0.983 ppm
Concentration RSD	0.1 %	0.2 %	375.9 %	1.7 %
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	0.529 ppm	1.106 ppm	0.450 ppm
Concentration per Run 1	0.505 ppm	0.535 ppm	1.079 ppm	0.438 ppm
Concentration per Run 2	0.498 ppm	0.519 ppm	1.115 ppm	0.454 ppm
Concentration per Run 3	0.500 ppm	0.533 ppm	1.122 ppm	0.458 ppm
Concentration RSD	0.7 %	1.7 %	2.1 %	2.3 %
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	0.450 ppm	96.100 %	87.444 %	72.909 %
Concentration per Run 1	0.438 ppm	95.206 %	87.462 %	72.895 %
Concentration per Run 2	0.453 ppm	96.038 %	87.305 %	72.817 %
Concentration per Run 3	0.458 ppm	97.055 %	87.564 %	73.014 %
Concentration RSD	2.3 %	1.0 %	0.1 %	0.1 %
Concentration SD	0.0 ppm	0.9 %	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	84.606 %	0.062 ppm	0.868 ppm	1.032 ppm
Concentration per Run 1	86.160 %	-0.041 ppm	0.867 ppm	1.031 ppm
Concentration per Run 2	83.925 %	0.005 ppm	0.868 ppm	1.033 ppm
Concentration per Run 3	83.732 %	0.223 ppm	0.869 ppm	1.031 ppm
Concentration RSD	1.6 %	226.9 %	0.1 %	0.1 %
Concentration SD	1.3 %	0.1 ppm	0.0 ppm	0.0 ppm

	Cu 324.754 {104} (Radial)
Concentration average	0.468 ppm
Concentration per Run 1	0.465 ppm
Concentration per Run 2	0.473 ppm
Concentration per Run 3	0.466 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	14,891 cps	159 cps	5,906 cps	191,945 cps

	Ca 373.690 {90} (Radial)	Fe 259.940 {130} (Radial)	Fe 271.441 {124} (Radial)	K 766.490 {44} (Radial)
Intensity average	86,519 cps	44,244 cps	2,994 cps	43 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	40 cps	19,282 cps	178 cps	210 cps

	Ti 334.941 {101} (Radial)	V 292.402 {115} (Radial)	Co 228.616 {447} (Axial)	Ni 231.604 {446} (Axial)
Intensity average	893 cps	186 cps	1,328 cps	1,928 cps

	Pb 220.353 {453} (Axial)	Sn 189.989 {478} (Axial)	Tl 190.856 {477} (Axial)	As 189.042 {478} (Axial)
Intensity average	640 cps	407 cps	244 cps	187 cps

	Ba 233.527 {445} (Axial)	Mo 202.030 {467} (Axial)	S 182.034 {485} (Axial)	Si 251.611 {134} (Axial)
Intensity average	3,138 cps	1,666 cps	5 cps	2,181 cps

	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)	Ag 328.068 {103} (Axial)	Cr 267.716 {126} (Axial)
Intensity average	278 cps	172 cps	8,481 cps	2,826 cps

	Mn 257.610 {131} (Axial)	Y 360.073 {94} (Radial)	Y 224.306 {450} (Axial)	In 230.606 {446} (Axial)
Intensity average	21,779 cps	4,427 cps	9,503 cps	2,721 cps

	Y 360.073 {94} (Axial)	Na 818.326 {41} (Radial)	Zn 206.200 {463} (Axial)	Cd 228.802 {447} (Axial)
Intensity average	146,150 cps	-129 cps	3,251 cps	4,993 cps

	Cu 324.754 {104} (Radial)
Intensity average	290 cps

Comprehensive sample report

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Sample Type UNKNOWN Analysis Date 10/29/2014 10:39:50 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	0.001 ppm	0.000 ppm	-0.024 ppm
Concentration per Run 1	-0.055 ppm	0.007 ppm	0.000 ppm	-0.028 ppm
Concentration per Run 2	0.033 ppm	0.011 ppm	0.000 ppm	-0.023 ppm
Concentration per Run 3	0.023 ppm	-0.016 ppm	0.000 ppm	-0.021 ppm
Concentration RSD	32,803.7 %	2,514.4 %	140.5 %	14.3 %
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	-0.037 ppm	-0.008 ppm	0.034 ppm	0.018 ppm
Concentration per Run 1	-0.054 ppm	-0.009 ppm	-0.058 ppm	0.010 ppm
Concentration per Run 2	-0.031 ppm	-0.010 ppm	0.156 ppm	0.032 ppm
Concentration per Run 3	-0.026 ppm	-0.004 ppm	0.005 ppm	0.010 ppm
Concentration RSD	39.3 %	41.6 %	320.4 %	74.0 %
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	0.001 ppm	-0.003 ppm	0.027 ppm	0.000 ppm
Concentration per Run 1	0.000 ppm	-0.005 ppm	0.026 ppm	0.000 ppm
Concentration per Run 2	0.001 ppm	-0.016 ppm	0.022 ppm	0.000 ppm
Concentration per Run 3	0.001 ppm	0.012 ppm	0.034 ppm	0.000 ppm
Concentration RSD	60.5 %	469.9 %	22.4 %	794.1 %
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	0.001 ppm	-0.005 ppm	0.000 ppm	0.000 ppm
Concentration per Run 1	0.001 ppm	-0.007 ppm	0.000 ppm	0.000 ppm
Concentration per Run 2	-0.001 ppm	-0.006 ppm	0.000 ppm	0.000 ppm
Concentration per Run 3	0.003 ppm	-0.002 ppm	0.000 ppm	0.000 ppm
Concentration RSD	165.7 %	46.3 %	126.7 %	148.0 %
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	0.000 ppm	0.000 ppm	0.000 ppm
Concentration per Run 1	0.000 ppm	0.001 ppm	0.000 ppm	0.000 ppm
Concentration per Run 2	0.002 ppm	0.000 ppm	0.000 ppm	0.001 ppm
Concentration per Run 3	0.000 ppm	0.000 ppm	0.000 ppm	-0.001 ppm
Concentration RSD	219.3 %	746.0 %	203.3 %	2,287.0 %
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	-0.006 ppm	0.000 ppm
Concentration per Run 1	0.000 ppm	0.000 ppm	-0.005 ppm	0.001 ppm
Concentration per Run 2	0.000 ppm	0.000 ppm	-0.007 ppm	0.000 ppm
Concentration per Run 3	0.000 ppm	0.000 ppm	-0.007 ppm	-0.001 ppm
Concentration RSD	86.5 %	39.4 %	18.9 %	1,101.2 %
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	0.000 ppm	0.000 ppm	0.000 ppm	0.000 ppm
Concentration per Run 1	-0.001 ppm	0.000 ppm	0.000 ppm	0.000 ppm
Concentration per Run 2	0.002 ppm	0.000 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	963.5 %	406.9 %	274.0 %	594.9 %
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	102.425 %	100.889 %	100.597 %
Concentration per Run 1	0.000 ppm	106.642 %	100.620 %	100.304 %
Concentration per Run 2	0.000 ppm	100.271 %	101.056 %	100.524 %
Concentration per Run 3	0.000 ppm	100.363 %	100.990 %	100.963 %
Concentration RSD	94.3 %	3.6 %	0.2 %	0.3 %
Concentration SD	0.0 ppm	3.7 %	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	99.499 %	0.196 ppm	0.000 ppm	0.000 ppm
Concentration per Run 1	99.540 %	0.284 ppm	0.000 ppm	0.000 ppm
Concentration per Run 2	99.235 %	0.119 ppm	0.000 ppm	0.000 ppm
Concentration per Run 3	99.722 %	0.185 ppm	0.000 ppm	0.000 ppm
Concentration RSD	0.2 %	42.3 %	39.3 %	246.6 %
Concentration SD	0.2 %	0.1 ppm	0.0 ppm	0.0 ppm

	Cu 324.754 {104} (Radial)
Concentration average	-0.003 ppm
Concentration per Run 1	0.000 ppm
Concentration per Run 2	-0.004 ppm
Concentration per Run 3	-0.005 ppm
Concentration RSD	95.0 %
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	5 cps	1 cps	-1 cps	36 cps

	Ca 373.690 {90} (Radial)	Fe 259.940 {130} (Radial)	Fe 271.441 {124} (Radial)	K 766.490 {44} (Radial)
Intensity average	14 cps	10 cps	2 cps	45 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	-3 cps	1 cps	116 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	0 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	0 cps	1 cps	-4 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	3 cps	2 cps	5 cps	16 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	2 cps	-5 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	14 cps	4,718 cps	10,965 cps	3,754 cps

	Y 360.073 {94} (Axial)	Na 818.326 {41} (Radial)	Zn 206.200 {463} (Axial)	Cd 228.802 {447} (Axial)
Intensity average	171,877 cps	-128 cps	3 cps	4 cps

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

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Sample Type UNKNOWN Analysis Date 10/29/2014 10:44:20 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	0.831 ppm	1.005 ppm	1.006 ppm	9.538 ppm
Concentration per Run 1	0.827 ppm	1.024 ppm	1.019 ppm	9.658 ppm
Concentration per Run 2	0.847 ppm	0.997 ppm	1.003 ppm	9.495 ppm
Concentration per Run 3	0.821 ppm	0.994 ppm	0.996 ppm	9.460 ppm
Concentration RSD	1.7 %	1.7 %	1.2 %	1.1 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 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	9.954 ppm	0.939 ppm	0.986 ppm	9.346 ppm
Concentration per Run 1	10.038 ppm	0.948 ppm	0.985 ppm	9.411 ppm
Concentration per Run 2	9.940 ppm	0.944 ppm	1.162 ppm	9.351 ppm
Concentration per Run 3	9.882 ppm	0.924 ppm	0.811 ppm	9.275 ppm
Concentration RSD	0.8 %	1.4 %	17.8 %	0.7 %
Concentration SD	0.1 ppm	0.0 ppm	0.2 ppm	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	1.016 ppm	9.455 ppm	9.958 ppm	0.992 ppm
Concentration per Run 1	1.026 ppm	9.530 ppm	10.034 ppm	1.002 ppm
Concentration per Run 2	1.017 ppm	9.463 ppm	9.966 ppm	0.991 ppm
Concentration per Run 3	1.003 ppm	9.370 ppm	9.874 ppm	0.982 ppm
Concentration RSD	1.2 %	0.8 %	0.8 %	1.0 %
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	0.967 ppm	1.018 ppm	1.010 ppm	1.003 ppm
Concentration per Run 1	0.979 ppm	1.031 ppm	1.006 ppm	1.000 ppm
Concentration per Run 2	0.967 ppm	1.009 ppm	1.012 ppm	1.005 ppm
Concentration per Run 3	0.954 ppm	1.015 ppm	1.011 ppm	1.006 ppm
Concentration RSD	1.3 %	1.1 %	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	1.054 ppm	0.982 ppm	1.057 ppm	0.995 ppm
Concentration per Run 1	1.051 ppm	0.979 ppm	1.053 ppm	0.994 ppm
Concentration per Run 2	1.058 ppm	0.981 ppm	1.061 ppm	0.996 ppm
Concentration per Run 3	1.054 ppm	0.985 ppm	1.058 ppm	0.995 ppm
Concentration RSD	0.3 %	0.3 %	0.4 %	0.1 %
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	0.980 ppm	0.978 ppm	0.050 ppm	1.017 ppm
Concentration per Run 1	0.979 ppm	0.977 ppm	0.050 ppm	1.016 ppm
Concentration per Run 2	0.983 ppm	0.981 ppm	0.051 ppm	1.024 ppm
Concentration per Run 3	0.978 ppm	0.977 ppm	0.048 ppm	1.010 ppm
Concentration RSD	0.3 %	0.2 %	2.8 %	0.7 %
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	1.005 ppm	1.038 ppm	1.032 ppm	0.988 ppm
Concentration per Run 1	1.005 ppm	1.035 ppm	1.028 ppm	0.980 ppm
Concentration per Run 2	1.010 ppm	1.044 ppm	1.037 ppm	0.994 ppm
Concentration per Run 3	1.000 ppm	1.034 ppm	1.032 ppm	0.991 ppm
Concentration RSD	0.5 %	0.5 %	0.4 %	0.8 %
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	1.010 ppm	100.242 %	99.936 %	94.188 %
Concentration per Run 1	1.004 ppm	99.608 %	99.992 %	94.409 %
Concentration per Run 2	1.012 ppm	100.693 %	99.766 %	94.070 %
Concentration per Run 3	1.013 ppm	100.426 %	100.049 %	94.084 %
Concentration RSD	0.5 %	0.6 %	0.1 %	0.2 %
Concentration SD	0.0 ppm	0.6 %	0.1 %	0.2 %

	Y 360.073 {94} (Axial)	Na 818.326 {41} (Radial)	Zn 206.200 {463} (Axial)	Cd 228.802 {447} (Axial)
Concentration average	96.247 %	10.309 ppm	0.970 ppm	1.030 ppm
Concentration per Run 1	96.640 %	10.504 ppm	0.969 ppm	1.029 ppm
Concentration per Run 2	96.070 %	10.139 ppm	0.972 ppm	1.033 ppm
Concentration per Run 3	96.030 %	10.285 ppm	0.971 ppm	1.029 ppm
Concentration RSD	0.4 %	1.8 %	0.2 %	0.2 %
Concentration SD	0.3 %	0.2 ppm	0.0 ppm	0.0 ppm

	Cu 324.754 {104} (Radial)
Concentration average	0.977 ppm
Concentration per Run 1	0.990 ppm
Concentration per Run 2	0.971 ppm
Concentration per Run 3	0.969 ppm
Concentration RSD	1.2 %
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	30 cps	162 cps	12,015 cps	4,071 cps

	Ca 373.690 {90} (Radial)	Fe 259.940 {130} (Radial)	Fe 271.441 {124} (Radial)	K 766.490 {44} (Radial)
Intensity average	1,773 cps	245 cps	16 cps	4,578 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	10,078 cps	360 cps	15,101 cps	27,280 cps

	Ti 334.941 {101} (Radial)	V 292.402 {115} (Radial)	Co 228.616 {447} (Axial)	Ni 231.604 {446} (Axial)
Intensity average	1,742 cps	389 cps	3,220 cps	2,353 cps

	Pb 220.353 {453} (Axial)	Sn 189.989 {478} (Axial)	Tl 190.856 {477} (Axial)	As 189.042 {478} (Axial)
Intensity average	820 cps	964 cps	642 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	7,034 cps	3,713 cps	17 cps	2,339 cps

	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)	Ag 328.068 {103} (Axial)	Cr 267.716 {126} (Axial)
Intensity average	572 cps	345 cps	8,106 cps	6,345 cps

	Mn 257.610 {131} (Axial)	Y 360.073 {94} (Radial)	Y 224.306 {450} (Axial)	In 230.606 {446} (Axial)
Intensity average	50,047 cps	4,617 cps	10,861 cps	3,515 cps

	Y 360.073 {94} (Axial)	Na 818.326 {41} (Radial)	Zn 206.200 {463} (Axial)	Cd 228.802 {447} (Axial)
Intensity average	166,259 cps	631 cps	3,739 cps	5,129 cps

	Cu 324.754 {104} (Radial)
Intensity average	561 cps

Comprehensive sample report

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LCSD WG750950

Sample Type UNKNOWN Analysis Date 10/29/2014 10:48:30 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	0.831 ppm	0.986 ppm	0.993 ppm	9.414 ppm
Concentration per Run 1	0.793 ppm	0.959 ppm	0.972 ppm	9.213 ppm
Concentration per Run 2	0.854 ppm	0.997 ppm	0.998 ppm	9.486 ppm
Concentration per Run 3	0.846 ppm	1.001 ppm	1.009 ppm	9.544 ppm
Concentration RSD	4.0 %	2.3 %	1.9 %	1.9 %
Concentration SD	0.0 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	9.767 ppm	0.925 ppm	1.088 ppm	9.182 ppm
Concentration per Run 1	9.565 ppm	0.904 ppm	0.999 ppm	8.972 ppm
Concentration per Run 2	9.833 ppm	0.926 ppm	1.064 ppm	9.269 ppm
Concentration per Run 3	9.904 ppm	0.943 ppm	1.199 ppm	9.304 ppm
Concentration RSD	1.8 %	2.1 %	9.4 %	2.0 %
Concentration SD	0.2 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	0.999 ppm	9.363 ppm	9.744 ppm	0.975 ppm
Concentration per Run 1	0.977 ppm	9.128 ppm	9.543 ppm	0.954 ppm
Concentration per Run 2	1.005 ppm	9.451 ppm	9.798 ppm	0.982 ppm
Concentration per Run 3	1.015 ppm	9.512 ppm	9.891 ppm	0.990 ppm
Concentration RSD	2.0 %	2.2 %	1.9 %	1.9 %
Concentration SD	0.0 ppm	0.2 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	0.958 ppm	0.998 ppm	1.033 ppm	1.027 ppm
Concentration per Run 1	0.938 ppm	0.980 ppm	1.037 ppm	1.031 ppm
Concentration per Run 2	0.964 ppm	0.995 ppm	1.030 ppm	1.024 ppm
Concentration per Run 3	0.972 ppm	1.020 ppm	1.031 ppm	1.027 ppm
Concentration RSD	1.8 %	2.1 %	0.4 %	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	1.077 ppm	1.004 ppm	1.077 ppm	1.022 ppm
Concentration per Run 1	1.080 ppm	1.007 ppm	1.080 ppm	1.024 ppm
Concentration per Run 2	1.073 ppm	1.001 ppm	1.073 ppm	1.022 ppm
Concentration per Run 3	1.079 ppm	1.003 ppm	1.078 ppm	1.020 ppm
Concentration RSD	0.4 %	0.3 %	0.3 %	0.2 %
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	1.002 ppm	1.001 ppm	0.035 ppm	1.029 ppm
Concentration per Run 1	1.003 ppm	1.003 ppm	0.033 ppm	1.017 ppm
Concentration per Run 2	1.002 ppm	1.000 ppm	0.033 ppm	1.026 ppm
Concentration per Run 3	1.001 ppm	1.001 ppm	0.037 ppm	1.044 ppm
Concentration RSD	0.1 %	0.1 %	7.2 %	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	1.031 ppm	1.064 ppm	1.047 ppm	1.002 ppm
Concentration per Run 1	1.029 ppm	1.062 ppm	1.031 ppm	0.984 ppm
Concentration per Run 2	1.031 ppm	1.066 ppm	1.047 ppm	1.005 ppm
Concentration per Run 3	1.034 ppm	1.064 ppm	1.063 ppm	1.017 ppm
Concentration RSD	0.2 %	0.2 %	1.6 %	1.7 %
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	1.027 ppm	102.518 %	99.127 %	93.528 %
Concentration per Run 1	1.013 ppm	103.793 %	99.166 %	93.504 %
Concentration per Run 2	1.029 ppm	102.679 %	98.921 %	93.517 %
Concentration per Run 3	1.038 ppm	101.083 %	99.294 %	93.564 %
Concentration RSD	1.2 %	1.3 %	0.2 %	0.0 %
Concentration SD	0.0 ppm	1.4 %	0.2 %	0.0 %

	Y 360.073 {94} (Axial)	Na 818.326 {41} (Radial)	Zn 206.200 {463} (Axial)	Cd 228.802 {447} (Axial)
Concentration average	95.868 %	10.194 ppm	0.993 ppm	1.053 ppm
Concentration per Run 1	97.145 %	9.807 ppm	0.996 ppm	1.054 ppm
Concentration per Run 2	95.540 %	10.401 ppm	0.990 ppm	1.053 ppm
Concentration per Run 3	94.919 %	10.375 ppm	0.992 ppm	1.052 ppm
Concentration RSD	1.2 %	3.3 %	0.3 %	0.1 %
Concentration SD	1.1 %	0.3 ppm	0.0 ppm	0.0 ppm

	Cu 324.754 {104} (Radial)
Concentration average	0.966 ppm
Concentration per Run 1	0.945 ppm
Concentration per Run 2	0.973 ppm
Concentration per Run 3	0.980 ppm
Concentration RSD	1.9 %
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	31 cps	163 cps	12,124 cps	4,110 cps

	Ca 373.690 {90} (Radial)	Fe 259.940 {130} (Radial)	Fe 271.441 {124} (Radial)	K 766.490 {44} (Radial)
Intensity average	1,780 cps	247 cps	18 cps	4,600 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	10,138 cps	365 cps	15,111 cps	27,437 cps

	Ti 334.941 {101} (Radial)	V 292.402 {115} (Radial)	Co 228.616 {447} (Axial)	Ni 231.604 {446} (Axial)
Intensity average	1,765 cps	390 cps	3,270 cps	2,392 cps

	Pb 220.353 {453} (Axial)	Sn 189.989 {478} (Axial)	Tl 190.856 {477} (Axial)	As 189.042 {478} (Axial)
Intensity average	832 cps	978 cps	649 cps	403 cps

	Ba 233.527 {445} (Axial)	Mo 202.030 {467} (Axial)	S 182.034 {485} (Axial)	Si 251.611 {134} (Axial)
Intensity average	7,134 cps	3,770 cps	14 cps	2,358 cps

	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)	Ag 328.068 {103} (Axial)	Cr 267.716 {126} (Axial)
Intensity average	582 cps	351 cps	8,191 cps	6,405 cps

	Mn 257.610 {131} (Axial)	Y 360.073 {94} (Radial)	Y 224.306 {450} (Axial)	In 230.606 {446} (Axial)
Intensity average	50,676 cps	4,722 cps	10,773 cps	3,490 cps

	Y 360.073 {94} (Axial)	Na 818.326 {41} (Radial)	Zn 206.200 {463} (Axial)	Cd 228.802 {447} (Axial)
Intensity average	165,605 cps	636 cps	3,794 cps	5,199 cps

	Cu 324.754 {104} (Radial)
Intensity average	567 cps

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L729559-02 WG750950

Sample Type UNKNOWN Analysis Date 10/29/2014 10:52:40 AM

Dilution Factor 5

	Al 308.215 {109} (Radial)	B 249.678 {135} (Radial)	Be 313.042 {108} (Radial)
Concentration average	45.884 ppm	0.655 ppm	0.013 ppm
Concentration per Run 1	46.053 ppm	0.670 ppm	0.013 ppm
Concentration per Run 2	45.616 ppm	0.680 ppm	0.013 ppm
Concentration per Run 3	45.981 ppm	0.617 ppm	0.014 ppm
Concentration RSD	0.5 %	5.1 %	2.1 %
Concentration SD	0.2 ppm	0.0 ppm	0.0 ppm

	Ca 317.933 {106} (Radial)	Ca 373.690 {90} (Radial)	Fe 259.940 {130} (Radial)
Concentration average	3,646.010 ppm	3,975.559 ppm	18.559 ppm
Concentration per Run 1	3,648.938 ppm	3,980.194 ppm	18.525 ppm
Concentration per Run 2	3,633.368 ppm	3,956.401 ppm	18.530 ppm
Concentration per Run 3	3,655.722 ppm	3,990.083 ppm	18.621 ppm
Concentration RSD	0.3 %	0.4 %	0.3 %
Concentration SD	11.5 ppm	17.3 ppm	0.1 ppm

	Fe 271.441 {124} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	20.265 ppm	31.931 ppm	0.648 ppm
Concentration per Run 1	20.844 ppm	32.033 ppm	0.654 ppm
Concentration per Run 2	20.568 ppm	31.759 ppm	0.641 ppm
Concentration per Run 3	19.382 ppm	31.999 ppm	0.647 ppm
Concentration RSD	3.8 %	0.5 %	1.0 %
Concentration SD	0.8 ppm	0.1 ppm	0.0 ppm

	Mg 279.079 {121} (Radial)	Na 589.592 {57} (Radial)	Sr 421.552 {80} (Radial)
Concentration average	739.913 ppm	726.703 ppm	30.088 ppm
Concentration per Run 1	740.329 ppm	727.654 ppm	30.157 ppm
Concentration per Run 2	737.859 ppm	724.073 ppm	29.934 ppm
Concentration per Run 3	741.553 ppm	728.381 ppm	30.173 ppm
Concentration RSD	0.3 %	0.3 %	0.4 %
Concentration SD	1.9 ppm	2.3 ppm	0.1 ppm

	Ti 334.941 {101} (Radial)	V 292.402 {115} (Radial)	Co 228.616 {447} (Axial)
Concentration average	0.159 ppm	0.378 ppm	0.185 ppm
Concentration per Run 1	0.159 ppm	0.357 ppm	0.184 ppm
Concentration per Run 2	0.160 ppm	0.377 ppm	0.187 ppm
Concentration per Run 3	0.158 ppm	0.400 ppm	0.182 ppm
Concentration RSD	0.7 %	5.7 %	1.2 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm

	Ni 231.604 {446} (Axial)	Pb 220.353 {453} (Axial)	Sn 189.989 {478} (Axial)
Concentration average	0.192 ppm	0.184 ppm	-0.004 ppm
Concentration per Run 1	0.191 ppm	0.189 ppm	-0.001 ppm

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	Ni 231.604 {446} (Axial)	Pb 220.353 {453} (Axial)	Sn 189.989 {478} (Axial)
Concentration per Run 2	0.194 ppm	0.181 ppm	-0.007 ppm
Concentration per Run 3	0.190 ppm	0.180 ppm	-0.003 ppm
Concentration RSD	1.0 %	2.6 %	74.9 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm

	Tl 190.856 {477} (Axial)	As 189.042 {478} (Axial)	Ba 233.527 {445} (Axial)
Concentration average	-0.006 ppm	0.044 ppm	0.538 ppm
Concentration per Run 1	-0.003 ppm	0.042 ppm	0.539 ppm
Concentration per Run 2	-0.011 ppm	0.040 ppm	0.539 ppm
Concentration per Run 3	-0.004 ppm	0.049 ppm	0.537 ppm
Concentration RSD	66.1 %	10.2 %	0.2 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm

	Mo 202.030 {467} (Axial)	S 182.034 {485} (Axial)	Si 251.611 {134} (Axial)
Concentration average	0.011 ppm	513.634 ppm	84.376 ppm
Concentration per Run 1	0.011 ppm	512.828 ppm	84.529 ppm
Concentration per Run 2	0.011 ppm	514.071 ppm	84.242 ppm
Concentration per Run 3	0.010 ppm	514.004 ppm	84.356 ppm
Concentration RSD	6.5 %	0.1 %	0.2 %
Concentration SD	0.0 ppm	0.7 ppm	0.1 ppm

	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)	Ag 328.068 {103} (Axial)
Concentration average	-0.014 ppm	0.017 ppm	-0.008 ppm
Concentration per Run 1	-0.001 ppm	0.018 ppm	-0.006 ppm
Concentration per Run 2	-0.018 ppm	0.010 ppm	-0.006 ppm
Concentration per Run 3	-0.022 ppm	0.022 ppm	-0.012 ppm
Concentration RSD	79.0 %	36.0 %	43.3 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm

	Cr 267.716 {126} (Axial)	Mn 257.610 {131} (Axial)	Y 360.073 {94} (Radial)
Concentration average	0.183 ppm	8.350 ppm	96.420 %
Concentration per Run 1	0.186 ppm	8.362 ppm	95.927 %
Concentration per Run 2	0.184 ppm	8.335 ppm	97.143 %
Concentration per Run 3	0.180 ppm	8.352 ppm	96.191 %
Concentration RSD	1.7 %	0.2 %	0.7 %
Concentration SD	0.0 ppm	0.0 ppm	0.6 %

	Y 224.306 {450} (Axial)	In 230.606 {446} (Axial)	Y 360.073 {94} (Axial)
Concentration average	87.393 %	73.987 %	84.757 %
Concentration per Run 1	87.341 %	74.046 %	84.563 %
Concentration per Run 2	87.428 %	73.878 %	84.881 %
Concentration per Run 3	87.410 %	74.037 %	84.827 %
Concentration RSD	0.1 %	0.1 %	0.2 %
Concentration SD	0.0 %	0.1 %	0.2 %

	Na 818.326 {41} (Radial)	Zn 206.200 {463} (Axial)	Cd 228.802 {447} (Axial)
Concentration average	727.463 ppm	0.232 ppm	0.011 ppm

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	Na 818.326 {41} (Radial)	Zn 206.200 {463} (Axial)	Cd 228.802 {447} (Axial)
Concentration per Run 1	728.825 ppm	0.231 ppm	0.011 ppm
Concentration per Run 2	722.686 ppm	0.233 ppm	0.011 ppm
Concentration per Run 3	730.879 ppm	0.231 ppm	0.010 ppm
Concentration RSD	0.6 %	0.5 %	3.5 %
Concentration SD	4.3 ppm	0.0 ppm	0.0 ppm

	Cu 324.754 {104} (Radial)
Concentration average	0.062 ppm
Concentration per Run 1	0.063 ppm
Concentration per Run 2	0.065 ppm
Concentration per Run 3	0.057 ppm
Concentration RSD	6.6 %
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	268 cps	21 cps	31 cps	296,085 cps

	Ca 373.690 {90} (Radial)	Fe 259.940 {130} (Radial)	Fe 271.441 {124} (Radial)	K 766.490 {44} (Radial)
Intensity average	134,712 cps	900 cps	60 cps	3,020 cps

	Li 670.784 {50} (Radial)	Mg 279.079 {121} (Radial)	Na 589.592 {57} (Radial)	Sr 421.552 {80} (Radial)
Intensity average	1,228 cps	5,404 cps	211,050 cps	159,262 cps

	Ti 334.941 {101} (Radial)	V 292.402 {115} (Radial)	Co 228.616 {447} (Axial)	Ni 231.604 {446} (Axial)
Intensity average	54 cps	29 cps	93 cps	72 cps

	Pb 220.353 {453} (Axial)	Sn 189.989 {478} (Axial)	Tl 190.856 {477} (Axial)	As 189.042 {478} (Axial)
Intensity average	22 cps	0 cps	-4 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	678 cps	10 cps	20,547 cps	33,967 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	3 cps	-14 cps	220 cps

	Mn 257.610 {131} (Axial)	Y 360.073 {94} (Radial)	Y 224.306 {450} (Axial)	In 230.606 {446} (Axial)
Intensity average	72,880 cps	4,441 cps	9,498 cps	2,761 cps

	Y 360.073 {94} (Axial)	Na 818.326 {41} (Radial)	Zn 206.200 {463} (Axial)	Cd 228.802 {447} (Axial)
Intensity average	146,412 cps	10,322 cps	159 cps	13 cps

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	Cu 324.754 {104} (Radial)
Intensity average	14 cps

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SD L729559-02 WG750950

Sample Type UNKNOWN Analysis Date 10/29/2014 10:57:03 AM

Dilution Factor 25

	Al 308.215 {109} (Radial)	B 249.678 {135} (Radial)	Be 313.042 {108} (Radial)
Concentration average	46.561 ppm	0.761 ppm	0.012 ppm
Concentration per Run 1	47.541 ppm	0.614 ppm	0.015 ppm
Concentration per Run 2	44.754 ppm	0.936 ppm	0.006 ppm
Concentration per Run 3	47.388 ppm	0.732 ppm	0.014 ppm
Concentration RSD	3.4 %	21.4 %	41.8 %
Concentration SD	1.6 ppm	0.2 ppm	0.0 ppm

	Ca 317.933 {106} (Radial)	Ca 373.690 {90} (Radial)	Fe 259.940 {130} (Radial)
Concentration average	4,063.248 ppm	4,267.894 ppm	20.271 ppm
Concentration per Run 1	4,057.489 ppm	4,262.232 ppm	20.356 ppm
Concentration per Run 2	4,058.404 ppm	4,260.911 ppm	20.081 ppm
Concentration per Run 3	4,073.850 ppm	4,280.538 ppm	20.375 ppm
Concentration RSD	0.2 %	0.3 %	0.8 %
Concentration SD	9.2 ppm	11.0 ppm	0.2 ppm

	Fe 271.441 {124} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	22.124 ppm	32.250 ppm	0.660 ppm
Concentration per Run 1	21.197 ppm	31.929 ppm	0.663 ppm
Concentration per Run 2	25.750 ppm	32.776 ppm	0.657 ppm
Concentration per Run 3	19.425 ppm	32.045 ppm	0.659 ppm
Concentration RSD	14.7 %	1.4 %	0.5 %
Concentration SD	3.3 ppm	0.5 ppm	0.0 ppm

	Mg 279.079 {121} (Radial)	Na 589.592 {57} (Radial)	Sr 421.552 {80} (Radial)
Concentration average	773.447 ppm	772.174 ppm	31.837 ppm
Concentration per Run 1	771.853 ppm	771.921 ppm	31.786 ppm
Concentration per Run 2	775.488 ppm	772.708 ppm	31.902 ppm
Concentration per Run 3	773.000 ppm	771.893 ppm	31.823 ppm
Concentration RSD	0.2 %	0.1 %	0.2 %
Concentration SD	1.9 ppm	0.5 ppm	0.1 ppm

	Ti 334.941 {101} (Radial)	V 292.402 {115} (Radial)	Co 228.616 {447} (Axial)
Concentration average	0.524 ppm	0.360 ppm	0.187 ppm
Concentration per Run 1	0.491 ppm	0.393 ppm	0.172 ppm
Concentration per Run 2	0.529 ppm	0.345 ppm	0.200 ppm
Concentration per Run 3	0.552 ppm	0.343 ppm	0.189 ppm
Concentration RSD	5.9 %	7.9 %	7.6 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm

	Ni 231.604 {446} (Axial)	Pb 220.353 {453} (Axial)	Sn 189.989 {478} (Axial)
Concentration average	0.305 ppm	0.208 ppm	-0.020 ppm
Concentration per Run 1	0.313 ppm	0.211 ppm	0.006 ppm

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	Ni 231.604 {446} (Axial)	Pb 220.353 {453} (Axial)	Sn 189.989 {478} (Axial)
Concentration per Run 2	0.306 ppm	0.212 ppm	-0.029 ppm
Concentration per Run 3	0.296 ppm	0.201 ppm	-0.037 ppm
Concentration RSD	2.7 %	2.9 %	113.7 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm

	Tl 190.856 {477} (Axial)	As 189.042 {478} (Axial)	Ba 233.527 {445} (Axial)
Concentration average	-0.008 ppm	0.047 ppm	0.586 ppm
Concentration per Run 1	-0.018 ppm	0.077 ppm	0.584 ppm
Concentration per Run 2	-0.015 ppm	0.014 ppm	0.584 ppm
Concentration per Run 3	0.009 ppm	0.049 ppm	0.589 ppm
Concentration RSD	190.1 %	67.7 %	0.4 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm

	Mo 202.030 {467} (Axial)	S 182.034 {485} (Axial)	Si 251.611 {134} (Axial)
Concentration average	0.013 ppm	510.655 ppm	85.581 ppm
Concentration per Run 1	0.012 ppm	509.107 ppm	85.584 ppm
Concentration per Run 2	0.011 ppm	512.751 ppm	85.737 ppm
Concentration per Run 3	0.017 ppm	510.107 ppm	85.422 ppm
Concentration RSD	22.5 %	0.4 %	0.2 %
Concentration SD	0.0 ppm	1.9 ppm	0.2 ppm

	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)	Ag 328.068 {103} (Axial)
Concentration average	0.004 ppm	0.030 ppm	-0.014 ppm
Concentration per Run 1	-0.021 ppm	0.114 ppm	-0.010 ppm
Concentration per Run 2	0.064 ppm	-0.010 ppm	-0.011 ppm
Concentration per Run 3	-0.032 ppm	-0.014 ppm	-0.019 ppm
Concentration RSD	1,354.9 %	243.0 %	34.3 %
Concentration SD	0.1 ppm	0.1 ppm	0.0 ppm

	Cr 267.716 {126} (Axial)	Mn 257.610 {131} (Axial)	Y 360.073 {94} (Radial)
Concentration average	0.221 ppm	9.140 ppm	98.254 %
Concentration per Run 1	0.234 ppm	9.195 ppm	98.243 %
Concentration per Run 2	0.210 ppm	9.108 ppm	98.273 %
Concentration per Run 3	0.218 ppm	9.117 ppm	98.247 %
Concentration RSD	5.4 %	0.5 %	0.0 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 %

	Y 224.306 {450} (Axial)	In 230.606 {446} (Axial)	Y 360.073 {94} (Axial)
Concentration average	94.240 %	87.024 %	91.113 %
Concentration per Run 1	94.429 %	87.091 %	90.749 %
Concentration per Run 2	94.033 %	86.936 %	91.139 %
Concentration per Run 3	94.259 %	87.045 %	91.452 %
Concentration RSD	0.2 %	0.1 %	0.4 %
Concentration SD	0.2 %	0.1 %	0.4 %

	Na 818.326 {41} (Radial)	Zn 206.200 {463} (Axial)	Cd 228.802 {447} (Axial)
Concentration average	763.360 ppm	0.578 ppm	0.012 ppm

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	Na 818.326 {41} (Radial)	Zn 206.200 {463} (Axial)	Cd 228.802 {447} (Axial)
Concentration per Run 1	763.996 ppm	0.585 ppm	0.011 ppm
Concentration per Run 2	763.366 ppm	0.581 ppm	0.012 ppm
Concentration per Run 3	762.719 ppm	0.567 ppm	0.012 ppm
Concentration RSD	0.1 %	1.7 %	3.2 %
Concentration SD	0.6 ppm	0.0 ppm	0.0 ppm

	Cu 324.754 {104} (Radial)
Concentration average	0.024 ppm
Concentration per Run 1	0.090 ppm
Concentration per Run 2	-0.129 ppm
Concentration per Run 3	0.112 ppm
Concentration RSD	551.7 %
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	60 cps	5 cps	6 cps	67,285 cps

	Ca 373.690 {90} (Radial)	Fe 259.940 {130} (Radial)	Fe 271.441 {124} (Radial)	K 766.490 {44} (Radial)
Intensity average	29,490 cps	209 cps	14 cps	649 cps

	Li 670.784 {50} (Radial)	Mg 279.079 {121} (Radial)	Na 589.592 {57} (Radial)	Sr 421.552 {80} (Radial)
Intensity average	247 cps	1,152 cps	45,761 cps	34,342 cps

	Ti 334.941 {101} (Radial)	V 292.402 {115} (Radial)	Co 228.616 {447} (Axial)	Ni 231.604 {446} (Axial)
Intensity average	35 cps	7 cps	22 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	5 cps	0 cps	-4 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	162 cps	5 cps	4,410 cps	7,419 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	2 cps	-8 cps	68 cps

	Mn 257.610 {131} (Axial)	Y 360.073 {94} (Radial)	Y 224.306 {450} (Axial)	In 230.606 {446} (Axial)
Intensity average	17,158 cps	4,526 cps	10,242 cps	3,248 cps

	Y 360.073 {94} (Axial)	Na 818.326 {41} (Radial)	Zn 206.200 {463} (Axial)	Cd 228.802 {447} (Axial)
Intensity average	157,392 cps	2,099 cps	87 cps	7 cps

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	Cu 324.754 {104} (Radial)
Intensity average	8 cps

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MS L729559-02 WG750950

Sample Type UNKNOWN Analysis Date 10/29/2014 11:01:28 AM

Dilution Factor 5

	Al 308.215 {109} (Radial)	B 249.678 {135} (Radial)	Be 313.042 {108} (Radial)
Concentration average	50.176 ppm	1.621 ppm	0.978 ppm
Concentration per Run 1	50.298 ppm	1.638 ppm	0.981 ppm
Concentration per Run 2	50.152 ppm	1.620 ppm	0.977 ppm
Concentration per Run 3	50.078 ppm	1.605 ppm	0.976 ppm
Concentration RSD	0.2 %	1.0 %	0.3 %
Concentration SD	0.1 ppm	0.0 ppm	0.0 ppm

	Ca 317.933 {106} (Radial)	Ca 373.690 {90} (Radial)	Fe 259.940 {130} (Radial)
Concentration average	3,603.876 ppm	3,933.091 ppm	21.521 ppm
Concentration per Run 1	3,621.427 ppm	3,953.448 ppm	21.612 ppm
Concentration per Run 2	3,607.696 ppm	3,933.752 ppm	21.520 ppm
Concentration per Run 3	3,582.506 ppm	3,912.072 ppm	21.432 ppm
Concentration RSD	0.5 %	0.5 %	0.4 %
Concentration SD	19.7 ppm	20.7 ppm	0.1 ppm

	Fe 271.441 {124} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	24.048 ppm	42.220 ppm	1.715 ppm
Concentration per Run 1	24.562 ppm	42.457 ppm	1.722 ppm
Concentration per Run 2	24.629 ppm	42.127 ppm	1.709 ppm
Concentration per Run 3	22.954 ppm	42.077 ppm	1.715 ppm
Concentration RSD	3.9 %	0.5 %	0.4 %
Concentration SD	0.9 ppm	0.2 ppm	0.0 ppm

	Mg 279.079 {121} (Radial)	Na 589.592 {57} (Radial)	Sr 421.552 {80} (Radial)
Concentration average	737.041 ppm	723.089 ppm	30.581 ppm
Concentration per Run 1	741.152 ppm	726.549 ppm	30.698 ppm
Concentration per Run 2	737.164 ppm	721.225 ppm	30.475 ppm
Concentration per Run 3	732.806 ppm	721.492 ppm	30.569 ppm
Concentration RSD	0.6 %	0.4 %	0.4 %
Concentration SD	4.2 ppm	3.0 ppm	0.1 ppm

	Ti 334.941 {101} (Radial)	V 292.402 {115} (Radial)	Co 228.616 {447} (Axial)
Concentration average	1.116 ppm	1.384 ppm	1.239 ppm
Concentration per Run 1	1.121 ppm	1.411 ppm	1.239 ppm
Concentration per Run 2	1.108 ppm	1.386 ppm	1.238 ppm
Concentration per Run 3	1.119 ppm	1.356 ppm	1.238 ppm
Concentration RSD	0.6 %	2.0 %	0.1 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm

	Ni 231.604 {446} (Axial)	Pb 220.353 {453} (Axial)	Sn 189.989 {478} (Axial)
Concentration average	1.220 ppm	1.248 ppm	1.038 ppm
Concentration per Run 1	1.219 ppm	1.249 ppm	1.042 ppm

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	Ni 231.604 {446} (Axial)	Pb 220.353 {453} (Axial)	Sn 189.989 {478} (Axial)
Concentration per Run 2	1.219 ppm	1.242 ppm	1.030 ppm
Concentration per Run 3	1.223 ppm	1.253 ppm	1.041 ppm
Concentration RSD	0.2 %	0.4 %	0.6 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm

	Tl 190.856 {477} (Axial)	As 189.042 {478} (Axial)	Ba 233.527 {445} (Axial)
Concentration average	1.010 ppm	1.111 ppm	1.495 ppm
Concentration per Run 1	1.016 ppm	1.122 ppm	1.497 ppm
Concentration per Run 2	1.010 ppm	1.092 ppm	1.493 ppm
Concentration per Run 3	1.003 ppm	1.120 ppm	1.496 ppm
Concentration RSD	0.6 %	1.5 %	0.1 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm

	Mo 202.030 {467} (Axial)	S 182.034 {485} (Axial)	Si 251.611 {134} (Axial)
Concentration average	0.985 ppm	505.527 ppm	92.252 ppm
Concentration per Run 1	0.985 ppm	504.483 ppm	92.156 ppm
Concentration per Run 2	0.981 ppm	506.006 ppm	92.446 ppm
Concentration per Run 3	0.988 ppm	506.092 ppm	92.155 ppm
Concentration RSD	0.4 %	0.2 %	0.2 %
Concentration SD	0.0 ppm	0.9 ppm	0.2 ppm

	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)	Ag 328.068 {103} (Axial)
Concentration average	1.015 ppm	1.141 ppm	1.129 ppm
Concentration per Run 1	1.026 ppm	1.152 ppm	1.120 ppm
Concentration per Run 2	1.007 ppm	1.117 ppm	1.141 ppm
Concentration per Run 3	1.010 ppm	1.155 ppm	1.126 ppm
Concentration RSD	1.0 %	1.8 %	0.9 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm

	Cr 267.716 {126} (Axial)	Mn 257.610 {131} (Axial)	Y 360.073 {94} (Radial)
Concentration average	1.152 ppm	9.192 ppm	96.023 %
Concentration per Run 1	1.149 ppm	9.191 ppm	95.363 %
Concentration per Run 2	1.147 ppm	9.178 ppm	95.843 %
Concentration per Run 3	1.161 ppm	9.208 ppm	96.863 %
Concentration RSD	0.7 %	0.2 %	0.8 %
Concentration SD	0.0 ppm	0.0 ppm	0.8 %

	Y 224.306 {450} (Axial)	In 230.606 {446} (Axial)	Y 360.073 {94} (Axial)
Concentration average	87.443 %	74.036 %	84.843 %
Concentration per Run 1	87.461 %	74.030 %	84.857 %
Concentration per Run 2	87.492 %	74.139 %	84.856 %
Concentration per Run 3	87.375 %	73.938 %	84.816 %
Concentration RSD	0.1 %	0.1 %	0.0 %
Concentration SD	0.1 %	0.1 %	0.0 %

	Na 818.326 {41} (Radial)	Zn 206.200 {463} (Axial)	Cd 228.802 {447} (Axial)
Concentration average	726.381 ppm	1.139 ppm	1.118 ppm

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	Na 818.326 {41} (Radial)	Zn 206.200 {463} (Axial)	Cd 228.802 {447} (Axial)
Concentration per Run 1	729.959 ppm	1.138 ppm	1.119 ppm
Concentration per Run 2	722.858 ppm	1.142 ppm	1.120 ppm
Concentration per Run 3	726.326 ppm	1.138 ppm	1.115 ppm
Concentration RSD	0.5 %	0.2 %	0.2 %
Concentration SD	3.6 ppm	0.0 ppm	0.0 ppm

	Cu 324.754 {104} (Radial)
Concentration average	1.077 ppm
Concentration per Run 1	1.058 ppm
Concentration per Run 2	1.092 ppm
Concentration per Run 3	1.080 ppm
Concentration RSD	1.6 %
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	291 cps	50 cps	2,238 cps	291,453 cps

	Ca 373.690 {90} (Radial)	Fe 259.940 {130} (Radial)	Fe 271.441 {124} (Radial)	K 766.490 {44} (Radial)
Intensity average	132,723 cps	1,038 cps	71 cps	3,966 cps

	Li 670.784 {50} (Radial)	Mg 279.079 {121} (Radial)	Na 589.592 {57} (Radial)	Sr 421.552 {80} (Radial)
Intensity average	3,255 cps	5,360 cps	209,136 cps	161,206 cps

	Ti 334.941 {101} (Radial)	V 292.402 {115} (Radial)	Co 228.616 {447} (Axial)	Ni 231.604 {446} (Axial)
Intensity average	384 cps	102 cps	621 cps	451 cps

	Pb 220.353 {453} (Axial)	Sn 189.989 {478} (Axial)	Tl 190.856 {477} (Axial)	As 189.042 {478} (Axial)
Intensity average	152 cps	161 cps	94 cps	76 cps

	Ba 233.527 {445} (Axial)	Mo 202.030 {467} (Axial)	S 182.034 {485} (Axial)	Si 251.611 {134} (Axial)
Intensity average	1,881 cps	657 cps	20,234 cps	37,174 cps

	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)	Ag 328.068 {103} (Axial)	Cr 267.716 {126} (Axial)
Intensity average	102 cps	68 cps	1,560 cps	1,315 cps

	Mn 257.610 {131} (Axial)	Y 360.073 {94} (Radial)	Y 224.306 {450} (Axial)	In 230.606 {446} (Axial)
Intensity average	80,313 cps	4,423 cps	9,503 cps	2,763 cps

	Y 360.073 {94} (Axial)	Na 818.326 {41} (Radial)	Zn 206.200 {463} (Axial)	Cd 228.802 {447} (Axial)
Intensity average	146,560 cps	10,264 cps	771 cps	977 cps

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	Cu 324.754 {104} (Radial)
Intensity average	124 cps

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MSD L729559-02 WG750950

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Dilution Factor 5

	Al 308.215 {109} (Radial)	B 249.678 {135} (Radial)	Be 313.042 {108} (Radial)
Concentration average	50.974 ppm	1.629 ppm	1.010 ppm
Concentration per Run 1	51.368 ppm	1.659 ppm	1.018 ppm
Concentration per Run 2	50.688 ppm	1.581 ppm	1.007 ppm
Concentration per Run 3	50.866 ppm	1.647 ppm	1.005 ppm
Concentration RSD	0.7 %	2.6 %	0.7 %
Concentration SD	0.4 ppm	0.0 ppm	0.0 ppm

	Ca 317.933 {106} (Radial)	Ca 373.690 {90} (Radial)	Fe 259.940 {130} (Radial)
Concentration average	3,670.344 ppm	4,013.906 ppm	22.579 ppm
Concentration per Run 1	3,688.216 ppm	4,033.837 ppm	22.701 ppm
Concentration per Run 2	3,662.095 ppm	4,007.326 ppm	22.589 ppm
Concentration per Run 3	3,660.720 ppm	4,000.556 ppm	22.447 ppm
Concentration RSD	0.4 %	0.4 %	0.6 %
Concentration SD	15.5 ppm	17.6 ppm	0.1 ppm

	Fe 271.441 {124} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	25.694 ppm	43.340 ppm	1.768 ppm
Concentration per Run 1	25.505 ppm	43.648 ppm	1.781 ppm
Concentration per Run 2	25.347 ppm	43.185 ppm	1.760 ppm
Concentration per Run 3	26.230 ppm	43.187 ppm	1.764 ppm
Concentration RSD	1.8 %	0.6 %	0.6 %
Concentration SD	0.5 ppm	0.3 ppm	0.0 ppm

	Mg 279.079 {121} (Radial)	Na 589.592 {57} (Radial)	Sr 421.552 {80} (Radial)
Concentration average	749.402 ppm	736.291 ppm	31.353 ppm
Concentration per Run 1	754.302 ppm	742.917 ppm	31.601 ppm
Concentration per Run 2	746.988 ppm	734.387 ppm	31.282 ppm
Concentration per Run 3	746.916 ppm	731.568 ppm	31.176 ppm
Concentration RSD	0.6 %	0.8 %	0.7 %
Concentration SD	4.2 ppm	5.9 ppm	0.2 ppm

	Ti 334.941 {101} (Radial)	V 292.402 {115} (Radial)	Co 228.616 {447} (Axial)
Concentration average	1.149 ppm	1.427 ppm	1.275 ppm
Concentration per Run 1	1.161 ppm	1.451 ppm	1.276 ppm
Concentration per Run 2	1.154 ppm	1.400 ppm	1.277 ppm
Concentration per Run 3	1.133 ppm	1.430 ppm	1.271 ppm
Concentration RSD	1.2 %	1.8 %	0.2 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm

	Ni 231.604 {446} (Axial)	Pb 220.353 {453} (Axial)	Sn 189.989 {478} (Axial)
Concentration average	1.252 ppm	1.277 ppm	1.064 ppm
Concentration per Run 1	1.252 ppm	1.280 ppm	1.060 ppm

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	Ni 231.604 {446} (Axial)	Pb 220.353 {453} (Axial)	Sn 189.989 {478} (Axial)
Concentration per Run 2	1.253 ppm	1.277 ppm	1.062 ppm
Concentration per Run 3	1.252 ppm	1.273 ppm	1.070 ppm
Concentration RSD	0.0 %	0.3 %	0.5 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm

	Tl 190.856 {477} (Axial)	As 189.042 {478} (Axial)	Ba 233.527 {445} (Axial)
Concentration average	1.043 ppm	1.143 ppm	1.538 ppm
Concentration per Run 1	1.040 ppm	1.162 ppm	1.545 ppm
Concentration per Run 2	1.049 ppm	1.131 ppm	1.536 ppm
Concentration per Run 3	1.039 ppm	1.136 ppm	1.534 ppm
Concentration RSD	0.5 %	1.5 %	0.4 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm

	Mo 202.030 {467} (Axial)	S 182.034 {485} (Axial)	Si 251.611 {134} (Axial)
Concentration average	1.012 ppm	520.225 ppm	92.762 ppm
Concentration per Run 1	1.018 ppm	521.891 ppm	92.587 ppm
Concentration per Run 2	1.009 ppm	519.767 ppm	92.668 ppm
Concentration per Run 3	1.008 ppm	519.017 ppm	93.031 ppm
Concentration RSD	0.5 %	0.3 %	0.3 %
Concentration SD	0.0 ppm	1.5 ppm	0.2 ppm

	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)	Ag 328.068 {103} (Axial)
Concentration average	1.029 ppm	1.172 ppm	1.166 ppm
Concentration per Run 1	1.046 ppm	1.163 ppm	1.168 ppm
Concentration per Run 2	1.017 ppm	1.164 ppm	1.159 ppm
Concentration per Run 3	1.023 ppm	1.188 ppm	1.172 ppm
Concentration RSD	1.5 %	1.2 %	0.6 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm

	Cr 267.716 {126} (Axial)	Mn 257.610 {131} (Axial)	Y 360.073 {94} (Radial)
Concentration average	1.188 ppm	9.374 ppm	95.816 %
Concentration per Run 1	1.182 ppm	9.383 ppm	94.898 %
Concentration per Run 2	1.185 ppm	9.348 ppm	95.948 %
Concentration per Run 3	1.195 ppm	9.391 ppm	96.604 %
Concentration RSD	0.6 %	0.2 %	0.9 %
Concentration SD	0.0 ppm	0.0 ppm	0.9 %

	Y 224.306 {450} (Axial)	In 230.606 {446} (Axial)	Y 360.073 {94} (Axial)
Concentration average	87.010 %	73.566 %	84.305 %
Concentration per Run 1	86.558 %	73.432 %	84.420 %
Concentration per Run 2	87.055 %	73.504 %	84.182 %
Concentration per Run 3	87.418 %	73.761 %	84.314 %
Concentration RSD	0.5 %	0.2 %	0.1 %
Concentration SD	0.4 %	0.2 %	0.1 %

	Na 818.326 {41} (Radial)	Zn 206.200 {463} (Axial)	Cd 228.802 {447} (Axial)
Concentration average	740.662 ppm	1.164 ppm	1.154 ppm

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	Na 818.326 {41} (Radial)	Zn 206.200 {463} (Axial)	Cd 228.802 {447} (Axial)
Concentration per Run 1	746.238 ppm	1.165 ppm	1.160 ppm
Concentration per Run 2	738.435 ppm	1.164 ppm	1.154 ppm
Concentration per Run 3	737.314 ppm	1.164 ppm	1.148 ppm
Concentration RSD	0.7 %	0.1 %	0.5 %
Concentration SD	4.9 ppm	0.0 ppm	0.0 ppm

	Cu 324.754 {104} (Radial)
Concentration average	1.095 ppm
Concentration per Run 1	1.067 ppm
Concentration per Run 2	1.104 ppm
Concentration per Run 3	1.112 ppm
Concentration RSD	2.2 %
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	295 cps	51 cps	2,306 cps	296,191 cps

	Ca 373.690 {90} (Radial)	Fe 259.940 {130} (Radial)	Fe 271.441 {124} (Radial)	K 766.490 {44} (Radial)
Intensity average	135,159 cps	1,086 cps	75 cps	4,061 cps

	Li 670.784 {50} (Radial)	Mg 279.079 {121} (Radial)	Na 589.592 {57} (Radial)	Sr 421.552 {80} (Radial)
Intensity average	3,348 cps	5,439 cps	212,488 cps	164,918 cps

	Ti 334.941 {101} (Radial)	V 292.402 {115} (Radial)	Co 228.616 {447} (Axial)	Ni 231.604 {446} (Axial)
Intensity average	395 cps	105 cps	635 cps	460 cps

	Pb 220.353 {453} (Axial)	Sn 189.989 {478} (Axial)	Tl 190.856 {477} (Axial)	As 189.042 {478} (Axial)
Intensity average	155 cps	164 cps	96 cps	78 cps

	Ba 233.527 {445} (Axial)	Mo 202.030 {467} (Axial)	S 182.034 {485} (Axial)	Si 251.611 {134} (Axial)
Intensity average	1,925 cps	671 cps	20,719 cps	37,142 cps

	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)	Ag 328.068 {103} (Axial)	Cr 267.716 {126} (Axial)
Intensity average	103 cps	69 cps	1,602 cps	1,346 cps

	Mn 257.610 {131} (Axial)	Y 360.073 {94} (Radial)	Y 224.306 {450} (Axial)	In 230.606 {446} (Axial)
Intensity average	81,379 cps	4,414 cps	9,456 cps	2,745 cps

	Y 360.073 {94} (Axial)	Na 818.326 {41} (Radial)	Zn 206.200 {463} (Axial)	Cd 228.802 {447} (Axial)
Intensity average	145,631 cps	10,445 cps	784 cps	1,003 cps

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	Cu 324.754 {104} (Radial)
Intensity average	126 cps

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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	0.002 ppm	0.031 ppm	0.000 ppm	0.118 ppm
Concentration per Run 1	0.012 ppm	0.044 ppm	0.000 ppm	0.131 ppm
Concentration per Run 2	0.034 ppm	0.023 ppm	0.000 ppm	0.126 ppm
Concentration per Run 3	-0.040 ppm	0.027 ppm	0.000 ppm	0.098 ppm
Concentration RSD	1,720.2 %	34.9 %	158.0 %	14.9 %
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	0.126 ppm	0.044 ppm	0.076 ppm	0.077 ppm
Concentration per Run 1	0.139 ppm	0.043 ppm	0.134 ppm	0.074 ppm
Concentration per Run 2	0.110 ppm	0.045 ppm	-0.031 ppm	0.067 ppm
Concentration per Run 3	0.129 ppm	0.044 ppm	0.126 ppm	0.091 ppm
Concentration RSD	11.8 %	2.7 %	121.5 %	15.8 %
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	0.004 ppm	-0.018 ppm	0.389 ppm	0.001 ppm
Concentration per Run 1	0.004 ppm	-0.009 ppm	0.383 ppm	0.001 ppm
Concentration per Run 2	0.004 ppm	0.001 ppm	0.403 ppm	0.001 ppm
Concentration per Run 3	0.004 ppm	-0.045 ppm	0.382 ppm	0.001 ppm
Concentration RSD	3.6 %	133.8 %	3.0 %	27.5 %
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	0.001 ppm	0.002 ppm	0.000 ppm	0.006 ppm
Concentration per Run 1	0.000 ppm	0.003 ppm	0.000 ppm	0.006 ppm
Concentration per Run 2	0.001 ppm	0.001 ppm	0.001 ppm	0.006 ppm
Concentration per Run 3	0.002 ppm	0.003 ppm	0.000 ppm	0.006 ppm
Concentration RSD	132.3 %	61.8 %	33.4 %	2.1 %
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	0.001 ppm	0.000 ppm	0.003 ppm	0.003 ppm
Concentration per Run 1	0.000 ppm	0.000 ppm	0.001 ppm	0.003 ppm
Concentration per Run 2	0.000 ppm	0.000 ppm	0.003 ppm	0.002 ppm
Concentration per Run 3	0.002 ppm	-0.001 ppm	0.004 ppm	0.004 ppm
Concentration RSD	174.0 %	35.6 %	42.2 %	44.3 %
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	0.000 ppm	0.000 ppm	0.031 ppm	0.072 ppm
Concentration per Run 1	0.000 ppm	0.000 ppm	0.034 ppm	0.073 ppm
Concentration per Run 2	0.000 ppm	0.000 ppm	0.031 ppm	0.072 ppm
Concentration per Run 3	0.000 ppm	0.000 ppm	0.029 ppm	0.071 ppm
Concentration RSD	32.5 %	13.1 %	7.9 %	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	-0.003 ppm	-0.003 ppm	0.000 ppm	-0.001 ppm
Concentration per Run 1	-0.003 ppm	-0.003 ppm	0.000 ppm	-0.001 ppm
Concentration per Run 2	-0.005 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	66.6 %	40.8 %	5,184.3 %	81.4 %
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	0.001 ppm	99.952 %	100.859 %	98.740 %
Concentration per Run 1	0.001 ppm	99.630 %	100.991 %	98.811 %
Concentration per Run 2	0.001 ppm	98.011 %	100.719 %	98.640 %
Concentration per Run 3	0.001 ppm	102.214 %	100.868 %	98.769 %
Concentration RSD	9.2 %	2.1 %	0.1 %	0.1 %
Concentration SD	0.0 ppm	2.1 %	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	98.985 %	0.678 ppm	0.002 ppm	0.000 ppm
Concentration per Run 1	99.931 %	0.495 ppm	0.001 ppm	-0.001 ppm
Concentration per Run 2	98.399 %	0.862 ppm	0.002 ppm	0.000 ppm
Concentration per Run 3	98.624 %	0.679 ppm	0.001 ppm	0.000 ppm
Concentration RSD	0.8 %	27.0 %	12.6 %	110.7 %
Concentration SD	0.8 %	0.2 ppm	0.0 ppm	0.0 ppm

	Cu 324.754 {104} (Radial)
Concentration average	-0.005 ppm
Concentration per Run 1	-0.009 ppm
Concentration per Run 2	0.001 ppm
Concentration per Run 3	-0.006 ppm
Concentration RSD	114.7 %
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	6 cps	-1 cps	95 cps

	Ca 373.690 {90} (Radial)	Fe 259.940 {130} (Radial)	Fe 271.441 {124} (Radial)	K 766.490 {44} (Radial)
Intensity average	43 cps	23 cps	2 cps	73 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	1 cps	658 cps	24 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	2 cps	2 cps	17 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	5 cps	3 cps	13 cps	185 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	1 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	41 cps	4,604 cps	10,962 cps	3,685 cps

	Y 360.073 {94} (Axial)	Na 818.326 {41} (Radial)	Zn 206.200 {463} (Axial)	Cd 228.802 {447} (Axial)
Intensity average	170,989 cps	-89 cps	10 cps	3 cps

	Cu 324.754 {104} (Radial)
Intensity average	5 cps

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L729798-02 WG750950

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Dilution Factor 5

	Al 308.215 {109} (Radial)	B 249.678 {135} (Radial)	Be 313.042 {108} (Radial)
Concentration average	12.712 ppm	0.744 ppm	0.001 ppm
Concentration per Run 1	12.798 ppm	0.761 ppm	0.002 ppm
Concentration per Run 2	13.204 ppm	0.694 ppm	0.000 ppm
Concentration per Run 3	12.133 ppm	0.777 ppm	0.002 ppm
Concentration RSD	4.3 %	5.9 %	65.5 %
Concentration SD	0.5 ppm	0.0 ppm	0.0 ppm

	Ca 317.933 {106} (Radial)	Ca 373.690 {90} (Radial)	Fe 259.940 {130} (Radial)
Concentration average	1,280.758 ppm	1,362.564 ppm	18.988 ppm
Concentration per Run 1	1,280.117 ppm	1,364.683 ppm	19.008 ppm
Concentration per Run 2	1,286.040 ppm	1,365.476 ppm	18.951 ppm
Concentration per Run 3	1,276.117 ppm	1,357.532 ppm	19.006 ppm
Concentration RSD	0.4 %	0.3 %	0.2 %
Concentration SD	5.0 ppm	4.4 ppm	0.0 ppm

	Fe 271.441 {124} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	20.494 ppm	11.538 ppm	0.180 ppm
Concentration per Run 1	20.590 ppm	11.582 ppm	0.185 ppm
Concentration per Run 2	20.875 ppm	11.486 ppm	0.185 ppm
Concentration per Run 3	20.016 ppm	11.547 ppm	0.170 ppm
Concentration RSD	2.1 %	0.4 %	4.8 %
Concentration SD	0.4 ppm	0.0 ppm	0.0 ppm

	Mg 279.079 {121} (Radial)	Na 589.592 {57} (Radial)	Sr 421.552 {80} (Radial)
Concentration average	451.771 ppm	1,481.935 ppm	11.864 ppm
Concentration per Run 1	451.537 ppm	1,489.949 ppm	11.911 ppm
Concentration per Run 2	453.815 ppm	1,496.937 ppm	11.838 ppm
Concentration per Run 3	449.961 ppm	1,458.920 ppm	11.842 ppm
Concentration RSD	0.4 %	1.4 %	0.3 %
Concentration SD	1.9 ppm	20.2 ppm	0.0 ppm

	Ti 334.941 {101} (Radial)	V 292.402 {115} (Radial)	Co 228.616 {447} (Axial)
Concentration average	0.215 ppm	0.075 ppm	0.028 ppm
Concentration per Run 1	0.212 ppm	0.060 ppm	0.028 ppm
Concentration per Run 2	0.215 ppm	0.083 ppm	0.027 ppm
Concentration per Run 3	0.217 ppm	0.082 ppm	0.028 ppm
Concentration RSD	1.2 %	17.4 %	2.0 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm

	Ni 231.604 {446} (Axial)	Pb 220.353 {453} (Axial)	Sn 189.989 {478} (Axial)
Concentration average	0.088 ppm	0.054 ppm	-0.003 ppm
Concentration per Run 1	0.088 ppm	0.060 ppm	0.000 ppm

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	Ni 231.604 {446} (Axial)	Pb 220.353 {453} (Axial)	Sn 189.989 {478} (Axial)
Concentration per Run 2	0.088 ppm	0.060 ppm	-0.003 ppm
Concentration per Run 3	0.088 ppm	0.044 ppm	-0.005 ppm
Concentration RSD	0.3 %	17.3 %	98.8 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm

	Tl 190.856 {477} (Axial)	As 189.042 {478} (Axial)	Ba 233.527 {445} (Axial)
Concentration average	-0.004 ppm	0.008 ppm	0.176 ppm
Concentration per Run 1	-0.002 ppm	-0.003 ppm	0.177 ppm
Concentration per Run 2	-0.009 ppm	0.008 ppm	0.178 ppm
Concentration per Run 3	0.000 ppm	0.019 ppm	0.174 ppm
Concentration RSD	121.8 %	138.7 %	1.2 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm

	Mo 202.030 {467} (Axial)	S 182.034 {485} (Axial)	Si 251.611 {134} (Axial)
Concentration average	0.043 ppm	1,703.524 ppm	38.997 ppm
Concentration per Run 1	0.044 ppm	1,705.132 ppm	39.010 ppm
Concentration per Run 2	0.041 ppm	1,702.757 ppm	38.963 ppm
Concentration per Run 3	0.043 ppm	1,702.685 ppm	39.019 ppm
Concentration RSD	2.5 %	0.1 %	0.1 %
Concentration SD	0.0 ppm	1.4 ppm	0.0 ppm

	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)	Ag 328.068 {103} (Axial)
Concentration average	-0.004 ppm	0.008 ppm	-0.002 ppm
Concentration per Run 1	-0.008 ppm	-0.004 ppm	-0.002 ppm
Concentration per Run 2	-0.004 ppm	0.012 ppm	-0.002 ppm
Concentration per Run 3	0.000 ppm	0.017 ppm	-0.002 ppm
Concentration RSD	94.8 %	129.4 %	17.1 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm

	Cr 267.716 {126} (Axial)	Mn 257.610 {131} (Axial)	Y 360.073 {94} (Radial)
Concentration average	0.099 ppm	1.444 ppm	95.524 %
Concentration per Run 1	0.099 ppm	1.443 ppm	95.641 %
Concentration per Run 2	0.098 ppm	1.443 ppm	94.856 %
Concentration per Run 3	0.102 ppm	1.447 ppm	96.075 %
Concentration RSD	2.1 %	0.2 %	0.6 %
Concentration SD	0.0 ppm	0.0 ppm	0.6 %

	Y 224.306 {450} (Axial)	In 230.606 {446} (Axial)	Y 360.073 {94} (Axial)
Concentration average	88.232 %	77.941 %	84.959 %
Concentration per Run 1	88.067 %	77.921 %	84.876 %
Concentration per Run 2	88.227 %	78.000 %	85.055 %
Concentration per Run 3	88.402 %	77.904 %	84.948 %
Concentration RSD	0.2 %	0.1 %	0.1 %
Concentration SD	0.2 %	0.1 %	0.1 %

	Na 818.326 {41} (Radial)	Zn 206.200 {463} (Axial)	Cd 228.802 {447} (Axial)
Concentration average	1,610.062 ppm	0.262 ppm	0.003 ppm

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	Na 818.326 {41} (Radial)	Zn 206.200 {463} (Axial)	Cd 228.802 {447} (Axial)
Concentration per Run 1	1,615.173 ppm	0.262 ppm	0.004 ppm
Concentration per Run 2	1,607.500 ppm	0.259 ppm	0.003 ppm
Concentration per Run 3	1,607.512 ppm	0.264 ppm	0.004 ppm
Concentration RSD	0.3 %	1.0 %	17.1 %
Concentration SD	4.4 ppm	0.0 ppm	0.0 ppm

	Cu 324.754 {104} (Radial)
Concentration average	0.025 ppm
Concentration per Run 1	0.034 ppm
Concentration per Run 2	0.028 ppm
Concentration per Run 3	0.014 ppm
Concentration RSD	40.6 %
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	77 cps	23 cps	3 cps	103,069 cps

	Ca 373.690 {90} (Radial)	Fe 259.940 {130} (Radial)	Fe 271.441 {124} (Radial)	K 766.490 {44} (Radial)
Intensity average	45,755 cps	912 cps	60 cps	1,103 cps

	Li 670.784 {50} (Radial)	Mg 279.079 {121} (Radial)	Na 589.592 {57} (Radial)	Sr 421.552 {80} (Radial)
Intensity average	331 cps	3,269 cps	426,299 cps	62,211 cps

	Ti 334.941 {101} (Radial)	V 292.402 {115} (Radial)	Co 228.616 {447} (Axial)	Ni 231.604 {446} (Axial)
Intensity average	72 cps	7 cps	15 cps	36 cps

	Pb 220.353 {453} (Axial)	Sn 189.989 {478} (Axial)	Tl 190.856 {477} (Axial)	As 189.042 {478} (Axial)
Intensity average	6 cps	1 cps	-4 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	226 cps	32 cps	68,789 cps	15,744 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	-7 cps	126 cps

	Mn 257.610 {131} (Axial)	Y 360.073 {94} (Radial)	Y 224.306 {450} (Axial)	In 230.606 {446} (Axial)
Intensity average	12,643 cps	4,400 cps	9,589 cps	2,909 cps

	Y 360.073 {94} (Axial)	Na 818.326 {41} (Radial)	Zn 206.200 {463} (Axial)	Cd 228.802 {447} (Axial)
Intensity average	146,761 cps	22,794 cps	181 cps	7 cps

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	Cu 324.754 {104} (Radial)
Intensity average	10 cps

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	Al 308.215 {109} (Radial)	B 249.678 {135} (Radial)	Be 313.042 {108} (Radial)
Concentration average	24.875 ppm	0.735 ppm	0.007 ppm
Concentration per Run 1	25.202 ppm	0.715 ppm	0.007 ppm
Concentration per Run 2	24.956 ppm	0.767 ppm	0.007 ppm
Concentration per Run 3	24.467 ppm	0.724 ppm	0.007 ppm
Concentration RSD	1.5 %	3.8 %	2.5 %
Concentration SD	0.4 ppm	0.0 ppm	0.0 ppm

	Ca 317.933 {106} (Radial)	Ca 373.690 {90} (Radial)	Fe 259.940 {130} (Radial)
Concentration average	2,035.401 ppm	2,176.554 ppm	42.970 ppm
Concentration per Run 1	2,037.544 ppm	2,178.280 ppm	42.934 ppm
Concentration per Run 2	2,031.375 ppm	2,171.980 ppm	42.819 ppm
Concentration per Run 3	2,037.285 ppm	2,179.401 ppm	43.157 ppm
Concentration RSD	0.2 %	0.2 %	0.4 %
Concentration SD	3.5 ppm	4.0 ppm	0.2 ppm

	Fe 271.441 {124} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	46.748 ppm	13.547 ppm	0.226 ppm
Concentration per Run 1	46.623 ppm	13.361 ppm	0.228 ppm
Concentration per Run 2	46.892 ppm	13.569 ppm	0.224 ppm
Concentration per Run 3	46.729 ppm	13.711 ppm	0.226 ppm
Concentration RSD	0.3 %	1.3 %	0.8 %
Concentration SD	0.1 ppm	0.2 ppm	0.0 ppm

	Mg 279.079 {121} (Radial)	Na 589.592 {57} (Radial)	Sr 421.552 {80} (Radial)
Concentration average	484.544 ppm	1,467.527 ppm	14.958 ppm
Concentration per Run 1	483.772 ppm	1,466.216 ppm	15.017 ppm
Concentration per Run 2	483.298 ppm	1,459.238 ppm	14.909 ppm
Concentration per Run 3	486.562 ppm	1,477.126 ppm	14.947 ppm
Concentration RSD	0.4 %	0.6 %	0.4 %
Concentration SD	1.8 ppm	9.0 ppm	0.1 ppm

	Ti 334.941 {101} (Radial)	V 292.402 {115} (Radial)	Co 228.616 {447} (Axial)
Concentration average	0.225 ppm	0.243 ppm	0.069 ppm
Concentration per Run 1	0.237 ppm	0.232 ppm	0.071 ppm
Concentration per Run 2	0.227 ppm	0.244 ppm	0.067 ppm
Concentration per Run 3	0.210 ppm	0.255 ppm	0.068 ppm
Concentration RSD	6.0 %	4.7 %	2.7 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm

	Ni 231.604 {446} (Axial)	Pb 220.353 {453} (Axial)	Sn 189.989 {478} (Axial)
Concentration average	0.098 ppm	0.106 ppm	-0.002 ppm
Concentration per Run 1	0.097 ppm	0.105 ppm	-0.003 ppm

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	Ni 231.604 {446} (Axial)	Pb 220.353 {453} (Axial)	Sn 189.989 {478} (Axial)
Concentration per Run 2	0.097 ppm	0.109 ppm	0.001 ppm
Concentration per Run 3	0.099 ppm	0.104 ppm	-0.004 ppm
Concentration RSD	1.2 %	2.5 %	124.9 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm

	Tl 190.856 {477} (Axial)	As 189.042 {478} (Axial)	Ba 233.527 {445} (Axial)
Concentration average	-0.014 ppm	0.029 ppm	0.272 ppm
Concentration per Run 1	-0.023 ppm	0.036 ppm	0.272 ppm
Concentration per Run 2	-0.017 ppm	0.018 ppm	0.270 ppm
Concentration per Run 3	-0.002 ppm	0.034 ppm	0.273 ppm
Concentration RSD	75.9 %	34.2 %	0.6 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm

	Mo 202.030 {467} (Axial)	S 182.034 {485} (Axial)	Si 251.611 {134} (Axial)
Concentration average	0.060 ppm	1,178.949 ppm	47.597 ppm
Concentration per Run 1	0.061 ppm	1,178.887 ppm	47.565 ppm
Concentration per Run 2	0.057 ppm	1,175.366 ppm	47.574 ppm
Concentration per Run 3	0.061 ppm	1,182.594 ppm	47.652 ppm
Concentration RSD	3.2 %	0.3 %	0.1 %
Concentration SD	0.0 ppm	3.6 ppm	0.0 ppm

	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)	Ag 328.068 {103} (Axial)
Concentration average	-0.003 ppm	0.015 ppm	-0.001 ppm
Concentration per Run 1	-0.011 ppm	0.019 ppm	-0.002 ppm
Concentration per Run 2	-0.003 ppm	0.003 ppm	-0.001 ppm
Concentration per Run 3	0.006 ppm	0.024 ppm	-0.001 ppm
Concentration RSD	325.6 %	71.0 %	12.6 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm

	Cr 267.716 {126} (Axial)	Mn 257.610 {131} (Axial)	Y 360.073 {94} (Radial)
Concentration average	0.312 ppm	4.149 ppm	95.399 %
Concentration per Run 1	0.309 ppm	4.143 ppm	95.293 %
Concentration per Run 2	0.317 ppm	4.155 ppm	95.444 %
Concentration per Run 3	0.310 ppm	4.149 ppm	95.460 %
Concentration RSD	1.5 %	0.1 %	0.1 %
Concentration SD	0.0 ppm	0.0 ppm	0.1 %

	Y 224.306 {450} (Axial)	In 230.606 {446} (Axial)	Y 360.073 {94} (Axial)
Concentration average	87.052 %	75.982 %	84.244 %
Concentration per Run 1	86.950 %	75.923 %	84.233 %
Concentration per Run 2	87.406 %	76.305 %	84.193 %
Concentration per Run 3	86.801 %	75.717 %	84.306 %
Concentration RSD	0.4 %	0.4 %	0.1 %
Concentration SD	0.3 %	0.3 %	0.1 %

	Na 818.326 {41} (Radial)	Zn 206.200 {463} (Axial)	Cd 228.802 {447} (Axial)
Concentration average	1,601.871 ppm	0.254 ppm	0.005 ppm

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	Na 818.326 {41} (Radial)	Zn 206.200 {463} (Axial)	Cd 228.802 {447} (Axial)
Concentration per Run 1	1,608.450 ppm	0.253 ppm	0.006 ppm
Concentration per Run 2	1,595.594 ppm	0.253 ppm	0.005 ppm
Concentration per Run 3	1,601.569 ppm	0.256 ppm	0.006 ppm
Concentration RSD	0.4 %	0.6 %	7.0 %
Concentration SD	6.4 ppm	0.0 ppm	0.0 ppm

	Cu 324.754 {104} (Radial)
Concentration average	0.083 ppm
Concentration per Run 1	0.069 ppm
Concentration per Run 2	0.106 ppm
Concentration per Run 3	0.074 ppm
Concentration RSD	24.6 %
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	146 cps	23 cps	17 cps	163,561 cps

	Ca 373.690 {90} (Radial)	Fe 259.940 {130} (Radial)	Fe 271.441 {124} (Radial)	K 766.490 {44} (Radial)
Intensity average	72,982 cps	2,047 cps	136 cps	1,287 cps

	Li 670.784 {50} (Radial)	Mg 279.079 {121} (Radial)	Na 589.592 {57} (Radial)	Sr 421.552 {80} (Radial)
Intensity average	417 cps	3,502 cps	421,623 cps	78,337 cps

	Ti 334.941 {101} (Radial)	V 292.402 {115} (Radial)	Co 228.616 {447} (Axial)	Ni 231.604 {446} (Axial)
Intensity average	76 cps	19 cps	35 cps	39 cps

	Pb 220.353 {453} (Axial)	Sn 189.989 {478} (Axial)	Tl 190.856 {477} (Axial)	As 189.042 {478} (Axial)
Intensity average	13 cps	1 cps	-5 cps	0 cps

	Ba 233.527 {445} (Axial)	Mo 202.030 {467} (Axial)	S 182.034 {485} (Axial)	Si 251.611 {134} (Axial)
Intensity average	343 cps	42 cps	46,971 cps	19,051 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	3 cps	-6 cps	363 cps

	Mn 257.610 {131} (Axial)	Y 360.073 {94} (Radial)	Y 224.306 {450} (Axial)	In 230.606 {446} (Axial)
Intensity average	35,999 cps	4,394 cps	9,461 cps	2,835 cps

	Y 360.073 {94} (Axial)	Na 818.326 {41} (Radial)	Zn 206.200 {463} (Axial)	Cd 228.802 {447} (Axial)
Intensity average	145,526 cps	22,648 cps	173 cps	9 cps

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	Cu 324.754 {104} (Radial)
Intensity average	16 cps

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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	9.603 ppm	1.827 ppm	0.185 ppm	44.962 ppm
Concentration per Run 1	9.297 ppm	1.761 ppm	0.179 ppm	43.783 ppm
Concentration per Run 2	9.658 ppm	1.839 ppm	0.186 ppm	44.991 ppm
Concentration per Run 3	9.855 ppm	1.881 ppm	0.190 ppm	46.110 ppm
Concentration RSD	2.9 %	3.3 %	2.9 %	2.6 %
Concentration SD	0.3 ppm	0.1 ppm	0.0 ppm	1.2 ppm

	Ca 373.690 {90} (Radial)	Fe 259.940 {130} (Radial)	Fe 271.441 {124} (Radial)	K 766.490 {44} (Radial)
Concentration average	46.811 ppm	8.964 ppm	9.738 ppm	42.690 ppm
Concentration per Run 1	45.665 ppm	8.703 ppm	9.502 ppm	41.578 ppm
Concentration per Run 2	46.730 ppm	8.990 ppm	9.773 ppm	42.790 ppm
Concentration per Run 3	48.038 ppm	9.198 ppm	9.939 ppm	43.702 ppm
Concentration RSD	2.5 %	2.8 %	2.3 %	2.5 %
Concentration SD	1.2 ppm	0.2 ppm	0.2 ppm	1.1 ppm

	Li 670.784 {50} (Radial)	Mg 279.079 {121} (Radial)	Na 589.592 {57} (Radial)	Sr 421.552 {80} (Radial)
Concentration average	1.395 ppm	8.828 ppm	44.421 ppm	0.920 ppm
Concentration per Run 1	1.353 ppm	8.614 ppm	43.178 ppm	0.892 ppm
Concentration per Run 2	1.403 ppm	8.838 ppm	44.524 ppm	0.924 ppm
Concentration per Run 3	1.431 ppm	9.032 ppm	45.560 ppm	0.943 ppm
Concentration RSD	2.8 %	2.4 %	2.7 %	2.8 %
Concentration SD	0.0 ppm	0.2 ppm	1.2 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	0.939 ppm	0.927 ppm	0.973 ppm	1.965 ppm
Concentration per Run 1	0.909 ppm	0.900 ppm	0.974 ppm	1.966 ppm
Concentration per Run 2	0.943 ppm	0.938 ppm	0.970 ppm	1.962 ppm
Concentration per Run 3	0.965 ppm	0.944 ppm	0.974 ppm	1.966 ppm
Concentration RSD	3.0 %	2.5 %	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	0.496 ppm	1.925 ppm	1.929 ppm	1.920 ppm
Concentration per Run 1	0.497 ppm	1.928 ppm	1.934 ppm	1.921 ppm
Concentration per Run 2	0.496 ppm	1.922 ppm	1.925 ppm	1.915 ppm
Concentration per Run 3	0.496 ppm	1.924 ppm	1.928 ppm	1.923 ppm
Concentration RSD	0.1 %	0.2 %	0.3 %	0.2 %
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	0.476 ppm	0.485 ppm	4.458 ppm	1.903 ppm
Concentration per Run 1	0.476 ppm	0.485 ppm	4.459 ppm	1.902 ppm
Concentration per Run 2	0.475 ppm	0.484 ppm	4.464 ppm	1.902 ppm
Concentration per Run 3	0.476 ppm	0.485 ppm	4.451 ppm	1.904 ppm
Concentration RSD	0.1 %	0.2 %	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	1.939 ppm	2.019 ppm	0.985 ppm	0.971 ppm
Concentration per Run 1	1.934 ppm	2.012 ppm	0.983 ppm	0.971 ppm
Concentration per Run 2	1.932 ppm	2.016 ppm	0.984 ppm	0.969 ppm
Concentration per Run 3	1.952 ppm	2.027 ppm	0.987 ppm	0.974 ppm
Concentration RSD	0.6 %	0.4 %	0.2 %	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	0.994 ppm	101.131 %	95.821 %	88.645 %
Concentration per Run 1	0.993 ppm	102.739 %	95.806 %	88.578 %
Concentration per Run 2	0.994 ppm	101.618 %	95.943 %	88.767 %
Concentration per Run 3	0.993 ppm	99.037 %	95.714 %	88.589 %
Concentration RSD	0.1 %	1.9 %	0.1 %	0.1 %
Concentration SD	0.0 ppm	1.9 %	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	92.602 %	44.282 ppm	2.861 ppm	0.521 ppm
Concentration per Run 1	92.572 %	43.268 ppm	2.866 ppm	0.521 ppm
Concentration per Run 2	92.715 %	44.235 ppm	2.859 ppm	0.521 ppm
Concentration per Run 3	92.520 %	45.341 ppm	2.858 ppm	0.522 ppm
Concentration RSD	0.1 %	2.3 %	0.1 %	0.1 %
Concentration SD	0.1 %	1.0 ppm	0.0 ppm	0.0 ppm

	Cu 324.754 {104} (Radial)
Concentration average	1.818 ppm
Concentration per Run 1	1.759 ppm
Concentration per Run 2	1.825 ppm
Concentration per Run 3	1.871 ppm
Concentration RSD	3.1 %
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	326 cps	330 cps	2,478 cps	21,312 cps

	Ca 373.690 {90} (Radial)	Fe 259.940 {130} (Radial)	Fe 271.441 {124} (Radial)	K 766.490 {44} (Radial)
Intensity average	9,259 cps	2,512 cps	166 cps	23,293 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	15,524 cps	377 cps	75,198 cps	28,348 cps

	Ti 334.941 {101} (Radial)	V 292.402 {115} (Radial)	Co 228.616 {447} (Axial)	Ni 231.604 {446} (Axial)
Intensity average	1,896 cps	397 cps	3,244 cps	4,816 cps

	Pb 220.353 {453} (Axial)	Sn 189.989 {478} (Axial)	Tl 190.856 {477} (Axial)	As 189.042 {478} (Axial)
Intensity average	403 cps	1,974 cps	1,228 cps	816 cps

	Ba 233.527 {445} (Axial)	Mo 202.030 {467} (Axial)	S 182.034 {485} (Axial)	Si 251.611 {134} (Axial)
Intensity average	3,642 cps	1,961 cps	1,092 cps	4,662 cps

	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)	Ag 328.068 {103} (Axial)	Cr 267.716 {126} (Axial)
Intensity average	1,176 cps	712 cps	8,268 cps	6,666 cps

	Mn 257.610 {131} (Axial)	Y 360.073 {94} (Radial)	Y 224.306 {450} (Axial)	In 230.606 {446} (Axial)
Intensity average	52,639 cps	4,658 cps	10,414 cps	3,308 cps

	Y 360.073 {94} (Axial)	Na 818.326 {41} (Radial)	Zn 206.200 {463} (Axial)	Cd 228.802 {447} (Axial)
Intensity average	159,964 cps	3,567 cps	11,737 cps	2,767 cps

	Cu 324.754 {104} (Radial)
Intensity average	1,161 cps

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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	-0.002 ppm	0.003 ppm	0.000 ppm	-0.014 ppm
Concentration per Run 1	-0.009 ppm	0.001 ppm	0.000 ppm	-0.015 ppm
Concentration per Run 2	-0.010 ppm	0.005 ppm	0.000 ppm	-0.011 ppm
Concentration per Run 3	0.014 ppm	0.003 ppm	0.000 ppm	-0.016 ppm
Concentration RSD	834.4 %	68.2 %	392.8 %	20.1 %
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	-0.035 ppm	-0.005 ppm	-0.052 ppm	0.026 ppm
Concentration per Run 1	-0.023 ppm	-0.005 ppm	-0.113 ppm	0.025 ppm
Concentration per Run 2	-0.051 ppm	-0.005 ppm	-0.069 ppm	0.026 ppm
Concentration per Run 3	-0.032 ppm	-0.006 ppm	0.025 ppm	0.025 ppm
Concentration RSD	40.7 %	4.6 %	134.7 %	2.7 %
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	-0.034 ppm	0.002 ppm	0.000 ppm
Concentration per Run 1	-0.001 ppm	0.022 ppm	0.009 ppm	0.000 ppm
Concentration per Run 2	0.001 ppm	-0.101 ppm	-0.001 ppm	0.000 ppm
Concentration per Run 3	0.000 ppm	-0.023 ppm	-0.003 ppm	0.000 ppm
Concentration RSD	414.2 %	183.5 %	378.8 %	183.0 %
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	0.000 ppm	-0.003 ppm	0.000 ppm	0.000 ppm
Concentration per Run 1	0.000 ppm	-0.001 ppm	0.000 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	-0.007 ppm	0.000 ppm	0.000 ppm
Concentration RSD	43.7 %	99.7 %	58.7 %	191.8 %
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	0.000 ppm	0.000 ppm	0.000 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	0.001 ppm	-0.001 ppm	0.001 ppm
Concentration per Run 3	0.000 ppm	0.000 ppm	0.000 ppm	0.001 ppm
Concentration RSD	176.4 %	113.9 %	160.1 %	80.6 %
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	0.000 ppm	0.000 ppm	-0.006 ppm	0.001 ppm
Concentration per Run 1	0.000 ppm	0.000 ppm	-0.007 ppm	0.000 ppm
Concentration per Run 2	0.000 ppm	0.000 ppm	-0.005 ppm	0.001 ppm
Concentration per Run 3	0.000 ppm	0.000 ppm	-0.006 ppm	0.003 ppm
Concentration RSD	180.5 %	121.3 %	17.1 %	102.3 %
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	0.000 ppm	-0.001 ppm	0.000 ppm	0.000 ppm
Concentration per Run 1	-0.001 ppm	-0.003 ppm	0.000 ppm	0.000 ppm
Concentration per Run 2	0.001 ppm	-0.001 ppm	0.000 ppm	0.001 ppm
Concentration per Run 3	-0.001 ppm	0.001 ppm	0.001 ppm	0.001 ppm
Concentration RSD	4,823.4 %	253.4 %	122.1 %	127.4 %
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	0.000 ppm	99.398 %	101.298 %	100.936 %
Concentration per Run 1	0.000 ppm	98.971 %	101.269 %	100.896 %
Concentration per Run 2	0.000 ppm	100.301 %	101.198 %	100.795 %
Concentration per Run 3	0.000 ppm	98.922 %	101.425 %	101.116 %
Concentration RSD	81.9 %	0.8 %	0.1 %	0.2 %
Concentration SD	0.0 ppm	0.8 %	0.1 %	0.2 %

	Y 360.073 {94} (Axial)	Na 818.326 {41} (Radial)	Zn 206.200 {463} (Axial)	Cd 228.802 {447} (Axial)
Concentration average	98.922 %	0.099 ppm	0.000 ppm	0.000 ppm
Concentration per Run 1	99.004 %	0.105 ppm	0.001 ppm	0.000 ppm
Concentration per Run 2	98.920 %	0.111 ppm	0.000 ppm	0.000 ppm
Concentration per Run 3	98.843 %	0.082 ppm	0.000 ppm	0.000 ppm
Concentration RSD	0.1 %	15.7 %	47.8 %	552.7 %
Concentration SD	0.1 %	0.0 ppm	0.0 ppm	0.0 ppm

	Cu 324.754 {104} (Radial)
Concentration average	-0.006 ppm
Concentration per Run 1	-0.009 ppm
Concentration per Run 2	-0.001 ppm
Concentration per Run 3	-0.007 ppm
Concentration RSD	67.5 %
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	1 cps	0 cps	39 cps

	Ca 373.690 {90} (Radial)	Fe 259.940 {130} (Radial)	Fe 271.441 {124} (Radial)	K 766.490 {44} (Radial)
Intensity average	13 cps	10 cps	0 cps	49 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	-8 cps	0 cps	75 cps	-3 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	0 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	2 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	3 cps	3 cps	5 cps	20 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	2 cps	-1 cps	19 cps

	Mn 257.610 {131} (Axial)	Y 360.073 {94} (Radial)	Y 224.306 {450} (Axial)	In 230.606 {446} (Axial)
Intensity average	16 cps	4,579 cps	11,009 cps	3,767 cps

	Y 360.073 {94} (Axial)	Na 818.326 {41} (Radial)	Zn 206.200 {463} (Axial)	Cd 228.802 {447} (Axial)
Intensity average	170,881 cps	-130 cps	5 cps	5 cps

	Cu 324.754 {104} (Radial)
Intensity average	4 cps

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	Al 308.215 {109} (Radial)	B 249.678 {135} (Radial)	Be 313.042 {108} (Radial)
Concentration average	21.829 ppm	0.490 ppm	0.006 ppm
Concentration per Run 1	21.398 ppm	0.497 ppm	0.006 ppm
Concentration per Run 2	21.852 ppm	0.527 ppm	0.006 ppm
Concentration per Run 3	22.236 ppm	0.446 ppm	0.006 ppm
Concentration RSD	1.9 %	8.3 %	6.5 %
Concentration SD	0.4 ppm	0.0 ppm	0.0 ppm

	Ca 317.933 {106} (Radial)	Ca 373.690 {90} (Radial)	Fe 259.940 {130} (Radial)
Concentration average	3,724.918 ppm	4,059.655 ppm	15.921 ppm
Concentration per Run 1	3,724.269 ppm	4,056.711 ppm	15.879 ppm
Concentration per Run 2	3,720.239 ppm	4,055.126 ppm	15.938 ppm
Concentration per Run 3	3,730.247 ppm	4,067.130 ppm	15.947 ppm
Concentration RSD	0.1 %	0.2 %	0.2 %
Concentration SD	5.0 ppm	6.5 ppm	0.0 ppm

	Fe 271.441 {124} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	17.815 ppm	13.288 ppm	0.233 ppm
Concentration per Run 1	17.612 ppm	13.323 ppm	0.231 ppm
Concentration per Run 2	17.921 ppm	13.236 ppm	0.236 ppm
Concentration per Run 3	17.910 ppm	13.305 ppm	0.232 ppm
Concentration RSD	1.0 %	0.3 %	1.1 %
Concentration SD	0.2 ppm	0.0 ppm	0.0 ppm

	Mg 279.079 {121} (Radial)	Na 589.592 {57} (Radial)	Sr 421.552 {80} (Radial)
Concentration average	451.278 ppm	1,364.722 ppm	18.772 ppm
Concentration per Run 1	450.282 ppm	1,354.669 ppm	18.769 ppm
Concentration per Run 2	449.531 ppm	1,369.820 ppm	18.766 ppm
Concentration per Run 3	454.020 ppm	1,369.676 ppm	18.782 ppm
Concentration RSD	0.5 %	0.6 %	0.0 %
Concentration SD	2.4 ppm	8.7 ppm	0.0 ppm

	Ti 334.941 {101} (Radial)	V 292.402 {115} (Radial)	Co 228.616 {447} (Axial)
Concentration average	0.318 ppm	0.173 ppm	0.043 ppm
Concentration per Run 1	0.316 ppm	0.169 ppm	0.042 ppm
Concentration per Run 2	0.321 ppm	0.172 ppm	0.043 ppm
Concentration per Run 3	0.316 ppm	0.177 ppm	0.044 ppm
Concentration RSD	0.9 %	2.4 %	1.7 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm

	Ni 231.604 {446} (Axial)	Pb 220.353 {453} (Axial)	Sn 189.989 {478} (Axial)
Concentration average	0.047 ppm	0.101 ppm	-0.001 ppm
Concentration per Run 1	0.046 ppm	0.107 ppm	-0.003 ppm

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	Ni 231.604 {446} (Axial)	Pb 220.353 {453} (Axial)	Sn 189.989 {478} (Axial)
Concentration per Run 2	0.047 ppm	0.102 ppm	0.002 ppm
Concentration per Run 3	0.049 ppm	0.095 ppm	-0.001 ppm
Concentration RSD	3.5 %	5.7 %	388.0 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm

	Tl 190.856 {477} (Axial)	As 189.042 {478} (Axial)	Ba 233.527 {445} (Axial)
Concentration average	-0.009 ppm	0.021 ppm	0.422 ppm
Concentration per Run 1	-0.004 ppm	0.009 ppm	0.422 ppm
Concentration per Run 2	-0.007 ppm	0.031 ppm	0.421 ppm
Concentration per Run 3	-0.015 ppm	0.023 ppm	0.423 ppm
Concentration RSD	64.7 %	52.0 %	0.3 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm

	Mo 202.030 {467} (Axial)	S 182.034 {485} (Axial)	Si 251.611 {134} (Axial)
Concentration average	0.010 ppm	638.023 ppm	49.907 ppm
Concentration per Run 1	0.011 ppm	637.581 ppm	50.014 ppm
Concentration per Run 2	0.008 ppm	638.584 ppm	49.889 ppm
Concentration per Run 3	0.011 ppm	637.904 ppm	49.819 ppm
Concentration RSD	16.5 %	0.1 %	0.2 %
Concentration SD	0.0 ppm	0.5 ppm	0.1 ppm

	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)	Ag 328.068 {103} (Axial)
Concentration average	-0.010 ppm	0.029 ppm	-0.005 ppm
Concentration per Run 1	-0.001 ppm	0.025 ppm	-0.007 ppm
Concentration per Run 2	-0.013 ppm	0.038 ppm	-0.004 ppm
Concentration per Run 3	-0.016 ppm	0.025 ppm	-0.004 ppm
Concentration RSD	81.7 %	25.0 %	30.4 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm

	Cr 267.716 {126} (Axial)	Mn 257.610 {131} (Axial)	Y 360.073 {94} (Radial)
Concentration average	0.088 ppm	5.117 ppm	94.943 %
Concentration per Run 1	0.087 ppm	5.134 ppm	94.956 %
Concentration per Run 2	0.089 ppm	5.110 ppm	95.128 %
Concentration per Run 3	0.087 ppm	5.108 ppm	94.745 %
Concentration RSD	1.5 %	0.3 %	0.2 %
Concentration SD	0.0 ppm	0.0 ppm	0.2 %

	Y 224.306 {450} (Axial)	In 230.606 {446} (Axial)	Y 360.073 {94} (Axial)
Concentration average	85.954 %	73.495 %	82.907 %
Concentration per Run 1	85.921 %	73.529 %	82.738 %
Concentration per Run 2	85.990 %	73.462 %	82.960 %
Concentration per Run 3	85.951 %	73.494 %	83.024 %
Concentration RSD	0.0 %	0.0 %	0.2 %
Concentration SD	0.0 %	0.0 %	0.2 %

	Na 818.326 {41} (Radial)	Zn 206.200 {463} (Axial)	Cd 228.802 {447} (Axial)
Concentration average	1,439.389 ppm	0.125 ppm	0.008 ppm

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	Na 818.326 {41} (Radial)	Zn 206.200 {463} (Axial)	Cd 228.802 {447} (Axial)
Concentration per Run 1	1,435.792 ppm	0.125 ppm	0.009 ppm
Concentration per Run 2	1,439.026 ppm	0.126 ppm	0.008 ppm
Concentration per Run 3	1,443.350 ppm	0.124 ppm	0.008 ppm
Concentration RSD	0.3 %	0.7 %	9.9 %
Concentration SD	3.8 ppm	0.0 ppm	0.0 ppm

	Cu 324.754 {104} (Radial)
Concentration average	0.020 ppm
Concentration per Run 1	0.019 ppm
Concentration per Run 2	0.040 ppm
Concentration per Run 3	0.001 ppm
Concentration RSD	98.7 %
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	128 cps	15 cps	14 cps	297,860 cps

	Ca 373.690 {90} (Radial)	Fe 259.940 {130} (Radial)	Fe 271.441 {124} (Radial)	K 766.490 {44} (Radial)
Intensity average	135,456 cps	762 cps	52 cps	1,257 cps

	Li 670.784 {50} (Radial)	Mg 279.079 {121} (Radial)	Na 589.592 {57} (Radial)	Sr 421.552 {80} (Radial)
Intensity average	428 cps	3,246 cps	390,217 cps	97,843 cps

	Ti 334.941 {101} (Radial)	V 292.402 {115} (Radial)	Co 228.616 {447} (Axial)	Ni 231.604 {446} (Axial)
Intensity average	107 cps	14 cps	22 cps	19 cps

	Pb 220.353 {453} (Axial)	Sn 189.989 {478} (Axial)	Tl 190.856 {477} (Axial)	As 189.042 {478} (Axial)
Intensity average	12 cps	1 cps	-4 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	524 cps	9 cps	25,102 cps	19,658 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	4 cps	-11 cps	110 cps

	Mn 257.610 {131} (Axial)	Y 360.073 {94} (Radial)	Y 224.306 {450} (Axial)	In 230.606 {446} (Axial)
Intensity average	43,694 cps	4,373 cps	9,342 cps	2,743 cps

	Y 360.073 {94} (Axial)	Na 818.326 {41} (Radial)	Zn 206.200 {463} (Axial)	Cd 228.802 {447} (Axial)
Intensity average	143,216 cps	20,240 cps	86 cps	11 cps

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

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L729800-01 WG750950

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	Al 308.215 {109} (Radial)	B 249.678 {135} (Radial)	Be 313.042 {108} (Radial)
Concentration average	8.339 ppm	0.266 ppm	0.000 ppm
Concentration per Run 1	8.168 ppm	0.231 ppm	0.000 ppm
Concentration per Run 2	8.325 ppm	0.278 ppm	0.000 ppm
Concentration per Run 3	8.524 ppm	0.287 ppm	0.001 ppm
Concentration RSD	2.1 %	11.3 %	137.8 %
Concentration SD	0.2 ppm	0.0 ppm	0.0 ppm

	Ca 317.933 {106} (Radial)	Ca 373.690 {90} (Radial)	Fe 259.940 {130} (Radial)
Concentration average	1,013.775 ppm	1,071.168 ppm	9.200 ppm
Concentration per Run 1	1,010.494 ppm	1,069.599 ppm	9.189 ppm
Concentration per Run 2	1,014.703 ppm	1,073.319 ppm	9.224 ppm
Concentration per Run 3	1,016.127 ppm	1,070.584 ppm	9.187 ppm
Concentration RSD	0.3 %	0.2 %	0.2 %
Concentration SD	2.9 ppm	1.9 ppm	0.0 ppm

	Fe 271.441 {124} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	10.050 ppm	11.500 ppm	0.174 ppm
Concentration per Run 1	9.807 ppm	11.535 ppm	0.180 ppm
Concentration per Run 2	9.952 ppm	11.611 ppm	0.175 ppm
Concentration per Run 3	10.390 ppm	11.354 ppm	0.167 ppm
Concentration RSD	3.0 %	1.1 %	3.7 %
Concentration SD	0.3 ppm	0.1 ppm	0.0 ppm

	Mg 279.079 {121} (Radial)	Na 589.592 {57} (Radial)	Sr 421.552 {80} (Radial)
Concentration average	532.292 ppm	1,832.890 ppm	16.188 ppm
Concentration per Run 1	530.353 ppm	1,821.313 ppm	16.252 ppm
Concentration per Run 2	532.280 ppm	1,831.075 ppm	16.195 ppm
Concentration per Run 3	534.244 ppm	1,846.282 ppm	16.118 ppm
Concentration RSD	0.4 %	0.7 %	0.4 %
Concentration SD	1.9 ppm	12.6 ppm	0.1 ppm

	Ti 334.941 {101} (Radial)	V 292.402 {115} (Radial)	Co 228.616 {447} (Axial)
Concentration average	0.216 ppm	0.021 ppm	0.016 ppm
Concentration per Run 1	0.215 ppm	0.004 ppm	0.017 ppm
Concentration per Run 2	0.209 ppm	0.014 ppm	0.016 ppm
Concentration per Run 3	0.222 ppm	0.045 ppm	0.015 ppm
Concentration RSD	3.0 %	100.1 %	5.3 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm

	Ni 231.604 {446} (Axial)	Pb 220.353 {453} (Axial)	Sn 189.989 {478} (Axial)
Concentration average	0.032 ppm	0.025 ppm	-0.003 ppm
Concentration per Run 1	0.032 ppm	0.026 ppm	-0.009 ppm

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	Ni 231.604 {446} (Axial)	Pb 220.353 {453} (Axial)	Sn 189.989 {478} (Axial)
Concentration per Run 2	0.035 ppm	0.027 ppm	0.002 ppm
Concentration per Run 3	0.030 ppm	0.023 ppm	-0.002 ppm
Concentration RSD	8.8 %	9.1 %	188.5 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm

	Tl 190.856 {477} (Axial)	As 189.042 {478} (Axial)	Ba 233.527 {445} (Axial)
Concentration average	-0.012 ppm	0.004 ppm	0.133 ppm
Concentration per Run 1	-0.008 ppm	0.003 ppm	0.134 ppm
Concentration per Run 2	-0.018 ppm	-0.002 ppm	0.132 ppm
Concentration per Run 3	-0.010 ppm	0.010 ppm	0.132 ppm
Concentration RSD	43.1 %	156.4 %	1.2 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm

	Mo 202.030 {467} (Axial)	S 182.034 {485} (Axial)	Si 251.611 {134} (Axial)
Concentration average	0.037 ppm	1,214.599 ppm	35.537 ppm
Concentration per Run 1	0.037 ppm	1,217.602 ppm	35.658 ppm
Concentration per Run 2	0.037 ppm	1,213.503 ppm	35.365 ppm
Concentration per Run 3	0.036 ppm	1,212.694 ppm	35.587 ppm
Concentration RSD	1.5 %	0.2 %	0.4 %
Concentration SD	0.0 ppm	2.6 ppm	0.2 ppm

	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)	Ag 328.068 {103} (Axial)
Concentration average	0.006 ppm	0.028 ppm	-0.003 ppm
Concentration per Run 1	0.010 ppm	0.029 ppm	-0.001 ppm
Concentration per Run 2	0.004 ppm	0.018 ppm	-0.002 ppm
Concentration per Run 3	0.005 ppm	0.035 ppm	-0.007 ppm
Concentration RSD	50.1 %	32.1 %	97.2 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm

	Cr 267.716 {126} (Axial)	Mn 257.610 {131} (Axial)	Y 360.073 {94} (Radial)
Concentration average	0.033 ppm	0.665 ppm	95.362 %
Concentration per Run 1	0.032 ppm	0.666 ppm	95.459 %
Concentration per Run 2	0.032 ppm	0.665 ppm	95.479 %
Concentration per Run 3	0.037 ppm	0.664 ppm	95.148 %
Concentration RSD	8.2 %	0.2 %	0.2 %
Concentration SD	0.0 ppm	0.0 ppm	0.2 %

	Y 224.306 {450} (Axial)	In 230.606 {446} (Axial)	Y 360.073 {94} (Axial)
Concentration average	88.041 %	77.787 %	84.502 %
Concentration per Run 1	87.753 %	77.622 %	84.250 %
Concentration per Run 2	88.422 %	78.051 %	84.621 %
Concentration per Run 3	87.948 %	77.688 %	84.634 %
Concentration RSD	0.4 %	0.3 %	0.3 %
Concentration SD	0.3 %	0.2 %	0.2 %

	Na 818.326 {41} (Radial)	Zn 206.200 {463} (Axial)	Cd 228.802 {447} (Axial)
Concentration average	2,058.944 ppm	0.097 ppm	0.002 ppm

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	Na 818.326 {41} (Radial)	Zn 206.200 {463} (Axial)	Cd 228.802 {447} (Axial)
Concentration per Run 1	2,063.496 ppm	0.100 ppm	0.003 ppm
Concentration per Run 2	2,061.386 ppm	0.096 ppm	0.002 ppm
Concentration per Run 3	2,051.950 ppm	0.095 ppm	0.001 ppm
Concentration RSD	0.3 %	2.6 %	61.6 %
Concentration SD	6.1 ppm	0.0 ppm	0.0 ppm

	Cu 324.754 {104} (Radial)
Concentration average	0.012 ppm
Concentration per Run 1	0.044 ppm
Concentration per Run 2	0.003 ppm
Concentration per Run 3	-0.012 ppm
Concentration RSD	250.3 %
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	52 cps	9 cps	1 cps	81,455 cps

	Ca 373.690 {90} (Radial)	Fe 259.940 {130} (Radial)	Fe 271.441 {124} (Radial)	K 766.490 {44} (Radial)
Intensity average	35,913 cps	447 cps	30 cps	1,097 cps

	Li 670.784 {50} (Radial)	Mg 279.079 {121} (Radial)	Na 589.592 {57} (Radial)	Sr 421.552 {80} (Radial)
Intensity average	319 cps	3,845 cps	526,368 cps	84,748 cps

	Ti 334.941 {101} (Radial)	V 292.402 {115} (Radial)	Co 228.616 {447} (Axial)	Ni 231.604 {446} (Axial)
Intensity average	72 cps	3 cps	9 cps	14 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	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	171 cps	28 cps	48,941 cps	14,271 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	4 cps	-9 cps	51 cps

	Mn 257.610 {131} (Axial)	Y 360.073 {94} (Radial)	Y 224.306 {450} (Axial)	In 230.606 {446} (Axial)
Intensity average	5,796 cps	4,393 cps	9,568 cps	2,903 cps

	Y 360.073 {94} (Axial)	Na 818.326 {41} (Radial)	Zn 206.200 {463} (Axial)	Cd 228.802 {447} (Axial)
Intensity average	145,971 cps	29,137 cps	69 cps	6 cps

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

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MS L729800-01 WG750950

Sample Type UNKNOWN Analysis Date 10/29/2014 11:47:15 AM

Dilution Factor 5

	Al 308.215 {109} (Radial)	B 249.678 {135} (Radial)	Be 313.042 {108} (Radial)
Concentration average	12.073 ppm	0.276 ppm	0.001 ppm
Concentration per Run 1	12.197 ppm	0.296 ppm	0.001 ppm
Concentration per Run 2	12.300 ppm	0.223 ppm	0.002 ppm
Concentration per Run 3	11.723 ppm	0.308 ppm	0.001 ppm
Concentration RSD	2.6 %	16.8 %	60.3 %
Concentration SD	0.3 ppm	0.0 ppm	0.0 ppm

	Ca 317.933 {106} (Radial)	Ca 373.690 {90} (Radial)	Fe 259.940 {130} (Radial)
Concentration average	1,119.702 ppm	1,191.684 ppm	21.968 ppm
Concentration per Run 1	1,119.107 ppm	1,190.042 ppm	22.053 ppm
Concentration per Run 2	1,118.238 ppm	1,190.874 ppm	21.952 ppm
Concentration per Run 3	1,121.762 ppm	1,194.135 ppm	21.900 ppm
Concentration RSD	0.2 %	0.2 %	0.4 %
Concentration SD	1.8 ppm	2.2 ppm	0.1 ppm

	Fe 271.441 {124} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	23.547 ppm	14.110 ppm	0.190 ppm
Concentration per Run 1	23.291 ppm	14.100 ppm	0.194 ppm
Concentration per Run 2	23.343 ppm	14.116 ppm	0.190 ppm
Concentration per Run 3	24.006 ppm	14.114 ppm	0.185 ppm
Concentration RSD	1.7 %	0.1 %	2.5 %
Concentration SD	0.4 ppm	0.0 ppm	0.0 ppm

	Mg 279.079 {121} (Radial)	Na 589.592 {57} (Radial)	Sr 421.552 {80} (Radial)
Concentration average	528.878 ppm	1,863.662 ppm	16.687 ppm
Concentration per Run 1	528.900 ppm	1,866.952 ppm	16.662 ppm
Concentration per Run 2	527.849 ppm	1,851.280 ppm	16.714 ppm
Concentration per Run 3	529.884 ppm	1,872.753 ppm	16.686 ppm
Concentration RSD	0.2 %	0.6 %	0.2 %
Concentration SD	1.0 ppm	11.1 ppm	0.0 ppm

	Ti 334.941 {101} (Radial)	V 292.402 {115} (Radial)	Co 228.616 {447} (Axial)
Concentration average	0.202 ppm	0.053 ppm	0.028 ppm
Concentration per Run 1	0.194 ppm	0.039 ppm	0.026 ppm
Concentration per Run 2	0.211 ppm	0.046 ppm	0.029 ppm
Concentration per Run 3	0.201 ppm	0.073 ppm	0.028 ppm
Concentration RSD	4.3 %	34.4 %	6.6 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm

	Ni 231.604 {446} (Axial)	Pb 220.353 {453} (Axial)	Sn 189.989 {478} (Axial)
Concentration average	0.053 ppm	0.036 ppm	-0.004 ppm
Concentration per Run 1	0.056 ppm	0.033 ppm	-0.005 ppm

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	Ni 231.604 {446} (Axial)	Pb 220.353 {453} (Axial)	Sn 189.989 {478} (Axial)
Concentration per Run 2	0.050 ppm	0.038 ppm	-0.002 ppm
Concentration per Run 3	0.054 ppm	0.036 ppm	-0.004 ppm
Concentration RSD	5.9 %	6.6 %	36.4 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm

	Tl 190.856 {477} (Axial)	As 189.042 {478} (Axial)	Ba 233.527 {445} (Axial)
Concentration average	-0.007 ppm	0.011 ppm	0.143 ppm
Concentration per Run 1	-0.005 ppm	0.015 ppm	0.143 ppm
Concentration per Run 2	-0.005 ppm	0.003 ppm	0.143 ppm
Concentration per Run 3	-0.012 ppm	0.013 ppm	0.142 ppm
Concentration RSD	51.3 %	58.4 %	0.6 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm

	Mo 202.030 {467} (Axial)	S 182.034 {485} (Axial)	Si 251.611 {134} (Axial)
Concentration average	0.039 ppm	980.253 ppm	36.693 ppm
Concentration per Run 1	0.039 ppm	979.372 ppm	36.801 ppm
Concentration per Run 2	0.038 ppm	983.045 ppm	36.696 ppm
Concentration per Run 3	0.040 ppm	978.341 ppm	36.582 ppm
Concentration RSD	2.7 %	0.3 %	0.3 %
Concentration SD	0.0 ppm	2.5 ppm	0.1 ppm

	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)	Ag 328.068 {103} (Axial)
Concentration average	-0.006 ppm	0.040 ppm	-0.004 ppm
Concentration per Run 1	-0.003 ppm	0.028 ppm	-0.008 ppm
Concentration per Run 2	-0.007 ppm	0.051 ppm	-0.001 ppm
Concentration per Run 3	-0.007 ppm	0.040 ppm	-0.004 ppm
Concentration RSD	43.4 %	29.8 %	89.9 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm

	Cr 267.716 {126} (Axial)	Mn 257.610 {131} (Axial)	Y 360.073 {94} (Radial)
Concentration average	0.168 ppm	1.918 ppm	95.790 %
Concentration per Run 1	0.168 ppm	1.920 ppm	95.555 %
Concentration per Run 2	0.169 ppm	1.916 ppm	96.201 %
Concentration per Run 3	0.167 ppm	1.918 ppm	95.615 %
Concentration RSD	0.5 %	0.1 %	0.4 %
Concentration SD	0.0 ppm	0.0 ppm	0.4 %

	Y 224.306 {450} (Axial)	In 230.606 {446} (Axial)	Y 360.073 {94} (Axial)
Concentration average	88.049 %	77.201 %	84.082 %
Concentration per Run 1	88.295 %	77.386 %	83.923 %
Concentration per Run 2	87.537 %	76.875 %	84.021 %
Concentration per Run 3	88.314 %	77.342 %	84.302 %
Concentration RSD	0.5 %	0.4 %	0.2 %
Concentration SD	0.4 %	0.3 %	0.2 %

	Na 818.326 {41} (Radial)	Zn 206.200 {463} (Axial)	Cd 228.802 {447} (Axial)
Concentration average	2,131.291 ppm	0.140 ppm	0.002 ppm

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	Na 818.326 {41} (Radial)	Zn 206.200 {463} (Axial)	Cd 228.802 {447} (Axial)
Concentration per Run 1	2,127.425 ppm	0.141 ppm	0.002 ppm
Concentration per Run 2	2,133.253 ppm	0.140 ppm	0.002 ppm
Concentration per Run 3	2,133.196 ppm	0.140 ppm	0.003 ppm
Concentration RSD	0.2 %	0.4 %	11.0 %
Concentration SD	3.3 ppm	0.0 ppm	0.0 ppm

	Cu 324.754 {104} (Radial)
Concentration average	0.038 ppm
Concentration per Run 1	0.037 ppm
Concentration per Run 2	0.049 ppm
Concentration per Run 3	0.029 ppm
Concentration RSD	26.2 %
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	74 cps	9 cps	3 cps	90,366 cps

	Ca 373.690 {90} (Radial)	Fe 259.940 {130} (Radial)	Fe 271.441 {124} (Radial)	K 766.490 {44} (Radial)
Intensity average	40,131 cps	1,056 cps	69 cps	1,345 cps

	Li 670.784 {50} (Radial)	Mg 279.079 {121} (Radial)	Na 589.592 {57} (Radial)	Sr 421.552 {80} (Radial)
Intensity average	350 cps	3,838 cps	537,604 cps	87,752 cps

	Ti 334.941 {101} (Radial)	V 292.402 {115} (Radial)	Co 228.616 {447} (Axial)	Ni 231.604 {446} (Axial)
Intensity average	68 cps	5 cps	15 cps	22 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	0 cps	-4 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	183 cps	29 cps	39,503 cps	14,661 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	4 cps	-10 cps	201 cps

	Mn 257.610 {131} (Axial)	Y 360.073 {94} (Radial)	Y 224.306 {450} (Axial)	In 230.606 {446} (Axial)
Intensity average	16,614 cps	4,412 cps	9,569 cps	2,881 cps

	Y 360.073 {94} (Axial)	Na 818.326 {41} (Radial)	Zn 206.200 {463} (Axial)	Cd 228.802 {447} (Axial)
Intensity average	145,245 cps	30,300 cps	98 cps	6 cps

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	Cu 324.754 {104} (Radial)
Intensity average	11 cps

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MSD L729800-01 WG750950

Sample Type UNKNOWN Analysis Date 10/29/2014 11:51:48 AM

Dilution Factor 5

	Al 308.215 {109} (Radial)	B 249.678 {135} (Radial)	Be 313.042 {108} (Radial)
Concentration average	12.471 ppm	0.326 ppm	0.000 ppm
Concentration per Run 1	11.992 ppm	0.371 ppm	0.001 ppm
Concentration per Run 2	12.638 ppm	0.310 ppm	0.001 ppm
Concentration per Run 3	12.782 ppm	0.298 ppm	0.000 ppm
Concentration RSD	3.4 %	12.0 %	108.1 %
Concentration SD	0.4 ppm	0.0 ppm	0.0 ppm

	Ca 317.933 {106} (Radial)	Ca 373.690 {90} (Radial)	Fe 259.940 {130} (Radial)
Concentration average	1,366.781 ppm	1,454.025 ppm	17.387 ppm
Concentration per Run 1	1,371.472 ppm	1,460.340 ppm	17.560 ppm
Concentration per Run 2	1,371.777 ppm	1,456.793 ppm	17.364 ppm
Concentration per Run 3	1,357.095 ppm	1,444.941 ppm	17.236 ppm
Concentration RSD	0.6 %	0.6 %	0.9 %
Concentration SD	8.4 ppm	8.1 ppm	0.2 ppm

	Fe 271.441 {124} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	18.942 ppm	13.398 ppm	0.196 ppm
Concentration per Run 1	19.191 ppm	13.465 ppm	0.201 ppm
Concentration per Run 2	18.601 ppm	13.424 ppm	0.191 ppm
Concentration per Run 3	19.034 ppm	13.304 ppm	0.194 ppm
Concentration RSD	1.6 %	0.6 %	2.7 %
Concentration SD	0.3 ppm	0.1 ppm	0.0 ppm

	Mg 279.079 {121} (Radial)	Na 589.592 {57} (Radial)	Sr 421.552 {80} (Radial)
Concentration average	538.214 ppm	1,879.020 ppm	17.802 ppm
Concentration per Run 1	540.320 ppm	1,876.791 ppm	17.940 ppm
Concentration per Run 2	540.521 ppm	1,909.603 ppm	17.765 ppm
Concentration per Run 3	533.800 ppm	1,850.665 ppm	17.702 ppm
Concentration RSD	0.7 %	1.6 %	0.7 %
Concentration SD	3.8 ppm	29.5 ppm	0.1 ppm

	Ti 334.941 {101} (Radial)	V 292.402 {115} (Radial)	Co 228.616 {447} (Axial)
Concentration average	0.242 ppm	0.032 ppm	0.024 ppm
Concentration per Run 1	0.249 ppm	0.030 ppm	0.025 ppm
Concentration per Run 2	0.240 ppm	-0.010 ppm	0.023 ppm
Concentration per Run 3	0.237 ppm	0.075 ppm	0.023 ppm
Concentration RSD	2.5 %	134.4 %	5.8 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm

	Ni 231.604 {446} (Axial)	Pb 220.353 {453} (Axial)	Sn 189.989 {478} (Axial)
Concentration average	0.063 ppm	0.031 ppm	-0.002 ppm
Concentration per Run 1	0.063 ppm	0.027 ppm	-0.002 ppm

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	Ni 231.604 {446} (Axial)	Pb 220.353 {453} (Axial)	Sn 189.989 {478} (Axial)
Concentration per Run 2	0.063 ppm	0.037 ppm	-0.003 ppm
Concentration per Run 3	0.062 ppm	0.029 ppm	0.000 ppm
Concentration RSD	1.6 %	17.2 %	108.5 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm

	Tl 190.856 {477} (Axial)	As 189.042 {478} (Axial)	Ba 233.527 {445} (Axial)
Concentration average	-0.007 ppm	0.008 ppm	0.149 ppm
Concentration per Run 1	-0.014 ppm	0.003 ppm	0.151 ppm
Concentration per Run 2	-0.003 ppm	0.005 ppm	0.148 ppm
Concentration per Run 3	-0.005 ppm	0.016 ppm	0.149 ppm
Concentration RSD	82.1 %	83.4 %	0.9 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm

	Mo 202.030 {467} (Axial)	S 182.034 {485} (Axial)	Si 251.611 {134} (Axial)
Concentration average	0.046 ppm	1,419.560 ppm	43.019 ppm
Concentration per Run 1	0.047 ppm	1,422.397 ppm	42.680 ppm
Concentration per Run 2	0.046 ppm	1,418.815 ppm	43.305 ppm
Concentration per Run 3	0.046 ppm	1,417.467 ppm	43.072 ppm
Concentration RSD	0.8 %	0.2 %	0.7 %
Concentration SD	0.0 ppm	2.5 ppm	0.3 ppm

	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)	Ag 328.068 {103} (Axial)
Concentration average	-0.014 ppm	0.036 ppm	-0.005 ppm
Concentration per Run 1	-0.005 ppm	0.023 ppm	-0.008 ppm
Concentration per Run 2	-0.022 ppm	0.058 ppm	-0.005 ppm
Concentration per Run 3	-0.015 ppm	0.028 ppm	-0.003 ppm
Concentration RSD	59.0 %	52.7 %	51.7 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm

	Cr 267.716 {126} (Axial)	Mn 257.610 {131} (Axial)	Y 360.073 {94} (Radial)
Concentration average	0.087 ppm	1.129 ppm	94.392 %
Concentration per Run 1	0.087 ppm	1.118 ppm	94.318 %
Concentration per Run 2	0.088 ppm	1.137 ppm	93.416 %
Concentration per Run 3	0.087 ppm	1.131 ppm	95.443 %
Concentration RSD	0.8 %	0.9 %	1.1 %
Concentration SD	0.0 ppm	0.0 ppm	1.0 %

	Y 224.306 {450} (Axial)	In 230.606 {446} (Axial)	Y 360.073 {94} (Axial)
Concentration average	86.798 %	76.276 %	83.193 %
Concentration per Run 1	86.781 %	76.257 %	83.749 %
Concentration per Run 2	86.627 %	76.081 %	82.754 %
Concentration per Run 3	86.987 %	76.488 %	83.077 %
Concentration RSD	0.2 %	0.3 %	0.6 %
Concentration SD	0.2 %	0.2 %	0.5 %

	Na 818.326 {41} (Radial)	Zn 206.200 {463} (Axial)	Cd 228.802 {447} (Axial)
Concentration average	2,139.638 ppm	0.236 ppm	0.002 ppm

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	Na 818.326 {41} (Radial)	Zn 206.200 {463} (Axial)	Cd 228.802 {447} (Axial)
Concentration per Run 1	2,150.163 ppm	0.234 ppm	0.001 ppm
Concentration per Run 2	2,138.031 ppm	0.238 ppm	0.002 ppm
Concentration per Run 3	2,130.719 ppm	0.234 ppm	0.002 ppm
Concentration RSD	0.5 %	1.0 %	25.1 %
Concentration SD	9.8 ppm	0.0 ppm	0.0 ppm

	Cu 324.754 {104} (Radial)
Concentration average	0.017 ppm
Concentration per Run 1	0.024 ppm
Concentration per Run 2	0.004 ppm
Concentration per Run 3	0.023 ppm
Concentration RSD	64.8 %
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	75 cps	10 cps	1 cps	108,683 cps

	Ca 373.690 {90} (Radial)	Fe 259.940 {130} (Radial)	Fe 271.441 {124} (Radial)	K 766.490 {44} (Radial)
Intensity average	48,245 cps	826 cps	55 cps	1,260 cps

	Li 670.784 {50} (Radial)	Mg 279.079 {121} (Radial)	Na 589.592 {57} (Radial)	Sr 421.552 {80} (Radial)
Intensity average	356 cps	3,848 cps	534,072 cps	92,249 cps

	Ti 334.941 {101} (Radial)	V 292.402 {115} (Radial)	Co 228.616 {447} (Axial)	Ni 231.604 {446} (Axial)
Intensity average	81 cps	4 cps	12 cps	25 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	1 cps	-4 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	189 cps	34 cps	56,392 cps	17,005 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	4 cps	-11 cps	110 cps

	Mn 257.610 {131} (Axial)	Y 360.073 {94} (Radial)	Y 224.306 {450} (Axial)	In 230.606 {446} (Axial)
Intensity average	9,675 cps	4,348 cps	9,433 cps	2,846 cps

	Y 360.073 {94} (Axial)	Na 818.326 {41} (Radial)	Zn 206.200 {463} (Axial)	Cd 228.802 {447} (Axial)
Intensity average	143,710 cps	29,975 cps	161 cps	5 cps

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

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L729875-01 WG750950

Sample Type UNKNOWN Analysis Date 10/29/2014 11:56:21 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	0.815 ppm	0.270 ppm	0.000 ppm	210.765 ppm
Concentration per Run 1	0.786 ppm	0.281 ppm	0.000 ppm	212.159 ppm
Concentration per Run 2	0.801 ppm	0.263 ppm	0.000 ppm	210.455 ppm
Concentration per Run 3	0.859 ppm	0.267 ppm	0.000 ppm	209.681 ppm
Concentration RSD	4.7 %	3.5 %	541.9 %	0.6 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	1.3 ppm

	Ca 373.690 {90} (Radial)	Fe 259.940 {130} (Radial)	Fe 271.441 {124} (Radial)	K 766.490 {44} (Radial)
Concentration average	222.559 ppm	0.590 ppm	0.678 ppm	3.930 ppm
Concentration per Run 1	224.395 ppm	0.585 ppm	0.628 ppm	3.939 ppm
Concentration per Run 2	221.370 ppm	0.585 ppm	0.863 ppm	3.934 ppm
Concentration per Run 3	221.911 ppm	0.600 ppm	0.541 ppm	3.918 ppm
Concentration RSD	0.7 %	1.5 %	24.6 %	0.3 %
Concentration SD	1.6 ppm	0.0 ppm	0.2 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	0.048 ppm	27.295 ppm	51.860 ppm	4.043 ppm
Concentration per Run 1	0.049 ppm	27.485 ppm	52.181 ppm	4.076 ppm
Concentration per Run 2	0.048 ppm	27.262 ppm	51.498 ppm	4.004 ppm
Concentration per Run 3	0.048 ppm	27.139 ppm	51.900 ppm	4.048 ppm
Concentration RSD	1.3 %	0.6 %	0.7 %	0.9 %
Concentration SD	0.0 ppm	0.2 ppm	0.3 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	0.025 ppm	-0.004 ppm	0.002 ppm	0.007 ppm
Concentration per Run 1	0.024 ppm	0.000 ppm	0.002 ppm	0.007 ppm
Concentration per Run 2	0.024 ppm	-0.003 ppm	0.002 ppm	0.007 ppm
Concentration per Run 3	0.027 ppm	-0.010 ppm	0.002 ppm	0.006 ppm
Concentration RSD	4.9 %	116.1 %	6.4 %	3.6 %
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	-0.001 ppm	0.002 ppm	0.004 ppm
Concentration per Run 1	0.005 ppm	0.000 ppm	0.001 ppm	0.003 ppm
Concentration per Run 2	0.005 ppm	-0.002 ppm	0.001 ppm	0.006 ppm
Concentration per Run 3	0.005 ppm	-0.001 ppm	0.003 ppm	0.002 ppm
Concentration RSD	7.7 %	86.2 %	62.3 %	51.3 %
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	0.125 ppm	0.002 ppm	66.264 ppm	9.275 ppm
Concentration per Run 1	0.125 ppm	0.002 ppm	66.244 ppm	9.253 ppm
Concentration per Run 2	0.125 ppm	0.002 ppm	66.292 ppm	9.323 ppm
Concentration per Run 3	0.125 ppm	0.002 ppm	66.257 ppm	9.249 ppm
Concentration RSD	0.2 %	4.6 %	0.0 %	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	-0.003 ppm	0.013 ppm	-0.001 ppm	0.002 ppm
Concentration per Run 1	-0.002 ppm	0.011 ppm	-0.001 ppm	0.003 ppm
Concentration per Run 2	-0.003 ppm	0.013 ppm	0.001 ppm	0.002 ppm
Concentration per Run 3	-0.003 ppm	0.013 ppm	-0.001 ppm	0.002 ppm
Concentration RSD	32.0 %	9.9 %	171.4 %	11.8 %
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	0.219 ppm	97.743 %	92.761 %	84.369 %
Concentration per Run 1	0.218 ppm	97.402 %	92.851 %	84.425 %
Concentration per Run 2	0.220 ppm	97.852 %	92.742 %	84.366 %
Concentration per Run 3	0.218 ppm	97.974 %	92.690 %	84.315 %
Concentration RSD	0.5 %	0.3 %	0.1 %	0.1 %
Concentration SD	0.0 ppm	0.3 %	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	89.778 %	52.067 ppm	0.006 ppm	0.000 ppm
Concentration per Run 1	89.888 %	52.535 ppm	0.006 ppm	0.000 ppm
Concentration per Run 2	89.374 %	51.648 ppm	0.005 ppm	0.000 ppm
Concentration per Run 3	90.072 %	52.017 ppm	0.006 ppm	0.000 ppm
Concentration RSD	0.4 %	0.9 %	3.3 %	235.9 %
Concentration SD	0.4 %	0.4 ppm	0.0 ppm	0.0 ppm

	Cu 324.754 {104} (Radial)
Concentration average	-0.002 ppm
Concentration per Run 1	-0.002 ppm
Concentration per Run 2	-0.003 ppm
Concentration per Run 3	-0.001 ppm
Concentration RSD	49.0 %
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	29 cps	43 cps	1 cps	86,785 cps

	Ca 373.690 {90} (Radial)	Fe 259.940 {130} (Radial)	Fe 271.441 {124} (Radial)	K 766.490 {44} (Radial)
Intensity average	38,239 cps	155 cps	11 cps	1,897 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	459 cps	1,011 cps	76,385 cps	108,461 cps

	Ti 334.941 {101} (Radial)	V 292.402 {115} (Radial)	Co 228.616 {447} (Axial)	Ni 231.604 {446} (Axial)
Intensity average	43 cps	0 cps	5 cps	16 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	0 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	835 cps	9 cps	14,070 cps	19,782 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	6 cps	-8 cps	29 cps

	Mn 257.610 {131} (Axial)	Y 360.073 {94} (Radial)	Y 224.306 {450} (Axial)	In 230.606 {446} (Axial)
Intensity average	10,116 cps	4,502 cps	10,081 cps	3,148 cps

	Y 360.073 {94} (Axial)	Na 818.326 {41} (Radial)	Zn 206.200 {463} (Axial)	Cd 228.802 {447} (Axial)
Intensity average	155,085 cps	3,657 cps	24 cps	4 cps

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

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L729875-02 WG750950

Sample Type UNKNOWN Analysis Date 10/29/2014 12:00:45 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	0.678 ppm	0.209 ppm	0.000 ppm	147.490 ppm
Concentration per Run 1	0.674 ppm	0.222 ppm	0.000 ppm	146.894 ppm
Concentration per Run 2	0.666 ppm	0.197 ppm	0.000 ppm	146.940 ppm
Concentration per Run 3	0.694 ppm	0.209 ppm	0.000 ppm	148.636 ppm
Concentration RSD	2.1 %	6.0 %	347.0 %	0.7 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	1.0 ppm

	Ca 373.690 {90} (Radial)	Fe 259.940 {130} (Radial)	Fe 271.441 {124} (Radial)	K 766.490 {44} (Radial)
Concentration average	154.776 ppm	0.423 ppm	0.459 ppm	7.821 ppm
Concentration per Run 1	154.234 ppm	0.421 ppm	0.297 ppm	7.753 ppm
Concentration per Run 2	154.115 ppm	0.423 ppm	0.545 ppm	7.798 ppm
Concentration per Run 3	155.978 ppm	0.424 ppm	0.535 ppm	7.911 ppm
Concentration RSD	0.7 %	0.3 %	30.6 %	1.0 %
Concentration SD	1.0 ppm	0.0 ppm	0.1 ppm	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	0.035 ppm	22.625 ppm	81.587 ppm	2.500 ppm
Concentration per Run 1	0.035 ppm	22.487 ppm	81.250 ppm	2.491 ppm
Concentration per Run 2	0.035 ppm	22.625 ppm	81.380 ppm	2.492 ppm
Concentration per Run 3	0.036 ppm	22.761 ppm	82.131 ppm	2.517 ppm
Concentration RSD	0.7 %	0.6 %	0.6 %	0.6 %
Concentration SD	0.0 ppm	0.1 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	0.026 ppm	-0.003 ppm	0.001 ppm	0.021 ppm
Concentration per Run 1	0.028 ppm	-0.004 ppm	0.002 ppm	0.022 ppm
Concentration per Run 2	0.026 ppm	-0.007 ppm	0.001 ppm	0.021 ppm
Concentration per Run 3	0.024 ppm	0.003 ppm	0.001 ppm	0.021 ppm
Concentration RSD	6.3 %	206.8 %	29.6 %	1.3 %
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	0.004 ppm	-0.001 ppm	0.002 ppm	0.002 ppm
Concentration per Run 1	0.003 ppm	-0.001 ppm	0.002 ppm	0.004 ppm
Concentration per Run 2	0.004 ppm	-0.002 ppm	0.003 ppm	0.001 ppm
Concentration per Run 3	0.004 ppm	-0.002 ppm	0.002 ppm	0.000 ppm
Concentration RSD	9.8 %	52.0 %	33.9 %	86.5 %
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	0.077 ppm	0.010 ppm	90.921 ppm	7.913 ppm
Concentration per Run 1	0.077 ppm	0.010 ppm	90.801 ppm	7.873 ppm
Concentration per Run 2	0.077 ppm	0.010 ppm	91.051 ppm	7.950 ppm
Concentration per Run 3	0.077 ppm	0.010 ppm	90.911 ppm	7.917 ppm
Concentration RSD	0.1 %	0.6 %	0.1 %	0.5 %
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	-0.002 ppm	0.017 ppm	-0.001 ppm	0.000 ppm
Concentration per Run 1	-0.003 ppm	0.018 ppm	-0.001 ppm	0.000 ppm
Concentration per Run 2	-0.002 ppm	0.016 ppm	-0.001 ppm	0.000 ppm
Concentration per Run 3	-0.002 ppm	0.017 ppm	0.000 ppm	0.000 ppm
Concentration RSD	10.4 %	8.1 %	35.7 %	250.7 %
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	0.053 ppm	100.051 %	93.933 %	85.402 %
Concentration per Run 1	0.053 ppm	100.277 %	94.215 %	85.476 %
Concentration per Run 2	0.054 ppm	100.345 %	93.793 %	85.373 %
Concentration per Run 3	0.053 ppm	99.531 %	93.790 %	85.357 %
Concentration RSD	0.3 %	0.5 %	0.3 %	0.1 %
Concentration SD	0.0 ppm	0.5 %	0.2 %	0.1 %

	Y 360.073 {94} (Axial)	Na 818.326 {41} (Radial)	Zn 206.200 {463} (Axial)	Cd 228.802 {447} (Axial)
Concentration average	90.823 %	82.383 ppm	0.005 ppm	0.000 ppm
Concentration per Run 1	91.048 %	82.097 ppm	0.004 ppm	0.000 ppm
Concentration per Run 2	90.633 %	82.010 ppm	0.005 ppm	0.000 ppm
Concentration per Run 3	90.789 %	83.042 ppm	0.005 ppm	0.000 ppm
Concentration RSD	0.2 %	0.7 %	6.2 %	150.6 %
Concentration SD	0.2 %	0.6 ppm	0.0 ppm	0.0 ppm

	Cu 324.754 {104} (Radial)
Concentration average	-0.006 ppm
Concentration per Run 1	-0.008 ppm
Concentration per Run 2	-0.005 ppm
Concentration per Run 3	-0.006 ppm
Concentration RSD	28.6 %
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	25 cps	34 cps	0 cps	62,178 cps

	Ca 373.690 {90} (Radial)	Fe 259.940 {130} (Radial)	Fe 271.441 {124} (Radial)	K 766.490 {44} (Radial)
Intensity average	27,227 cps	117 cps	8 cps	3,830 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	340 cps	858 cps	122,966 cps	68,649 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	0 cps	4 cps	47 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	0 cps	-2 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	523 cps	39 cps	19,547 cps	17,076 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	7 cps	-8 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	2,504 cps	4,609 cps	10,209 cps	3,187 cps

	Y 360.073 {94} (Axial)	Na 818.326 {41} (Radial)	Zn 206.200 {463} (Axial)	Cd 228.802 {447} (Axial)
Intensity average	156,891 cps	6,004 cps	20 cps	4 cps

	Cu 324.754 {104} (Radial)
Intensity average	4 cps

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L729875-03 WG750950

Sample Type UNKNOWN Analysis Date 10/29/2014 12:05:09 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	0.620 ppm	0.284 ppm	0.000 ppm	258.299 ppm
Concentration per Run 1	0.651 ppm	0.290 ppm	0.000 ppm	259.105 ppm
Concentration per Run 2	0.564 ppm	0.293 ppm	0.000 ppm	259.680 ppm
Concentration per Run 3	0.644 ppm	0.268 ppm	0.000 ppm	256.113 ppm
Concentration RSD	7.8 %	4.8 %	151.6 %	0.7 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	1.9 ppm

	Ca 373.690 {90} (Radial)	Fe 259.940 {130} (Radial)	Fe 271.441 {124} (Radial)	K 766.490 {44} (Radial)
Concentration average	274.606 ppm	0.462 ppm	0.527 ppm	3.718 ppm
Concentration per Run 1	274.713 ppm	0.460 ppm	0.584 ppm	3.720 ppm
Concentration per Run 2	276.063 ppm	0.469 ppm	0.563 ppm	3.759 ppm
Concentration per Run 3	273.041 ppm	0.456 ppm	0.433 ppm	3.676 ppm
Concentration RSD	0.6 %	1.5 %	15.6 %	1.1 %
Concentration SD	1.5 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	0.051 ppm	43.665 ppm	95.832 ppm	3.695 ppm
Concentration per Run 1	0.052 ppm	43.868 ppm	95.898 ppm	3.695 ppm
Concentration per Run 2	0.050 ppm	43.909 ppm	96.522 ppm	3.719 ppm
Concentration per Run 3	0.050 ppm	43.219 ppm	95.075 ppm	3.673 ppm
Concentration RSD	1.6 %	0.9 %	0.8 %	0.6 %
Concentration SD	0.0 ppm	0.4 ppm	0.7 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	0.032 ppm	0.002 ppm	0.002 ppm	0.011 ppm
Concentration per Run 1	0.033 ppm	0.002 ppm	0.001 ppm	0.011 ppm
Concentration per Run 2	0.032 ppm	0.006 ppm	0.002 ppm	0.011 ppm
Concentration per Run 3	0.031 ppm	-0.003 ppm	0.002 ppm	0.011 ppm
Concentration RSD	2.2 %	266.6 %	25.3 %	4.0 %
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	0.004 ppm	-0.001 ppm	0.001 ppm	0.002 ppm
Concentration per Run 1	0.003 ppm	-0.001 ppm	0.002 ppm	0.002 ppm
Concentration per Run 2	0.005 ppm	-0.002 ppm	-0.001 ppm	0.004 ppm
Concentration per Run 3	0.005 ppm	0.000 ppm	0.002 ppm	0.001 ppm
Concentration RSD	20.6 %	61.4 %	177.9 %	69.6 %
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	0.039 ppm	0.003 ppm	226.553 ppm	8.526 ppm
Concentration per Run 1	0.039 ppm	0.003 ppm	226.508 ppm	8.482 ppm
Concentration per Run 2	0.039 ppm	0.003 ppm	226.607 ppm	8.484 ppm
Concentration per Run 3	0.039 ppm	0.003 ppm	226.543 ppm	8.612 ppm
Concentration RSD	0.4 %	11.6 %	0.0 %	0.9 %
Concentration SD	0.0 ppm	0.0 ppm	0.1 ppm	0.1 ppm

	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)	Ag 328.068 {103} (Axial)	Cr 267.716 {126} (Axial)
Concentration average	-0.003 ppm	0.007 ppm	-0.001 ppm	0.000 ppm
Concentration per Run 1	-0.002 ppm	0.008 ppm	-0.001 ppm	0.001 ppm
Concentration per Run 2	-0.004 ppm	0.006 ppm	-0.001 ppm	0.000 ppm
Concentration per Run 3	-0.004 ppm	0.006 ppm	-0.001 ppm	0.001 ppm
Concentration RSD	39.9 %	15.2 %	30.5 %	125.8 %
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	0.044 ppm	96.037 %	91.380 %	82.150 %
Concentration per Run 1	0.044 ppm	95.801 %	91.463 %	82.192 %
Concentration per Run 2	0.044 ppm	95.447 %	91.247 %	82.042 %
Concentration per Run 3	0.044 ppm	96.863 %	91.430 %	82.217 %
Concentration RSD	0.3 %	0.8 %	0.1 %	0.1 %
Concentration SD	0.0 ppm	0.7 %	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	87.816 %	96.559 ppm	0.004 ppm	0.000 ppm
Concentration per Run 1	88.213 %	96.676 ppm	0.004 ppm	0.000 ppm
Concentration per Run 2	87.856 %	97.186 ppm	0.004 ppm	0.000 ppm
Concentration per Run 3	87.379 %	95.816 ppm	0.004 ppm	0.000 ppm
Concentration RSD	0.5 %	0.7 %	3.3 %	291.7 %
Concentration SD	0.4 %	0.7 ppm	0.0 ppm	0.0 ppm

	Cu 324.754 {104} (Radial)
Concentration average	-0.003 ppm
Concentration per Run 1	-0.002 ppm
Concentration per Run 2	-0.006 ppm
Concentration per Run 3	-0.001 ppm
Concentration RSD	88.7 %
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	23 cps	44 cps	-1 cps	104,489 cps

	Ca 373.690 {90} (Radial)	Fe 259.940 {130} (Radial)	Fe 271.441 {124} (Radial)	K 766.490 {44} (Radial)
Intensity average	46,353 cps	121 cps	9 cps	1,766 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	473 cps	1,589 cps	138,626 cps	97,411 cps

	Ti 334.941 {101} (Radial)	V 292.402 {115} (Radial)	Co 228.616 {447} (Axial)	Ni 231.604 {446} (Axial)
Intensity average	54 cps	2 cps	4 cps	24 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	0 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	260 cps	14 cps	47,375 cps	17,787 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	4 cps	-9 cps	17 cps

	Mn 257.610 {131} (Axial)	Y 360.073 {94} (Radial)	Y 224.306 {450} (Axial)	In 230.606 {446} (Axial)
Intensity average	1,984 cps	4,424 cps	9,931 cps	3,066 cps

	Y 360.073 {94} (Axial)	Na 818.326 {41} (Radial)	Zn 206.200 {463} (Axial)	Cd 228.802 {447} (Axial)
Intensity average	151,696 cps	6,778 cps	18 cps	4 cps

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

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L729875-04 WG750950

Sample Type UNKNOWN Analysis Date 10/29/2014 12:09:35 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	0.652 ppm	0.309 ppm	0.000 ppm	303.101 ppm
Concentration per Run 1	0.668 ppm	0.309 ppm	0.000 ppm	301.662 ppm
Concentration per Run 2	0.625 ppm	0.310 ppm	0.000 ppm	303.940 ppm
Concentration per Run 3	0.664 ppm	0.307 ppm	0.000 ppm	303.702 ppm
Concentration RSD	3.7 %	0.6 %	76.3 %	0.4 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	1.3 ppm

	Ca 373.690 {90} (Radial)	Fe 259.940 {130} (Radial)	Fe 271.441 {124} (Radial)	K 766.490 {44} (Radial)
Concentration average	322.176 ppm	0.367 ppm	0.548 ppm	5.424 ppm
Concentration per Run 1	321.539 ppm	0.362 ppm	0.540 ppm	5.433 ppm
Concentration per Run 2	322.805 ppm	0.363 ppm	0.492 ppm	5.435 ppm
Concentration per Run 3	322.184 ppm	0.376 ppm	0.613 ppm	5.402 ppm
Concentration RSD	0.2 %	2.1 %	11.1 %	0.3 %
Concentration SD	0.6 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	0.052 ppm	47.252 ppm	125.067 ppm	4.445 ppm
Concentration per Run 1	0.051 ppm	46.911 ppm	125.363 ppm	4.460 ppm
Concentration per Run 2	0.052 ppm	47.327 ppm	125.204 ppm	4.448 ppm
Concentration per Run 3	0.052 ppm	47.518 ppm	124.635 ppm	4.427 ppm
Concentration RSD	0.9 %	0.7 %	0.3 %	0.4 %
Concentration SD	0.0 ppm	0.3 ppm	0.4 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	0.026 ppm	0.000 ppm	0.003 ppm	0.003 ppm
Concentration per Run 1	0.029 ppm	0.000 ppm	0.003 ppm	0.003 ppm
Concentration per Run 2	0.024 ppm	-0.001 ppm	0.003 ppm	0.003 ppm
Concentration per Run 3	0.026 ppm	0.001 ppm	0.003 ppm	0.003 ppm
Concentration RSD	9.7 %	2,750.7 %	5.2 %	1.9 %
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	-0.001 ppm	0.002 ppm	0.002 ppm
Concentration per Run 1	0.004 ppm	-0.001 ppm	0.004 ppm	0.002 ppm
Concentration per Run 2	0.005 ppm	-0.001 ppm	0.002 ppm	0.002 ppm
Concentration per Run 3	0.006 ppm	-0.001 ppm	0.001 ppm	0.001 ppm
Concentration RSD	12.9 %	37.5 %	69.5 %	15.5 %
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	0.048 ppm	0.005 ppm	299.066 ppm	8.722 ppm
Concentration per Run 1	0.048 ppm	0.005 ppm	297.494 ppm	8.737 ppm
Concentration per Run 2	0.049 ppm	0.005 ppm	299.870 ppm	8.724 ppm
Concentration per Run 3	0.048 ppm	0.005 ppm	299.835 ppm	8.705 ppm
Concentration RSD	0.7 %	0.4 %	0.5 %	0.2 %
Concentration SD	0.0 ppm	0.0 ppm	1.4 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	0.003 ppm	0.000 ppm	0.001 ppm
Concentration per Run 1	-0.001 ppm	0.003 ppm	-0.001 ppm	0.001 ppm
Concentration per Run 2	-0.003 ppm	0.004 ppm	0.000 ppm	0.001 ppm
Concentration per Run 3	-0.003 ppm	0.003 ppm	0.000 ppm	0.001 ppm
Concentration RSD	49.7 %	21.7 %	122.7 %	9.9 %
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	1.239 ppm	98.265 %	91.360 %	81.338 %
Concentration per Run 1	1.246 ppm	98.637 %	91.818 %	81.812 %
Concentration per Run 2	1.238 ppm	98.334 %	90.955 %	80.976 %
Concentration per Run 3	1.231 ppm	97.825 %	91.308 %	81.224 %
Concentration RSD	0.6 %	0.4 %	0.5 %	0.5 %
Concentration SD	0.0 ppm	0.4 %	0.4 %	0.4 %

	Y 360.073 {94} (Axial)	Na 818.326 {41} (Radial)	Zn 206.200 {463} (Axial)	Cd 228.802 {447} (Axial)
Concentration average	88.420 %	126.572 ppm	0.005 ppm	0.000 ppm
Concentration per Run 1	87.938 %	127.031 ppm	0.005 ppm	0.000 ppm
Concentration per Run 2	88.606 %	126.640 ppm	0.005 ppm	0.000 ppm
Concentration per Run 3	88.716 %	126.044 ppm	0.005 ppm	0.000 ppm
Concentration RSD	0.5 %	0.4 %	0.7 %	8,915.7 %
Concentration SD	0.4 %	0.5 ppm	0.0 ppm	0.0 ppm

	Cu 324.754 {104} (Radial)
Concentration average	-0.003 ppm
Concentration per Run 1	-0.001 ppm
Concentration per Run 2	-0.001 ppm
Concentration per Run 3	-0.006 ppm
Concentration RSD	101.8 %
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	24 cps	49 cps	1 cps	125,453 cps

	Ca 373.690 {90} (Radial)	Fe 259.940 {130} (Radial)	Fe 271.441 {124} (Radial)	K 766.490 {44} (Radial)
Intensity average	55,642 cps	101 cps	9 cps	2,619 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	495 cps	1,759 cps	185,100 cps	119,900 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	1 cps	7 cps	8 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	0 cps	-2 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	321 cps	22 cps	62,522 cps	18,321 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	3 cps	-7 cps	19 cps

	Mn 257.610 {131} (Axial)	Y 360.073 {94} (Radial)	Y 224.306 {450} (Axial)	In 230.606 {446} (Axial)
Intensity average	56,390 cps	4,526 cps	9,929 cps	3,035 cps

	Y 360.073 {94} (Axial)	Na 818.326 {41} (Radial)	Zn 206.200 {463} (Axial)	Cd 228.802 {447} (Axial)
Intensity average	152,739 cps	9,134 cps	22 cps	4 cps

	Cu 324.754 {104} (Radial)
Intensity average	6 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	1.272 ppm	0.220 ppm	0.000 ppm	107.986 ppm
Concentration per Run 1	1.203 ppm	0.226 ppm	0.000 ppm	107.647 ppm
Concentration per Run 2	1.292 ppm	0.224 ppm	0.000 ppm	108.593 ppm
Concentration per Run 3	1.322 ppm	0.211 ppm	0.000 ppm	107.718 ppm
Concentration RSD	4.9 %	3.7 %	72.5 %	0.5 %
Concentration SD	0.1 ppm	0.0 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	112.939 ppm	1.740 ppm	1.806 ppm	3.045 ppm
Concentration per Run 1	112.653 ppm	1.738 ppm	1.824 ppm	3.043 ppm
Concentration per Run 2	113.468 ppm	1.748 ppm	1.805 ppm	3.069 ppm
Concentration per Run 3	112.697 ppm	1.734 ppm	1.789 ppm	3.025 ppm
Concentration RSD	0.4 %	0.4 %	1.0 %	0.7 %
Concentration SD	0.5 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	0.036 ppm	22.566 ppm	117.006 ppm	1.123 ppm
Concentration per Run 1	0.034 ppm	22.555 ppm	116.611 ppm	1.118 ppm
Concentration per Run 2	0.037 ppm	22.683 ppm	117.955 ppm	1.130 ppm
Concentration per Run 3	0.036 ppm	22.459 ppm	116.451 ppm	1.119 ppm
Concentration RSD	3.5 %	0.5 %	0.7 %	0.6 %
Concentration SD	0.0 ppm	0.1 ppm	0.8 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	0.106 ppm	0.007 ppm	0.002 ppm	0.004 ppm
Concentration per Run 1	0.105 ppm	0.006 ppm	0.002 ppm	0.004 ppm
Concentration per Run 2	0.107 ppm	0.007 ppm	0.002 ppm	0.004 ppm
Concentration per Run 3	0.105 ppm	0.009 ppm	0.002 ppm	0.004 ppm
Concentration RSD	1.3 %	25.5 %	2.5 %	6.8 %
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	0.004 ppm	-0.001 ppm	0.003 ppm	0.001 ppm
Concentration per Run 1	0.004 ppm	0.000 ppm	0.003 ppm	0.003 ppm
Concentration per Run 2	0.003 ppm	-0.002 ppm	0.002 ppm	-0.002 ppm
Concentration per Run 3	0.004 ppm	-0.001 ppm	0.004 ppm	0.002 ppm
Concentration RSD	14.4 %	67.3 %	27.5 %	309.6 %
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	0.054 ppm	0.011 ppm	101.685 ppm	8.827 ppm
Concentration per Run 1	0.054 ppm	0.011 ppm	101.855 ppm	8.783 ppm
Concentration per Run 2	0.053 ppm	0.011 ppm	101.398 ppm	8.899 ppm
Concentration per Run 3	0.054 ppm	0.011 ppm	101.803 ppm	8.800 ppm
Concentration RSD	0.3 %	1.9 %	0.2 %	0.7 %
Concentration SD	0.0 ppm	0.0 ppm	0.3 ppm	0.1 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	0.009 ppm	0.000 ppm	0.004 ppm
Concentration per Run 1	-0.002 ppm	0.008 ppm	-0.002 ppm	0.004 ppm
Concentration per Run 2	-0.002 ppm	0.006 ppm	0.000 ppm	0.004 ppm
Concentration per Run 3	-0.001 ppm	0.011 ppm	0.000 ppm	0.004 ppm
Concentration RSD	24.2 %	29.6 %	226.2 %	10.8 %
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	0.081 ppm	95.706 %	93.656 %	84.754 %
Concentration per Run 1	0.080 ppm	96.064 %	93.609 %	84.615 %
Concentration per Run 2	0.081 ppm	95.317 %	93.803 %	84.929 %
Concentration per Run 3	0.080 ppm	95.737 %	93.556 %	84.719 %
Concentration RSD	0.6 %	0.4 %	0.1 %	0.2 %
Concentration SD	0.0 ppm	0.4 %	0.1 %	0.2 %

	Y 360.073 {94} (Axial)	Na 818.326 {41} (Radial)	Zn 206.200 {463} (Axial)	Cd 228.802 {447} (Axial)
Concentration average	89.312 %	118.538 ppm	0.008 ppm	0.000 ppm
Concentration per Run 1	89.577 %	118.225 ppm	0.008 ppm	0.000 ppm
Concentration per Run 2	88.685 %	119.096 ppm	0.008 ppm	0.000 ppm
Concentration per Run 3	89.674 %	118.292 ppm	0.008 ppm	0.000 ppm
Concentration RSD	0.6 %	0.4 %	2.2 %	113.3 %
Concentration SD	0.5 %	0.5 ppm	0.0 ppm	0.0 ppm

	Cu 324.754 {104} (Radial)
Concentration average	-0.002 ppm
Concentration per Run 1	-0.001 ppm
Concentration per Run 2	0.002 ppm
Concentration per Run 3	-0.005 ppm
Concentration RSD	212.8 %
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	41 cps	34 cps	-2 cps	43,559 cps

	Ca 373.690 {90} (Radial)	Fe 259.940 {130} (Radial)	Fe 271.441 {124} (Radial)	K 766.490 {44} (Radial)
Intensity average	19,010 cps	425 cps	27 cps	1,447 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	329 cps	819 cps	168,660 cps	29,485 cps

	Ti 334.941 {101} (Radial)	V 292.402 {115} (Radial)	Co 228.616 {447} (Axial)	Ni 231.604 {446} (Axial)
Intensity average	181 cps	4 cps	7 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	2 cps	0 cps	-2 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	364 cps	43 cps	21,796 cps	18,729 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	-7 cps	38 cps

	Mn 257.610 {131} (Axial)	Y 360.073 {94} (Radial)	Y 224.306 {450} (Axial)	In 230.606 {446} (Axial)
Intensity average	3,711 cps	4,409 cps	10,179 cps	3,163 cps

	Y 360.073 {94} (Axial)	Na 818.326 {41} (Radial)	Zn 206.200 {463} (Axial)	Cd 228.802 {447} (Axial)
Intensity average	154,280 cps	8,323 cps	33 cps	4 cps

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

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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	0.093 ppm	0.254 ppm	0.000 ppm	88.410 ppm
Concentration per Run 1	0.081 ppm	0.253 ppm	0.000 ppm	88.005 ppm
Concentration per Run 2	0.036 ppm	0.261 ppm	0.000 ppm	88.640 ppm
Concentration per Run 3	0.164 ppm	0.249 ppm	0.000 ppm	88.586 ppm
Concentration RSD	69.6 %	2.3 %	55.4 %	0.4 %
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	92.191 ppm	0.121 ppm	0.182 ppm	3.173 ppm
Concentration per Run 1	91.644 ppm	0.121 ppm	0.054 ppm	3.172 ppm
Concentration per Run 2	92.358 ppm	0.123 ppm	0.144 ppm	3.172 ppm
Concentration per Run 3	92.572 ppm	0.120 ppm	0.347 ppm	3.174 ppm
Concentration RSD	0.5 %	1.0 %	82.6 %	0.0 %
Concentration SD	0.5 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	0.032 ppm	21.233 ppm	127.605 ppm	1.053 ppm
Concentration per Run 1	0.032 ppm	21.145 ppm	127.157 ppm	1.048 ppm
Concentration per Run 2	0.032 ppm	21.212 ppm	127.566 ppm	1.053 ppm
Concentration per Run 3	0.032 ppm	21.343 ppm	128.092 ppm	1.058 ppm
Concentration RSD	0.6 %	0.5 %	0.4 %	0.5 %
Concentration SD	0.0 ppm	0.1 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	0.018 ppm	-0.001 ppm	0.002 ppm	0.001 ppm
Concentration per Run 1	0.019 ppm	0.003 ppm	0.002 ppm	0.001 ppm
Concentration per Run 2	0.018 ppm	-0.001 ppm	0.002 ppm	0.001 ppm
Concentration per Run 3	0.018 ppm	-0.003 ppm	0.002 ppm	0.002 ppm
Concentration RSD	4.5 %	502.9 %	5.0 %	40.2 %
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	0.002 ppm	-0.001 ppm	0.002 ppm	0.009 ppm
Concentration per Run 1	0.003 ppm	-0.001 ppm	0.004 ppm	0.010 ppm
Concentration per Run 2	0.001 ppm	-0.001 ppm	0.001 ppm	0.009 ppm
Concentration per Run 3	0.003 ppm	-0.002 ppm	0.002 ppm	0.008 ppm
Concentration RSD	45.2 %	20.4 %	70.0 %	11.3 %
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	0.109 ppm	0.015 ppm	90.412 ppm	5.808 ppm
Concentration per Run 1	0.108 ppm	0.015 ppm	89.915 ppm	5.817 ppm
Concentration per Run 2	0.109 ppm	0.016 ppm	90.603 ppm	5.803 ppm
Concentration per Run 3	0.109 ppm	0.015 ppm	90.718 ppm	5.805 ppm
Concentration RSD	0.5 %	1.2 %	0.5 %	0.1 %
Concentration SD	0.0 ppm	0.0 ppm	0.4 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	0.011 ppm	-0.001 ppm	0.000 ppm
Concentration per Run 1	0.000 ppm	0.011 ppm	-0.001 ppm	0.001 ppm
Concentration per Run 2	-0.001 ppm	0.014 ppm	0.000 ppm	0.000 ppm
Concentration per Run 3	-0.003 ppm	0.008 ppm	-0.001 ppm	0.000 ppm
Concentration RSD	111.3 %	30.6 %	61.7 %	7,028.1 %
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	0.148 ppm	99.051 %	94.441 %	85.597 %
Concentration per Run 1	0.147 ppm	99.563 %	94.933 %	85.977 %
Concentration per Run 2	0.148 ppm	98.834 %	94.288 %	85.463 %
Concentration per Run 3	0.148 ppm	98.758 %	94.103 %	85.350 %
Concentration RSD	0.3 %	0.4 %	0.5 %	0.4 %
Concentration SD	0.0 ppm	0.4 %	0.4 %	0.3 %

	Y 360.073 {94} (Axial)	Na 818.326 {41} (Radial)	Zn 206.200 {463} (Axial)	Cd 228.802 {447} (Axial)
Concentration average	90.517 %	129.847 ppm	0.001 ppm	0.000 ppm
Concentration per Run 1	90.247 %	128.926 ppm	0.001 ppm	0.000 ppm
Concentration per Run 2	90.636 %	130.065 ppm	0.001 ppm	0.000 ppm
Concentration per Run 3	90.668 %	130.549 ppm	0.001 ppm	0.000 ppm
Concentration RSD	0.3 %	0.6 %	16.7 %	371.1 %
Concentration SD	0.2 %	0.8 ppm	0.0 ppm	0.0 ppm

	Cu 324.754 {104} (Radial)
Concentration average	-0.009 ppm
Concentration per Run 1	-0.006 ppm
Concentration per Run 2	-0.009 ppm
Concentration per Run 3	-0.011 ppm
Concentration RSD	30.5 %
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	8 cps	41 cps	-1 cps	36,917 cps

	Ca 373.690 {90} (Radial)	Fe 259.940 {130} (Radial)	Fe 271.441 {124} (Radial)	K 766.490 {44} (Radial)
Intensity average	16,064 cps	41 cps	4 cps	1,559 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	304 cps	798 cps	190,363 cps	28,623 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	6 cps	4 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	-2 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	739 cps	58 cps	19,543 cps	12,495 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	-10 cps	14 cps

	Mn 257.610 {131} (Axial)	Y 360.073 {94} (Radial)	Y 224.306 {450} (Axial)	In 230.606 {446} (Axial)
Intensity average	6,890 cps	4,563 cps	10,264 cps	3,194 cps

	Y 360.073 {94} (Axial)	Na 818.326 {41} (Radial)	Zn 206.200 {463} (Axial)	Cd 228.802 {447} (Axial)
Intensity average	156,361 cps	9,448 cps	7 cps	4 cps

	Cu 324.754 {104} (Radial)
Intensity average	3 cps

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Sample Type QC Analysis Date 10/29/2014 12:22:50 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	9.385 ppm	1.832 ppm	0.181 ppm	45.260 ppm
Concentration per Run 1	9.298 ppm	1.831 ppm	0.180 ppm	45.183 ppm
Concentration per Run 2	9.309 ppm	1.804 ppm	0.179 ppm	44.680 ppm
Concentration per Run 3	9.549 ppm	1.861 ppm	0.183 ppm	45.916 ppm
Concentration RSD	1.5 %	1.6 %	0.9 %	1.4 %
Concentration SD	0.1 ppm	0.0 ppm	0.0 ppm	0.6 ppm

	Ca 373.690 {90} (Radial)	Fe 259.940 {130} (Radial)	Fe 271.441 {124} (Radial)	K 766.490 {44} (Radial)
Concentration average	47.142 ppm	9.626 ppm	10.520 ppm	42.915 ppm
Concentration per Run 1	47.131 ppm	9.616 ppm	10.610 ppm	42.882 ppm
Concentration per Run 2	46.644 ppm	9.507 ppm	10.254 ppm	42.355 ppm
Concentration per Run 3	47.650 ppm	9.754 ppm	10.696 ppm	43.507 ppm
Concentration RSD	1.1 %	1.3 %	2.2 %	1.3 %
Concentration SD	0.5 ppm	0.1 ppm	0.2 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	1.395 ppm	8.980 ppm	44.551 ppm	0.918 ppm
Concentration per Run 1	1.393 ppm	8.969 ppm	44.505 ppm	0.918 ppm
Concentration per Run 2	1.377 ppm	8.911 ppm	43.983 ppm	0.906 ppm
Concentration per Run 3	1.414 ppm	9.059 ppm	45.165 ppm	0.931 ppm
Concentration RSD	1.4 %	0.8 %	1.3 %	1.3 %
Concentration SD	0.0 ppm	0.1 ppm	0.6 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	0.945 ppm	0.930 ppm	0.983 ppm	2.004 ppm
Concentration per Run 1	0.944 ppm	0.937 ppm	0.984 ppm	2.005 ppm
Concentration per Run 2	0.935 ppm	0.916 ppm	0.983 ppm	2.002 ppm
Concentration per Run 3	0.955 ppm	0.937 ppm	0.981 ppm	2.006 ppm
Concentration RSD	1.0 %	1.3 %	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	0.502 ppm	1.961 ppm	1.934 ppm	1.925 ppm
Concentration per Run 1	0.502 ppm	1.961 ppm	1.935 ppm	1.926 ppm
Concentration per Run 2	0.502 ppm	1.959 ppm	1.938 ppm	1.928 ppm
Concentration per Run 3	0.501 ppm	1.962 ppm	1.928 ppm	1.920 ppm
Concentration RSD	0.1 %	0.1 %	0.3 %	0.2 %
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	0.475 ppm	0.487 ppm	4.428 ppm	1.923 ppm
Concentration per Run 1	0.475 ppm	0.486 ppm	4.430 ppm	1.922 ppm
Concentration per Run 2	0.475 ppm	0.487 ppm	4.427 ppm	1.918 ppm
Concentration per Run 3	0.476 ppm	0.488 ppm	4.426 ppm	1.928 ppm
Concentration RSD	0.1 %	0.1 %	0.0 %	0.3 %
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	1.911 ppm	2.025 ppm	1.002 ppm	0.993 ppm
Concentration per Run 1	1.911 ppm	2.017 ppm	1.005 ppm	0.993 ppm
Concentration per Run 2	1.913 ppm	2.026 ppm	0.997 ppm	0.990 ppm
Concentration per Run 3	1.910 ppm	2.033 ppm	1.005 ppm	0.998 ppm
Concentration RSD	0.1 %	0.4 %	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	1.032 ppm	99.072 %	95.226 %	87.827 %
Concentration per Run 1	1.030 ppm	98.824 %	95.115 %	87.606 %
Concentration per Run 2	1.030 ppm	99.765 %	95.230 %	87.854 %
Concentration per Run 3	1.034 ppm	98.627 %	95.332 %	88.022 %
Concentration RSD	0.2 %	0.6 %	0.1 %	0.2 %
Concentration SD	0.0 ppm	0.6 %	0.1 %	0.2 %

	Y 360.073 {94} (Axial)	Na 818.326 {41} (Radial)	Zn 206.200 {463} (Axial)	Cd 228.802 {447} (Axial)
Concentration average	90.280 %	44.101 ppm	2.911 ppm	0.523 ppm
Concentration per Run 1	90.150 %	44.224 ppm	2.914 ppm	0.523 ppm
Concentration per Run 2	90.491 %	43.455 ppm	2.913 ppm	0.523 ppm
Concentration per Run 3	90.200 %	44.623 ppm	2.908 ppm	0.524 ppm
Concentration RSD	0.2 %	1.3 %	0.1 %	0.0 %
Concentration SD	0.2 %	0.6 ppm	0.0 ppm	0.0 ppm

	Cu 324.754 {104} (Radial)
Concentration average	1.812 ppm
Concentration per Run 1	1.801 ppm
Concentration per Run 2	1.798 ppm
Concentration per Run 3	1.836 ppm
Concentration RSD	1.2 %
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	312 cps	324 cps	2,371 cps	21,022 cps

	Ca 373.690 {90} (Radial)	Fe 259.940 {130} (Radial)	Fe 271.441 {124} (Radial)	K 766.490 {44} (Radial)
Intensity average	9,137 cps	2,643 cps	176 cps	22,944 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	15,203 cps	375 cps	73,903 cps	27,747 cps

	Ti 334.941 {101} (Radial)	V 292.402 {115} (Radial)	Co 228.616 {447} (Axial)	Ni 231.604 {446} (Axial)
Intensity average	1,869 cps	390 cps	3,247 cps	4,867 cps

	Pb 220.353 {453} (Axial)	Sn 189.989 {478} (Axial)	Tl 190.856 {477} (Axial)	As 189.042 {478} (Axial)
Intensity average	404 cps	1,992 cps	1,220 cps	813 cps

	Ba 233.527 {445} (Axial)	Mo 202.030 {467} (Axial)	S 182.034 {485} (Axial)	Si 251.611 {134} (Axial)
Intensity average	3,614 cps	1,959 cps	1,078 cps	4,593 cps

	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)	Ag 328.068 {103} (Axial)	Cr 267.716 {126} (Axial)
Intensity average	1,151 cps	710 cps	8,207 cps	6,646 cps

	Mn 257.610 {131} (Axial)	Y 360.073 {94} (Radial)	Y 224.306 {450} (Axial)	In 230.606 {446} (Axial)
Intensity average	53,283 cps	4,564 cps	10,349 cps	3,278 cps

	Y 360.073 {94} (Axial)	Na 818.326 {41} (Radial)	Zn 206.200 {463} (Axial)	Cd 228.802 {447} (Axial)
Intensity average	155,953 cps	3,480 cps	11,869 cps	2,760 cps

	Cu 324.754 {104} (Radial)
Intensity average	1,134 cps

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Sample Type QC Analysis Date 10/29/2014 12:28:19 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	0.041 ppm	0.010 ppm	0.000 ppm	-0.022 ppm
Concentration per Run 1	0.031 ppm	0.002 ppm	0.000 ppm	-0.016 ppm
Concentration per Run 2	-0.009 ppm	0.012 ppm	0.000 ppm	-0.027 ppm
Concentration per Run 3	0.099 ppm	0.017 ppm	0.000 ppm	-0.023 ppm
Concentration RSD	134.0 %	75.0 %	20.5 %	23.3 %
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	-0.022 ppm	-0.007 ppm	0.039 ppm	0.011 ppm
Concentration per Run 1	-0.017 ppm	-0.010 ppm	0.131 ppm	0.035 ppm
Concentration per Run 2	-0.012 ppm	-0.005 ppm	-0.062 ppm	-0.011 ppm
Concentration per Run 3	-0.036 ppm	-0.005 ppm	0.050 ppm	0.007 ppm
Concentration RSD	57.2 %	40.1 %	245.7 %	220.8 %
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	0.001 ppm	-0.028 ppm	-0.008 ppm	0.000 ppm
Concentration per Run 1	0.001 ppm	-0.006 ppm	-0.006 ppm	0.000 ppm
Concentration per Run 2	0.001 ppm	-0.011 ppm	-0.008 ppm	0.000 ppm
Concentration per Run 3	0.001 ppm	-0.067 ppm	-0.009 ppm	0.000 ppm
Concentration RSD	48.0 %	121.2 %	18.6 %	794.7 %
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	-0.002 ppm	0.000 ppm	0.000 ppm
Concentration per Run 1	0.002 ppm	-0.001 ppm	0.000 ppm	0.000 ppm
Concentration per Run 2	0.001 ppm	-0.006 ppm	0.000 ppm	0.000 ppm
Concentration per Run 3	0.001 ppm	0.002 ppm	0.000 ppm	0.000 ppm
Concentration RSD	75.5 %	214.7 %	103.3 %	898.8 %
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	0.001 ppm	0.000 ppm	0.000 ppm	0.002 ppm
Concentration per Run 1	0.001 ppm	0.000 ppm	-0.001 ppm	0.002 ppm
Concentration per Run 2	0.001 ppm	0.000 ppm	-0.001 ppm	0.001 ppm
Concentration per Run 3	0.000 ppm	0.000 ppm	0.000 ppm	0.002 ppm
Concentration RSD	162.1 %	118.1 %	115.4 %	32.4 %
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	-0.005 ppm	0.001 ppm
Concentration per Run 1	0.000 ppm	0.000 ppm	-0.004 ppm	0.001 ppm
Concentration per Run 2	0.000 ppm	0.000 ppm	-0.006 ppm	0.001 ppm
Concentration per Run 3	0.000 ppm	0.000 ppm	-0.005 ppm	0.001 ppm
Concentration RSD	812.1 %	43.3 %	22.9 %	7.2 %
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	0.001 ppm	-0.001 ppm	0.000 ppm	0.000 ppm
Concentration per Run 1	0.003 ppm	-0.001 ppm	0.000 ppm	0.000 ppm
Concentration per Run 2	0.001 ppm	0.000 ppm	-0.001 ppm	0.000 ppm
Concentration per Run 3	0.000 ppm	-0.001 ppm	0.001 ppm	0.000 ppm
Concentration RSD	91.2 %	124.9 %	125,410.8 %	91.5 %
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	98.429 %	100.373 %	99.923 %
Concentration per Run 1	0.000 ppm	97.019 %	100.659 %	99.967 %
Concentration per Run 2	0.000 ppm	98.631 %	100.339 %	100.068 %
Concentration per Run 3	0.000 ppm	99.638 %	100.120 %	99.734 %
Concentration RSD	64.4 %	1.3 %	0.3 %	0.2 %
Concentration SD	0.0 ppm	1.3 %	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	96.633 %	0.257 ppm	0.000 ppm	0.000 ppm
Concentration per Run 1	97.038 %	0.340 ppm	0.000 ppm	0.000 ppm
Concentration per Run 2	96.587 %	0.167 ppm	0.000 ppm	0.000 ppm
Concentration per Run 3	96.276 %	0.263 ppm	0.000 ppm	0.000 ppm
Concentration RSD	0.4 %	33.9 %	74.3 %	152.8 %
Concentration SD	0.4 %	0.1 ppm	0.0 ppm	0.0 ppm

	Cu 324.754 {104} (Radial)
Concentration average	-0.003 ppm
Concentration per Run 1	-0.006 ppm
Concentration per Run 2	0.000 ppm
Concentration per Run 3	-0.003 ppm
Concentration RSD	85.7 %
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	7 cps	2 cps	-2 cps	35 cps

	Ca 373.690 {90} (Radial)	Fe 259.940 {130} (Radial)	Fe 271.441 {124} (Radial)	K 766.490 {44} (Radial)
Intensity average	16 cps	10 cps	2 cps	40 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	0 cps	0 cps	59 cps	-6 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	0 cps	2 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	2 cps	5 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	2 cps	-4 cps	16 cps

	Mn 257.610 {131} (Axial)	Y 360.073 {94} (Radial)	Y 224.306 {450} (Axial)	In 230.606 {446} (Axial)
Intensity average	12 cps	4,534 cps	10,909 cps	3,729 cps

	Y 360.073 {94} (Axial)	Na 818.326 {41} (Radial)	Zn 206.200 {463} (Axial)	Cd 228.802 {447} (Axial)
Intensity average	166,927 cps	-116 cps	3 cps	4 cps

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

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L729877-03 WG750950

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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	0.114 ppm	0.468 ppm	0.000 ppm	65.206 ppm
Concentration per Run 1	0.212 ppm	0.467 ppm	0.000 ppm	65.285 ppm
Concentration per Run 2	0.075 ppm	0.472 ppm	0.000 ppm	65.437 ppm
Concentration per Run 3	0.054 ppm	0.466 ppm	0.000 ppm	64.896 ppm
Concentration RSD	75.8 %	0.7 %	127.5 %	0.4 %
Concentration SD	0.1 ppm	0.0 ppm	0.0 ppm	0.3 ppm

	Ca 373.690 {90} (Radial)	Fe 259.940 {130} (Radial)	Fe 271.441 {124} (Radial)	K 766.490 {44} (Radial)
Concentration average	67.825 ppm	0.080 ppm	0.166 ppm	4.419 ppm
Concentration per Run 1	68.057 ppm	0.076 ppm	0.256 ppm	4.404 ppm
Concentration per Run 2	67.827 ppm	0.079 ppm	0.123 ppm	4.426 ppm
Concentration per Run 3	67.593 ppm	0.084 ppm	0.118 ppm	4.429 ppm
Concentration RSD	0.3 %	5.5 %	47.0 %	0.3 %
Concentration SD	0.2 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	0.042 ppm	17.167 ppm	296.386 ppm	0.700 ppm
Concentration per Run 1	0.041 ppm	17.212 ppm	297.290 ppm	0.700 ppm
Concentration per Run 2	0.043 ppm	17.201 ppm	299.576 ppm	0.701 ppm
Concentration per Run 3	0.043 ppm	17.088 ppm	292.293 ppm	0.699 ppm
Concentration RSD	2.7 %	0.4 %	1.3 %	0.1 %
Concentration SD	0.0 ppm	0.1 ppm	3.7 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	0.014 ppm	0.001 ppm	0.004 ppm	0.009 ppm
Concentration per Run 1	0.013 ppm	-0.002 ppm	0.004 ppm	0.008 ppm
Concentration per Run 2	0.015 ppm	0.002 ppm	0.004 ppm	0.010 ppm
Concentration per Run 3	0.014 ppm	0.004 ppm	0.004 ppm	0.010 ppm
Concentration RSD	7.5 %	242.1 %	7.5 %	9.2 %
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	0.003 ppm	-0.001 ppm	0.003 ppm	0.085 ppm
Concentration per Run 1	0.002 ppm	-0.001 ppm	0.003 ppm	0.086 ppm
Concentration per Run 2	0.003 ppm	-0.001 ppm	0.004 ppm	0.085 ppm
Concentration per Run 3	0.003 ppm	0.000 ppm	0.002 ppm	0.085 ppm
Concentration RSD	32.6 %	31.5 %	32.0 %	0.7 %
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	0.057 ppm	0.013 ppm	55.105 ppm	8.093 ppm
Concentration per Run 1	0.057 ppm	0.013 ppm	55.045 ppm	8.121 ppm
Concentration per Run 2	0.057 ppm	0.013 ppm	55.226 ppm	8.135 ppm
Concentration per Run 3	0.057 ppm	0.013 ppm	55.045 ppm	8.022 ppm
Concentration RSD	0.2 %	0.5 %	0.2 %	0.8 %
Concentration SD	0.0 ppm	0.0 ppm	0.1 ppm	0.1 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	-0.002 ppm	0.000 ppm	0.000 ppm
Concentration per Run 1	-0.004 ppm	-0.003 ppm	0.000 ppm	0.000 ppm
Concentration per Run 2	0.000 ppm	-0.002 ppm	0.000 ppm	0.000 ppm
Concentration per Run 3	-0.003 ppm	-0.002 ppm	0.000 ppm	0.000 ppm
Concentration RSD	78.4 %	17.5 %	724.5 %	162.4 %
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	0.709 ppm	96.762 %	93.676 %	82.523 %
Concentration per Run 1	0.709 ppm	96.505 %	93.833 %	82.668 %
Concentration per Run 2	0.715 ppm	96.577 %	93.495 %	82.347 %
Concentration per Run 3	0.702 ppm	97.202 %	93.699 %	82.553 %
Concentration RSD	0.9 %	0.4 %	0.2 %	0.2 %
Concentration SD	0.0 ppm	0.4 %	0.2 %	0.2 %

	Y 360.073 {94} (Axial)	Na 818.326 {41} (Radial)	Zn 206.200 {463} (Axial)	Cd 228.802 {447} (Axial)
Concentration average	86.323 %	323.973 ppm	0.009 ppm	0.001 ppm
Concentration per Run 1	86.067 %	324.319 ppm	0.009 ppm	0.001 ppm
Concentration per Run 2	85.928 %	323.997 ppm	0.009 ppm	0.001 ppm
Concentration per Run 3	86.975 %	323.604 ppm	0.009 ppm	0.001 ppm
Concentration RSD	0.7 %	0.1 %	0.2 %	10.1 %
Concentration SD	0.6 %	0.4 ppm	0.0 ppm	0.0 ppm

	Cu 324.754 {104} (Radial)
Concentration average	0.006 ppm
Concentration per Run 1	0.010 ppm
Concentration per Run 2	0.007 ppm
Concentration per Run 3	0.002 ppm
Concentration RSD	63.7 %
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	8 cps	73 cps	1 cps	26,610 cps

	Ca 373.690 {90} (Radial)	Fe 259.940 {130} (Radial)	Fe 271.441 {124} (Radial)	K 766.490 {44} (Radial)
Intensity average	11,550 cps	30 cps	4 cps	2,108 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	396 cps	630 cps	431,830 cps	18,588 cps

	Ti 334.941 {101} (Radial)	V 292.402 {115} (Radial)	Co 228.616 {447} (Axial)	Ni 231.604 {446} (Axial)
Intensity average	23 cps	2 cps	11 cps	21 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	-2 cps	30 cps

	Ba 233.527 {445} (Axial)	Mo 202.030 {467} (Axial)	S 182.034 {485} (Axial)	Si 251.611 {134} (Axial)
Intensity average	387 cps	50 cps	11,817 cps	16,598 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	1 cps	-4 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	31,498 cps	4,457 cps	10,181 cps	3,080 cps

	Y 360.073 {94} (Axial)	Na 818.326 {41} (Radial)	Zn 206.200 {463} (Axial)	Cd 228.802 {447} (Axial)
Intensity average	149,117 cps	23,231 cps	37 cps	10 cps

	Cu 324.754 {104} (Radial)
Intensity average	11 cps

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L729877-04 WG750950

Sample Type UNKNOWN Analysis Date 10/29/2014 12:38:26 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	0.128 ppm	0.315 ppm	0.000 ppm	79.035 ppm
Concentration per Run 1	0.161 ppm	0.328 ppm	0.000 ppm	79.513 ppm
Concentration per Run 2	0.088 ppm	0.307 ppm	0.000 ppm	79.098 ppm
Concentration per Run 3	0.134 ppm	0.310 ppm	0.000 ppm	78.495 ppm
Concentration RSD	28.7 %	3.7 %	47.4 %	0.6 %
Concentration SD	0.0 ppm	0.0 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	82.396 ppm	0.127 ppm	0.198 ppm	16.798 ppm
Concentration per Run 1	82.606 ppm	0.128 ppm	0.093 ppm	16.803 ppm
Concentration per Run 2	82.558 ppm	0.125 ppm	0.238 ppm	16.842 ppm
Concentration per Run 3	82.023 ppm	0.128 ppm	0.262 ppm	16.748 ppm
Concentration RSD	0.4 %	1.4 %	46.3 %	0.3 %
Concentration SD	0.3 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	0.048 ppm	19.342 ppm	159.690 ppm	1.073 ppm
Concentration per Run 1	0.047 ppm	19.638 ppm	162.027 ppm	1.072 ppm
Concentration per Run 2	0.048 ppm	19.203 ppm	160.300 ppm	1.077 ppm
Concentration per Run 3	0.048 ppm	19.184 ppm	156.742 ppm	1.071 ppm
Concentration RSD	1.9 %	1.3 %	1.7 %	0.3 %
Concentration SD	0.0 ppm	0.3 ppm	2.7 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	0.020 ppm	-0.002 ppm	0.002 ppm	0.001 ppm
Concentration per Run 1	0.018 ppm	-0.009 ppm	0.002 ppm	0.001 ppm
Concentration per Run 2	0.020 ppm	-0.004 ppm	0.002 ppm	0.000 ppm
Concentration per Run 3	0.020 ppm	0.007 ppm	0.002 ppm	0.001 ppm
Concentration RSD	6.8 %	406.7 %	2.3 %	74.5 %
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	0.001 ppm	-0.001 ppm	0.002 ppm	0.002 ppm
Concentration per Run 1	0.003 ppm	-0.002 ppm	0.003 ppm	0.001 ppm
Concentration per Run 2	0.000 ppm	-0.001 ppm	0.002 ppm	0.001 ppm
Concentration per Run 3	0.001 ppm	-0.001 ppm	0.000 ppm	0.003 ppm
Concentration RSD	118.1 %	52.2 %	83.9 %	55.5 %
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	0.028 ppm	0.019 ppm	108.153 ppm	5.871 ppm
Concentration per Run 1	0.028 ppm	0.019 ppm	107.679 ppm	5.861 ppm
Concentration per Run 2	0.028 ppm	0.019 ppm	108.097 ppm	5.866 ppm
Concentration per Run 3	0.029 ppm	0.019 ppm	108.684 ppm	5.886 ppm
Concentration RSD	0.5 %	0.5 %	0.5 %	0.2 %
Concentration SD	0.0 ppm	0.0 ppm	0.5 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	0.015 ppm	0.000 ppm	0.000 ppm
Concentration per Run 1	-0.004 ppm	0.016 ppm	-0.001 ppm	0.001 ppm
Concentration per Run 2	-0.002 ppm	0.015 ppm	0.001 ppm	0.000 ppm
Concentration per Run 3	-0.001 ppm	0.014 ppm	0.000 ppm	0.000 ppm
Concentration RSD	66.1 %	7.5 %	474.3 %	309.7 %
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	0.014 ppm	95.173 %	93.473 %	83.651 %
Concentration per Run 1	0.014 ppm	94.132 %	93.620 %	83.894 %
Concentration per Run 2	0.015 ppm	95.151 %	93.476 %	83.747 %
Concentration per Run 3	0.014 ppm	96.236 %	93.322 %	83.312 %
Concentration RSD	0.3 %	1.1 %	0.2 %	0.4 %
Concentration SD	0.0 ppm	1.1 %	0.1 %	0.3 %

	Y 360.073 {94} (Axial)	Na 818.326 {41} (Radial)	Zn 206.200 {463} (Axial)	Cd 228.802 {447} (Axial)
Concentration average	87.660 %	165.803 ppm	0.007 ppm	0.000 ppm
Concentration per Run 1	87.763 %	165.841 ppm	0.007 ppm	0.000 ppm
Concentration per Run 2	87.805 %	165.919 ppm	0.007 ppm	0.000 ppm
Concentration per Run 3	87.412 %	165.650 ppm	0.006 ppm	0.000 ppm
Concentration RSD	0.2 %	0.1 %	2.1 %	35.3 %
Concentration SD	0.2 %	0.1 ppm	0.0 ppm	0.0 ppm

	Cu 324.754 {104} (Radial)
Concentration average	-0.005 ppm
Concentration per Run 1	-0.001 ppm
Concentration per Run 2	-0.011 ppm
Concentration per Run 3	-0.005 ppm
Concentration RSD	90.7 %
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	49 cps	-2 cps	31,714 cps

	Ca 373.690 {90} (Radial)	Fe 259.940 {130} (Radial)	Fe 271.441 {124} (Radial)	K 766.490 {44} (Radial)
Intensity average	13,797 cps	41 cps	4 cps	7,787 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	440 cps	698 cps	228,856 cps	28,032 cps

	Ti 334.941 {101} (Radial)	V 292.402 {115} (Radial)	Co 228.616 {447} (Axial)	Ni 231.604 {446} (Axial)
Intensity average	32 cps	1 cps	5 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	0 cps	0 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	194 cps	72 cps	23,137 cps	12,231 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	7 cps	-5 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	662 cps	4,384 cps	10,159 cps	3,122 cps

	Y 360.073 {94} (Axial)	Na 818.326 {41} (Radial)	Zn 206.200 {463} (Axial)	Cd 228.802 {447} (Axial)
Intensity average	151,427 cps	11,629 cps	27 cps	4 cps

	Cu 324.754 {104} (Radial)
Intensity average	4 cps

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	Al 308.215 {109} (Radial)	B 249.678 {135} (Radial)	Be 313.042 {108} (Radial)
Concentration average	0.133 ppm	0.854 ppm	0.000 ppm
Concentration per Run 1	0.147 ppm	0.859 ppm	0.000 ppm
Concentration per Run 2	0.147 ppm	0.844 ppm	0.000 ppm
Concentration per Run 3	0.105 ppm	0.858 ppm	0.000 ppm
Concentration RSD	18.1 %	1.0 %	38.8 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm

	Ca 317.933 {106} (Radial)	Ca 373.690 {90} (Radial)	Fe 259.940 {130} (Radial)
Concentration average	226.443 ppm	241.512 ppm	87.285 ppm
Concentration per Run 1	228.746 ppm	244.612 ppm	88.139 ppm
Concentration per Run 2	224.739 ppm	239.271 ppm	86.596 ppm
Concentration per Run 3	225.844 ppm	240.651 ppm	87.120 ppm
Concentration RSD	0.9 %	1.1 %	0.9 %
Concentration SD	2.1 ppm	2.8 ppm	0.8 ppm

	Fe 271.441 {124} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	94.519 ppm	79.977 ppm	0.063 ppm
Concentration per Run 1	95.382 ppm	80.873 ppm	0.063 ppm
Concentration per Run 2	93.957 ppm	79.377 ppm	0.062 ppm
Concentration per Run 3	94.218 ppm	79.680 ppm	0.064 ppm
Concentration RSD	0.8 %	1.0 %	1.7 %
Concentration SD	0.8 ppm	0.8 ppm	0.0 ppm

	Mg 279.079 {121} (Radial)	Na 589.592 {57} (Radial)	Sr 421.552 {80} (Radial)
Concentration average	351.622 ppm	950.069 ppm	3.129 ppm
Concentration per Run 1	354.197 ppm	964.527 ppm	3.166 ppm
Concentration per Run 2	349.737 ppm	942.827 ppm	3.104 ppm
Concentration per Run 3	350.934 ppm	942.854 ppm	3.118 ppm
Concentration RSD	0.7 %	1.3 %	1.0 %
Concentration SD	2.3 ppm	12.5 ppm	0.0 ppm

	Ti 334.941 {101} (Radial)	V 292.402 {115} (Radial)	Co 228.616 {447} (Axial)
Concentration average	0.012 ppm	-0.005 ppm	0.006 ppm
Concentration per Run 1	0.012 ppm	-0.007 ppm	0.006 ppm
Concentration per Run 2	0.013 ppm	-0.004 ppm	0.006 ppm
Concentration per Run 3	0.012 ppm	-0.003 ppm	0.006 ppm
Concentration RSD	5.0 %	44.1 %	0.6 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm

	Ni 231.604 {446} (Axial)	Pb 220.353 {453} (Axial)	Sn 189.989 {478} (Axial)
Concentration average	0.050 ppm	0.011 ppm	0.000 ppm
Concentration per Run 1	0.049 ppm	0.009 ppm	0.000 ppm

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	Ni 231.604 {446} (Axial)	Pb 220.353 {453} (Axial)	Sn 189.989 {478} (Axial)
Concentration per Run 2	0.050 ppm	0.012 ppm	-0.001 ppm
Concentration per Run 3	0.050 ppm	0.010 ppm	-0.001 ppm
Concentration RSD	0.8 %	13.2 %	170.4 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm

	Tl 190.856 {477} (Axial)	As 189.042 {478} (Axial)	Ba 233.527 {445} (Axial)
Concentration average	0.008 ppm	0.076 ppm	0.231 ppm
Concentration per Run 1	0.009 ppm	0.073 ppm	0.232 ppm
Concentration per Run 2	0.006 ppm	0.077 ppm	0.232 ppm
Concentration per Run 3	0.008 ppm	0.079 ppm	0.231 ppm
Concentration RSD	18.1 %	4.1 %	0.4 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm

	Mo 202.030 {467} (Axial)	S 182.034 {485} (Axial)	Si 251.611 {134} (Axial)
Concentration average	0.006 ppm	185.913 ppm	19.730 ppm
Concentration per Run 1	0.006 ppm	186.407 ppm	19.822 ppm
Concentration per Run 2	0.006 ppm	185.671 ppm	19.571 ppm
Concentration per Run 3	0.006 ppm	185.660 ppm	19.797 ppm
Concentration RSD	4.0 %	0.2 %	0.7 %
Concentration SD	0.0 ppm	0.4 ppm	0.1 ppm

	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)	Ag 328.068 {103} (Axial)
Concentration average	-0.007 ppm	0.002 ppm	0.003 ppm
Concentration per Run 1	-0.008 ppm	-0.001 ppm	0.003 ppm
Concentration per Run 2	-0.007 ppm	0.006 ppm	0.003 ppm
Concentration per Run 3	-0.005 ppm	0.001 ppm	0.002 ppm
Concentration RSD	26.1 %	174.1 %	12.2 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm

	Cr 267.716 {126} (Axial)	Mn 257.610 {131} (Axial)	Y 360.073 {94} (Radial)
Concentration average	0.007 ppm	19.631 ppm	90.674 %
Concentration per Run 1	0.006 ppm	19.783 ppm	90.006 %
Concentration per Run 2	0.007 ppm	19.394 ppm	91.010 %
Concentration per Run 3	0.007 ppm	19.717 ppm	91.004 %
Concentration RSD	6.2 %	1.1 %	0.6 %
Concentration SD	0.0 ppm	0.2 ppm	0.6 %

	Y 224.306 {450} (Axial)	In 230.606 {446} (Axial)	Y 360.073 {94} (Axial)
Concentration average	78.291 %	64.618 %	73.088 %
Concentration per Run 1	78.093 %	64.541 %	72.670 %
Concentration per Run 2	78.554 %	64.767 %	73.614 %
Concentration per Run 3	78.225 %	64.546 %	72.980 %
Concentration RSD	0.3 %	0.2 %	0.7 %
Concentration SD	0.2 %	0.1 %	0.5 %

	Na 818.326 {41} (Radial)	Zn 206.200 {463} (Axial)	Cd 228.802 {447} (Axial)
Concentration average	2,026.387 ppm	0.008 ppm	0.001 ppm

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	Na 818.326 {41} (Radial)	Zn 206.200 {463} (Axial)	Cd 228.802 {447} (Axial)
Concentration per Run 1	2,048.307 ppm	0.008 ppm	0.001 ppm
Concentration per Run 2	2,009.661 ppm	0.007 ppm	0.000 ppm
Concentration per Run 3	2,021.192 ppm	0.007 ppm	0.001 ppm
Concentration RSD	1.0 %	2.6 %	13.7 %
Concentration SD	19.8 ppm	0.0 ppm	0.0 ppm

	Cu 324.754 {104} (Radial)
Concentration average	0.000 ppm
Concentration per Run 1	-0.004 ppm
Concentration per Run 2	0.000 ppm
Concentration per Run 3	0.002 ppm
Concentration RSD	626.0 %
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	8 cps	125 cps	-1 cps	86,491 cps

	Ca 373.690 {90} (Radial)	Fe 259.940 {130} (Radial)	Fe 271.441 {124} (Radial)	K 766.490 {44} (Radial)
Intensity average	38,491 cps	19,667 cps	1,294 cps	35,200 cps

	Li 670.784 {50} (Radial)	Mg 279.079 {121} (Radial)	Na 589.592 {57} (Radial)	Sr 421.552 {80} (Radial)
Intensity average	560 cps	12,073 cps	1,296,963 cps	77,883 cps

	Ti 334.941 {101} (Radial)	V 292.402 {115} (Radial)	Co 228.616 {447} (Axial)	Ni 231.604 {446} (Axial)
Intensity average	18 cps	0 cps	14 cps	81 cps

	Pb 220.353 {453} (Axial)	Sn 189.989 {478} (Axial)	Tl 190.856 {477} (Axial)	As 189.042 {478} (Axial)
Intensity average	5 cps	1 cps	0 cps	22 cps

	Ba 233.527 {445} (Axial)	Mo 202.030 {467} (Axial)	S 182.034 {485} (Axial)	Si 251.611 {134} (Axial)
Intensity average	1,304 cps	20 cps	33,309 cps	34,243 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	12 cps	44 cps

	Mn 257.610 {131} (Axial)	Y 360.073 {94} (Radial)	Y 224.306 {450} (Axial)	In 230.606 {446} (Axial)
Intensity average	738,671 cps	4,177 cps	8,509 cps	2,411 cps

	Y 360.073 {94} (Axial)	Na 818.326 {41} (Radial)	Zn 206.200 {463} (Axial)	Cd 228.802 {447} (Axial)
Intensity average	126,254 cps	136,819 cps	25 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)	Ca 317.933 {106} (Radial)
Concentration average	0.061 ppm	0.679 ppm	0.000 ppm	130.665 ppm
Concentration per Run 1	0.052 ppm	0.675 ppm	0.000 ppm	130.934 ppm
Concentration per Run 2	0.137 ppm	0.677 ppm	0.000 ppm	129.700 ppm
Concentration per Run 3	-0.007 ppm	0.685 ppm	0.000 ppm	131.360 ppm
Concentration RSD	119.4 %	0.8 %	107.8 %	0.7 %
Concentration SD	0.1 ppm	0.0 ppm	0.0 ppm	0.9 ppm

	Ca 373.690 {90} (Radial)	Fe 259.940 {130} (Radial)	Fe 271.441 {124} (Radial)	K 766.490 {44} (Radial)
Concentration average	137.785 ppm	40.028 ppm	43.355 ppm	51.365 ppm
Concentration per Run 1	137.984 ppm	40.019 ppm	43.208 ppm	51.421 ppm
Concentration per Run 2	136.604 ppm	39.705 ppm	43.073 ppm	50.964 ppm
Concentration per Run 3	138.765 ppm	40.359 ppm	43.784 ppm	51.711 ppm
Concentration RSD	0.8 %	0.8 %	0.9 %	0.7 %
Concentration SD	1.1 ppm	0.3 ppm	0.4 ppm	0.4 ppm

	Li 670.784 {50} (Radial)	Mg 279.079 {121} (Radial)	Na 589.592 {57} (Radial)	Sr 421.552 {80} (Radial)
Concentration average	0.018 ppm	38.988 ppm	302.712 ppm	0.549 ppm
Concentration per Run 1	0.019 ppm	39.117 ppm	301.762 ppm	0.550 ppm
Concentration per Run 2	0.016 ppm	38.815 ppm	302.885 ppm	0.544 ppm
Concentration per Run 3	0.019 ppm	39.032 ppm	303.488 ppm	0.553 ppm
Concentration RSD	9.2 %	0.4 %	0.3 %	0.8 %
Concentration SD	0.0 ppm	0.2 ppm	0.9 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	0.014 ppm	0.051 ppm	0.030 ppm	0.214 ppm
Concentration per Run 1	0.013 ppm	0.049 ppm	0.029 ppm	0.212 ppm
Concentration per Run 2	0.015 ppm	0.055 ppm	0.029 ppm	0.210 ppm
Concentration per Run 3	0.015 ppm	0.050 ppm	0.031 ppm	0.220 ppm
Concentration RSD	7.9 %	5.8 %	3.0 %	2.4 %
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	0.007 ppm	0.005 ppm	-0.001 ppm	0.076 ppm
Concentration per Run 1	0.006 ppm	0.005 ppm	-0.003 ppm	0.075 ppm
Concentration per Run 2	0.009 ppm	0.007 ppm	-0.001 ppm	0.076 ppm
Concentration per Run 3	0.005 ppm	0.005 ppm	0.002 ppm	0.077 ppm
Concentration RSD	27.9 %	20.0 %	336.3 %	1.2 %
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	0.123 ppm	0.022 ppm	5.455 ppm	32.200 ppm
Concentration per Run 1	0.121 ppm	0.021 ppm	5.367 ppm	32.396 ppm
Concentration per Run 2	0.121 ppm	0.022 ppm	5.380 ppm	32.076 ppm
Concentration per Run 3	0.127 ppm	0.022 ppm	5.617 ppm	32.128 ppm
Concentration RSD	2.4 %	2.1 %	2.6 %	0.5 %
Concentration SD	0.0 ppm	0.0 ppm	0.1 ppm	0.2 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	0.002 ppm	0.000 ppm	0.050 ppm
Concentration per Run 1	-0.004 ppm	-0.001 ppm	-0.001 ppm	0.051 ppm
Concentration per Run 2	0.000 ppm	0.001 ppm	0.000 ppm	0.049 ppm
Concentration per Run 3	-0.001 ppm	0.005 ppm	0.000 ppm	0.049 ppm
Concentration RSD	103.3 %	179.3 %	247.1 %	2.5 %
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	2.400 ppm	97.128 %	90.094 %	78.779 %
Concentration per Run 1	2.414 ppm	96.879 %	91.226 %	79.812 %
Concentration per Run 2	2.390 ppm	97.688 %	91.165 %	79.716 %
Concentration per Run 3	2.394 ppm	96.816 %	87.892 %	76.809 %
Concentration RSD	0.5 %	0.5 %	2.1 %	2.2 %
Concentration SD	0.0 ppm	0.5 %	1.9 %	1.7 %

	Y 360.073 {94} (Axial)	Na 818.326 {41} (Radial)	Zn 206.200 {463} (Axial)	Cd 228.802 {447} (Axial)
Concentration average	85.901 %	340.753 ppm	0.018 ppm	0.001 ppm
Concentration per Run 1	85.438 %	341.729 ppm	0.017 ppm	0.001 ppm
Concentration per Run 2	86.195 %	337.648 ppm	0.017 ppm	0.001 ppm
Concentration per Run 3	86.070 %	342.883 ppm	0.018 ppm	0.001 ppm
Concentration RSD	0.5 %	0.8 %	2.3 %	14.9 %
Concentration SD	0.4 %	2.8 ppm	0.0 ppm	0.0 ppm

	Cu 324.754 {104} (Radial)
Concentration average	0.000 ppm
Concentration per Run 1	0.004 ppm
Concentration per Run 2	0.002 ppm
Concentration per Run 3	-0.007 ppm
Concentration RSD	3,110.1 %
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	7 cps	106 cps	-1 cps	53,480 cps

	Ca 373.690 {90} (Radial)	Fe 259.940 {130} (Radial)	Fe 271.441 {124} (Radial)	K 766.490 {44} (Radial)
Intensity average	23,532 cps	9,667 cps	637 cps	24,229 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	161 cps	1,435 cps	442,727 cps	14,631 cps

	Ti 334.941 {101} (Radial)	V 292.402 {115} (Radial)	Co 228.616 {447} (Axial)	Ni 231.604 {446} (Axial)
Intensity average	23 cps	20 cps	79 cps	421 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	5 cps	-4 cps	25 cps

	Ba 233.527 {445} (Axial)	Mo 202.030 {467} (Axial)	S 182.034 {485} (Axial)	Si 251.611 {134} (Axial)
Intensity average	799 cps	77 cps	1,130 cps	65,673 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	-5 cps	297 cps

	Mn 257.610 {131} (Axial)	Y 360.073 {94} (Radial)	Y 224.306 {450} (Axial)	In 230.606 {446} (Axial)
Intensity average	106,126 cps	4,474 cps	9,792 cps	2,940 cps

	Y 360.073 {94} (Axial)	Na 818.326 {41} (Radial)	Zn 206.200 {463} (Axial)	Cd 228.802 {447} (Axial)
Intensity average	148,388 cps	24,533 cps	64 cps	7 cps

	Cu 324.754 {104} (Radial)
Intensity average	7 cps

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L729879-03 WG750950

Sample Type UNKNOWN Analysis Date 10/29/2014 12:52:09 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	0.051 ppm	0.728 ppm	0.000 ppm	140.507 ppm
Concentration per Run 1	0.072 ppm	0.723 ppm	0.000 ppm	141.296 ppm
Concentration per Run 2	0.088 ppm	0.732 ppm	0.000 ppm	141.568 ppm
Concentration per Run 3	-0.008 ppm	0.727 ppm	0.000 ppm	138.658 ppm
Concentration RSD	101.8 %	0.6 %	81.4 %	1.1 %
Concentration SD	0.1 ppm	0.0 ppm	0.0 ppm	1.6 ppm

	Ca 373.690 {90} (Radial)	Fe 259.940 {130} (Radial)	Fe 271.441 {124} (Radial)	K 766.490 {44} (Radial)
Concentration average	148.074 ppm	45.114 ppm	48.584 ppm	54.395 ppm
Concentration per Run 1	149.268 ppm	45.348 ppm	48.849 ppm	54.555 ppm
Concentration per Run 2	148.588 ppm	45.315 ppm	48.593 ppm	54.598 ppm
Concentration per Run 3	146.365 ppm	44.678 ppm	48.311 ppm	54.032 ppm
Concentration RSD	1.0 %	0.8 %	0.6 %	0.6 %
Concentration SD	1.5 ppm	0.4 ppm	0.3 ppm	0.3 ppm

	Li 670.784 {50} (Radial)	Mg 279.079 {121} (Radial)	Na 589.592 {57} (Radial)	Sr 421.552 {80} (Radial)
Concentration average	0.017 ppm	41.328 ppm	324.968 ppm	0.607 ppm
Concentration per Run 1	0.017 ppm	41.368 ppm	322.470 ppm	0.610 ppm
Concentration per Run 2	0.017 ppm	41.787 ppm	332.036 ppm	0.609 ppm
Concentration per Run 3	0.017 ppm	40.830 ppm	320.397 ppm	0.602 ppm
Concentration RSD	1.0 %	1.2 %	1.9 %	0.7 %
Concentration SD	0.0 ppm	0.5 ppm	6.2 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	0.015 ppm	0.063 ppm	0.033 ppm	0.234 ppm
Concentration per Run 1	0.016 ppm	0.063 ppm	0.033 ppm	0.233 ppm
Concentration per Run 2	0.013 ppm	0.065 ppm	0.033 ppm	0.234 ppm
Concentration per Run 3	0.015 ppm	0.060 ppm	0.033 ppm	0.233 ppm
Concentration RSD	10.7 %	3.8 %	0.3 %	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	0.008 ppm	0.005 ppm	-0.002 ppm	0.082 ppm
Concentration per Run 1	0.007 ppm	0.005 ppm	-0.001 ppm	0.080 ppm
Concentration per Run 2	0.008 ppm	0.005 ppm	-0.002 ppm	0.084 ppm
Concentration per Run 3	0.008 ppm	0.005 ppm	-0.001 ppm	0.082 ppm
Concentration RSD	5.7 %	4.5 %	48.7 %	2.7 %
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	0.136 ppm	0.025 ppm	6.361 ppm	33.995 ppm
Concentration per Run 1	0.135 ppm	0.024 ppm	6.335 ppm	33.884 ppm
Concentration per Run 2	0.137 ppm	0.025 ppm	6.385 ppm	34.133 ppm
Concentration per Run 3	0.136 ppm	0.025 ppm	6.362 ppm	33.969 ppm
Concentration RSD	0.6 %	0.8 %	0.4 %	0.4 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.1 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	0.002 ppm	0.000 ppm	0.056 ppm
Concentration per Run 1	-0.001 ppm	0.000 ppm	0.000 ppm	0.056 ppm
Concentration per Run 2	-0.002 ppm	0.003 ppm	0.000 ppm	0.056 ppm
Concentration per Run 3	-0.002 ppm	0.003 ppm	0.000 ppm	0.055 ppm
Concentration RSD	36.4 %	83.7 %	2,451.6 %	0.9 %
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	2.545 ppm	97.395 %	88.894 %	77.747 %
Concentration per Run 1	2.536 ppm	97.123 %	89.069 %	77.928 %
Concentration per Run 2	2.564 ppm	96.720 %	88.785 %	77.596 %
Concentration per Run 3	2.536 ppm	98.342 %	88.828 %	77.717 %
Concentration RSD	0.6 %	0.9 %	0.2 %	0.2 %
Concentration SD	0.0 ppm	0.8 %	0.2 %	0.2 %

	Y 360.073 {94} (Axial)	Na 818.326 {41} (Radial)	Zn 206.200 {463} (Axial)	Cd 228.802 {447} (Axial)
Concentration average	84.229 %	364.766 ppm	0.067 ppm	0.001 ppm
Concentration per Run 1	84.319 %	365.665 ppm	0.067 ppm	0.001 ppm
Concentration per Run 2	83.950 %	366.428 ppm	0.067 ppm	0.001 ppm
Concentration per Run 3	84.417 %	362.203 ppm	0.067 ppm	0.001 ppm
Concentration RSD	0.3 %	0.6 %	0.4 %	6.5 %
Concentration SD	0.2 %	2.3 ppm	0.0 ppm	0.0 ppm

	Cu 324.754 {104} (Radial)
Concentration average	-0.001 ppm
Concentration per Run 1	0.001 ppm
Concentration per Run 2	0.001 ppm
Concentration per Run 3	-0.006 ppm
Concentration RSD	294.3 %
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	7 cps	114 cps	1 cps	57,661 cps

	Ca 373.690 {90} (Radial)	Fe 259.940 {130} (Radial)	Fe 271.441 {124} (Radial)	K 766.490 {44} (Radial)
Intensity average	25,356 cps	10,924 cps	715 cps	25,727 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	157 cps	1,525 cps	476,537 cps	16,216 cps

	Ti 334.941 {101} (Radial)	V 292.402 {115} (Radial)	Co 228.616 {447} (Axial)	Ni 231.604 {446} (Axial)
Intensity average	24 cps	25 cps	88 cps	453 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	5 cps	-4 cps	27 cps

	Ba 233.527 {445} (Axial)	Mo 202.030 {467} (Axial)	S 182.034 {485} (Axial)	Si 251.611 {134} (Axial)
Intensity average	871 cps	86 cps	1,299 cps	67,985 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	3 cps	-4 cps	327 cps

	Mn 257.610 {131} (Axial)	Y 360.073 {94} (Radial)	Y 224.306 {450} (Axial)	In 230.606 {446} (Axial)
Intensity average	110,374 cps	4,486 cps	9,661 cps	2,901 cps

	Y 360.073 {94} (Axial)	Na 818.326 {41} (Radial)	Zn 206.200 {463} (Axial)	Cd 228.802 {447} (Axial)
Intensity average	145,499 cps	26,343 cps	233 cps	8 cps

	Cu 324.754 {104} (Radial)
Intensity average	7 cps

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Sample Type QC Analysis Date 10/29/2014 1:19:06 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	9.322 ppm	1.834 ppm	0.178 ppm	45.162 ppm
Concentration per Run 1	9.455 ppm	1.861 ppm	0.181 ppm	45.718 ppm
Concentration per Run 2	9.294 ppm	1.836 ppm	0.178 ppm	44.956 ppm
Concentration per Run 3	9.219 ppm	1.805 ppm	0.177 ppm	44.812 ppm
Concentration RSD	1.3 %	1.5 %	1.2 %	1.1 %
Concentration SD	0.1 ppm	0.0 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	47.240 ppm	9.629 ppm	10.608 ppm	42.996 ppm
Concentration per Run 1	47.807 ppm	9.771 ppm	10.736 ppm	43.559 ppm
Concentration per Run 2	47.026 ppm	9.547 ppm	10.384 ppm	42.730 ppm
Concentration per Run 3	46.886 ppm	9.570 ppm	10.704 ppm	42.700 ppm
Concentration RSD	1.1 %	1.3 %	1.8 %	1.1 %
Concentration SD	0.5 ppm	0.1 ppm	0.2 ppm	0.5 ppm

	Li 670.784 {50} (Radial)	Mg 279.079 {121} (Radial)	Na 589.592 {57} (Radial)	Sr 421.552 {80} (Radial)
Concentration average	1.392 ppm	8.938 ppm	44.452 ppm	0.918 ppm
Concentration per Run 1	1.408 ppm	9.025 ppm	45.033 ppm	0.931 ppm
Concentration per Run 2	1.385 ppm	8.883 ppm	44.210 ppm	0.914 ppm
Concentration per Run 3	1.384 ppm	8.905 ppm	44.113 ppm	0.910 ppm
Concentration RSD	1.0 %	0.9 %	1.1 %	1.2 %
Concentration SD	0.0 ppm	0.1 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	0.938 ppm	0.926 ppm	0.980 ppm	2.007 ppm
Concentration per Run 1	0.951 ppm	0.936 ppm	0.980 ppm	2.012 ppm
Concentration per Run 2	0.933 ppm	0.920 ppm	0.979 ppm	2.000 ppm
Concentration per Run 3	0.931 ppm	0.922 ppm	0.979 ppm	2.009 ppm
Concentration RSD	1.2 %	0.9 %	0.1 %	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	0.503 ppm	1.959 ppm	1.922 ppm	1.905 ppm
Concentration per Run 1	0.503 ppm	1.968 ppm	1.925 ppm	1.906 ppm
Concentration per Run 2	0.500 ppm	1.952 ppm	1.919 ppm	1.904 ppm
Concentration per Run 3	0.505 ppm	1.958 ppm	1.921 ppm	1.904 ppm
Concentration RSD	0.5 %	0.4 %	0.2 %	0.1 %
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	0.472 ppm	0.483 ppm	4.365 ppm	1.927 ppm
Concentration per Run 1	0.472 ppm	0.483 ppm	4.359 ppm	1.917 ppm
Concentration per Run 2	0.471 ppm	0.482 ppm	4.368 ppm	1.931 ppm
Concentration per Run 3	0.472 ppm	0.484 ppm	4.369 ppm	1.932 ppm
Concentration RSD	0.1 %	0.2 %	0.1 %	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	1.884 ppm	2.007 ppm	1.006 ppm	1.001 ppm
Concentration per Run 1	1.883 ppm	2.011 ppm	1.000 ppm	0.996 ppm
Concentration per Run 2	1.888 ppm	2.004 ppm	1.007 ppm	1.001 ppm
Concentration per Run 3	1.883 ppm	2.008 ppm	1.010 ppm	1.005 ppm
Concentration RSD	0.2 %	0.2 %	0.5 %	0.5 %
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	1.040 ppm	98.136 %	95.368 %	87.841 %
Concentration per Run 1	1.035 ppm	96.834 %	95.317 %	87.668 %
Concentration per Run 2	1.043 ppm	98.301 %	95.414 %	87.921 %
Concentration per Run 3	1.041 ppm	99.273 %	95.375 %	87.933 %
Concentration RSD	0.4 %	1.3 %	0.1 %	0.2 %
Concentration SD	0.0 ppm	1.2 %	0.0 %	0.1 %

	Y 360.073 {94} (Axial)	Na 818.326 {41} (Radial)	Zn 206.200 {463} (Axial)	Cd 228.802 {447} (Axial)
Concentration average	89.623 %	44.031 ppm	2.924 ppm	0.521 ppm
Concentration per Run 1	89.942 %	44.619 ppm	2.928 ppm	0.521 ppm
Concentration per Run 2	89.523 %	43.595 ppm	2.916 ppm	0.520 ppm
Concentration per Run 3	89.403 %	43.879 ppm	2.928 ppm	0.521 ppm
Concentration RSD	0.3 %	1.2 %	0.2 %	0.1 %
Concentration SD	0.3 %	0.5 ppm	0.0 ppm	0.0 ppm

	Cu 324.754 {104} (Radial)
Concentration average	1.804 ppm
Concentration per Run 1	1.827 ppm
Concentration per Run 2	1.788 ppm
Concentration per Run 3	1.797 ppm
Concentration RSD	1.1 %
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	307 cps	321 cps	2,318 cps	20,778 cps

	Ca 373.690 {90} (Radial)	Fe 259.940 {130} (Radial)	Fe 271.441 {124} (Radial)	K 766.490 {44} (Radial)
Intensity average	9,069 cps	2,619 cps	176 cps	22,770 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	15,033 cps	370 cps	73,038 cps	27,476 cps

	Ti 334.941 {101} (Radial)	V 292.402 {115} (Radial)	Co 228.616 {447} (Axial)	Ni 231.604 {446} (Axial)
Intensity average	1,839 cps	385 cps	3,237 cps	4,875 cps

	Pb 220.353 {453} (Axial)	Sn 189.989 {478} (Axial)	Tl 190.856 {477} (Axial)	As 189.042 {478} (Axial)
Intensity average	405 cps	1,991 cps	1,212 cps	805 cps

	Ba 233.527 {445} (Axial)	Mo 202.030 {467} (Axial)	S 182.034 {485} (Axial)	Si 251.611 {134} (Axial)
Intensity average	3,593 cps	1,947 cps	1,064 cps	4,569 cps

	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)	Ag 328.068 {103} (Axial)	Cr 267.716 {126} (Axial)
Intensity average	1,137 cps	705 cps	8,173 cps	6,645 cps

	Mn 257.610 {131} (Axial)	Y 360.073 {94} (Radial)	Y 224.306 {450} (Axial)	In 230.606 {446} (Axial)
Intensity average	53,324 cps	4,520 cps	10,365 cps	3,278 cps

	Y 360.073 {94} (Axial)	Na 818.326 {41} (Radial)	Zn 206.200 {463} (Axial)	Cd 228.802 {447} (Axial)
Intensity average	154,816 cps	3,442 cps	11,938 cps	2,750 cps

	Cu 324.754 {104} (Radial)
Intensity average	1,118 cps

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Sample Type QC Analysis Date 10/29/2014 1:23:14 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	-0.043 ppm	-0.003 ppm	0.000 ppm	-0.020 ppm
Concentration per Run 1	-0.040 ppm	-0.003 ppm	0.000 ppm	-0.016 ppm
Concentration per Run 2	-0.020 ppm	-0.008 ppm	0.000 ppm	-0.018 ppm
Concentration per Run 3	-0.071 ppm	0.003 ppm	0.000 ppm	-0.025 ppm
Concentration RSD	59.3 %	207.9 %	24.8 %	22.9 %
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	-0.028 ppm	-0.012 ppm	0.015 ppm	0.038 ppm
Concentration per Run 1	-0.013 ppm	-0.017 ppm	0.058 ppm	0.024 ppm
Concentration per Run 2	-0.029 ppm	-0.008 ppm	0.042 ppm	0.037 ppm
Concentration per Run 3	-0.043 ppm	-0.011 ppm	-0.054 ppm	0.053 ppm
Concentration RSD	52.1 %	39.1 %	396.3 %	38.7 %
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	-0.050 ppm	0.012 ppm	0.000 ppm
Concentration per Run 1	0.000 ppm	-0.012 ppm	0.014 ppm	0.000 ppm
Concentration per Run 2	0.001 ppm	-0.058 ppm	0.010 ppm	0.000 ppm
Concentration per Run 3	0.000 ppm	-0.078 ppm	0.013 ppm	0.000 ppm
Concentration RSD	215.7 %	69.0 %	16.8 %	87.2 %
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	0.000 ppm	-0.004 ppm	0.000 ppm	0.000 ppm
Concentration per Run 1	0.000 ppm	0.003 ppm	0.000 ppm	-0.001 ppm
Concentration per Run 2	0.001 ppm	-0.006 ppm	0.000 ppm	0.000 ppm
Concentration per Run 3	0.001 ppm	-0.010 ppm	0.000 ppm	0.000 ppm
Concentration RSD	157.0 %	165.1 %	380.4 %	49.3 %
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	0.001 ppm	0.001 ppm	0.001 ppm	0.000 ppm
Concentration per Run 1	0.001 ppm	0.000 ppm	0.001 ppm	-0.001 ppm
Concentration per Run 2	0.001 ppm	0.000 ppm	0.000 ppm	0.001 ppm
Concentration per Run 3	0.001 ppm	0.001 ppm	0.001 ppm	0.000 ppm
Concentration RSD	6.0 %	26.0 %	59.3 %	390.8 %
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	-0.009 ppm	0.001 ppm
Concentration per Run 1	0.000 ppm	0.000 ppm	-0.009 ppm	0.002 ppm
Concentration per Run 2	0.000 ppm	0.000 ppm	-0.009 ppm	0.001 ppm
Concentration per Run 3	0.000 ppm	0.000 ppm	-0.009 ppm	0.001 ppm
Concentration RSD	95.2 %	19.2 %	1.2 %	35.0 %
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	0.000 ppm	-0.001 ppm	0.001 ppm
Concentration per Run 1	0.002 ppm	0.001 ppm	-0.001 ppm	0.000 ppm
Concentration per Run 2	-0.001 ppm	0.001 ppm	-0.001 ppm	0.001 ppm
Concentration per Run 3	0.001 ppm	-0.002 ppm	0.000 ppm	0.000 ppm
Concentration RSD	171.9 %	13,822.4 %	70.4 %	38.0 %
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	0.000 ppm	98.443 %	101.391 %	100.678 %
Concentration per Run 1	0.000 ppm	98.850 %	101.339 %	100.555 %
Concentration per Run 2	0.000 ppm	98.888 %	101.472 %	100.777 %
Concentration per Run 3	0.000 ppm	97.591 %	101.363 %	100.702 %
Concentration RSD	76.6 %	0.7 %	0.1 %	0.1 %
Concentration SD	0.0 ppm	0.7 %	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	96.707 %	0.187 ppm	0.000 ppm	0.000 ppm
Concentration per Run 1	96.768 %	0.213 ppm	0.000 ppm	0.000 ppm
Concentration per Run 2	96.458 %	0.216 ppm	0.000 ppm	0.000 ppm
Concentration per Run 3	96.893 %	0.131 ppm	-0.001 ppm	0.000 ppm
Concentration RSD	0.2 %	25.7 %	21.5 %	49.2 %
Concentration SD	0.2 %	0.0 ppm	0.0 ppm	0.0 ppm

	Cu 324.754 {104} (Radial)
Concentration average	0.000 ppm
Concentration per Run 1	-0.002 ppm
Concentration per Run 2	0.001 ppm
Concentration per Run 3	0.002 ppm
Concentration RSD	442.0 %
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	-2 cps	36 cps

	Ca 373.690 {90} (Radial)	Fe 259.940 {130} (Radial)	Fe 271.441 {124} (Radial)	K 766.490 {44} (Radial)
Intensity average	15 cps	8 cps	1 cps	55 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 cps	-1 cps	91 cps	0 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	0 cps	0 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	2 cps	-4 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	4 cps	20 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	2 cps	-10 cps	19 cps

	Mn 257.610 {131} (Axial)	Y 360.073 {94} (Radial)	Y 224.306 {450} (Axial)	In 230.606 {446} (Axial)
Intensity average	13 cps	4,535 cps	11,019 cps	3,757 cps

	Y 360.073 {94} (Axial)	Na 818.326 {41} (Radial)	Zn 206.200 {463} (Axial)	Cd 228.802 {447} (Axial)
Intensity average	167,054 cps	-122 cps	2 cps	4 cps

	Cu 324.754 {104} (Radial)
Intensity average	8 cps

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Sample Type QC Analysis Date 10/29/2014 1:49:43 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	0.085 ppm	0.176 ppm	0.002 ppm	0.418 ppm
Concentration per Run 1	0.014 ppm	0.140 ppm	0.001 ppm	0.364 ppm
Concentration per Run 2	0.115 ppm	0.194 ppm	0.002 ppm	0.443 ppm
Concentration per Run 3	0.125 ppm	0.194 ppm	0.002 ppm	0.446 ppm
Concentration RSD	72.8 %	17.9 %	20.0 %	11.1 %
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	0.430 ppm	0.084 ppm	0.038 ppm	0.387 ppm
Concentration per Run 1	0.370 ppm	0.063 ppm	0.089 ppm	0.334 ppm
Concentration per Run 2	0.443 ppm	0.089 ppm	-0.033 ppm	0.400 ppm
Concentration per Run 3	0.476 ppm	0.099 ppm	0.056 ppm	0.427 ppm
Concentration RSD	12.6 %	21.9 %	167.3 %	12.4 %
Concentration SD	0.1 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	0.013 ppm	0.076 ppm	0.437 ppm	0.009 ppm
Concentration per Run 1	0.012 ppm	0.077 ppm	0.382 ppm	0.008 ppm
Concentration per Run 2	0.013 ppm	0.066 ppm	0.450 ppm	0.009 ppm
Concentration per Run 3	0.015 ppm	0.085 ppm	0.479 ppm	0.010 ppm
Concentration RSD	10.9 %	12.4 %	11.3 %	9.4 %
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	0.009 ppm	0.006 ppm	0.010 ppm	0.020 ppm
Concentration per Run 1	0.008 ppm	0.007 ppm	0.010 ppm	0.020 ppm
Concentration per Run 2	0.011 ppm	0.003 ppm	0.010 ppm	0.020 ppm
Concentration per Run 3	0.010 ppm	0.007 ppm	0.010 ppm	0.020 ppm
Concentration RSD	17.5 %	33.3 %	2.4 %	1.0 %
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	0.006 ppm	0.020 ppm	0.020 ppm	0.017 ppm
Concentration per Run 1	0.005 ppm	0.019 ppm	0.020 ppm	0.018 ppm
Concentration per Run 2	0.006 ppm	0.020 ppm	0.020 ppm	0.017 ppm
Concentration per Run 3	0.006 ppm	0.019 ppm	0.019 ppm	0.017 ppm
Concentration RSD	13.0 %	1.2 %	4.0 %	2.9 %
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	4.258 ppm	0.187 ppm
Concentration per Run 1	0.005 ppm	0.005 ppm	4.266 ppm	0.185 ppm
Concentration per Run 2	0.005 ppm	0.005 ppm	4.250 ppm	0.187 ppm
Concentration per Run 3	0.005 ppm	0.005 ppm	4.256 ppm	0.189 ppm
Concentration RSD	0.7 %	2.4 %	0.2 %	1.1 %
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	0.020 ppm	0.021 ppm	0.010 ppm	0.011 ppm
Concentration per Run 1	0.020 ppm	0.022 ppm	0.010 ppm	0.011 ppm
Concentration per Run 2	0.020 ppm	0.021 ppm	0.010 ppm	0.010 ppm
Concentration per Run 3	0.019 ppm	0.018 ppm	0.009 ppm	0.011 ppm
Concentration RSD	2.5 %	10.2 %	3.8 %	6.9 %
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	104.953 %	101.690 %	100.532 %
Concentration per Run 1	0.011 ppm	114.189 %	101.485 %	100.465 %
Concentration per Run 2	0.011 ppm	101.710 %	101.771 %	100.486 %
Concentration per Run 3	0.011 ppm	98.960 %	101.815 %	100.645 %
Concentration RSD	0.8 %	7.7 %	0.2 %	0.1 %
Concentration SD	0.0 ppm	8.1 %	0.2 %	0.1 %

	Y 360.073 {94} (Axial)	Na 818.326 {41} (Radial)	Zn 206.200 {463} (Axial)	Cd 228.802 {447} (Axial)
Concentration average	96.448 %	0.601 ppm	0.030 ppm	0.005 ppm
Concentration per Run 1	96.585 %	0.608 ppm	0.030 ppm	0.005 ppm
Concentration per Run 2	96.270 %	0.615 ppm	0.030 ppm	0.005 ppm
Concentration per Run 3	96.489 %	0.580 ppm	0.030 ppm	0.005 ppm
Concentration RSD	0.2 %	3.1 %	0.3 %	1.4 %
Concentration SD	0.2 %	0.0 ppm	0.0 ppm	0.0 ppm

	Cu 324.754 {104} (Radial)
Concentration average	0.016 ppm
Concentration per Run 1	0.011 ppm
Concentration per Run 2	0.020 ppm
Concentration per Run 3	0.017 ppm
Concentration RSD	30.8 %
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	8 cps	33 cps	21 cps	252 cps

	Ca 373.690 {90} (Radial)	Fe 259.940 {130} (Radial)	Fe 271.441 {124} (Radial)	K 766.490 {44} (Radial)
Intensity average	109 cps	36 cps	2 cps	254 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	142 cps	5 cps	838 cps	284 cps

	Ti 334.941 {101} (Radial)	V 292.402 {115} (Radial)	Co 228.616 {447} (Axial)	Ni 231.604 {446} (Axial)
Intensity average	18 cps	4 cps	37 cps	57 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	24 cps	10 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	44 cps	25 cps	1,107 cps	492 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	81 cps	91 cps

	Mn 257.610 {131} (Axial)	Y 360.073 {94} (Radial)	Y 224.306 {450} (Axial)	In 230.606 {446} (Axial)
Intensity average	614 cps	4,834 cps	11,052 cps	3,752 cps

	Y 360.073 {94} (Axial)	Na 818.326 {41} (Radial)	Zn 206.200 {463} (Axial)	Cd 228.802 {447} (Axial)
Intensity average	166,607 cps	-94 cps	136 cps	34 cps

	Cu 324.754 {104} (Radial)
Intensity average	18 cps

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ICSA 14J27643

Sample Type QC Analysis Date 10/29/2014 1:54:12 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	448.725 ppm	0.001 ppm	0.000 ppm	431.602 ppm
Concentration per Run 1	444.373 ppm	0.005 ppm	0.000 ppm	428.959 ppm
Concentration per Run 2	452.196 ppm	-0.006 ppm	0.000 ppm	434.876 ppm
Concentration per Run 3	449.606 ppm	0.003 ppm	0.000 ppm	430.972 ppm
Concentration RSD	0.9 %	940.8 %	526.0 %	0.7 %
Concentration SD	4.0 ppm	0.0 ppm	0.0 ppm	3.0 ppm

	Ca 373.690 {90} (Radial)	Fe 259.940 {130} (Radial)	Fe 271.441 {124} (Radial)	K 766.490 {44} (Radial)
Concentration average	466.366 ppm	169.479 ppm	188.174 ppm	0.018 ppm
Concentration per Run 1	462.156 ppm	168.329 ppm	187.201 ppm	0.010 ppm
Concentration per Run 2	470.184 ppm	170.918 ppm	189.623 ppm	0.018 ppm
Concentration per Run 3	466.759 ppm	169.192 ppm	187.698 ppm	0.025 ppm
Concentration RSD	0.9 %	0.8 %	0.7 %	43.4 %
Concentration SD	4.0 ppm	1.3 ppm	1.3 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	487.987 ppm	0.051 ppm	0.007 ppm
Concentration per Run 1	0.004 ppm	486.132 ppm	0.051 ppm	0.007 ppm
Concentration per Run 2	0.006 ppm	491.087 ppm	0.051 ppm	0.007 ppm
Concentration per Run 3	0.003 ppm	486.743 ppm	0.052 ppm	0.007 ppm
Concentration RSD	27.0 %	0.6 %	1.8 %	1.6 %
Concentration SD	0.0 ppm	2.7 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	0.004 ppm	0.000 ppm	0.001 ppm	-0.008 ppm
Concentration per Run 1	0.002 ppm	-0.006 ppm	0.002 ppm	-0.009 ppm
Concentration per Run 2	0.004 ppm	0.002 ppm	0.001 ppm	-0.008 ppm
Concentration per Run 3	0.005 ppm	0.004 ppm	0.001 ppm	-0.008 ppm
Concentration RSD	41.8 %	2,226.1 %	30.0 %	5.2 %
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	-0.038 ppm	0.002 ppm	-0.005 ppm	-0.003 ppm
Concentration per Run 1	-0.036 ppm	0.001 ppm	-0.001 ppm	-0.004 ppm
Concentration per Run 2	-0.039 ppm	0.002 ppm	-0.008 ppm	0.000 ppm
Concentration per Run 3	-0.038 ppm	0.002 ppm	-0.005 ppm	-0.005 ppm
Concentration RSD	3.4 %	24.0 %	66.3 %	81.5 %
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	0.000 ppm	0.012 ppm	0.004 ppm
Concentration per Run 1	0.002 ppm	0.000 ppm	0.015 ppm	0.003 ppm
Concentration per Run 2	0.002 ppm	0.000 ppm	0.008 ppm	0.008 ppm
Concentration per Run 3	0.002 ppm	-0.001 ppm	0.013 ppm	0.001 ppm
Concentration RSD	1.0 %	184.1 %	28.0 %	90.2 %
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	-0.007 ppm	0.022 ppm	0.000 ppm	0.002 ppm
Concentration per Run 1	-0.006 ppm	0.021 ppm	0.000 ppm	0.002 ppm
Concentration per Run 2	-0.007 ppm	0.018 ppm	-0.001 ppm	0.002 ppm
Concentration per Run 3	-0.009 ppm	0.026 ppm	0.001 ppm	0.001 ppm
Concentration RSD	18.4 %	19.1 %	505.5 %	50.3 %
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	-0.002 ppm	92.858 %	87.674 %	72.979 %
Concentration per Run 1	-0.002 ppm	93.370 %	87.481 %	72.947 %
Concentration per Run 2	-0.002 ppm	91.979 %	87.652 %	72.862 %
Concentration per Run 3	-0.002 ppm	93.226 %	87.888 %	73.128 %
Concentration RSD	2.9 %	0.8 %	0.2 %	0.2 %
Concentration SD	0.0 ppm	0.8 %	0.2 %	0.1 %

	Y 360.073 {94} (Axial)	Na 818.326 {41} (Radial)	Zn 206.200 {463} (Axial)	Cd 228.802 {447} (Axial)
Concentration average	80.727 %	0.117 ppm	0.005 ppm	-0.001 ppm
Concentration per Run 1	80.759 %	0.154 ppm	0.005 ppm	-0.001 ppm
Concentration per Run 2	80.735 %	0.135 ppm	0.005 ppm	-0.001 ppm
Concentration per Run 3	80.687 %	0.063 ppm	0.005 ppm	-0.001 ppm
Concentration RSD	0.0 %	40.8 %	5.1 %	9.4 %
Concentration SD	0.0 %	0.0 ppm	0.0 ppm	0.0 ppm

	Cu 324.754 {104} (Radial)
Concentration average	-0.004 ppm
Concentration per Run 1	0.002 ppm
Concentration per Run 2	-0.002 ppm
Concentration per Run 3	-0.010 ppm
Concentration RSD	165.4 %
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	13,762 cps	1 cps	0 cps	187,536 cps

	Ca 373.690 {90} (Radial)	Fe 259.940 {130} (Radial)	Fe 271.441 {124} (Radial)	K 766.490 {44} (Radial)
Intensity average	84,555 cps	43,439 cps	2,931 cps	41 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	36 cps	19,064 cps	147 cps	201 cps

	Ti 334.941 {101} (Radial)	V 292.402 {115} (Radial)	Co 228.616 {447} (Axial)	Ni 231.604 {446} (Axial)
Intensity average	6 cps	1 cps	3 cps	-15 cps

	Pb 220.353 {453} (Axial)	Sn 189.989 {478} (Axial)	Tl 190.856 {477} (Axial)	As 189.042 {478} (Axial)
Intensity average	-26 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	18 cps	2 cps	8 cps	22 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	9 cps	-5 cps	22 cps

	Mn 257.610 {131} (Axial)	Y 360.073 {94} (Radial)	Y 224.306 {450} (Axial)	In 230.606 {446} (Axial)
Intensity average	-93 cps	4,277 cps	9,529 cps	2,723 cps

	Y 360.073 {94} (Axial)	Na 818.326 {41} (Radial)	Zn 206.200 {463} (Axial)	Cd 228.802 {447} (Axial)
Intensity average	139,450 cps	-120 cps	21 cps	-1 cps

	Cu 324.754 {104} (Radial)
Intensity average	5 cps

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ICSAB 14J27644

Sample Type QC Analysis Date 10/29/2014 1:58:39 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	446.659 ppm	0.931 ppm	0.441 ppm	428.645 ppm
Concentration per Run 1	444.280 ppm	0.930 ppm	0.438 ppm	424.856 ppm
Concentration per Run 2	446.739 ppm	0.946 ppm	0.444 ppm	431.061 ppm
Concentration per Run 3	448.958 ppm	0.916 ppm	0.442 ppm	430.017 ppm
Concentration RSD	0.5 %	1.6 %	0.6 %	0.8 %
Concentration SD	2.3 ppm	0.0 ppm	0.0 ppm	3.3 ppm

	Ca 373.690 {90} (Radial)	Fe 259.940 {130} (Radial)	Fe 271.441 {124} (Radial)	K 766.490 {44} (Radial)
Concentration average	463.096 ppm	168.206 ppm	187.332 ppm	0.024 ppm
Concentration per Run 1	459.383 ppm	166.833 ppm	185.709 ppm	0.041 ppm
Concentration per Run 2	465.215 ppm	169.021 ppm	188.231 ppm	0.013 ppm
Concentration per Run 3	464.690 ppm	168.765 ppm	188.056 ppm	0.018 ppm
Concentration RSD	0.7 %	0.7 %	0.8 %	62.6 %
Concentration SD	3.2 ppm	1.2 ppm	1.4 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	0.005 ppm	485.066 ppm	0.047 ppm	0.008 ppm
Concentration per Run 1	0.004 ppm	480.048 ppm	0.047 ppm	0.010 ppm
Concentration per Run 2	0.005 ppm	488.658 ppm	0.045 ppm	0.007 ppm
Concentration per Run 3	0.005 ppm	486.493 ppm	0.048 ppm	0.007 ppm
Concentration RSD	6.0 %	0.9 %	3.3 %	18.0 %
Concentration SD	0.0 ppm	4.5 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	0.465 ppm	0.458 ppm	0.488 ppm	0.986 ppm
Concentration per Run 1	0.465 ppm	0.459 ppm	0.489 ppm	0.986 ppm
Concentration per Run 2	0.466 ppm	0.456 ppm	0.487 ppm	0.985 ppm
Concentration per Run 3	0.465 ppm	0.460 ppm	0.489 ppm	0.986 ppm
Concentration RSD	0.1 %	0.4 %	0.2 %	0.0 %
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	0.985 ppm	0.497 ppm	0.469 ppm	0.481 ppm
Concentration per Run 1	0.983 ppm	0.498 ppm	0.467 ppm	0.482 ppm
Concentration per Run 2	0.987 ppm	0.496 ppm	0.470 ppm	0.480 ppm
Concentration per Run 3	0.986 ppm	0.497 ppm	0.470 ppm	0.481 ppm
Concentration RSD	0.2 %	0.2 %	0.3 %	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	0.443 ppm	0.449 ppm	0.010 ppm	1.009 ppm
Concentration per Run 1	0.444 ppm	0.449 ppm	0.009 ppm	1.004 ppm
Concentration per Run 2	0.443 ppm	0.449 ppm	0.011 ppm	1.009 ppm
Concentration per Run 3	0.443 ppm	0.450 ppm	0.010 ppm	1.013 ppm
Concentration RSD	0.2 %	0.1 %	10.3 %	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	0.477 ppm	0.526 ppm	1.146 ppm	0.475 ppm
Concentration per Run 1	0.477 ppm	0.528 ppm	1.140 ppm	0.472 ppm
Concentration per Run 2	0.475 ppm	0.530 ppm	1.147 ppm	0.476 ppm
Concentration per Run 3	0.478 ppm	0.520 ppm	1.151 ppm	0.479 ppm
Concentration RSD	0.3 %	1.0 %	0.5 %	0.8 %
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	0.487 ppm	93.909 %	88.095 %	73.171 %
Concentration per Run 1	0.486 ppm	94.677 %	88.132 %	73.189 %
Concentration per Run 2	0.489 ppm	93.349 %	88.200 %	73.304 %
Concentration per Run 3	0.488 ppm	93.702 %	87.954 %	73.019 %
Concentration RSD	0.3 %	0.7 %	0.1 %	0.2 %
Concentration SD	0.0 ppm	0.7 %	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	81.001 %	0.105 ppm	0.897 ppm	1.031 ppm
Concentration per Run 1	81.312 %	0.078 ppm	0.900 ppm	1.030 ppm
Concentration per Run 2	81.029 %	0.178 ppm	0.895 ppm	1.031 ppm
Concentration per Run 3	80.663 %	0.059 ppm	0.897 ppm	1.032 ppm
Concentration RSD	0.4 %	61.3 %	0.3 %	0.1 %
Concentration SD	0.3 %	0.1 ppm	0.0 ppm	0.0 ppm

	Cu 324.754 {104} (Radial)
Concentration average	0.452 ppm
Concentration per Run 1	0.454 ppm
Concentration per Run 2	0.452 ppm
Concentration per Run 3	0.449 ppm
Concentration RSD	0.5 %
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	13,854 cps	156 cps	5,487 cps	188,360 cps

	Ca 373.690 {90} (Radial)	Fe 259.940 {130} (Radial)	Fe 271.441 {124} (Radial)	K 766.490 {44} (Radial)
Intensity average	84,914 cps	43,601 cps	2,951 cps	45 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	40 cps	19,165 cps	141 cps	226 cps

	Ti 334.941 {101} (Radial)	V 292.402 {115} (Radial)	Co 228.616 {447} (Axial)	Ni 231.604 {446} (Axial)
Intensity average	872 cps	183 cps	1,344 cps	1,995 cps

	Pb 220.353 {453} (Axial)	Sn 189.989 {478} (Axial)	Tl 190.856 {477} (Axial)	As 189.042 {478} (Axial)
Intensity average	662 cps	421 cps	244 cps	186 cps

	Ba 233.527 {445} (Axial)	Mo 202.030 {467} (Axial)	S 182.034 {485} (Axial)	Si 251.611 {134} (Axial)
Intensity average	3,118 cps	1,673 cps	8 cps	2,169 cps

	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)	Ag 328.068 {103} (Axial)	Cr 267.716 {126} (Axial)
Intensity average	266 cps	172 cps	8,418 cps	2,861 cps

	Mn 257.610 {131} (Axial)	Y 360.073 {94} (Radial)	Y 224.306 {450} (Axial)	In 230.606 {446} (Axial)
Intensity average	22,588 cps	4,326 cps	9,574 cps	2,731 cps

	Y 360.073 {94} (Axial)	Na 818.326 {41} (Radial)	Zn 206.200 {463} (Axial)	Cd 228.802 {447} (Axial)
Intensity average	139,924 cps	-123 cps	3,387 cps	5,025 cps

	Cu 324.754 {104} (Radial)
Intensity average	273 cps

Sample Information Detail Report
Document Name: 102814ICP11

File Description
Default Sample Information File

Parameters Common to All Samples

Analyst Name	388
YTTRIUM	14J27640
CAL STD	14J27638
ICV STD	14J27639
CCV STD	14J27642
ICSA/B	14J27643/644

Parameters That Vary By Sample

Sample No	A/S Location	Sample ID	Initial Sample Vol.
1	18	ICSA	
2	19	ICSAB	
3	71	BLANK WG750743	
4	72	LCS WG750743	
5	73	LCSD WG750743	
6	74	L729728-01 WG750743	
7	75	L729728-02 WG750743	
8	131	BLANK WG751037	
9	132	LCS WG751037	
10	133	LCSD WG751037	
11	134	L729878-01 WG751037	
12	135	SD L729878-01 WG751	
13	137	MS L729878-01 WG751	
14	138	MSD L729878-01 WG75	
15	139	L729689-02 WG751037	
16	140	L729821-12 WG751037	
17	141	L729845-03 WG751037	
18	131	BLANK WG751037	
19	142	L729845-04 WG751037	
20	143	L729878-02 WG751037	
21	144	L729878-03 WG751037	
22	145	L729878-04 WG751037	
23	146	L729878-05 WG751037	
24	147	L729878-06 WG751037	
25	148	L729878-07 WG751037	
26	149	L729878-08 WG751037	
27	150	L729878-09 WG751037	
28	151	L729915-01 WG751037	
29	152	L729915-02 WG751037	
30	153	L729915-03 WG751037	
31	154	L729915-04 WG751037	
32	155	L729915-02 WG751037	
33	70	LCSL WG750440	
34	191	BLANK WG751228	5
35	192	LCS WG751228	5
36	193	LCSD WG751228	5
37	194	L729778-07 WG751228	5
38	195	SD L729778-07 WG751	5
39	196	PS L729778-07 WG751	5
40	197	MS L729778-07 WG751	5
41	198	MSD L729778-07 WG75	5
42	199	L727205-03 WG751228	5
43	200	L729342-01 WG751228	5
44	201	L729342-02 WG751228	5
45	202	L729342-03 WG751228	5
46	203	L729585-01 WG751228	5
47	204	L729585-02 WG751228	5
48	205	L729585-03 WG751228	5
49	206	L729598-01 WG751228	5

50	207	L729598-02 WG751228	5
51	208	L729598-03 WG751228	5
52	209	L729638-01 WG751228	5
53	210	L729778-01 WG751228	5
54	211	L729778-03 WG751228	5
55	212	L729778-05 WG751228	5
56	213	L729782-01 WG751228	5
57	214	L729782-01 WG751228	5
58	71	BLANK WG751198	45
59	72	LCS WG751198	45
60	73	LCSD WG751198	45
61	74	L729798-03 WG751198	45
62	75	SD L729798-03 WG751	45
63	77	MS L729798-03 WG751	45
64	78	MSD L729798-03 WG75	45
65	79	L729373-01 WG751198	45
66	80	L729373-02 WG751198	45
67	81	L729373-03 WG751198	45
68	82	L729798-01 WG751198	45
69	83	L729798-05 WG751198	45
70	84	L729800-02 WG751198	45
71	85	L729867-01 WG751198	45
72	86	L729876-01 WG751198	45
73	87	L729976-01 WG751198	45
74	88	L729976-02 WG751198	45
75	89	L729976-03 WG751198	45
76	90	L729989-01 WG751198	45
77	91	L729989-02 WG751198	45
78	92	L729989-03 WG751198	45
79	0	INSTBLK	
80	0	INSTBLK	
81	131	BLANK WG750261	
82	132	LCS WG750261	
83	133	LCSD WG750261	
84	134	L729024-01 WG750261	
85	135	SD L729024-01 WG750	
86	136	PS L729024-01 WG750	
87	137	MS L729024-01 WG750	
88	138	MSD L729024-01 WG75	
89	139	L729024-02 WG750261	
90	140	L729024-04 WG750261	
91	141	L729024-05 WG750261	
92	142	L729026-01 WG750261	
93	143	L729026-02 WG750261	
94	144	L729026-03 WG750261	
95	145	L729026-05 WG750261	
96	146	L729026-06 WG750261	
97	147	L729030-01 WG750261	
98	148	L729030-02 WG750261	
99	149	L729030-04 WG750261	
100	150	L729030-05 WG750261	
101	151	L729032-01 WG750261	
102	152	L729032-02 WG750261	
103	153	L729032-04 WG750261	
104	154	L729032-05 WG750261	
105	155	L729032-06 WG750261	
106	156	L729032-07 WG750261	
107	157	L729078-01 WG750261	
108	18	ICSA	
109	19	ICSAB	
110	0	INSTBLK	

Sample No	Initial Sample Wt.	Volume Units	Weight Units
1		mL	g

2		mL	g
3	0.52	mL	g
4	0.5	mL	g
5	0.5	mL	g
6	0.55	mL	g
7	0.53	mL	g
8	0.49	mL	g
9	0.5	mL	g
10	0.5	mL	g
11	0.49	mL	g
12	0.49	mL	g
13	0.5	mL	g
14	0.51	mL	g
15	0.5	mL	g
16	0.52	mL	g
17	0.51	mL	g
18	0.49	mL	g
19	0.48	mL	g
20	0.51	mL	g
21	0.5	mL	g
22	0.48	mL	g
23	0.52	mL	g
24	0.51	mL	g
25	0.51	mL	g
26	0.48	mL	g
27	0.48	mL	g
28	0.48	mL	g
29	0.49	mL	g
30	0.48	mL	g
31	0.5	mL	g
32	0.49	mL	g
33	0.111	mL	g
34		mL	g
35		mL	g
36		mL	g
37		mL	g
38		mL	g
39		mL	g
40		mL	g
41		mL	g
42		mL	g
43		mL	g
44		mL	g
45		mL	g
46		mL	g
47		mL	g
48		mL	g
49		mL	g
50		mL	g
51		mL	g
52		mL	g
53		mL	g
54		mL	g
55		mL	g
56		mL	g
57		mL	g
58		mL	g
59		mL	g
60		mL	g
61		mL	g
62		mL	g
63		mL	g
64		mL	g
65		mL	g

66		mL	g
67		mL	g
68		mL	g
69		mL	g
70		mL	g
71		mL	g
72		mL	g
73		mL	g
74		mL	g
75		mL	g
76		mL	g
77		mL	g
78		mL	g
79		mL	g
80		mL	g
81	0.52	mL	g
82	0.51	mL	g
83	0.49	mL	g
84	0.49	mL	g
85	0.49	mL	g
86	0.49	mL	g
87	0.52	mL	g
88	0.49	mL	g
89	0.49	mL	g
90	0.51	mL	g
91	0.48	mL	g
92	0.5	mL	g
93	0.5	mL	g
94	0.49	mL	g
95	0.51	mL	g
96	0.49	mL	g
97	0.5	mL	g
98	0.5	mL	g
99	0.5	mL	g
100	0.52	mL	g
101	0.52	mL	g
102	0.5	mL	g
103	0.51	mL	g
104	0.49	mL	g
105	0.49	mL	g
106	0.49	mL	g
107	5	mL	g
108		mL	g
109		mL	g
110		mL	g

Sample No	Sample Prep. Vol.	Aliquot Volume	Diluted To Vol.
1			
2			
3	50		
4	50		
5	50		
6	50		
7	50		
8	50		
9	50		
10	50		
11	50		
12	50	1	5
13	50		
14	50		
15	50		
16	50		
17	50		

18	50		
19	50		
20	50		
21	50		
22	50		
23	50		
24	50		
25	50		
26	50		
27	50		
28	50		
29	50		
30	50		
31	50		
32	50	1	5
33	50		
34	50		
35	50		
36	50		
37	50		
38	50	1	5
39	50		
40	50		
41	50		
42	50		
43	50		
44	50		
45	50		
46	50		
47	50		
48	50		
49	50		
50	50		
51	50		
52	50		
53	50		
54	50		
55	50		
56	50		
57	50	1	5
58	50		
59	50		
60	50		
61	50		
62	50	1	5
63	50		
64	50		
65	50		
66	50		
67	50		
68	50		
69	50		
70	50		
71	50		
72	50		
73	50		
74	50		
75	50		
76	50		
77	50		
78	50		
79			
80			
81	50		

82	50		
83	50		
84	50		
85	50	1	5
86	50		
87	50		
88	50		
89	50		
90	50		
91	50		
92	50		
93	50		
94	50		
95	50		
96	50		
97	50		
98	50		
99	50		
100	50		
101	50		
102	50		
103	50		
104	50		
105	50		
106	50		
107	50		
108			
109			
110			

Sample No	Remarks	Sample Units *	Batch ID
1		mg/L	
2		mg/L	
3	SS	mg/kg	388/388
4	SS	mg/kg	388/388
5	SS	mg/kg	388/388
6	SS	mg/kg	388/388
7	SS	mg/kg	388/388
8	SS	mg/kg	388/388
9	SS	mg/kg	388/388
10	SS	mg/kg	388/388
11	SS	mg/kg	388/388
12	SS	mg/kg	388/388
13	SS	mg/kg	388/388
14	SS	mg/kg	388/388
15	SS	mg/kg	388/388
16	SS	mg/kg	388/388
17	SS	mg/kg	388/388
18	SS	mg/kg	388/388
19	SS	mg/kg	388/388
20	SS	mg/kg	388/388
21	SS	mg/kg	388/388
22	SS	mg/kg	388/388
23	SS	mg/kg	388/388
24	SS	mg/kg	388/388
25	SS	mg/kg	388/388
26	SS	mg/kg	388/388
27	SS	mg/kg	388/388
28	SS	mg/kg	388/388
29	SS	mg/kg	388/388
30	SS	mg/kg	388/388
31	SS	mg/kg	388/388
32	SS	mg/kg	388/388
33	PAINT	mg/kg	388/388

34	TCLP	mg/L	388/388
35	TCLP	mg/L	388/388
36	TCLP	mg/L	388/388
37	TCLP	mg/L	388/388
38	TCLP	mg/L	388/388
39	TCLP	mg/L	388/388
40	TCLP	mg/L	388/388
41	TCLP	mg/L	388/388
42	TCLP	mg/L	388/388
43	TCLP	mg/L	388/388
44	TCLP	mg/L	388/388
45	TCLP	mg/L	388/388
46	TCLP	mg/L	388/388
47	TCLP	mg/L	388/388
48	TCLP	mg/L	388/388
49	TCLP	mg/L	388/388
50	TCLP	mg/L	388/388
51	TCLP	mg/L	388/388
52	TCLP	mg/L	388/388
53	TCLP	mg/L	388/388
54	TCLP	mg/L	388/388
55	TCLP	mg/L	388/388
56	TCLP	mg/L	388/388
57	TCLP	mg/L	388/388
58	GW	mg/L	388/388
59	GW	mg/L	388/388
60	GW	mg/L	388/388
61	GW	mg/L	388/388
62	GW	mg/L	388/388
63	GW	mg/L	388/388
64	GW	mg/L	388/388
65	GW	mg/L	388/388
66	GW	mg/L	388/388
67	GW	mg/L	388/388
68	GW	mg/L	388/388
69	GW	mg/L	388/388
70	GW	mg/L	388/388
71	GW	mg/L	388/388
72	GW	mg/L	388/388
73	GW	mg/L	388/388
74	GW	mg/L	388/388
75	GW	mg/L	388/388
76	GW	mg/L	388/388
77	GW	mg/L	388/388
78	GW	mg/L	388/388
79		mg/L	
80		mg/L	
81	SS	mg/kg	388/MOVED
82	SS	mg/kg	388/MOVED
83	SS	mg/kg	388/MOVED
84	SS	mg/kg	388/MOVED
85	SS	mg/kg	388/MOVED
86	SS	mg/kg	388/MOVED
87	SS	mg/kg	388/MOVED
88	SS	mg/kg	388/MOVED
89	SS	mg/kg	388/MOVED
90	SS	mg/kg	388/MOVED
91	SS	mg/kg	388/MOVED
92	SS	mg/kg	388/MOVED
93	SS	mg/kg	388/MOVED
94	SS	mg/kg	388/MOVED
95	SS	mg/kg	388/MOVED
96	SS	mg/kg	388/MOVED
97	SS	mg/kg	388/MOVED

98	SS	mg/kg	388/MOVED
99	SS	mg/kg	388/MOVED
100	SS	mg/kg	388/MOVED
101	SS	mg/kg	388/MOVED
102	SS	mg/kg	388/MOVED
103	SS	mg/kg	388/MOVED
104	SS	mg/kg	388/MOVED
105	SS	mg/kg	388/MOVED
106	SS	mg/kg	388/MOVED
107	SS	mg/kg	388/MOVED
108		mg/L	
109		mg/L	
110		mg/L	

==========

Analysis Begun

Start Time: 10/28/2014 9:42:12 AM
Logged In Analyst: ICP11
Spectrometer: Optima 8300 , S/N 078S1402113
Plasma On Time: 10/28/2014 8:27:47 AM
Technique: ICP Continuous
Autosampler: Cetac

Sample Information File: C:\pe\ICP11\Sample Information\102814ICP11.sif
Batch ID:
Results Data Set: 102814ICP11
Results Library: C:\pe\ICP11\Results\Results.mdb

==========

Sequence No.: 1
Sample ID: CALBLK
Analyst:
Initial Sample Wt:
Dilution:
Wash Time:
Autosampler Location: 11
Date Collected: 10/28/2014 9:42:14 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: CALBLK

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Y 360.073	2667980.9	62680.47	2.35%	100.0	mg/L
Y 360.073 R	140190.9	706.95	0.50%	10.00	mg/L
Ag 328.068†	-1889.6	120.15	6.36%	[0.00]	mg/L
Al 308.215†	158.4	7.59	4.79%	[0.00]	mg/L
As 188.979†	-24.7	4.62	18.72%	[0.00]	mg/L
Ba 233.527†	-44.6	3.52	7.90%	[0.00]	mg/L
Be 313.107†	665.7	65.49	9.84%	[0.00]	mg/L
Ca 315.887†	-27365.6	529.31	1.93%	[0.00]	mg/L
Cd 214.440†	628.0	14.38	2.29%	[0.00]	mg/L
Co 228.616†	-226.5	12.27	5.42%	[0.00]	mg/L
Cr 205.560†	-27.9	3.53	12.65%	[0.00]	mg/L
Cu 324.752†	2875.9	35.14	1.22%	[0.00]	mg/L
Fe 238.863†	741.0	24.44	3.30%	[0.00]	mg/L
Mg 279.077†	-49.2	10.20	20.73%	[0.00]	mg/L
Mn 257.610†	1264.3	34.51	2.73%	[0.00]	mg/L
Mo 202.031†	58.3	5.94	10.19%	[0.00]	mg/L
Ni 232.003†	-898.2	20.57	2.29%	[0.00]	mg/L
Pb 220.353†	53.0	2.88	5.44%	[0.00]	mg/L
Sb 206.836†	76.2	3.17	4.16%	[0.00]	mg/L
Se 196.026†	82.7	9.72	11.75%	[0.00]	mg/L
Si 251.611†	100.2	7.58	7.56%	[0.00]	mg/L
Sn 189.927†	41.2	3.65	8.86%	[0.00]	mg/L
Tl 190.801†	-27.7	2.45	8.85%	[0.00]	mg/L
V 292.402†	61.6	21.89	35.51%	[0.00]	mg/L
Zn 213.857†	357.1	18.62	5.21%	[0.00]	mg/L
Ti 334.940†	299.2	91.06	30.43%	[0.00]	mg/L
B 249.772†	11.5	2.03	17.65%	[0.00]	mg/L
Na 589.592†	1697.2	26.13	1.54%	[0.00]	mg/L
K 766.490†	834.5	101.82	12.20%	[0.00]	mg/L
Li 670.784†	240.4	49.22	20.48%	[0.00]	mg/L
Sr 407.771†	-193.6	58.49	30.22%	[0.00]	mg/L

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Method Loaded
Method Name: IT11J28N **Method Last Saved: 10/28/2014 8:13:53 AM**
IEC File: 091614ICP11_IEC.iec **MSF File:**
Method Description:

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Sequence No.: 2 **Autosampler Location: 12**
Sample ID: STD1 14J27638 **Date Collected: 10/28/2014 9:47:13 AM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**
Wash Time: 90 **Auto Dilution Factor: 1**

Mean Data: STD1 14J27638

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Y 360.073	2669176.6	52637.38	1.97%	100.0	mg/L
Y 360.073 R	139938.1	1168.06	0.83%	9.982	mg/L
Ag 328.068†	1608.5	39.29	2.44%	[0.01]	mg/L
Al 308.215†	54.4	1.14	2.10%	[0.1]	mg/L
As 188.979†	19.4	4.81	24.80%	[0.02]	mg/L
Ba 233.527†	379.5	4.37	1.15%	[0.005]	mg/L
Be 313.107†	2946.8	3.01	0.10%	[0.002]	mg/L
Ca 315.887†	28311.8	120.47	0.43%	[0.5]	mg/L
Cd 214.440†	297.6	14.19	4.77%	[0.005]	mg/L
Co 228.616†	288.7	4.07	1.41%	[0.01]	mg/L
Cr 205.560†	198.1	11.90	6.01%	[0.01]	mg/L
Cu 324.752†	2872.9	153.37	5.34%	[0.02]	mg/L
Fe 238.863†	1440.9	51.91	3.60%	[0.1]	mg/L
Mg 279.077†	628.7	19.93	3.17%	[0.1]	mg/L
Mn 257.610†	5894.6	147.61	2.50%	[0.01]	mg/L
Mo 202.031†	49.8	2.52	5.07%	[0.005]	mg/L
Ni 232.003†	125.7	25.16	20.02%	[0.02]	mg/L
Pb 220.353†	3.1	6.16	198.73%	[0.005]	mg/L
Sb 206.836†	30.6	4.37	14.27%	[0.02]	mg/L
Se 196.026†	14.8	4.19	28.27%	[0.02]	mg/L
Si 251.611†	13.2	6.06	45.96%	[0.02]	mg/L
Sn 189.927†	85.7	4.71	5.50%	[0.02]	mg/L
Tl 190.801†	26.3	0.51	1.95%	[0.02]	mg/L
V 292.402†	869.5	36.35	4.18%	[0.01]	mg/L
Zn 213.857†	1617.2	38.62	2.39%	[0.03]	mg/L
Ti 334.940†	6802.2	197.14	2.90%	[0.01]	mg/L
B 249.772†	41.0	2.12	5.17%	[0.02]	mg/L
Na 589.592†	2705.4	59.88	2.21%	[0.5]	mg/L
K 766.490†	850.6	46.87	5.51%	[0.5]	mg/L
Li 670.784†	938.0	12.86	1.37%	[0.015]	mg/L
Sr 407.771†	7515.5	24.01	0.32%	[0.01]	mg/L

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Method Loaded
Method Name: IT11J28N **Method Last Saved: 10/28/2014 8:13:53 AM**
IEC File: 091614ICP11_IEC.iec **MSF File:**
Method Description:

==========

Sequence No.: 3 **Autosampler Location: 13**
Sample ID: STD2 14J27638 **Date Collected: 10/28/2014 9:52:12 AM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**
Wash Time: 90 **Auto Dilution Factor: 1**

Mean Data: STD2 14J27638

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Y 360.073	2655154.5	14589.80	0.55%	99.52	mg/L
Y 360.073 R	140071.6	1464.25	1.05%	9.991	mg/L
Ag 328.068†	32547.3	196.98	0.61%	[0.2]	mg/L
Al 308.215†	1072.8	15.77	1.47%	[2]	mg/L
As 188.979†	330.8	1.68	0.51%	[0.4]	mg/L
Ba 233.527†	7649.6	74.39	0.97%	[0.1]	mg/L
Be 313.107†	62460.1	670.05	1.07%	[0.04]	mg/L
Ca 315.887†	581743.6	251.94	0.04%	[10]	mg/L
Cd 214.440†	6063.0	35.08	0.58%	[0.1]	mg/L
Co 228.616†	6123.9	84.61	1.38%	[0.2]	mg/L
Cr 205.560†	4542.9	70.32	1.55%	[0.2]	mg/L
Cu 324.752†	60823.5	495.08	0.81%	[0.4]	mg/L
Fe 238.863†	31631.6	283.87	0.90%	[2]	mg/L
Mg 279.077†	12142.3	107.44	0.88%	[2]	mg/L
Mn 257.610†	126012.3	1082.41	0.86%	[0.2]	mg/L
Mo 202.031†	1038.8	19.96	1.92%	[0.1]	mg/L
Ni 232.003†	2927.9	52.44	1.79%	[0.4]	mg/L
Pb 220.353†	339.6	16.95	4.99%	[0.1]	mg/L
Sb 206.836†	739.9	10.33	1.40%	[0.4]	mg/L
Se 196.026†	383.8	8.09	2.11%	[0.4]	mg/L
Si 251.611†	293.3	4.18	1.43%	[0.4]	mg/L
Sn 189.927†	1619.5	22.49	1.39%	[0.4]	mg/L
Tl 190.801†	537.7	9.76	1.82%	[0.4]	mg/L
V 292.402†	18358.0	236.57	1.29%	[0.2]	mg/L
Zn 213.857†	33320.7	294.36	0.88%	[0.6]	mg/L
Ti 334.940†	138498.7	123.33	0.09%	[0.2]	mg/L
B 249.772†	911.7	6.23	0.68%	[0.4]	mg/L
Na 589.592†	55739.1	437.44	0.78%	[10]	mg/L
K 766.490†	17250.6	182.58	1.06%	[10]	mg/L
Li 670.784†	16655.3	143.27	0.86%	[0.3]	mg/L
Sr 407.771†	155939.3	1192.30	0.76%	[0.2]	mg/L

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Method Loaded
Method Name: IT11J28N **Method Last Saved: 10/28/2014 8:13:53 AM**
IEC File: 091614ICP11_IEC.iec **MSF File:**
Method Description:

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Sequence No.: 4 **Autosampler Location: 14**
Sample ID: STD3 14J27638 **Date Collected: 10/28/2014 9:57:12 AM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**
Wash Time: 90 **Auto Dilution Factor: 1**

Mean Data: STD3 14J27638

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Y 360.073	2604414.6	40073.76	1.54%	97.62	mg/L
Y 360.073 R	136051.2	2372.40	1.74%	9.705	mg/L
Ag 328.068†	161462.8	912.92	0.57%	[1]	mg/L
Al 308.215†	5416.4	95.88	1.77%	[10]	mg/L
As 188.979†	1664.9	13.88	0.83%	[2]	mg/L
Ba 233.527†	40599.8	401.29	0.99%	[0.5]	mg/L
Be 313.107†	314576.9	1495.33	0.48%	[0.2]	mg/L
Ca 315.887†	3002149.2	16893.00	0.56%	[50]	mg/L
Cd 214.440†	32506.1	285.55	0.88%	[0.5]	mg/L
Co 228.616†	30243.6	310.34	1.03%	[1]	mg/L
Cr 205.560†	22546.3	223.53	0.99%	[1]	mg/L
Cu 324.752†	305085.3	1539.66	0.50%	[2]	mg/L
Fe 238.863†	157834.7	797.03	0.50%	[10]	mg/L
Mg 279.077†	61136.0	329.58	0.54%	[10]	mg/L
Mn 257.610†	609678.6	3279.10	0.54%	[1]	mg/L
Mo 202.031†	5165.0	41.06	0.79%	[0.5]	mg/L
Ni 232.003†	14714.9	131.45	0.89%	[2]	mg/L
Pb 220.353†	1646.6	13.83	0.84%	[0.5]	mg/L
Sb 206.836†	3749.7	29.68	0.79%	[2]	mg/L
Se 196.026†	1964.4	19.68	1.00%	[2]	mg/L
Si 251.611†	1502.9	28.79	1.92%	[2]	mg/L
Sn 189.927†	8070.5	63.47	0.79%	[2]	mg/L
Tl 190.801†	2685.5	29.71	1.11%	[2]	mg/L
V 292.402†	91861.4	317.61	0.35%	[1]	mg/L
Zn 213.857†	167559.4	819.13	0.49%	[3]	mg/L
Ti 334.940†	697640.2	3549.35	0.51%	[1]	mg/L
B 249.772†	4717.1	84.49	1.79%	[2]	mg/L
Na 589.592†	285779.2	405.32	0.14%	[50]	mg/L
K 766.490†	88757.9	153.92	0.17%	[50]	mg/L
Li 670.784†	84254.1	213.34	0.25%	[1.5]	mg/L
Sr 407.771†	801937.4	792.25	0.10%	[1]	mg/L

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Method Loaded
Method Name: IT11J28N **Method Last Saved: 10/28/2014 8:13:53 AM**
IEC File: 091614ICP11_IEC.iec **MSF File:**
Method Description:

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Sequence No.: 5 **Autosampler Location: 15**
Sample ID: STD4 14J27638 **Date Collected: 10/28/2014 10:02:08 AM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**
Wash Time: 90 **Auto Dilution Factor: 1**

Mean Data: STD4 14J27638

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Y 360.073	2553956.8	18949.97	0.74%	95.73	mg/L
Y 360.073 R	138077.6	2390.59	1.73%	9.849	mg/L
Ag 328.068†	420961.8	5598.86	1.33%	[2.5]	mg/L
Al 308.215†	13801.1	300.71	2.18%	[25]	mg/L
As 188.979†	4204.6	35.91	0.85%	[5]	mg/L
Ba 233.527†	95950.6	1248.58	1.30%	[1.25]	mg/L
Be 313.107†	793409.4	4998.34	0.63%	[0.5]	mg/L
Ca 315.887†	7604834.6	19869.38	0.26%	[125]	mg/L
Cd 214.440†	76905.0	957.85	1.25%	[1.25]	mg/L
Co 228.616†	71622.4	930.41	1.30%	[2.5]	mg/L
Cr 205.560†	53755.4	689.40	1.28%	[2.5]	mg/L
Cu 324.752†	797102.0	11728.75	1.47%	[5]	mg/L
Fe 238.863†	404482.2	5026.68	1.24%	[25]	mg/L
Mg 279.077†	153853.2	2351.08	1.53%	[25]	mg/L
Mn 257.610†	1513847.6	4333.38	0.29%	[2.5]	mg/L
Mo 202.031†	12899.8	145.21	1.13%	[1.25]	mg/L
Ni 232.003†	35815.7	370.86	1.04%	[5]	mg/L
Pb 220.353†	4018.5	45.49	1.13%	[1.25]	mg/L
Sb 206.836†	9475.3	116.94	1.23%	[5]	mg/L
Se 196.026†	4949.2	55.48	1.12%	[5]	mg/L
Si 251.611†	3801.3	92.43	2.43%	[5]	mg/L
Sn 189.927†	20217.7	232.55	1.15%	[5]	mg/L
Tl 190.801†	6514.0	71.65	1.10%	[5]	mg/L
V 292.402†	233959.5	3653.26	1.56%	[2.5]	mg/L
Zn 213.857†	435823.0	5201.01	1.19%	[7.5]	mg/L
Ti 334.940†	1745298.9	5091.01	0.29%	[2.5]	mg/L
B 249.772†	12068.3	243.78	2.02%	[5]	mg/L
Na 589.592†	703938.0	959.56	0.14%	[125]	mg/L
K 766.490†	220252.9	451.56	0.21%	[125]	mg/L
Li 670.784†	205822.5	609.72	0.30%	[3.75]	mg/L
Sr 407.771†	1980352.4	2743.20	0.14%	[2.5]	mg/L

Calibration Summary

Analyte	Stds.	Equation	Intercept	Slope	Curvature	Corr. Coef.	Reslope
Ag 328.068	4	Lin Thru 0	0.0	167400	0.00000	0.999897	
Al 308.215	4	Lin Thru 0	0.0	550.5	0.00000	0.999977	
As 188.979	4	Lin Thru 0	0.0	839.7	0.00000	0.999993	
Ba 233.527	4	Lin Thru 0	0.0	77370	0.00000	0.999805	
Be 313.107	4	Lin Thru 0	0.0	1585000	0.00000	0.999995	
Ca 315.887	4	Lin Thru 0	0.0	60710	0.00000	0.999985	
Cd 214.440	4	Lin Thru 0	0.0	62000	0.00000	0.999812	
Co 228.616	4	Lin Thru 0	0.0	28880	0.00000	0.999810	
Cr 205.560	4	Lin Thru 0	0.0	21650	0.00000	0.999856	
Cu 324.752	4	Lin Thru 0	0.0	158400	0.00000	0.999884	
Fe 238.863	4	Lin Thru 0	0.0	16120	0.00000	0.999963	
Mg 279.077	4	Lin Thru 0	0.0	6148	0.00000	0.999997	
Mn 257.610	4	Lin Thru 0	0.0	606200	0.00000	0.999993	
Mo 202.031	4	Lin Thru 0	0.0	10320	0.00000	1.000000	
Ni 232.003	4	Lin Thru 0	0.0	7191	0.00000	0.999956	
Pb 220.353	4	Lin Thru 0	0.0	3227	0.00000	0.999953	
Sb 206.836	4	Lin Thru 0	0.0	1892	0.00000	0.999992	

Se 196.026	4	Lin Thru 0	0.0	988.6	0.00000	0.999994
Si 251.611	4	Lin Thru 0	0.0	758.9	0.00000	0.999989
Sn 189.927	4	Lin Thru 0	0.0	4042	0.00000	1.000000
Tl 190.801	4	Lin Thru 0	0.0	1309	0.00000	0.999943
V 292.402	4	Lin Thru 0	0.0	93340	0.00000	0.999979
Zn 213.857	4	Lin Thru 0	0.0	57790	0.00000	0.999906
Ti 334.940	4	Lin Thru 0	0.0	698000	0.00000	1.000000
B 249.772	4	Lin Thru 0	0.0	2405	0.00000	0.999961
Na 589.592	4	Lin Thru 0	0.0	5643	0.00000	0.999986
K 766.490	4	Lin Thru 0	0.0	1764	0.00000	0.999995
Li 670.784	4	Lin Thru 0	0.0	55070	0.00000	0.999968
Sr 407.771	4	Lin Thru 0	0.0	793400	0.00000	0.999990

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Method Loaded
Method Name: IT11J28N **Method Last Saved: 10/28/2014 8:13:53 AM**
IEC File: 091614ICP11_IEC.iec **MSF File:**
Method Description:

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Sequence No.: 6 **Autosampler Location: 16**
Sample ID: ICV 14J27639 **Date Collected: 10/28/2014 10:07:18 AM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**
Wash Time: 150 **Auto Dilution Factor: 1**

Mean Data: ICV 14J27639

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Calib. Std.Dev.	Sample Conc.	Sample Units	Sample Std.Dev.	RSD
Y 360.073	2679891.0	100.4	mg/L	0.96				0.96%
Y 360.073 R	142685.0	10.18	mg/L	0.164				1.61%
Ag 328.068†	15889.3	0.09701	mg/L	0.001095	0.09701	mg/L	0.001095	1.13%
QC value within limits for Ag 328.068 Recovery = 97.01%								
Al 308.215†	5476.7	9.930	mg/L	0.0783	9.930	mg/L	0.0783	0.79%
QC value within limits for Al 308.215 Recovery = 99.30%								
As 188.979†	833.4	0.9908	mg/L	0.01397	0.9908	mg/L	0.01397	1.41%
QC value within limits for As 188.979 Recovery = 99.08%								
Ba 233.527†	76973.7	0.9944	mg/L	0.01608	0.9944	mg/L	0.01608	1.62%
QC value within limits for Ba 233.527 Recovery = 99.44%								
Be 313.107†	1580474.8	0.9973	mg/L	0.00127	0.9973	mg/L	0.00127	0.13%
QC value within limits for Be 313.107 Recovery = 99.73%								
Ca 315.887†	581151.9	9.578	mg/L	0.0129	9.578	mg/L	0.0129	0.13%
QC value within limits for Ca 315.887 Recovery = 95.78%								
Cd 214.440†	61991.7	0.9993	mg/L	0.01906	0.9993	mg/L	0.01906	1.91%
QC value within limits for Cd 214.440 Recovery = 99.93%								
Co 228.616†	29286.3	1.014	mg/L	0.0173	1.014	mg/L	0.0173	1.70%
QC value within limits for Co 228.616 Recovery = 101.41%								
Cr 205.560†	21563.1	0.9956	mg/L	0.01746	0.9956	mg/L	0.01746	1.75%
QC value within limits for Cr 205.560 Recovery = 99.56%								
Cu 324.752†	156745.5	0.9896	mg/L	0.01563	0.9896	mg/L	0.01563	1.58%
QC value within limits for Cu 324.752 Recovery = 98.96%								
Fe 238.863†	161661.0	10.03	mg/L	0.182	10.03	mg/L	0.182	1.82%
QC value within limits for Fe 238.863 Recovery = 100.26%								
Mg 279.077†	61983.9	10.08	mg/L	0.172	10.08	mg/L	0.172	1.71%
QC value within limits for Mg 279.077 Recovery = 100.75%								
Mn 257.610†	610260.2	1.006	mg/L	0.0014	1.006	mg/L	0.0014	0.14%
QC value within limits for Mn 257.610 Recovery = 100.62%								
Mo 202.031†	10791.9	1.046	mg/L	0.0150	1.046	mg/L	0.0150	1.44%
QC value within limits for Mo 202.031 Recovery = 104.62%								
Ni 232.003†	7671.9	1.068	mg/L	0.0119	1.068	mg/L	0.0119	1.11%
QC value greater than the upper limit for Ni 232.003 Recovery = 106.80%								
Pb 220.353†	3397.8	1.053	mg/L	0.0144	1.053	mg/L	0.0144	1.36%
QC value within limits for Pb 220.353 Recovery = 105.30%								
Sb 206.836†	1885.8	0.9996	mg/L	0.01952	0.9996	mg/L	0.01952	1.95%
QC value within limits for Sb 206.836 Recovery = 99.96%								
Se 196.026†	968.3	0.9836	mg/L	0.02146	0.9836	mg/L	0.02146	2.18%
QC value within limits for Se 196.026 Recovery = 98.36%								
Si 251.611†	757.9	0.9990	mg/L	0.00720	0.9990	mg/L	0.00720	0.72%
QC value within limits for Si 251.611 Recovery = 99.90%								
Sn 189.927†	4086.9	1.012	mg/L	0.0157	1.012	mg/L	0.0157	1.55%
QC value within limits for Sn 189.927 Recovery = 101.24%								
Tl 190.801†	1360.3	1.038	mg/L	0.0177	1.038	mg/L	0.0177	1.70%
QC value within limits for Tl 190.801 Recovery = 103.77%								
V 292.402†	92721.8	0.9926	mg/L	0.01588	0.9926	mg/L	0.01588	1.60%
QC value within limits for V 292.402 Recovery = 99.26%								
Zn 213.857†	55425.5	0.9576	mg/L	0.01777	0.9576	mg/L	0.01777	1.86%
QC value within limits for Zn 213.857 Recovery = 95.76%								
Ti 334.940†	698039.2	0.9997	mg/L	0.00148	0.9997	mg/L	0.00148	0.15%
QC value within limits for Ti 334.940 Recovery = 99.97%								
B 249.772†	2491.0	1.014	mg/L	0.0100	1.014	mg/L	0.0100	0.98%
QC value within limits for B 249.772 Recovery = 101.39%								
Na 589.592†	57493.0	10.19	mg/L	0.017	10.19	mg/L	0.017	0.16%

```
   QC value within limits for Na 589.592  Recovery = 101.85%
K 766.490†            17539.5       9.945 mg/L        0.0545       9.945 mg/L        0.0545   0.55%
   QC value within limits for K 766.490  Recovery = 99.45%
Li 670.784†           56231.1       1.021 mg/L        0.0026       1.021 mg/L        0.0026   0.25%
   QC value within limits for Li 670.784  Recovery = 102.11%
Sr 407.771†          317544.0      0.4001 mg/L       0.00068      0.4001 mg/L       0.00068   0.17%
   QC value within limits for Sr 407.771  Recovery = 100.02%
QC Failed.  Stop the analysis.
```

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Method Loaded
Method Name: IT11J28N **Method Last Saved: 10/28/2014 8:13:53 AM**
IEC File: 091614ICP11_IEC.iec **MSF File:**
Method Description:
Analysis canceled by a QC failure action: 'Stop'.

==========

Analysis Begun

Start Time: 10/28/2014 10:16:50 AM **Plasma On Time: 10/28/2014 8:27:47 AM**
Logged In Analyst: ICP11 **Technique: ICP Continuous**
Spectrometer: Optima 8300 , S/N 078S1402113 **Autosampler: Cetac**

Sample Information File: C:\pe\ICP11\Sample Information\102814ICP11.sif
Batch ID:
Results Data Set: 102814ICP11
Results Library: C:\pe\ICP11\Results\Results.mdb

==========

Sequence No.: 7 **Autosampler Location: 1**
Sample ID: ICVLL 14J27641 **Date Collected: 10/28/2014 10:16:52 AM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**
Wash Time:

Mean Data: ICVLL 14J27641

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	2668121.5	100.0	mg/L	2.32				2.32%
Y 360.073 R	142782.9	10.18	mg/L	0.124				1.22%
Ag 328.068†	1745.8	0.01045	mg/L	0.000062	0.01045	mg/L	0.000062	0.60%
QC value within limits for Ag 328.068 Recovery = 104.48%								
Al 308.215†	57.0	0.1033	mg/L	0.02257	0.1033	mg/L	0.02257	21.86%
QC value within limits for Al 308.215 Recovery = 103.28%								
As 188.979†	17.8	0.0211	mg/L	0.00573	0.0211	mg/L	0.00573	27.10%
QC value within limits for As 188.979 Recovery = 105.70%								
Ba 233.527†	433.5	0.0056	mg/L	0.00019	0.0056	mg/L	0.00019	3.31%
QC value within limits for Ba 233.527 Recovery = 111.94%								
Be 313.107†	3243.5	0.00205	mg/L	0.000092	0.00205	mg/L	0.000092	4.51%
QC value within limits for Be 313.107 Recovery = 102.32%								
Ca 315.887†	29739.2	0.4899	mg/L	0.00325	0.4899	mg/L	0.00325	0.66%
QC value within limits for Ca 315.887 Recovery = 97.98%								
Cd 214.440†	330.5	0.0053	mg/L	0.00031	0.0053	mg/L	0.00031	5.73%
QC value within limits for Cd 214.440 Recovery = 106.45%								
Co 228.616†	328.7	0.0114	mg/L	0.00064	0.0114	mg/L	0.00064	5.59%
QC value within limits for Co 228.616 Recovery = 113.79%								
Cr 205.560†	228.3	0.0105	mg/L	0.00025	0.0105	mg/L	0.00025	2.33%
QC value within limits for Cr 205.560 Recovery = 105.37%								
Cu 324.752†	4721.8	0.0298	mg/L	0.00090	0.0298	mg/L	0.00090	3.03%
QC value within limits for Cu 324.752 Recovery = 149.01%								
Fe 238.863†	1796.3	0.1114	mg/L	0.00334	0.1114	mg/L	0.00334	2.99%
QC value within limits for Fe 238.863 Recovery = 111.40%								
Mg 279.077†	684.5	0.1112	mg/L	0.00275	0.1112	mg/L	0.00275	2.47%
QC value within limits for Mg 279.077 Recovery = 111.24%								
Mn 257.610†	6299.3	0.0104	mg/L	0.00037	0.0104	mg/L	0.00037	3.52%
QC value within limits for Mn 257.610 Recovery = 103.86%								
Mo 202.031†	56.0	0.00543	mg/L	0.000234	0.00543	mg/L	0.000234	4.31%
QC value within limits for Mo 202.031 Recovery = 108.52%								
Ni 232.003†	154.5	0.0215	mg/L	0.00231	0.0215	mg/L	0.00231	10.73%
QC value within limits for Ni 232.003 Recovery = 107.52%								
Pb 220.353†	9.5	0.00294	mg/L	0.001796	0.00294	mg/L	0.001796	61.10%
QC value within limits for Pb 220.353 Recovery = 58.80%								
Sb 206.836†	35.2	0.0186	mg/L	0.00304	0.0186	mg/L	0.00304	16.32%
QC value within limits for Sb 206.836 Recovery = 93.24%								
Se 196.026†	23.7	0.0240	mg/L	0.00578	0.0240	mg/L	0.00578	24.10%
QC value within limits for Se 196.026 Recovery = 119.85%								
Si 251.611†	144.5	0.1903	mg/L	0.00743	0.1903	mg/L	0.00743	3.90%
QC value within limits for Si 251.611 Recovery = 95.17%								

Sn 189.927†	91.7	0.0227 mg/L	0.00044	0.0227 mg/L	0.00044	1.92%
QC value within limits for Sn 189.927 Recovery = 113.48%						
Tl 190.801†	28.7	0.0219 mg/L	0.00366	0.0219 mg/L	0.00366	16.70%
QC value within limits for Tl 190.801 Recovery = 109.69%						
V 292.402†	931.1	0.0100 mg/L	0.00031	0.0100 mg/L	0.00031	3.13%
QC value within limits for V 292.402 Recovery = 99.66%						
Zn 213.857†	1781.4	0.0308 mg/L	0.00110	0.0308 mg/L	0.00110	3.56%
QC value within limits for Zn 213.857 Recovery = 102.73%						
Ti 334.940†	7316.3	0.0105 mg/L	0.00027	0.0105 mg/L	0.00027	2.59%
QC value within limits for Ti 334.940 Recovery = 104.80%						
B 249.772†	507.3	0.2107 mg/L	0.00527	0.2107 mg/L	0.00527	2.50%
QC value within limits for B 249.772 Recovery = 105.33%						
Na 589.592†	3156.7	0.5593 mg/L	0.00919	0.5593 mg/L	0.00919	1.64%
QC value within limits for Na 589.592 Recovery = 111.87%						
K 766.490†	948.9	0.5380 mg/L	0.03632	0.5380 mg/L	0.03632	6.75%
QC value within limits for K 766.490 Recovery = 107.61%						
Li 670.784†	947.6	0.01721 mg/L	0.000431	0.01721 mg/L	0.000431	2.51%
QC value within limits for Li 670.784 Recovery = 114.72%						
Sr 407.771†	7922.7	0.00998 mg/L	0.000035	0.00998 mg/L	0.000035	0.35%
QC value within limits for Sr 407.771 Recovery = 99.78%						

All analyte(s) passed QC.

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Method Loaded
Method Name: IT11J28N **Method Last Saved: 10/28/2014 8:13:53 AM**
IEC File: 091614ICP11_IEC.iec **MSF File:**
Method Description:

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Sequence No.: 8 **Autosampler Location: 2**
Sample ID: ICB **Date Collected: 10/28/2014 10:21:51 AM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**
Wash Time: 90 **Auto Dilution Factor: 1**

Mean Data: ICB

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 360.073	2661373.0	99.75	mg/L	0.238				0.24%
Y 360.073 R	142312.1	10.15	mg/L	0.135				1.33%
Ag 328.068†	11.4	0.00007	mg/L	0.000931	0.00007	mg/L	0.000931	>999.9%
QC value within limits for Ag 328.068 Recovery = Not calculated								
Al 308.215†	6.0	0.0108	mg/L	0.01651	0.0108	mg/L	0.01651	152.22%
QC value within limits for Al 308.215 Recovery = Not calculated								
As 188.979†	2.7	0.0032	mg/L	0.00876	0.0032	mg/L	0.00876	273.46%
QC value within limits for As 188.979 Recovery = Not calculated								
Ba 233.527†	3.4	0.0000	mg/L	0.00006	0.0000	mg/L	0.00006	140.45%
QC value within limits for Ba 233.527 Recovery = Not calculated								
Be 313.107†	40.4	0.00003	mg/L	0.000025	0.00003	mg/L	0.000025	97.62%
QC value within limits for Be 313.107 Recovery = Not calculated								
Ca 315.887†	-430.9	-0.00710	mg/L	0.005523	-0.00710	mg/L	0.005523	77.81%
QC value within limits for Ca 315.887 Recovery = Not calculated								
Cd 214.440†	4.7	0.0001	mg/L	0.00008	0.0001	mg/L	0.00008	100.50%
QC value within limits for Cd 214.440 Recovery = Not calculated								
Co 228.616†	11.9	0.0004	mg/L	0.00044	0.0004	mg/L	0.00044	107.42%
QC value within limits for Co 228.616 Recovery = Not calculated								
Cr 205.560†	1.3	0.0001	mg/L	0.00040	0.0001	mg/L	0.00040	659.10%
QC value within limits for Cr 205.560 Recovery = Not calculated								
Cu 324.752†	1365.2	0.0086	mg/L	0.00057	0.0086	mg/L	0.00057	6.67%
QC value within limits for Cu 324.752 Recovery = Not calculated								
Fe 238.863†	14.7	0.0009	mg/L	0.00116	0.0009	mg/L	0.00116	126.45%
QC value within limits for Fe 238.863 Recovery = Not calculated								
Mg 279.077†	-3.8	-0.0006	mg/L	0.00175	-0.0006	mg/L	0.00175	286.00%
QC value within limits for Mg 279.077 Recovery = Not calculated								
Mn 257.610†	30.1	0.0000	mg/L	0.00004	0.0000	mg/L	0.00004	73.17%
QC value within limits for Mn 257.610 Recovery = Not calculated								
Mo 202.031†	-1.2	-0.00012	mg/L	0.000441	-0.00012	mg/L	0.000441	374.63%
QC value within limits for Mo 202.031 Recovery = Not calculated								
Ni 232.003†	-1.6	-0.0002	mg/L	0.00183	-0.0002	mg/L	0.00183	817.50%
QC value within limits for Ni 232.003 Recovery = Not calculated								
Pb 220.353†	-10.5	-0.00325	mg/L	0.002062	-0.00325	mg/L	0.002062	63.55%
QC value within limits for Pb 220.353 Recovery = Not calculated								
Sb 206.836†	-7.4	-0.0039	mg/L	0.00194	-0.0039	mg/L	0.00194	49.25%
QC value within limits for Sb 206.836 Recovery = Not calculated								
Se 196.026†	4.7	0.0047	mg/L	0.00575	0.0047	mg/L	0.00575	121.43%
QC value within limits for Se 196.026 Recovery = Not calculated								
Si 251.611†	6.4	0.0084	mg/L	0.00752	0.0084	mg/L	0.00752	89.07%
QC value within limits for Si 251.611 Recovery = Not calculated								
Sn 189.927†	8.0	0.0020	mg/L	0.00166	0.0020	mg/L	0.00166	83.62%
QC value within limits for Sn 189.927 Recovery = Not calculated								
Tl 190.801†	0.6	0.0005	mg/L	0.00299	0.0005	mg/L	0.00299	629.29%
QC value within limits for Tl 190.801 Recovery = Not calculated								
V 292.402†	-35.8	-0.0004	mg/L	0.00020	-0.0004	mg/L	0.00020	53.33%
QC value within limits for V 292.402 Recovery = Not calculated								
Zn 213.857†	31.9	0.0006	mg/L	0.00028	0.0006	mg/L	0.00028	50.98%
QC value within limits for Zn 213.857 Recovery = Not calculated								
Ti 334.940†	99.7	0.0001	mg/L	0.00015	0.0001	mg/L	0.00015	107.62%
QC value within limits for Ti 334.940 Recovery = Not calculated								
B 249.772†	31.3	0.0130	mg/L	0.00025	0.0130	mg/L	0.00025	1.94%
QC value within limits for B 249.772 Recovery = Not calculated								
Na 589.592†	96.7	0.0171	mg/L	0.00557	0.0171	mg/L	0.00557	32.49%

```
   QC value within limits for Na 589.592  Recovery = Not calculated
K 766.490†                54.7      0.0310 mg/L       0.03900      0.0310 mg/L       0.03900 125.78%
   QC value within limits for K 766.490  Recovery = Not calculated
Li 670.784†              148.2     0.00269 mg/L      0.000654     0.00269 mg/L      0.000654  24.29%
   QC value within limits for Li 670.784  Recovery = Not calculated
Sr 407.771†               17.9     0.00002 mg/L      0.000053     0.00002 mg/L      0.000053 233.11%
   QC value within limits for Sr 407.771  Recovery = Not calculated
All analyte(s) passed QC.
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Method Loaded
Method Name: IT11J28N **Method Last Saved: 10/28/2014 8:13:53 AM**
IEC File: 091614ICP11_IEC.iec **MSF File:**
Method Description:

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Sequence No.: 9 **Autosampler Location: 18**
Sample ID: ICSA **Date Collected: 10/28/2014 10:26:51 AM**
Analyst: 388 **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**
Wash Time: 90 **Auto Dilution Factor: 1**

Mean Data: ICSA

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	2414199.2	90.49	mg/L	0.681				0.75%
Y 360.073 R	137314.8	9.795	mg/L	0.1758				1.79%
Ag 328.068†	-1236.6	-0.00696	mg/L	0.000290	-0.00696	mg/L	0.000290	4.16%
Al 308.215†	295575.1	536.8	mg/L	14.17	536.8	mg/L	14.17	2.64%
As 188.979†	47.3	-0.0033	mg/L	0.00905	-0.0033	mg/L	0.00905	271.64%
Ba 233.527†	298.3	-0.0006	mg/L	0.00011	-0.0006	mg/L	0.00011	19.98%
Be 313.107†	-487.9	-0.00058	mg/L	0.000053	-0.00058	mg/L	0.000053	9.23%
Ca 315.887†	28791678.7	474.3	mg/L	6.23	474.3	mg/L	6.23	1.31%
Cd 214.440†	248.1	-0.0011	mg/L	0.00035	-0.0011	mg/L	0.00035	31.13%
Co 228.616†	-41.7	-0.0008	mg/L	0.00025	-0.0008	mg/L	0.00025	33.35%
Cr 205.560†	112.7	-0.0033	mg/L	0.00079	-0.0033	mg/L	0.00079	24.20%
Cu 324.752†	-732.3	-0.0086	mg/L	0.00038	-0.0086	mg/L	0.00038	4.41%
Fe 238.863†	3087876.6	191.5	mg/L	0.41	191.5	mg/L	0.41	0.21%
Mg 279.077†	3358230.0	546.1	mg/L	0.97	546.1	mg/L	0.97	0.18%
Mn 257.610†	2436.7	-0.0194	mg/L	0.00015	-0.0194	mg/L	0.00015	0.79%
Mo 202.031†	-43.2	0.00125	mg/L	0.001004	0.00125	mg/L	0.001004	80.17%
Ni 232.003†	-66.3	0.0221	mg/L	0.00497	0.0221	mg/L	0.00497	22.49%
Pb 220.353†	-125.6	-0.00044	mg/L	0.002498	-0.00044	mg/L	0.002498	564.43%
Sb 206.836†	14.3	0.0013	mg/L	0.00458	0.0013	mg/L	0.00458	365.41%
Se 196.026†	-51.4	0.0408	mg/L	0.00388	0.0408	mg/L	0.00388	9.51%
Si 251.611†	31.4	-0.0210	mg/L	0.00838	-0.0210	mg/L	0.00838	39.96%
Sn 189.927†	-42.1	0.0114	mg/L	0.00198	0.0114	mg/L	0.00198	17.35%
Tl 190.801†	5.4	-0.0048	mg/L	0.00677	-0.0048	mg/L	0.00677	142.00%
V 292.402†	1441.6	-0.0012	mg/L	0.00053	-0.0012	mg/L	0.00053	43.50%
Zn 213.857†	825.5	-0.0148	mg/L	0.00044	-0.0148	mg/L	0.00044	2.96%
Ti 334.940†	-3047.4	-0.0213	mg/L	0.00018	-0.0213	mg/L	0.00018	0.83%
B 249.772†	1586.6	0.2398	mg/L	0.01403	0.2398	mg/L	0.01403	5.85%
Na 589.592†	1043.0	0.0414	mg/L	0.01579	0.0414	mg/L	0.01579	38.17%
K 766.490†	77.7	0.0033	mg/L	0.01235	0.0033	mg/L	0.01235	375.81%
Li 670.784†	116.2	-0.00239	mg/L	0.001944	-0.00239	mg/L	0.001944	81.35%
Sr 407.771†	5992.1	0.00009	mg/L	0.000071	0.00009	mg/L	0.000071	78.59%

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Method Loaded
Method Name: IT11J28N **Method Last Saved: 10/28/2014 8:13:53 AM**
IEC File: 091614ICP11_IEC.iec **MSF File:**
Method Description:

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Sequence No.: 10 **Autosampler Location: 19**
Sample ID: ICSAB **Date Collected: 10/28/2014 10:33:02 AM**
Analyst: 388 **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**
Wash Time: 150 **Auto Dilution Factor: 1**

Mean Data: ICSAB

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Calib. Std.Dev.	Sample Conc.	Sample Units	Sample Std.Dev.	RSD
Y 360.073	2454173.6	91.99	mg/L	1.403				1.53%
Y 360.073 R	136315.8	9.724	mg/L	0.0327				0.34%
Ag 328.068†	170223.9	1.018	mg/L	0.0041	1.018	mg/L	0.0041	0.40%
Al 308.215†	288962.3	524.7	mg/L	8.02	524.7	mg/L	8.02	1.53%
As 188.979†	443.2	0.4688	mg/L	0.00623	0.4688	mg/L	0.00623	1.33%
Ba 233.527†	38429.3	0.4921	mg/L	0.00865	0.4921	mg/L	0.00865	1.76%
Be 313.107†	775299.5	0.4889	mg/L	0.00174	0.4889	mg/L	0.00174	0.36%
Ca 315.887†	28572964.9	470.7	mg/L	5.78	470.7	mg/L	5.78	1.23%
Cd 214.440†	56371.1	0.9039	mg/L	0.00211	0.9039	mg/L	0.00211	0.23%
Co 228.616†	13358.5	0.4632	mg/L	0.00838	0.4632	mg/L	0.00838	1.81%
Cr 205.560†	10569.6	0.4797	mg/L	0.00780	0.4797	mg/L	0.00780	1.63%
Cu 324.752†	75121.7	0.4703	mg/L	0.00338	0.4703	mg/L	0.00338	0.72%
Fe 238.863†	3092992.4	191.8	mg/L	0.49	191.8	mg/L	0.49	0.26%
Mg 279.077†	3365265.4	547.2	mg/L	1.57	547.2	mg/L	1.57	0.29%
Mn 257.610†	284915.2	0.4466	mg/L	0.00127	0.4466	mg/L	0.00127	0.28%
Mo 202.031†	4874.5	0.4779	mg/L	0.00909	0.4779	mg/L	0.00909	1.90%
Ni 232.003†	7078.3	1.016	mg/L	0.0159	1.016	mg/L	0.0159	1.57%
Pb 220.353†	2912.4	0.9400	mg/L	0.01188	0.9400	mg/L	0.01188	1.26%
Sb 206.836†	960.0	0.5027	mg/L	0.00810	0.5027	mg/L	0.00810	1.61%
Se 196.026†	429.5	0.5267	mg/L	0.00489	0.5267	mg/L	0.00489	0.93%
Si 251.611†	803.6	0.9972	mg/L	0.02362	0.9972	mg/L	0.02362	2.37%
Sn 189.927†	1814.2	0.4707	mg/L	0.00578	0.4707	mg/L	0.00578	1.23%
Tl 190.801†	616.8	0.4620	mg/L	0.00479	0.4620	mg/L	0.00479	1.04%
V 292.402†	45603.4	0.4719	mg/L	0.00302	0.4719	mg/L	0.00302	0.64%
Zn 213.857†	55049.8	0.9236	mg/L	0.00214	0.9236	mg/L	0.00214	0.23%
Ti 334.940†	333245.4	0.4604	mg/L	0.00131	0.4604	mg/L	0.00131	0.28%
B 249.772†	3953.1	1.223	mg/L	0.0284	1.223	mg/L	0.0284	2.32%
Na 589.592†	1251.2	0.0794	mg/L	0.00695	0.0794	mg/L	0.00695	8.75%
K 766.490†	149.8	0.0450	mg/L	0.01051	0.0450	mg/L	0.01051	23.35%
Li 670.784†	177.8	-0.00126	mg/L	0.000779	-0.00126	mg/L	0.000779	62.08%
Sr 407.771†	6193.2	0.00040	mg/L	0.000060	0.00040	mg/L	0.000060	14.80%

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Method Loaded
Method Name: IT11J28N **Method Last Saved: 10/28/2014 11:03:07 AM**
IEC File: 091614ICP11_IEC.iec **MSF File:**
Method Description:

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Sequence No.: 104 **Autosampler Location: 3**
Sample ID: CCV 14J27642 **Date Collected: 10/28/2014 4:22:47 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**
Wash Time: 90 **Auto Dilution Factor: 1**

Mean Data: CCV 14J27642

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 360.073	2649737.2	99.32	mg/L	2.543				2.56%
Y 360.073 R	139271.0	9.934	mg/L	0.1109				1.12%
Ag 328.068†	161294.7	0.9654	mg/L	0.02551	0.9654	mg/L	0.02551	2.64%
QC value within limits for Ag 328.068 Recovery = 96.54%								
Al 308.215†	5277.0	9.560	mg/L	0.2537	9.560	mg/L	0.2537	2.65%
QC value within limits for Al 308.215 Recovery = 95.60%								
As 188.979†	1612.2	1.917	mg/L	0.0529	1.917	mg/L	0.0529	2.76%
QC value within limits for As 188.979 Recovery = 95.85%								
Ba 233.527†	37479.5	0.4839	mg/L	0.01295	0.4839	mg/L	0.01295	2.68%
QC value within limits for Ba 233.527 Recovery = 96.78%								
Be 313.107†	303591.0	0.1915	mg/L	0.00013	0.1915	mg/L	0.00013	0.07%
QC value within limits for Be 313.107 Recovery = 95.77%								
Ca 315.887†	2890807.6	47.62	mg/L	0.147	47.62	mg/L	0.147	0.31%
QC value within limits for Ca 315.887 Recovery = 95.24%								
Cd 214.440†	29441.4	0.4742	mg/L	0.01301	0.4742	mg/L	0.01301	2.74%
QC value within limits for Cd 214.440 Recovery = 94.84%								
Co 228.616†	28270.6	0.9788	mg/L	0.02590	0.9788	mg/L	0.02590	2.65%
QC value within limits for Co 228.616 Recovery = 97.88%								
Cr 205.560†	21014.5	0.9701	mg/L	0.02895	0.9701	mg/L	0.02895	2.98%
QC value within limits for Cr 205.560 Recovery = 97.01%								
Cu 324.752†	303247.0	1.914	mg/L	0.0514	1.914	mg/L	0.0514	2.69%
QC value within limits for Cu 324.752 Recovery = 95.69%								
Fe 238.863†	158278.8	9.816	mg/L	0.2751	9.816	mg/L	0.2751	2.80%
QC value within limits for Fe 238.863 Recovery = 98.16%								
Mg 279.077†	59695.9	9.701	mg/L	0.2686	9.701	mg/L	0.2686	2.77%
QC value within limits for Mg 279.077 Recovery = 97.01%								
Mn 257.610†	589005.0	0.9711	mg/L	0.00104	0.9711	mg/L	0.00104	0.11%
QC value within limits for Mn 257.610 Recovery = 97.11%								
Mo 202.031†	5095.0	0.4941	mg/L	0.01182	0.4941	mg/L	0.01182	2.39%
QC value within limits for Mo 202.031 Recovery = 98.81%								
Ni 232.003†	13846.1	1.927	mg/L	0.0536	1.927	mg/L	0.0536	2.78%
QC value within limits for Ni 232.003 Recovery = 96.35%								
Pb 220.353†	1590.8	0.4939	mg/L	0.01234	0.4939	mg/L	0.01234	2.50%
QC value within limits for Pb 220.353 Recovery = 98.78%								
Sb 206.836†	3650.0	1.932	mg/L	0.0472	1.932	mg/L	0.0472	2.45%
QC value within limits for Sb 206.836 Recovery = 96.60%								
Se 196.026†	1904.6	1.930	mg/L	0.0536	1.930	mg/L	0.0536	2.78%
QC value within limits for Se 196.026 Recovery = 96.48%								
Si 251.611†	1459.9	1.923	mg/L	0.0488	1.923	mg/L	0.0488	2.54%
QC value within limits for Si 251.611 Recovery = 96.15%								
Sn 189.927†	7944.9	1.967	mg/L	0.0455	1.967	mg/L	0.0455	2.31%
QC value within limits for Sn 189.927 Recovery = 98.35%								
Tl 190.801†	2613.3	1.995	mg/L	0.0520	1.995	mg/L	0.0520	2.61%
QC value within limits for Tl 190.801 Recovery = 99.73%								
V 292.402†	91155.6	0.9758	mg/L	0.02538	0.9758	mg/L	0.02538	2.60%
QC value within limits for V 292.402 Recovery = 97.58%								
Zn 213.857†	165840.3	2.869	mg/L	0.0760	2.869	mg/L	0.0760	2.65%
QC value within limits for Zn 213.857 Recovery = 95.64%								
Ti 334.940†	675345.7	0.9674	mg/L	0.00112	0.9674	mg/L	0.00112	0.12%
QC value within limits for Ti 334.940 Recovery = 96.74%								
B 249.772†	4672.8	1.921	mg/L	0.0343	1.921	mg/L	0.0343	1.79%
QC value within limits for B 249.772 Recovery = 96.07%								
Na 589.592†	278515.6	49.35	mg/L	0.080	49.35	mg/L	0.080	0.16%

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   QC value within limits for Na 589.592  Recovery = 98.70%
K 766.490†            85753.8       48.62 mg/L         0.042       48.62 mg/L         0.042   0.09%
   QC value within limits for K 766.490  Recovery = 97.24%
Li 670.784†           82126.3       1.491 mg/L        0.0023       1.491 mg/L        0.0023   0.15%
   QC value within limits for Li 670.784  Recovery = 99.42%
Sr 407.771†          777445.4      0.9791 mg/L       0.00150      0.9791 mg/L       0.00150   0.15%
   QC value within limits for Sr 407.771  Recovery = 97.91%
All analyte(s) passed QC.
```

Method Loaded
Method Name: IT11J28N **Method Last Saved: 10/28/2014 11:03:07 AM**
IEC File: 091614ICP11_IEC.iec **MSF File:**
Method Description:

Sequence No.: 105 **Autosampler Location: 2**
Sample ID: CCB **Date Collected: 10/28/2014 4:27:49 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**
Wash Time: 90 **Auto Dilution Factor: 1**

Mean Data: CCB

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	2699512.9	101.2	mg/L	1.42				1.41%
Y 360.073 R	145959.8	10.41	mg/L	0.262				2.52%
Ag 328.068†	186.9	0.00112	mg/L	0.000628	0.00112	mg/L	0.000628	56.17%
QC value within limits for Ag 328.068 Recovery = Not calculated								
Al 308.215†	1.3	0.0023	mg/L	0.01973	0.0023	mg/L	0.01973	870.28%
QC value within limits for Al 308.215 Recovery = Not calculated								
As 188.979†	2.5	0.0030	mg/L	0.00746	0.0030	mg/L	0.00746	251.24%
QC value within limits for As 188.979 Recovery = Not calculated								
Ba 233.527†	15.7	0.0002	mg/L	0.00003	0.0002	mg/L	0.00003	13.72%
QC value within limits for Ba 233.527 Recovery = Not calculated								
Be 313.107†	7.2	0.00000	mg/L	0.000038	0.00000	mg/L	0.000038	834.81%
QC value within limits for Be 313.107 Recovery = Not calculated								
Ca 315.887†	994.9	0.01639	mg/L	0.005022	0.01639	mg/L	0.005022	30.64%
QC value within limits for Ca 315.887 Recovery = Not calculated								
Cd 214.440†	3.2	0.0000	mg/L	0.00027	0.0000	mg/L	0.00027	534.48%
QC value within limits for Cd 214.440 Recovery = Not calculated								
Co 228.616†	15.5	0.0005	mg/L	0.00054	0.0005	mg/L	0.00054	101.30%
QC value within limits for Co 228.616 Recovery = Not calculated								
Cr 205.560†	4.5	0.0002	mg/L	0.00009	0.0002	mg/L	0.00009	44.24%
QC value within limits for Cr 205.560 Recovery = Not calculated								
Cu 324.752†	1424.0	0.0090	mg/L	0.00037	0.0090	mg/L	0.00037	4.13%
QC value within limits for Cu 324.752 Recovery = Not calculated								
Fe 238.863†	271.2	0.0168	mg/L	0.00204	0.0168	mg/L	0.00204	12.14%
QC value within limits for Fe 238.863 Recovery = Not calculated								
Mg 279.077†	-19.4	-0.0032	mg/L	0.00123	-0.0032	mg/L	0.00123	38.86%
QC value within limits for Mg 279.077 Recovery = Not calculated								
Mn 257.610†	276.2	0.0005	mg/L	0.00002	0.0005	mg/L	0.00002	4.73%
QC value within limits for Mn 257.610 Recovery = Not calculated								
Mo 202.031†	2.1	0.00020	mg/L	0.000509	0.00020	mg/L	0.000509	251.04%
QC value within limits for Mo 202.031 Recovery = Not calculated								
Ni 232.003†	10.1	0.0014	mg/L	0.00376	0.0014	mg/L	0.00376	269.05%
QC value within limits for Ni 232.003 Recovery = Not calculated								
Pb 220.353†	-4.7	-0.00146	mg/L	0.000834	-0.00146	mg/L	0.000834	57.25%
QC value within limits for Pb 220.353 Recovery = Not calculated								
Sb 206.836†	-1.9	-0.0010	mg/L	0.00253	-0.0010	mg/L	0.00253	257.94%
QC value within limits for Sb 206.836 Recovery = Not calculated								
Se 196.026†	3.5	0.0035	mg/L	0.00764	0.0035	mg/L	0.00764	216.87%
QC value within limits for Se 196.026 Recovery = Not calculated								
Si 251.611†	11.9	0.0157	mg/L	0.00988	0.0157	mg/L	0.00988	62.83%
QC value within limits for Si 251.611 Recovery = Not calculated								
Sn 189.927†	5.8	0.0014	mg/L	0.00187	0.0014	mg/L	0.00187	129.30%
QC value within limits for Sn 189.927 Recovery = Not calculated								
Tl 190.801†	-0.8	-0.0006	mg/L	0.00317	-0.0006	mg/L	0.00317	537.94%
QC value within limits for Tl 190.801 Recovery = Not calculated								
V 292.402†	55.8	0.0006	mg/L	0.00024	0.0006	mg/L	0.00024	39.51%
QC value within limits for V 292.402 Recovery = Not calculated								
Zn 213.857†	65.2	0.0011	mg/L	0.00016	0.0011	mg/L	0.00016	14.41%
QC value within limits for Zn 213.857 Recovery = Not calculated								
Ti 334.940†	183.5	0.0003	mg/L	0.00013	0.0003	mg/L	0.00013	49.93%
QC value within limits for Ti 334.940 Recovery = Not calculated								
B 249.772†	80.4	0.0334	mg/L	0.00426	0.0334	mg/L	0.00426	12.75%
QC value within limits for B 249.772 Recovery = Not calculated								
Na 589.592†	785.8	0.1393	mg/L	0.00800	0.1393	mg/L	0.00800	5.75%

```
   QC value within limits for Na 589.592  Recovery = Not calculated
K 766.490†                66.4      0.0376 mg/L       0.02067      0.0376 mg/L       0.02067  54.95%
   QC value within limits for K 766.490  Recovery = Not calculated
Li 670.784†              123.7     0.00225 mg/L      0.000389     0.00225 mg/L      0.000389  17.31%
   QC value within limits for Li 670.784  Recovery = Not calculated
Sr 407.771†              329.5     0.00041 mg/L      0.000090     0.00041 mg/L      0.000090  21.57%
   QC value within limits for Sr 407.771  Recovery = Not calculated
All analyte(s) passed QC.
```

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Analysis Begun

Start Time: 10/28/2014 4:40:33 PM **Plasma On Time: 10/28/2014 8:27:47 AM**
Logged In Analyst: ICP11 **Technique: ICP Continuous**
Spectrometer: Optima 8300 , S/N 078S1402113 **Autosampler: Cetac**

Sample Information File: C:\pe\ICP11\Sample Information\102814ICP11.sif
Batch ID:
Results Data Set: 102814ICP11
Results Library: C:\pe\ICP11\Results\Results.mdb

==========

Method Loaded
Method Name: IT11J28N **Method Last Saved: 10/28/2014 4:40:30 PM**
IEC File: 091614ICP11_IEC.iec **MSF File:**
Method Description:

==========

Sequence No.: 1 **Autosampler Location: 16**
Sample ID: ICV 14J27639 **Date Collected: 10/28/2014 4:40:37 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**
Wash Time:
User canceled analysis.

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Analysis Begun

Start Time: 10/28/2014 4:40:48 PM **Plasma On Time: 10/28/2014 8:27:47 AM**
Logged In Analyst: ICP11 **Technique: ICP Continuous**
Spectrometer: Optima 8300 , S/N 078S1402113 **Autosampler: Cetac**

Sample Information File: C:\pe\ICP11\Sample Information\102814ICP11.sif
Batch ID:
Results Data Set: 102814ICP11
Results Library: C:\pe\ICP11\Results\Results.mdb

==========

Sequence No.: 81 **Autosampler Location: 71**
Sample ID: BLANK WG751198 **Date Collected: 10/28/2014 4:40:49 PM**
Analyst: 388 **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol: 45 mL**
Dilution: **Sample Prep Vol: 50 mL**
Wash Time:

Mean Data: BLANK WG751198

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 360.073	2749088.3	103.0	mg/L	2.04				1.98%
Y 360.073 R	149860.4	10.69	mg/L	0.102				0.95%
Ag 328.068†	52.7	0.00032	mg/L	0.000457	0.00035	mg/L	0.000507	144.37%
Al 308.215†	1.7	0.0032	mg/L	0.00519	0.0035	mg/L	0.00577	164.27%
As 188.979†	7.5	0.0089	mg/L	0.00376	0.0099	mg/L	0.00418	42.21%
Ba 233.527†	10.6	0.0001	mg/L	0.00007	0.0002	mg/L	0.00008	53.80%
Be 313.107†	60.1	0.00004	mg/L	0.000029	0.00004	mg/L	0.000032	75.23%
Ca 315.887†	670.3	0.01104	mg/L	0.010630	0.01227	mg/L	0.011811	96.24%
Cd 214.440†	-25.9	-0.0004	mg/L	0.00033	-0.0005	mg/L	0.00037	78.87%
Co 228.616†	18.6	0.0006	mg/L	0.00010	0.0007	mg/L	0.00011	15.64%
Cr 205.560†	-23.3	-0.0011	mg/L	0.00032	-0.0012	mg/L	0.00036	29.88%
Cu 324.752†	1298.7	0.0082	mg/L	0.00039	0.0091	mg/L	0.00043	4.76%
Fe 238.863†	486.4	0.0302	mg/L	0.00128	0.0335	mg/L	0.00143	4.26%
Mg 279.077†	-1.1	-0.0002	mg/L	0.00207	-0.0002	mg/L	0.00230	>999.9%
Mn 257.610†	675.6	0.0011	mg/L	0.00011	0.0012	mg/L	0.00013	10.13%
Mo 202.031†	-3.9	-0.00037	mg/L	0.000120	-0.00042	mg/L	0.000133	32.09%
Ni 232.003†	71.7	0.0100	mg/L	0.00244	0.0111	mg/L	0.00271	24.42%
Pb 220.353†	-5.1	-0.00159	mg/L	0.002096	-0.00177	mg/L	0.002329	131.74%
Sb 206.836†	-7.0	-0.0037	mg/L	0.00149	-0.0041	mg/L	0.00166	40.52%
Se 196.026†	-5.3	-0.0053	mg/L	0.00406	-0.0059	mg/L	0.00451	76.52%

Si 251.611†	8.1	0.0107	mg/L	0.00339	0.0119	mg/L	0.00377	31.69%
Sn 189.927†	3.5	0.0009	mg/L	0.00096	0.0010	mg/L	0.00107	111.01%
Tl 190.801†	5.3	0.0041	mg/L	0.00489	0.0045	mg/L	0.00543	120.19%
V 292.402†	10.7	0.0001	mg/L	0.00083	0.0001	mg/L	0.00093	742.50%
Zn 213.857†	311.4	0.0054	mg/L	0.00031	0.0060	mg/L	0.00034	5.71%
Ti 334.940†	94.3	0.0001	mg/L	0.00008	0.0002	mg/L	0.00009	61.07%
B 249.772†	29.8	0.0123	mg/L	0.00106	0.0137	mg/L	0.00118	8.60%
Na 589.592†	1870.2	0.3314	mg/L	0.03038	0.3683	mg/L	0.03376	9.17%
K 766.490†	241.5	0.1369	mg/L	0.05806	0.1521	mg/L	0.06451	42.41%
Li 670.784†	615.1	0.01117	mg/L	0.000601	0.01241	mg/L	0.000667	5.38%
Sr 407.771†	65.3	0.00008	mg/L	0.000023	0.00009	mg/L	0.000026	28.02%

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Method Loaded
Method Name: IT11J28N **Method Last Saved: 10/28/2014 4:40:30 PM**
IEC File: 091614ICP11_IEC.iec **MSF File:**
Method Description:

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Sequence No.: 82 **Autosampler Location: 72**
Sample ID: LCS WG751198 **Date Collected: 10/28/2014 4:45:49 PM**
Analyst: 388 **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol: 45 mL**
Dilution: **Sample Prep Vol: 50 mL**
Wash Time: 90 **Auto Dilution Factor: 1**

Mean Data: LCS WG751198

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	2783712.9	104.3	mg/L	0.96				0.92%
Y 360.073 R	146785.5	10.47	mg/L	0.158				1.51%
Ag 328.068†	147905.2	0.8851	mg/L	0.01018	0.9835	mg/L	0.01131	1.15%
Al 308.215†	511.1	0.9113	mg/L	0.00615	1.013	mg/L	0.0068	0.68%
As 188.979†	753.5	0.8965	mg/L	0.01366	0.9961	mg/L	0.01517	1.52%
Ba 233.527†	69337.9	0.8959	mg/L	0.01127	0.9954	mg/L	0.01252	1.26%
Be 313.107†	1438651.1	0.9078	mg/L	0.00283	1.009	mg/L	0.0031	0.31%
Ca 315.887†	512091.4	8.438	mg/L	0.0153	9.376	mg/L	0.0170	0.18%
Cd 214.440†	54442.4	0.8781	mg/L	0.01320	0.9756	mg/L	0.01467	1.50%
Co 228.616†	26464.8	0.9164	mg/L	0.01439	1.018	mg/L	0.0160	1.57%
Cr 205.560†	19083.2	0.8812	mg/L	0.01173	0.9792	mg/L	0.01303	1.33%
Cu 324.752†	138600.4	0.8747	mg/L	0.01128	0.9718	mg/L	0.01254	1.29%
Fe 238.863†	14349.7	0.8898	mg/L	0.00887	0.9887	mg/L	0.00986	1.00%
Mg 279.077†	56210.7	9.141	mg/L	0.1636	10.16	mg/L	0.182	1.79%
Mn 257.610†	536715.3	0.8850	mg/L	0.00138	0.9834	mg/L	0.00153	0.16%
Mo 202.031†	9388.2	0.9098	mg/L	0.01424	1.011	mg/L	0.0158	1.57%
Ni 232.003†	6774.2	0.9424	mg/L	0.01210	1.047	mg/L	0.0134	1.28%
Pb 220.353†	2933.8	0.9097	mg/L	0.01361	1.011	mg/L	0.0151	1.50%
Sb 206.836†	1676.7	0.8888	mg/L	0.02064	0.9876	mg/L	0.02293	2.32%
Se 196.026†	886.2	0.8961	mg/L	0.01973	0.9957	mg/L	0.02192	2.20%
Si 251.611†	653.4	0.8597	mg/L	0.00808	0.9552	mg/L	0.00898	0.94%
Sn 189.927†	3242.4	0.8022	mg/L	0.01547	0.8914	mg/L	0.01719	1.93%
Tl 190.801†	1232.2	0.9399	mg/L	0.00857	1.044	mg/L	0.0095	0.91%
V 292.402†	84824.6	0.9087	mg/L	0.01348	1.010	mg/L	0.0150	1.48%
Zn 213.857†	47533.7	0.8225	mg/L	0.00843	0.9139	mg/L	0.00937	1.03%
Ti 334.940†	597672.5	0.8560	mg/L	0.00133	0.9511	mg/L	0.00148	0.16%
B 249.772†	2112.6	0.8764	mg/L	0.00417	0.9738	mg/L	0.00463	0.48%
Na 589.592†	52145.8	9.239	mg/L	0.0150	10.27	mg/L	0.017	0.16%
K 766.490†	15917.4	9.025	mg/L	0.0386	10.03	mg/L	0.043	0.43%
Li 670.784†	51515.0	0.9354	mg/L	0.00263	1.039	mg/L	0.0029	0.28%
Sr 407.771†	704292.3	0.8875	mg/L	0.00105	0.9862	mg/L	0.00116	0.12%

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Method Loaded
Method Name: IT11J28N **Method Last Saved: 10/28/2014 4:40:30 PM**
IEC File: 091614ICP11_IEC.iec **MSF File:**
Method Description:

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Sequence No.: 83 **Autosampler Location: 73**
Sample ID: LCSD WG751198 **Date Collected: 10/28/2014 4:50:51 PM**
Analyst: 388 **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol: 45 mL**
Dilution: **Sample Prep Vol: 50 mL**
Wash Time: 90 **Auto Dilution Factor: 1**

Mean Data: LCSD WG751198

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	2797455.8	104.9	mg/L	0.97				0.92%
Y 360.073 R	146688.6	10.46	mg/L	0.209				2.00%
Ag 328.068†	148525.6	0.8889	mg/L	0.02289	0.9876	mg/L	0.02543	2.58%
Al 308.215†	508.8	0.9072	mg/L	0.01796	1.008	mg/L	0.0200	1.98%
As 188.979†	757.0	0.9006	mg/L	0.01544	1.001	mg/L	0.0172	1.71%
Ba 233.527†	69670.9	0.9002	mg/L	0.02403	1.000	mg/L	0.0267	2.67%
Be 313.107†	1446630.5	0.9128	mg/L	0.00286	1.014	mg/L	0.0032	0.31%
Ca 315.887†	515280.7	8.491	mg/L	0.0075	9.434	mg/L	0.0083	0.09%
Cd 214.440†	54695.7	0.8822	mg/L	0.02513	0.9802	mg/L	0.02792	2.85%
Co 228.616†	26618.0	0.9217	mg/L	0.02488	1.024	mg/L	0.0276	2.70%
Cr 205.560†	19160.9	0.8848	mg/L	0.02691	0.9831	mg/L	0.02990	3.04%
Cu 324.752†	139544.0	0.8806	mg/L	0.02393	0.9785	mg/L	0.02659	2.72%
Fe 238.863†	14219.6	0.8817	mg/L	0.02758	0.9797	mg/L	0.03065	3.13%
Mg 279.077†	56356.5	9.165	mg/L	0.2877	10.18	mg/L	0.320	3.14%
Mn 257.610†	539760.2	0.8901	mg/L	0.00088	0.9890	mg/L	0.00098	0.10%
Mo 202.031†	9491.6	0.9199	mg/L	0.01367	1.022	mg/L	0.0152	1.49%
Ni 232.003†	6821.4	0.9490	mg/L	0.01316	1.054	mg/L	0.0146	1.39%
Pb 220.353†	2974.3	0.9222	mg/L	0.01330	1.025	mg/L	0.0148	1.44%
Sb 206.836†	1681.4	0.8913	mg/L	0.01556	0.9903	mg/L	0.01728	1.75%
Se 196.026†	897.0	0.9070	mg/L	0.01312	1.008	mg/L	0.0146	1.45%
Si 251.611†	666.4	0.8768	mg/L	0.00627	0.9742	mg/L	0.00697	0.72%
Sn 189.927†	3294.0	0.8150	mg/L	0.01069	0.9055	mg/L	0.01188	1.31%
Tl 190.801†	1232.5	0.9401	mg/L	0.01518	1.045	mg/L	0.0169	1.61%
V 292.402†	85330.6	0.9141	mg/L	0.02527	1.016	mg/L	0.0281	2.76%
Zn 213.857†	47614.6	0.8239	mg/L	0.02389	0.9154	mg/L	0.02654	2.90%
Ti 334.940†	601292.3	0.8611	mg/L	0.00117	0.9568	mg/L	0.00130	0.14%
B 249.772†	2159.4	0.8959	mg/L	0.01359	0.9954	mg/L	0.01510	1.52%
Na 589.592†	52419.6	9.288	mg/L	0.0080	10.32	mg/L	0.009	0.09%
K 766.490†	16035.5	9.092	mg/L	0.0360	10.10	mg/L	0.040	0.40%
Li 670.784†	51981.0	0.9439	mg/L	0.00338	1.049	mg/L	0.0038	0.36%
Sr 407.771†	710254.8	0.8951	mg/L	0.00179	0.9945	mg/L	0.00199	0.20%

Method Loaded
Method Name: IT11J28N
Method Last Saved: 10/28/2014 4:40:30 PM
IEC File: 091614ICP11_IEC.iec
MSF File:
Method Description:

Sequence No.: 84
Autosampler Location: 74
Sample ID: L729798-03 WG751198
Date Collected: 10/28/2014 4:55:53 PM
Analyst: 388
Data Type: Original
Initial Sample Wt:
Initial Sample Vol: 45 mL
Dilution:
Sample Prep Vol: 50 mL
Wash Time: 90
Auto Dilution Factor: 1

Mean Data: L729798-03 WG751198

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	2468555.4	92.53	mg/L	0.739				0.80%
Y 360.073 R	139036.1	9.918	mg/L	0.1701				1.72%
Ag 328.068†	-13.5	-0.00446	mg/L	0.000191	-0.00495	mg/L	0.000213	4.29%
Al 308.215†	69.8	0.0046	mg/L	0.01963	0.0051	mg/L	0.02181	427.91%
As 188.979†	22.0	0.0081	mg/L	0.00726	0.0090	mg/L	0.00806	89.12%
Ba 233.527†	3534.7	0.0450	mg/L	0.00033	0.0500	mg/L	0.00037	0.74%
Be 313.107†	146.4	-0.00022	mg/L	0.000065	-0.00025	mg/L	0.000072	29.34%
Ca 315.887†	27130641.9	446.9	mg/L	5.59	496.5	mg/L	6.21	1.25%
Cd 214.440†	-9.4	-0.0010	mg/L	0.00047	-0.0011	mg/L	0.00053	49.48%
Co 228.616†	164.0	0.0039	mg/L	0.00020	0.0044	mg/L	0.00022	4.96%
Cr 205.560†	34.9	-0.0016	mg/L	0.00024	-0.0017	mg/L	0.00027	15.32%
Cu 324.752†	2013.0	0.0040	mg/L	0.00018	0.0045	mg/L	0.00020	4.45%
Fe 238.863†	1794.8	0.0967	mg/L	0.00205	0.1075	mg/L	0.00227	2.12%
Mg 279.077†	2567134.2	417.5	mg/L	1.03	463.9	mg/L	1.15	0.25%
Mn 257.610†	253026.1	0.4029	mg/L	0.00539	0.4477	mg/L	0.00599	1.34%
Mo 202.031†	597.4	0.05611	mg/L	0.000726	0.06234	mg/L	0.000807	1.29%
Ni 232.003†	108.0	0.0255	mg/L	0.00380	0.0284	mg/L	0.00422	14.89%
Pb 220.353†	-13.0	0.01130	mg/L	0.003046	0.01256	mg/L	0.003385	26.96%
Sb 206.836†	4.3	0.0013	mg/L	0.00324	0.0014	mg/L	0.00360	249.58%
Se 196.026†	39.6	0.0257	mg/L	0.01320	0.0285	mg/L	0.01467	51.45%
Si 251.611†	8575.0	11.23	mg/L	0.177	12.48	mg/L	0.196	1.57%
Sn 189.927†	32.8	0.0067	mg/L	0.00442	0.0074	mg/L	0.00491	66.16%
Tl 190.801†	4.6	0.0015	mg/L	0.00236	0.0017	mg/L	0.00262	157.42%
V 292.402†	466.6	0.0031	mg/L	0.00037	0.0034	mg/L	0.00041	11.86%
Zn 213.857†	497.9	0.0166	mg/L	0.00064	0.0185	mg/L	0.00071	3.83%
Ti 334.940†	556.6	-0.0113	mg/L	0.00290	-0.0126	mg/L	0.00322	25.61%
B 249.772†	1823.1	0.7563	mg/L	0.00998	0.8403	mg/L	0.01109	1.32%
Na 589.592†	8355851.6	1481	mg/L	27.91	1645	mg/L	31.01	1.88%
K 766.490†	17777.5	10.06	mg/L	0.377	11.18	mg/L	0.419	3.75%
Li 670.784†	9218.8	0.1647	mg/L	0.00848	0.1830	mg/L	0.00942	5.15%
Sr 407.771†	6372856.5	8.025	mg/L	0.1430	8.917	mg/L	0.1589	1.78%

Method Loaded
Method Name: IT11J28N
IEC File: 091614ICP11_IEC.iec
Method Description:

Method Last Saved: 10/28/2014 4:40:30 PM
MSF File:

Sequence No.: 85
Sample ID: SD L729798-03 WG751198
Analyst: 388
Initial Sample Wt:
Dilution: 5X
Wash Time: 150

Autosampler Location: 75
Date Collected: 10/28/2014 5:02:11 PM
Data Type: Original
Initial Sample Vol: 45 mL
Sample Prep Vol: 50 mL
Auto Dilution Factor: 1

Mean Data: SD L729798-03 WG751198

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	2597915.0	97.37	mg/L	0.695				0.71%
Y 360.073 R	146151.1	10.43	mg/L	0.079				0.76%
Ag 328.068†	-9.0	-0.00096	mg/L	0.000191	-0.00531	mg/L	0.001060	19.96%
Al 308.215†	17.5	0.0062	mg/L	0.00584	0.0342	mg/L	0.03243	94.74%
As 188.979†	6.3	0.0037	mg/L	0.00574	0.0207	mg/L	0.03191	154.50%
Ba 233.527†	769.8	0.0098	mg/L	0.00015	0.0545	mg/L	0.00081	1.49%
Be 313.107†	35.4	-0.00004	mg/L	0.000052	-0.00022	mg/L	0.000290	131.40%
Ca 315.887†	5822829.8	95.91	mg/L	0.237	532.8	mg/L	1.32	0.25%
Cd 214.440†	-37.2	-0.0008	mg/L	0.00014	-0.0043	mg/L	0.00076	17.68%
Co 228.616†	37.4	0.0009	mg/L	0.00057	0.0051	mg/L	0.00318	62.16%
Cr 205.560†	12.5	-0.0001	mg/L	0.00023	-0.0005	mg/L	0.00128	258.60%
Cu 324.752†	807.0	0.0033	mg/L	0.00028	0.0183	mg/L	0.00153	8.35%
Fe 238.863†	391.5	0.0213	mg/L	0.00098	0.1181	mg/L	0.00542	4.59%
Mg 279.077†	501093.0	81.50	mg/L	0.193	452.8	mg/L	1.07	0.24%
Mn 257.610†	52079.1	0.0831	mg/L	0.00145	0.4615	mg/L	0.00805	1.74%
Mo 202.031†	147.1	0.01386	mg/L	0.000596	0.07701	mg/L	0.003309	4.30%
Ni 232.003†	24.8	0.0056	mg/L	0.00079	0.0312	mg/L	0.00440	14.07%
Pb 220.353†	-6.5	0.00120	mg/L	0.001113	0.00665	mg/L	0.006186	93.02%
Sb 206.836†	0.9	0.0003	mg/L	0.00535	0.0016	mg/L	0.02972	>999.9%
Se 196.026†	28.7	0.0260	mg/L	0.00857	0.1447	mg/L	0.04762	32.91%
Si 251.611†	1682.5	2.204	mg/L	0.0410	12.24	mg/L	0.228	1.86%
Sn 189.927†	19.3	0.0046	mg/L	0.00047	0.0253	mg/L	0.00262	10.35%
Tl 190.801†	-2.0	-0.0021	mg/L	0.00336	-0.0116	mg/L	0.01867	161.27%
V 292.402†	154.3	0.0013	mg/L	0.00055	0.0071	mg/L	0.00308	43.45%
Zn 213.857†	-384.5	-0.0049	mg/L	0.00014	-0.0271	mg/L	0.00080	2.94%
Ti 334.940†	-78.0	-0.0024	mg/L	0.00005	-0.0135	mg/L	0.00026	1.92%
B 249.772†	399.5	0.1657	mg/L	0.00315	0.9208	mg/L	0.01749	1.90%
Na 589.592†	1687576.3	299.1	mg/L	9.55	1661	mg/L	53.06	3.19%
K 766.490†	3114.3	1.761	mg/L	0.0189	9.785	mg/L	0.1049	1.07%
Li 670.784†	1637.6	0.02919	mg/L	0.001083	0.1622	mg/L	0.00602	3.71%
Sr 407.771†	1281615.4	1.614	mg/L	0.0518	8.965	mg/L	0.2877	3.21%

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Method Loaded
Method Name: IT11J28N **Method Last Saved: 10/28/2014 4:40:30 PM**
IEC File: 091614ICP11_IEC.iec **MSF File:**
Method Description:

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Sequence No.: 86 **Autosampler Location: 77**
Sample ID: MS L729798-03 WG751198 **Date Collected: 10/28/2014 5:07:19 PM**
Analyst: 388 **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol: 45 mL**
Dilution: **Sample Prep Vol: 50 mL**
Wash Time: 90 **Auto Dilution Factor: 1**

Mean Data: MS L729798-03 WG751198

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	2458640.2	92.15	mg/L	0.605				0.66%
Y 360.073 R	139572.8	9.956	mg/L	0.2208				2.22%
Ag 328.068†	163518.6	0.9741	mg/L	0.01076	1.082	mg/L	0.0120	1.10%
Al 308.215†	629.3	1.004	mg/L	0.0248	1.116	mg/L	0.0276	2.47%
As 188.979†	847.3	0.9901	mg/L	0.01169	1.100	mg/L	0.0130	1.18%
Ba 233.527†	70856.3	0.9149	mg/L	0.01105	1.017	mg/L	0.0123	1.21%
Be 313.107†	1410550.9	0.8897	mg/L	0.00370	0.9886	mg/L	0.00411	0.42%
Ca 315.887†	27439831.9	452.0	mg/L	3.80	502.2	mg/L	4.23	0.84%
Cd 214.440†	51885.6	0.8360	mg/L	0.01243	0.9289	mg/L	0.01381	1.49%
Co 228.616†	25107.5	0.8677	mg/L	0.01176	0.9641	mg/L	0.01307	1.36%
Cr 205.560†	18598.8	0.8557	mg/L	0.00648	0.9508	mg/L	0.00720	0.76%
Cu 324.752†	154745.8	0.9679	mg/L	0.01206	1.075	mg/L	0.0134	1.25%
Fe 238.863†	15305.2	0.9345	mg/L	0.01193	1.038	mg/L	0.0133	1.28%
Mg 279.077†	2622802.8	426.6	mg/L	1.83	474.0	mg/L	2.03	0.43%
Mn 257.610†	764397.5	1.246	mg/L	0.0042	1.385	mg/L	0.0046	0.33%
Mo 202.031†	9951.8	0.9627	mg/L	0.00196	1.070	mg/L	0.0022	0.20%
Ni 232.003†	7266.9	1.021	mg/L	0.0020	1.135	mg/L	0.0022	0.19%
Pb 220.353†	2782.1	0.8780	mg/L	0.00667	0.9755	mg/L	0.00741	0.76%
Sb 206.836†	1818.0	0.9625	mg/L	0.00495	1.069	mg/L	0.0055	0.51%
Se 196.026†	1008.9	1.006	mg/L	0.0028	1.118	mg/L	0.0031	0.28%
Si 251.611†	9332.6	12.23	mg/L	0.137	13.59	mg/L	0.152	1.12%
Sn 189.927†	3253.2	0.8034	mg/L	0.00243	0.8927	mg/L	0.00270	0.30%
Tl 190.801†	1076.2	0.8186	mg/L	0.00420	0.9096	mg/L	0.00466	0.51%
V 292.402†	86151.5	0.9210	mg/L	0.00986	1.023	mg/L	0.0110	1.07%
Zn 213.857†	51682.8	0.9022	mg/L	0.01169	1.002	mg/L	0.0130	1.30%
Ti 334.940†	596101.7	0.8416	mg/L	0.00268	0.9351	mg/L	0.00298	0.32%
B 249.772†	4071.5	1.689	mg/L	0.0140	1.877	mg/L	0.0156	0.83%
Na 589.592†	8240259.1	1460	mg/L	31.20	1623	mg/L	34.66	2.14%
K 766.490†	35328.6	20.01	mg/L	0.234	22.23	mg/L	0.260	1.17%
Li 670.784†	63302.8	1.147	mg/L	0.0089	1.274	mg/L	0.0099	0.77%
Sr 407.771†	6970978.0	8.779	mg/L	0.1925	9.754	mg/L	0.2139	2.19%

Method Loaded
Method Name: IT11J28N
Method Last Saved: 10/28/2014 4:40:30 PM
IEC File: 091614ICP11_IEC.iec
MSF File:
Method Description:

Sequence No.: 87
Autosampler Location: 78
Sample ID: MSD L729798-03 WG751198
Date Collected: 10/28/2014 5:13:37 PM
Analyst: 388
Data Type: Original
Initial Sample Wt:
Initial Sample Vol: 45 mL
Dilution:
Sample Prep Vol: 50 mL
Wash Time: 150
Auto Dilution Factor: 1

Mean Data: MSD L729798-03 WG751198

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	2474571.3	92.75	mg/L	0.699				0.75%
Y 360.073 R	142312.1	10.15	mg/L	0.123				1.21%
Ag 328.068†	156258.9	0.9307	mg/L	0.01454	1.034	mg/L	0.0162	1.56%
Al 308.215†	633.3	1.015	mg/L	0.0034	1.127	mg/L	0.0038	0.34%
As 188.979†	808.3	0.9441	mg/L	0.01942	1.049	mg/L	0.0216	2.06%
Ba 233.527†	67685.7	0.8739	mg/L	0.01401	0.9710	mg/L	0.01556	1.60%
Be 313.107†	1362631.0	0.8595	mg/L	0.00334	0.9550	mg/L	0.00371	0.39%
Ca 315.887†	26913329.0	443.3	mg/L	2.39	492.5	mg/L	2.66	0.54%
Cd 214.440†	49758.7	0.8018	mg/L	0.01552	0.8908	mg/L	0.01725	1.94%
Co 228.616†	24075.2	0.8319	mg/L	0.01357	0.9244	mg/L	0.01508	1.63%
Cr 205.560†	17763.0	0.8172	mg/L	0.01683	0.9080	mg/L	0.01870	2.06%
Cu 324.752†	147877.1	0.9247	mg/L	0.01313	1.027	mg/L	0.0146	1.42%
Fe 238.863†	14865.6	0.9075	mg/L	0.02773	1.008	mg/L	0.0308	3.06%
Mg 279.077†	2582093.1	420.0	mg/L	1.54	466.6	mg/L	1.72	0.37%
Mn 257.610†	744314.1	1.213	mg/L	0.0032	1.348	mg/L	0.0035	0.26%
Mo 202.031†	9658.4	0.9343	mg/L	0.01052	1.038	mg/L	0.0117	1.13%
Ni 232.003†	7034.0	0.9888	mg/L	0.01124	1.099	mg/L	0.0125	1.14%
Pb 220.353†	2696.2	0.8511	mg/L	0.01424	0.9456	mg/L	0.01582	1.67%
Sb 206.836†	1761.8	0.9327	mg/L	0.01582	1.036	mg/L	0.0176	1.70%
Se 196.026†	982.6	0.9796	mg/L	0.02882	1.088	mg/L	0.0320	2.94%
Si 251.611†	9312.1	12.20	mg/L	0.065	13.56	mg/L	0.072	0.53%
Sn 189.927†	3171.8	0.7833	mg/L	0.01109	0.8703	mg/L	0.01233	1.42%
Tl 190.801†	1033.4	0.7861	mg/L	0.00973	0.8734	mg/L	0.01081	1.24%
V 292.402†	82334.6	0.8802	mg/L	0.01581	0.9779	mg/L	0.01756	1.80%
Zn 213.857†	49349.9	0.8617	mg/L	0.01541	0.9574	mg/L	0.01713	1.79%
Ti 334.940†	577830.9	0.8156	mg/L	0.00388	0.9062	mg/L	0.00431	0.48%
B 249.772†	4026.7	1.671	mg/L	0.0200	1.856	mg/L	0.0223	1.20%
Na 589.592†	8116753.5	1438	mg/L	5.70	1598	mg/L	6.34	0.40%
K 766.490†	34301.1	19.43	mg/L	0.153	21.59	mg/L	0.169	0.79%
Li 670.784†	61469.9	1.114	mg/L	0.0048	1.237	mg/L	0.0054	0.43%
Sr 407.771†	6884982.8	8.671	mg/L	0.0729	9.634	mg/L	0.0810	0.84%

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Method Loaded
Method Name: IT11J28N **Method Last Saved: 10/28/2014 4:40:30 PM**
IEC File: 091614ICP11_IEC.iec **MSF File:**
Method Description:

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Sequence No.: 88 **Autosampler Location: 82**
Sample ID: L729798-01 WG751198 **Date Collected: 10/28/2014 5:19:56 PM**
Analyst: 388 **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol: 45 mL**
Dilution: **Sample Prep Vol: 50 mL**
Wash Time: 150 **Auto Dilution Factor: 1**

Mean Data: L729798-01 WG751198

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	2422046.4	90.78	mg/L	0.529				0.58%
Y 360.073 R	137947.9	9.840	mg/L	0.0832				0.85%
Ag 328.068†	8.8	-0.00432	mg/L	0.001432	-0.00480	mg/L	0.001591	33.15%
Al 308.215†	111.6	0.0803	mg/L	0.02915	0.0893	mg/L	0.03239	36.29%
As 188.979†	31.0	0.0188	mg/L	0.00619	0.0209	mg/L	0.00688	32.90%
Ba 233.527†	2902.0	0.0368	mg/L	0.00020	0.0409	mg/L	0.00022	0.53%
Be 313.107†	84.3	-0.00026	mg/L	0.000072	-0.00029	mg/L	0.000081	27.88%
Ca 315.887†	27245973.6	448.8	mg/L	1.88	498.6	mg/L	2.09	0.42%
Cd 214.440†	-62.9	-0.0018	mg/L	0.00012	-0.0021	mg/L	0.00013	6.36%
Co 228.616†	150.1	0.0034	mg/L	0.00031	0.0038	mg/L	0.00034	8.92%
Cr 205.560†	38.7	-0.0014	mg/L	0.00014	-0.0015	mg/L	0.00015	9.73%
Cu 324.752†	1646.3	0.0017	mg/L	0.00023	0.0019	mg/L	0.00026	13.51%
Fe 238.863†	6124.2	0.3652	mg/L	0.00361	0.4058	mg/L	0.00402	0.99%
Mg 279.077†	2558801.9	416.2	mg/L	0.62	462.4	mg/L	0.69	0.15%
Mn 257.610†	319727.4	0.5130	mg/L	0.00245	0.5699	mg/L	0.00272	0.48%
Mo 202.031†	702.5	0.06629	mg/L	0.000467	0.07365	mg/L	0.000519	0.70%
Ni 232.003†	184.0	0.0361	mg/L	0.00224	0.0401	mg/L	0.00249	6.20%
Pb 220.353†	-29.5	0.00617	mg/L	0.001729	0.00686	mg/L	0.001921	28.01%
Sb 206.836†	7.7	0.0031	mg/L	0.00142	0.0035	mg/L	0.00158	45.72%
Se 196.026†	50.1	0.0364	mg/L	0.00356	0.0405	mg/L	0.00396	9.78%
Si 251.611†	8412.5	11.02	mg/L	0.103	12.24	mg/L	0.114	0.93%
Sn 189.927†	39.1	0.0083	mg/L	0.00386	0.0092	mg/L	0.00429	46.54%
Tl 190.801†	-0.1	-0.0021	mg/L	0.00457	-0.0024	mg/L	0.00508	213.76%
V 292.402†	441.0	0.0028	mg/L	0.00036	0.0031	mg/L	0.00040	12.90%
Zn 213.857†	651.9	0.0193	mg/L	0.00169	0.0215	mg/L	0.00188	8.77%
Ti 334.940†	1038.4	-0.0106	mg/L	0.00079	-0.0117	mg/L	0.00087	7.44%
B 249.772†	1787.1	0.7407	mg/L	0.00745	0.8230	mg/L	0.00827	1.01%
Na 589.592†	8259792.0	1464	mg/L	17.26	1626	mg/L	19.17	1.18%
K 766.490†	17646.7	9.984	mg/L	0.0678	11.09	mg/L	0.075	0.68%
Li 670.784†	9511.1	0.1700	mg/L	0.00233	0.1889	mg/L	0.00259	1.37%
Sr 407.771†	6410997.0	8.073	mg/L	0.0931	8.970	mg/L	0.1034	1.15%

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Method Loaded
Method Name: IT11J28N **Method Last Saved: 10/28/2014 4:40:30 PM**
IEC File: 091614ICP11_IEC.iec **MSF File:**
Method Description:

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Sequence No.: 89 **Autosampler Location: 83**
Sample ID: L729798-05 WG751198 **Date Collected: 10/28/2014 5:26:15 PM**
Analyst: 388 **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol: 45 mL**
Dilution: **Sample Prep Vol: 50 mL**
Wash Time: 150 **Auto Dilution Factor: 1**

Mean Data: L729798-05 WG751198

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	2447566.0	91.74	mg/L	2.351				2.56%
Y 360.073 R	140501.1	10.02	mg/L	0.170				1.69%
Ag 328.068†	173.1	-0.00415	mg/L	0.001226	-0.00461	mg/L	0.001362	29.54%
Al 308.215†	57.9	-0.0473	mg/L	0.02580	-0.0526	mg/L	0.02867	54.53%
As 188.979†	25.0	0.0064	mg/L	0.00719	0.0071	mg/L	0.00799	112.31%
Ba 233.527†	1318.7	0.0162	mg/L	0.00038	0.0180	mg/L	0.00042	2.34%
Be 313.107†	-198.3	-0.00044	mg/L	0.000018	-0.00048	mg/L	0.000020	4.03%
Ca 315.887†	37032542.4	609.9	mg/L	7.94	677.7	mg/L	8.82	1.30%
Cd 214.440†	-75.1	-0.0024	mg/L	0.00018	-0.0027	mg/L	0.00020	7.60%
Co 228.616†	88.0	0.0006	mg/L	0.00017	0.0007	mg/L	0.00019	26.53%
Cr 205.560†	42.8	-0.0020	mg/L	0.00055	-0.0023	mg/L	0.00061	26.86%
Cu 324.752†	1298.0	-0.0021	mg/L	0.00059	-0.0023	mg/L	0.00066	28.06%
Fe 238.863†	941.7	0.0411	mg/L	0.00248	0.0456	mg/L	0.00275	6.03%
Mg 279.077†	2405968.3	391.3	mg/L	1.56	434.8	mg/L	1.73	0.40%
Mn 257.610†	104944.7	0.1593	mg/L	0.00333	0.1770	mg/L	0.00370	2.09%
Mo 202.031†	314.2	0.02774	mg/L	0.000440	0.03083	mg/L	0.000489	1.59%
Ni 232.003†	78.3	0.0233	mg/L	0.00448	0.0259	mg/L	0.00498	19.22%
Pb 220.353†	-34.8	0.00810	mg/L	0.002092	0.00900	mg/L	0.002325	25.82%
Sb 206.836†	8.8	0.0036	mg/L	0.00409	0.0039	mg/L	0.00454	115.06%
Se 196.026†	38.3	0.0207	mg/L	0.01373	0.0230	mg/L	0.01526	66.40%
Si 251.611†	8514.3	11.15	mg/L	0.184	12.39	mg/L	0.204	1.65%
Sn 189.927†	36.5	0.0092	mg/L	0.00307	0.0102	mg/L	0.00341	33.36%
Tl 190.801†	-1.7	-0.0064	mg/L	0.00799	-0.0071	mg/L	0.00888	124.31%
V 292.402†	651.5	0.0050	mg/L	0.00012	0.0056	mg/L	0.00013	2.40%
Zn 213.857†	-658.3	0.0009	mg/L	0.00059	0.0010	mg/L	0.00065	64.72%
Ti 334.940†	-2335.5	-0.0136	mg/L	0.00045	-0.0151	mg/L	0.00050	3.32%
B 249.772†	1127.3	0.4668	mg/L	0.00964	0.5186	mg/L	0.01071	2.07%
Na 589.592†	7255324.8	1286	mg/L	5.21	1429	mg/L	5.79	0.41%
K 766.490†	16765.5	9.478	mg/L	0.0563	10.53	mg/L	0.063	0.59%
Li 670.784†	9413.9	0.1681	mg/L	0.00232	0.1868	mg/L	0.00258	1.38%
Sr 407.771†	8627847.2	10.86	mg/L	0.026	12.07	mg/L	0.029	0.24%

Method Loaded
Method Name: IT11J28N
Method Last Saved: 10/28/2014 4:40:30 PM
IEC File: 091614ICP11_IEC.iec
MSF File:
Method Description:

Sequence No.: 90
Autosampler Location: 84
Sample ID: L729800-02 WG751198
Date Collected: 10/28/2014 5:32:32 PM
Analyst: 388
Data Type: Original
Initial Sample Wt:
Initial Sample Vol: 45 mL
Dilution:
Sample Prep Vol: 50 mL
Wash Time: 150
Auto Dilution Factor: 1

Mean Data: L729800-02 WG751198

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	2361017.7	88.49	mg/L	0.329				0.37%
Y 360.073 R	138556.2	9.883	mg/L	0.1335				1.35%
Ag 328.068†	118.8	-0.00510	mg/L	0.000863	-0.00567	mg/L	0.000959	16.92%
Al 308.215†	26.2	-0.1190	mg/L	0.01103	-0.1322	mg/L	0.01225	9.27%
As 188.979†	25.9	0.0057	mg/L	0.00177	0.0064	mg/L	0.00197	30.87%
Ba 233.527†	1663.9	0.0206	mg/L	0.00025	0.0229	mg/L	0.00028	1.23%
Be 313.107†	-383.1	-0.00062	mg/L	0.000034	-0.00069	mg/L	0.000038	5.55%
Ca 315.887†	38969043.2	641.8	mg/L	3.84	713.2	mg/L	4.27	0.60%
Cd 214.440†	-70.7	-0.0024	mg/L	0.00003	-0.0026	mg/L	0.00004	1.34%
Co 228.616†	130.8	0.0020	mg/L	0.00010	0.0022	mg/L	0.00011	5.04%
Cr 205.560†	24.9	-0.0032	mg/L	0.00040	-0.0036	mg/L	0.00044	12.44%
Cu 324.752†	1290.9	-0.0034	mg/L	0.00020	-0.0038	mg/L	0.00022	5.87%
Fe 238.863†	989.2	0.0420	mg/L	0.00155	0.0466	mg/L	0.00172	3.69%
Mg 279.077†	3012743.2	490.0	mg/L	0.88	544.4	mg/L	0.98	0.18%
Mn 257.610†	307730.9	0.4905	mg/L	0.00505	0.5450	mg/L	0.00561	1.03%
Mo 202.031†	497.3	0.04546	mg/L	0.001751	0.05052	mg/L	0.001945	3.85%
Ni 232.003†	83.9	0.0256	mg/L	0.00229	0.0284	mg/L	0.00254	8.95%
Pb 220.353†	-39.1	0.00865	mg/L	0.003588	0.00961	mg/L	0.003987	41.50%
Sb 206.836†	7.6	0.0027	mg/L	0.00624	0.0030	mg/L	0.00693	228.00%
Se 196.026†	52.2	0.0331	mg/L	0.00965	0.0368	mg/L	0.01072	29.14%
Si 251.611†	8047.6	10.52	mg/L	0.114	11.69	mg/L	0.127	1.08%
Sn 189.927†	45.9	0.0106	mg/L	0.00265	0.0118	mg/L	0.00295	25.03%
Tl 190.801†	-1.3	-0.0053	mg/L	0.00514	-0.0059	mg/L	0.00571	96.34%
V 292.402†	286.1	0.0007	mg/L	0.00007	0.0008	mg/L	0.00008	10.17%
Zn 213.857†	283.9	0.0173	mg/L	0.00052	0.0192	mg/L	0.00058	3.03%
Ti 334.940†	-4127.6	-0.0195	mg/L	0.00023	-0.0216	mg/L	0.00026	1.20%
B 249.772†	640.9	0.2644	mg/L	0.00244	0.2938	mg/L	0.00271	0.92%
Na 589.592†	10365376.9	1837	mg/L	40.04	2041	mg/L	44.49	2.18%
K 766.490†	22238.0	12.58	mg/L	0.109	13.98	mg/L	0.121	0.87%
Li 670.784†	10732.6	0.1915	mg/L	0.00241	0.2128	mg/L	0.00268	1.26%
Sr 407.771†	10318309.6	12.99	mg/L	0.262	14.44	mg/L	0.291	2.02%

==========

Method Loaded
Method Name: IT11J28N **Method Last Saved: 10/28/2014 4:40:30 PM**
IEC File: 091614ICP11_IEC.iec **MSF File:**
Method Description:

==========

Sequence No.: 91 **Autosampler Location: 3**
Sample ID: CCV 14J27642 **Date Collected: 10/28/2014 5:38:49 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**
Wash Time: 150 **Auto Dilution Factor: 1**

Mean Data: CCV 14J27642

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 360.073	2721402.4	102.0	mg/L	1.31				1.29%
Y 360.073 R	143342.7	10.22	mg/L	0.126				1.23%
Ag 328.068†	155426.1	0.9302	mg/L	0.00301	0.9302	mg/L	0.00301	0.32%
QC value within limits for Ag 328.068 Recovery = 93.02%								
Al 308.215†	5178.0	9.380	mg/L	0.0742	9.380	mg/L	0.0742	0.79%
QC value within limits for Al 308.215 Recovery = 93.80%								
As 188.979†	1596.7	1.899	mg/L	0.0207	1.899	mg/L	0.0207	1.09%
QC value within limits for As 188.979 Recovery = 94.93%								
Ba 233.527†	38881.2	0.5020	mg/L	0.00428	0.5020	mg/L	0.00428	0.85%
QC value within limits for Ba 233.527 Recovery = 100.40%								
Be 313.107†	303421.6	0.1914	mg/L	0.00047	0.1914	mg/L	0.00047	0.25%
QC value within limits for Be 313.107 Recovery = 95.72%								
Ca 315.887†	2933417.3	48.32	mg/L	0.147	48.32	mg/L	0.147	0.30%
QC value within limits for Ca 315.887 Recovery = 96.64%								
Cd 214.440†	30724.2	0.4949	mg/L	0.00447	0.4949	mg/L	0.00447	0.90%
QC value within limits for Cd 214.440 Recovery = 98.98%								
Co 228.616†	28994.8	1.004	mg/L	0.0082	1.004	mg/L	0.0082	0.82%
QC value within limits for Co 228.616 Recovery = 100.38%								
Cr 205.560†	21599.9	0.9971	mg/L	0.00837	0.9971	mg/L	0.00837	0.84%
QC value within limits for Cr 205.560 Recovery = 99.71%								
Cu 324.752†	292277.1	1.845	mg/L	0.0074	1.845	mg/L	0.0074	0.40%
QC value within limits for Cu 324.752 Recovery = 92.23%								
Fe 238.863†	152898.5	9.482	mg/L	0.0289	9.482	mg/L	0.0289	0.30%
QC value within limits for Fe 238.863 Recovery = 94.82%								
Mg 279.077†	60207.4	9.785	mg/L	0.0295	9.785	mg/L	0.0295	0.30%
QC value within limits for Mg 279.077 Recovery = 97.85%								
Mn 257.610†	589796.9	0.9724	mg/L	0.00270	0.9724	mg/L	0.00270	0.28%
QC value within limits for Mn 257.610 Recovery = 97.24%								
Mo 202.031†	4940.4	0.4791	mg/L	0.00261	0.4791	mg/L	0.00261	0.55%
QC value within limits for Mo 202.031 Recovery = 95.81%								
Ni 232.003†	14084.5	1.960	mg/L	0.0170	1.960	mg/L	0.0170	0.87%
QC value within limits for Ni 232.003 Recovery = 98.01%								
Pb 220.353†	1571.0	0.4878	mg/L	0.00420	0.4878	mg/L	0.00420	0.86%
QC value within limits for Pb 220.353 Recovery = 97.55%								
Sb 206.836†	3574.6	1.892	mg/L	0.0204	1.892	mg/L	0.0204	1.08%
QC value within limits for Sb 206.836 Recovery = 94.60%								
Se 196.026†	1883.7	1.908	mg/L	0.0226	1.908	mg/L	0.0226	1.19%
QC value within limits for Se 196.026 Recovery = 95.42%								
Si 251.611†	1457.8	1.920	mg/L	0.0172	1.920	mg/L	0.0172	0.90%
QC value within limits for Si 251.611 Recovery = 96.00%								
Sn 189.927†	7715.3	1.910	mg/L	0.0153	1.910	mg/L	0.0153	0.80%
QC value within limits for Sn 189.927 Recovery = 95.51%								
Tl 190.801†	2553.2	1.949	mg/L	0.0199	1.949	mg/L	0.0199	1.02%
QC value within limits for Tl 190.801 Recovery = 97.44%								
V 292.402†	88842.6	0.9510	mg/L	0.00256	0.9510	mg/L	0.00256	0.27%
QC value within limits for V 292.402 Recovery = 95.10%								
Zn 213.857†	160993.3	2.786	mg/L	0.0077	2.786	mg/L	0.0077	0.28%
QC value within limits for Zn 213.857 Recovery = 92.85%								
Ti 334.940†	673244.3	0.9644	mg/L	0.00234	0.9644	mg/L	0.00234	0.24%
QC value within limits for Ti 334.940 Recovery = 96.44%								
B 249.772†	4556.2	1.874	mg/L	0.0267	1.874	mg/L	0.0267	1.43%
QC value within limits for B 249.772 Recovery = 93.68%								
Na 589.592†	292909.2	51.90	mg/L	0.185	51.90	mg/L	0.185	0.36%

```
   QC value within limits for Na 589.592  Recovery = 103.80%
K 766.490†            85827.0       48.66 mg/L         0.017       48.66 mg/L         0.017   0.04%
   QC value within limits for K 766.490  Recovery = 97.33%
Li 670.784†           81719.8       1.484 mg/L        0.0028       1.484 mg/L        0.0028   0.19%
   QC value within limits for Li 670.784  Recovery = 98.93%
Sr 407.771†          777797.0      0.9796 mg/L       0.00111      0.9796 mg/L       0.00111   0.11%
   QC value within limits for Sr 407.771  Recovery = 97.96%
All analyte(s) passed QC.
```

Method Loaded
Method Name: IT11J28N **Method Last Saved: 10/28/2014 4:40:30 PM**
IEC File: 091614ICP11_IEC.iec **MSF File:**
Method Description:

Sequence No.: 92 **Autosampler Location: 2**
Sample ID: CCB **Date Collected: 10/28/2014 5:43:46 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**
Wash Time: 90 **Auto Dilution Factor: 1**

Mean Data: CCB

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	2786436.2	104.4	mg/L	1.10				1.05%
Y 360.073 R	147998.6	10.56	mg/L	0.161				1.52%
Ag 328.068†	183.0	0.00109	mg/L	0.000398	0.00109	mg/L	0.000398	36.39%
QC value within limits for Ag 328.068 Recovery = Not calculated								
Al 308.215†	1.0	0.0019	mg/L	0.01296	0.0019	mg/L	0.01296	698.17%
QC value within limits for Al 308.215 Recovery = Not calculated								
As 188.979†	1.1	0.0013	mg/L	0.00526	0.0013	mg/L	0.00526	407.99%
QC value within limits for As 188.979 Recovery = Not calculated								
Ba 233.527†	16.6	0.0002	mg/L	0.00002	0.0002	mg/L	0.00002	11.27%
QC value within limits for Ba 233.527 Recovery = Not calculated								
Be 313.107†	-15.6	-0.00001	mg/L	0.000044	-0.00001	mg/L	0.000044	445.80%
QC value within limits for Be 313.107 Recovery = Not calculated								
Ca 315.887†	2523.9	0.04157	mg/L	0.004955	0.04157	mg/L	0.004955	11.92%
QC value within limits for Ca 315.887 Recovery = Not calculated								
Cd 214.440†	-6.1	-0.0001	mg/L	0.00020	-0.0001	mg/L	0.00020	196.72%
QC value within limits for Cd 214.440 Recovery = Not calculated								
Co 228.616†	14.4	0.0005	mg/L	0.00012	0.0005	mg/L	0.00012	23.69%
QC value within limits for Co 228.616 Recovery = Not calculated								
Cr 205.560†	9.3	0.0004	mg/L	0.00034	0.0004	mg/L	0.00034	80.31%
QC value within limits for Cr 205.560 Recovery = Not calculated								
Cu 324.752†	1437.2	0.0091	mg/L	0.00097	0.0091	mg/L	0.00097	10.66%
QC value within limits for Cu 324.752 Recovery = Not calculated								
Fe 238.863†	49.4	0.0031	mg/L	0.00199	0.0031	mg/L	0.00199	64.83%
QC value within limits for Fe 238.863 Recovery = Not calculated								
Mg 279.077†	92.3	0.0150	mg/L	0.00052	0.0150	mg/L	0.00052	3.44%
QC value within limits for Mg 279.077 Recovery = Not calculated								
Mn 257.610†	188.1	0.0003	mg/L	0.00009	0.0003	mg/L	0.00009	29.74%
QC value within limits for Mn 257.610 Recovery = Not calculated								
Mo 202.031†	2.1	0.00020	mg/L	0.000279	0.00020	mg/L	0.000279	136.67%
QC value within limits for Mo 202.031 Recovery = Not calculated								
Ni 232.003†	29.7	0.0041	mg/L	0.00074	0.0041	mg/L	0.00074	17.86%
QC value within limits for Ni 232.003 Recovery = Not calculated								
Pb 220.353†	-11.2	-0.00347	mg/L	0.004199	-0.00347	mg/L	0.004199	120.85%
QC value within limits for Pb 220.353 Recovery = Not calculated								
Sb 206.836†	-3.1	-0.0016	mg/L	0.00569	-0.0016	mg/L	0.00569	345.47%
QC value within limits for Sb 206.836 Recovery = Not calculated								
Se 196.026†	3.5	0.0036	mg/L	0.00298	0.0036	mg/L	0.00298	83.19%
QC value within limits for Se 196.026 Recovery = Not calculated								
Si 251.611†	11.9	0.0156	mg/L	0.00188	0.0156	mg/L	0.00188	12.04%
QC value within limits for Si 251.611 Recovery = Not calculated								
Sn 189.927†	9.9	0.0025	mg/L	0.00154	0.0025	mg/L	0.00154	62.55%
QC value within limits for Sn 189.927 Recovery = Not calculated								
Tl 190.801†	-0.7	-0.0005	mg/L	0.00212	-0.0005	mg/L	0.00212	422.51%
QC value within limits for Tl 190.801 Recovery = Not calculated								
V 292.402†	23.3	0.0002	mg/L	0.00039	0.0002	mg/L	0.00039	155.22%
QC value within limits for V 292.402 Recovery = Not calculated								
Zn 213.857†	62.5	0.0011	mg/L	0.00004	0.0011	mg/L	0.00004	3.32%
QC value within limits for Zn 213.857 Recovery = Not calculated								
Ti 334.940†	198.5	0.0003	mg/L	0.00018	0.0003	mg/L	0.00018	61.66%
QC value within limits for Ti 334.940 Recovery = Not calculated								
B 249.772†	64.9	0.0270	mg/L	0.00220	0.0270	mg/L	0.00220	8.14%
QC value within limits for B 249.772 Recovery = Not calculated								
Na 589.592†	7272.8	1.289	mg/L	0.0577	1.289	mg/L	0.0577	4.47%

```
   QC value greater than the upper limit for Na 589.592  Recovery = Not calculated
K 766.490†              251.8      0.1428 mg/L       0.05138      0.1428 mg/L       0.05138  35.98%
   QC value within limits for K 766.490  Recovery = Not calculated
Li 670.784†             204.4     0.00371 mg/L      0.000710     0.00371 mg/L      0.000710  19.12%
   QC value within limits for Li 670.784  Recovery = Not calculated
Sr 407.771†             658.6     0.00083 mg/L      0.000126     0.00083 mg/L      0.000126  15.16%
   QC value within limits for Sr 407.771  Recovery = Not calculated
QC Failed.  Stop the analysis.
```

==========

Method Loaded
Method Name: IT11J28N **Method Last Saved: 10/28/2014 4:40:30 PM**
IEC File: 091614ICP11_IEC.iec **MSF File:**
Method Description:
Analysis canceled by a QC failure action: 'Stop'.

==========

Analysis Begun

Start Time: 10/28/2014 6:05:55 PM **Plasma On Time: 10/28/2014 8:27:47 AM**
Logged In Analyst: ICP11 **Technique: ICP Continuous**
Spectrometer: Optima 8300 , S/N 078S1402113 **Autosampler: Cetac**

Sample Information File: C:\pe\ICP11\Sample Information\102814ICP11.sif
Batch ID:
Results Data Set: 102814ICP11
Results Library: C:\pe\ICP11\Results\Results.mdb

==========

Sequence No.: 93 **Autosampler Location: 1**
Sample ID: CCVLL 14J27641 **Date Collected: 10/28/2014 6:05:57 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**
Wash Time:

Mean Data: CCVLL 14J27641

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 360.073	2849421.0	106.8	mg/L	1.40				1.31%
Y 360.073 R	149339.5	10.65	mg/L	0.288				2.70%
Ag 328.068†	1649.6	0.00987	mg/L	0.000567	0.00987	mg/L	0.000567	5.75%
QC value within limits for Ag 328.068 Recovery = 98.73%								
Al 308.215†	45.5	0.0824	mg/L	0.00219	0.0824	mg/L	0.00219	2.66%
QC value within limits for Al 308.215 Recovery = 82.35%								
As 188.979†	19.5	0.0231	mg/L	0.00399	0.0231	mg/L	0.00399	17.24%
QC value within limits for As 188.979 Recovery = 115.73%								
Ba 233.527†	404.5	0.0052	mg/L	0.00011	0.0052	mg/L	0.00011	2.05%
QC value within limits for Ba 233.527 Recovery = 104.45%								
Be 313.107†	2923.0	0.00184	mg/L	0.000056	0.00184	mg/L	0.000056	3.03%
QC value within limits for Be 313.107 Recovery = 92.21%								
Ca 315.887†	30816.9	0.5076	mg/L	0.00372	0.5076	mg/L	0.00372	0.73%
QC value within limits for Ca 315.887 Recovery = 101.52%								
Cd 214.440†	276.4	0.0045	mg/L	0.00032	0.0045	mg/L	0.00032	7.25%
QC value within limits for Cd 214.440 Recovery = 89.03%								
Co 228.616†	310.1	0.0107	mg/L	0.00023	0.0107	mg/L	0.00023	2.17%
QC value within limits for Co 228.616 Recovery = 107.35%								
Cr 205.560†	211.6	0.0098	mg/L	0.00032	0.0098	mg/L	0.00032	3.25%
QC value within limits for Cr 205.560 Recovery = 97.68%								
Cu 324.752†	3134.3	0.0198	mg/L	0.00044	0.0198	mg/L	0.00044	2.23%
QC value within limits for Cu 324.752 Recovery = 98.91%								
Fe 238.863†	1718.0	0.1065	mg/L	0.00205	0.1065	mg/L	0.00205	1.93%
QC value within limits for Fe 238.863 Recovery = 106.54%								
Mg 279.077†	683.4	0.1111	mg/L	0.00399	0.1111	mg/L	0.00399	3.59%
QC value within limits for Mg 279.077 Recovery = 111.07%								
Mn 257.610†	5981.8	0.0099	mg/L	0.00012	0.0099	mg/L	0.00012	1.24%
QC value within limits for Mn 257.610 Recovery = 98.62%								
Mo 202.031†	42.8	0.00415	mg/L	0.000394	0.00415	mg/L	0.000394	9.51%
QC value within limits for Mo 202.031 Recovery = 82.95%								
Ni 232.003†	198.3	0.0276	mg/L	0.00128	0.0276	mg/L	0.00128	4.65%
QC value within limits for Ni 232.003 Recovery = 138.00%								
Pb 220.353†	6.6	0.00204	mg/L	0.001560	0.00204	mg/L	0.001560	76.50%
QC value less than the lower limit for Pb 220.353 Recovery = 40.79%								
Sb 206.836†	34.1	0.0181	mg/L	0.00203	0.0181	mg/L	0.00203	11.26%
QC value within limits for Sb 206.836 Recovery = 90.26%								
Se 196.026†	16.5	0.0167	mg/L	0.00401	0.0167	mg/L	0.00401	23.93%
QC value within limits for Se 196.026 Recovery = 83.74%								
Si 251.611†	133.3	0.1757	mg/L	0.00143	0.1757	mg/L	0.00143	0.81%
QC value within limits for Si 251.611 Recovery = 87.84%								

Sn 189.927†	83.5	0.0207 mg/L	0.00069	0.0207 mg/L	0.00069	3.32%
QC value within limits for Sn 189.927 Recovery = 103.34%						
Tl 190.801†	30.1	0.0230 mg/L	0.00331	0.0230 mg/L	0.00331	14.38%
QC value within limits for Tl 190.801 Recovery = 115.07%						
V 292.402†	928.6	0.0099 mg/L	0.00049	0.0099 mg/L	0.00049	4.89%
QC value within limits for V 292.402 Recovery = 99.40%						
Zn 213.857†	1699.1	0.0294 mg/L	0.00028	0.0294 mg/L	0.00028	0.96%
QC value within limits for Zn 213.857 Recovery = 97.99%						
Ti 334.940†	6898.7	0.0099 mg/L	0.00029	0.0099 mg/L	0.00029	2.96%
QC value within limits for Ti 334.940 Recovery = 98.82%						
B 249.772†	452.7	0.1880 mg/L	0.00422	0.1880 mg/L	0.00422	2.24%
QC value within limits for B 249.772 Recovery = 93.99%						
Na 589.592†	4926.2	0.8729 mg/L	0.01345	0.8729 mg/L	0.01345	1.54%
QC value greater than the upper limit for Na 589.592 Recovery = 174.59%						
K 766.490†	901.0	0.5109 mg/L	0.02560	0.5109 mg/L	0.02560	5.01%
QC value within limits for K 766.490 Recovery = 102.17%						
Li 670.784†	871.2	0.01582 mg/L	0.001831	0.01582 mg/L	0.001831	11.58%
QC value within limits for Li 670.784 Recovery = 105.47%						
Sr 407.771†	7676.4	0.00967 mg/L	0.000017	0.00967 mg/L	0.000017	0.17%
QC value within limits for Sr 407.771 Recovery = 96.67%						

QC Failed. Retry.

==========

Sequence No.: 94 **Autosampler Location: 1**
Sample ID: CCVLL 14J27641 **Date Collected: 10/28/2014 6:09:24 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**
Wash Time:

Mean Data: CCVLL 14J27641

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 360.073	2813064.7	105.4	mg/L	1.90				1.80%
Y 360.073 R	148394.7	10.59	mg/L	0.052				0.50%
Ag 328.068†	1708.0	0.01022	mg/L	0.000135	0.01022	mg/L	0.000135	1.32%
QC value within limits for Ag 328.068 Recovery = 102.22%								
Al 308.215†	56.2	0.1019	mg/L	0.01991	0.1019	mg/L	0.01991	19.54%
QC value within limits for Al 308.215 Recovery = 101.87%								
As 188.979†	23.7	0.0282	mg/L	0.00773	0.0282	mg/L	0.00773	27.38%
QC value within limits for As 188.979 Recovery = 141.21%								
Ba 233.527†	420.7	0.0054	mg/L	0.00007	0.0054	mg/L	0.00007	1.31%
QC value within limits for Ba 233.527 Recovery = 108.64%								
Be 313.107†	3011.7	0.00190	mg/L	0.000085	0.00190	mg/L	0.000085	4.48%
QC value within limits for Be 313.107 Recovery = 95.01%								
Ca 315.887†	30861.2	0.5084	mg/L	0.00246	0.5084	mg/L	0.00246	0.48%
QC value within limits for Ca 315.887 Recovery = 101.67%								
Cd 214.440†	288.7	0.0046	mg/L	0.00028	0.0046	mg/L	0.00028	5.98%
QC value within limits for Cd 214.440 Recovery = 92.99%								
Co 228.616†	314.2	0.0109	mg/L	0.00046	0.0109	mg/L	0.00046	4.21%
QC value within limits for Co 228.616 Recovery = 108.77%								
Cr 205.560†	218.0	0.0101	mg/L	0.00033	0.0101	mg/L	0.00033	3.26%
QC value within limits for Cr 205.560 Recovery = 100.65%								
Cu 324.752†	3125.2	0.0197	mg/L	0.00073	0.0197	mg/L	0.00073	3.70%
QC value within limits for Cu 324.752 Recovery = 98.62%								
Fe 238.863†	1757.7	0.1090	mg/L	0.00224	0.1090	mg/L	0.00224	2.06%
QC value within limits for Fe 238.863 Recovery = 109.00%								
Mg 279.077†	691.7	0.1124	mg/L	0.00084	0.1124	mg/L	0.00084	0.75%
QC value within limits for Mg 279.077 Recovery = 112.42%								
Mn 257.610†	6029.3	0.0099	mg/L	0.00025	0.0099	mg/L	0.00025	2.53%
QC value within limits for Mn 257.610 Recovery = 99.40%								
Mo 202.031†	55.8	0.00541	mg/L	0.000719	0.00541	mg/L	0.000719	13.28%
QC value within limits for Mo 202.031 Recovery = 108.26%								
Ni 232.003†	183.9	0.0256	mg/L	0.00353	0.0256	mg/L	0.00353	13.79%
QC value within limits for Ni 232.003 Recovery = 127.93%								
Pb 220.353†	11.0	0.00342	mg/L	0.000965	0.00342	mg/L	0.000965	28.21%
QC value within limits for Pb 220.353 Recovery = 68.44%								
Sb 206.836†	24.9	0.0132	mg/L	0.00157	0.0132	mg/L	0.00157	11.92%
QC value within limits for Sb 206.836 Recovery = 66.05%								
Se 196.026†	19.2	0.0195	mg/L	0.00618	0.0195	mg/L	0.00618	31.68%
QC value within limits for Se 196.026 Recovery = 97.50%								

Si 251.611†	137.9	0.1817 mg/L	0.00650	0.1817 mg/L	0.00650	3.58%
QC value within limits for Si 251.611 Recovery = 90.87%						
Sn 189.927†	86.2	0.0213 mg/L	0.00024	0.0213 mg/L	0.00024	1.11%
QC value within limits for Sn 189.927 Recovery = 106.65%						
Tl 190.801†	32.5	0.0248 mg/L	0.00129	0.0248 mg/L	0.00129	5.21%
QC value within limits for Tl 190.801 Recovery = 123.92%						
V 292.402†	922.2	0.0099 mg/L	0.00030	0.0099 mg/L	0.00030	3.04%
QC value within limits for V 292.402 Recovery = 98.71%						
Zn 213.857†	1726.7	0.0299 mg/L	0.00054	0.0299 mg/L	0.00054	1.81%
QC value within limits for Zn 213.857 Recovery = 99.58%						
Ti 334.940†	6886.9	0.0099 mg/L	0.00018	0.0099 mg/L	0.00018	1.81%
QC value within limits for Ti 334.940 Recovery = 98.65%						
B 249.772†	473.4	0.1966 mg/L	0.00490	0.1966 mg/L	0.00490	2.49%
QC value within limits for B 249.772 Recovery = 98.28%						
Na 589.592†	4753.6	0.8423 mg/L	0.01069	0.8423 mg/L	0.01069	1.27%
QC value greater than the upper limit for Na 589.592 Recovery = 168.47%						
K 766.490†	921.0	0.5222 mg/L	0.03363	0.5222 mg/L	0.03363	6.44%
QC value within limits for K 766.490 Recovery = 104.44%						
Li 670.784†	938.8	0.01705 mg/L	0.000448	0.01705 mg/L	0.000448	2.63%
QC value within limits for Li 670.784 Recovery = 113.64%						
Sr 407.771†	7719.6	0.00972 mg/L	0.000072	0.00972 mg/L	0.000072	0.74%
QC value within limits for Sr 407.771 Recovery = 97.22%						

QC Failed. Continue with analysis.

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Method Loaded
Method Name: IT11J28N **Method Last Saved: 10/28/2014 6:29:06 PM**
IEC File: 091614ICP11_IEC.iec **MSF File:**
Method Description:

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Sequence No.: 101 **Autosampler Location: 79**
Sample ID: L729373-01 WG751198 **Date Collected: 10/28/2014 6:34:44 PM**
Analyst: 388 **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol: 45 mL**
Dilution: **Sample Prep Vol: 50 mL**
Wash Time: 90 **Auto Dilution Factor: 1**

Mean Data: L729373-01 WG751198

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	2848003.7	106.7	mg/L	0.75				0.71%
Y 360.073 R	154196.0	11.00	mg/L	0.175				1.59%
Ag 328.068†	145.4	0.00051	mg/L	0.000235	0.00057	mg/L	0.000262	46.23%
Al 308.215†	2.5	-0.0077	mg/L	0.01237	-0.0086	mg/L	0.01375	160.45%
As 188.979†	9.9	0.0098	mg/L	0.00556	0.0109	mg/L	0.00617	56.81%
Ba 233.527†	1455.8	0.0187	mg/L	0.00029	0.0208	mg/L	0.00033	1.56%
Be 313.107†	152.1	0.00009	mg/L	0.000009	0.00010	mg/L	0.000010	10.15%
Ca 315.887†	3635030.8	59.87	mg/L	0.087	66.52	mg/L	0.097	0.15%
Cd 214.440†	-43.2	-0.0008	mg/L	0.00018	-0.0009	mg/L	0.00020	21.82%
Co 228.616†	29.5	0.0008	mg/L	0.00011	0.0009	mg/L	0.00013	14.46%
Cr 205.560†	16.1	0.0004	mg/L	0.00025	0.0005	mg/L	0.00027	59.86%
Cu 324.752†	592.9	0.0030	mg/L	0.00037	0.0034	mg/L	0.00041	12.33%
Fe 238.863†	231.4	0.0131	mg/L	0.00050	0.0146	mg/L	0.00056	3.82%
Mg 279.077†	28868.6	4.693	mg/L	0.0352	5.214	mg/L	0.0391	0.75%
Mn 257.610†	677.9	0.0009	mg/L	0.00009	0.0010	mg/L	0.00010	9.96%
Mo 202.031†	19.5	0.00157	mg/L	0.000517	0.00174	mg/L	0.000575	32.98%
Ni 232.003†	87.7	0.0130	mg/L	0.00061	0.0145	mg/L	0.00068	4.71%
Pb 220.353†	-9.2	-0.00139	mg/L	0.001571	-0.00155	mg/L	0.001745	112.82%
Sb 206.836†	-6.7	-0.0036	mg/L	0.00606	-0.0040	mg/L	0.00673	166.58%
Se 196.026†	4.9	0.0035	mg/L	0.00345	0.0039	mg/L	0.00384	99.52%
Si 251.611†	2937.6	3.868	mg/L	0.0417	4.298	mg/L	0.0464	1.08%
Sn 189.927†	-5.1	-0.0008	mg/L	0.00205	-0.0009	mg/L	0.00228	243.78%
Tl 190.801†	5.4	0.0032	mg/L	0.00253	0.0036	mg/L	0.00282	79.25%
V 292.402†	27.2	0.0002	mg/L	0.00029	0.0002	mg/L	0.00032	134.29%
Zn 213.857†	-293.0	-0.0036	mg/L	0.00022	-0.0040	mg/L	0.00024	6.11%
Ti 334.940†	-337.6	-0.0003	mg/L	0.00001	-0.0003	mg/L	0.00001	3.43%
B 249.772†	24.1	0.0098	mg/L	0.00096	0.0109	mg/L	0.00107	9.79%
Na 589.592†	14750.0	2.607	mg/L	0.0325	2.897	mg/L	0.0361	1.25%
K 766.490†	1658.8	0.9380	mg/L	0.01322	1.042	mg/L	0.0147	1.41%
Li 670.784†	751.0	0.01353	mg/L	0.000584	0.01504	mg/L	0.000649	4.32%
Sr 407.771†	65885.6	0.08209	mg/L	0.000204	0.09121	mg/L	0.000227	0.25%

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Method Loaded
Method Name: IT11J28N **Method Last Saved: 10/28/2014 6:29:06 PM**
IEC File: 091614ICP11_IEC.iec **MSF File:**
Method Description:

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Sequence No.: 102 **Autosampler Location: 80**
Sample ID: L729373-02 WG751198 **Date Collected: 10/28/2014 6:39:46 PM**
Analyst: 388 **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol: 45 mL**
Dilution: **Sample Prep Vol: 50 mL**
Wash Time: 90 **Auto Dilution Factor: 1**

Mean Data: L729373-02 WG751198

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	2792194.7	104.7	mg/L	1.64				1.56%
Y 360.073 R	151148.9	10.78	mg/L	0.151				1.40%
Ag 328.068†	243.9	0.00100	mg/L	0.000414	0.00111	mg/L	0.000460	41.46%
Al 308.215†	4.6	-0.0073	mg/L	0.00823	-0.0081	mg/L	0.00914	112.69%
As 188.979†	4.4	0.0026	mg/L	0.00685	0.0029	mg/L	0.00762	266.45%
Ba 233.527†	2132.7	0.0275	mg/L	0.00048	0.0305	mg/L	0.00053	1.73%
Be 313.107†	-4.0	-0.00001	mg/L	0.000067	-0.00001	mg/L	0.000074	529.25%
Ca 315.887†	4647859.4	76.55	mg/L	0.149	85.06	mg/L	0.166	0.19%
Cd 214.440†	-41.6	-0.0008	mg/L	0.00023	-0.0009	mg/L	0.00025	27.16%
Co 228.616†	29.1	0.0007	mg/L	0.00016	0.0008	mg/L	0.00018	22.64%
Cr 205.560†	9.4	0.0000	mg/L	0.00023	0.0000	mg/L	0.00026	>999.9%
Cu 324.752†	728.6	0.0037	mg/L	0.00027	0.0041	mg/L	0.00030	7.22%
Fe 238.863†	290.1	0.0165	mg/L	0.00166	0.0183	mg/L	0.00184	10.07%
Mg 279.077†	33621.3	5.465	mg/L	0.0898	6.072	mg/L	0.0997	1.64%
Mn 257.610†	142661.0	0.2351	mg/L	0.00415	0.2612	mg/L	0.00461	1.77%
Mo 202.031†	13.4	0.00090	mg/L	0.000426	0.00100	mg/L	0.000473	47.53%
Ni 232.003†	67.8	0.0105	mg/L	0.00202	0.0117	mg/L	0.00224	19.17%
Pb 220.353†	-10.1	-0.00125	mg/L	0.002318	-0.00139	mg/L	0.002576	184.97%
Sb 206.836†	1.5	0.0007	mg/L	0.00112	0.0008	mg/L	0.00124	160.25%
Se 196.026†	6.0	0.0042	mg/L	0.00673	0.0047	mg/L	0.00748	159.96%
Si 251.611†	2267.1	2.984	mg/L	0.0443	3.316	mg/L	0.0492	1.48%
Sn 189.927†	-4.2	-0.0005	mg/L	0.00172	-0.0005	mg/L	0.00191	349.80%
Tl 190.801†	3.2	0.0012	mg/L	0.00646	0.0013	mg/L	0.00718	534.46%
V 292.402†	29.2	0.0002	mg/L	0.00041	0.0002	mg/L	0.00046	190.75%
Zn 213.857†	-306.8	-0.0034	mg/L	0.00032	-0.0038	mg/L	0.00036	9.35%
Ti 334.940†	-460.5	-0.0004	mg/L	0.00018	-0.0005	mg/L	0.00020	43.30%
B 249.772†	49.1	0.0202	mg/L	0.00145	0.0224	mg/L	0.00161	7.17%
Na 589.592†	26400.9	4.670	mg/L	0.0310	5.189	mg/L	0.0345	0.66%
K 766.490†	2032.3	1.149	mg/L	0.0391	1.277	mg/L	0.0435	3.40%
Li 670.784†	901.5	0.01624	mg/L	0.001437	0.01805	mg/L	0.001597	8.85%
Sr 407.771†	126674.6	0.1584	mg/L	0.00041	0.1760	mg/L	0.00045	0.26%

Method Loaded
Method Name: IT11J28N
Method Last Saved: 10/28/2014 6:29:06 PM
IEC File: 091614ICP11_IEC.iec
MSF File:
Method Description:

Sequence No.: 103
Autosampler Location: 81
Sample ID: L729373-03 WG751198
Date Collected: 10/28/2014 6:44:49 PM
Analyst: 388
Data Type: Original
Initial Sample Wt:
Initial Sample Vol: 45 mL
Dilution:
Sample Prep Vol: 50 mL
Wash Time: 90
Auto Dilution Factor: 1

Mean Data: L729373-03 WG751198

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	2765397.5	103.7	mg/L	1.82				1.76%
Y 360.073 R	153125.9	10.92	mg/L	0.198				1.81%
Ag 328.068†	244.7	0.00079	mg/L	0.000404	0.00088	mg/L	0.000449	50.87%
Al 308.215†	8.3	-0.0076	mg/L	0.01513	-0.0085	mg/L	0.01681	198.86%
As 188.979†	10.5	0.0086	mg/L	0.00506	0.0096	mg/L	0.00563	58.59%
Ba 233.527†	25577.4	0.3305	mg/L	0.00697	0.3672	mg/L	0.00774	2.11%
Be 313.107†	-87.2	-0.00007	mg/L	0.000039	-0.00008	mg/L	0.000043	55.92%
Ca 315.887†	6781998.2	111.7	mg/L	0.18	124.1	mg/L	0.20	0.16%
Cd 214.440†	-44.9	-0.0010	mg/L	0.00009	-0.0011	mg/L	0.00010	9.05%
Co 228.616†	102.5	0.0031	mg/L	0.00026	0.0034	mg/L	0.00029	8.55%
Cr 205.560†	1.0	-0.0006	mg/L	0.00013	-0.0006	mg/L	0.00014	22.59%
Cu 324.752†	642.8	0.0027	mg/L	0.00053	0.0030	mg/L	0.00058	19.25%
Fe 238.863†	247.1	0.0131	mg/L	0.00079	0.0145	mg/L	0.00088	6.05%
Mg 279.077†	46964.2	7.633	mg/L	0.1419	8.482	mg/L	0.1576	1.86%
Mn 257.610†	1928676.8	3.181	mg/L	0.0017	3.534	mg/L	0.0019	0.05%
Mo 202.031†	17.0	0.00106	mg/L	0.000591	0.00117	mg/L	0.000657	55.96%
Ni 232.003†	66.0	0.0108	mg/L	0.00138	0.0120	mg/L	0.00154	12.87%
Pb 220.353†	-7.4	0.00044	mg/L	0.000862	0.00049	mg/L	0.000958	195.53%
Sb 206.836†	-3.1	-0.0018	mg/L	0.00425	-0.0020	mg/L	0.00473	240.16%
Se 196.026†	10.1	0.0075	mg/L	0.01119	0.0083	mg/L	0.01243	149.92%
Si 251.611†	2668.2	3.511	mg/L	0.0466	3.902	mg/L	0.0518	1.33%
Sn 189.927†	3.9	0.0018	mg/L	0.00303	0.0020	mg/L	0.00337	170.24%
Tl 190.801†	-18.7	-0.0161	mg/L	0.00169	-0.0179	mg/L	0.00187	10.50%
V 292.402†	-42.2	-0.0006	mg/L	0.00101	-0.0007	mg/L	0.00112	170.64%
Zn 213.857†	-367.8	-0.0036	mg/L	0.00013	-0.0040	mg/L	0.00015	3.66%
Ti 334.940†	-736.1	-0.0007	mg/L	0.00006	-0.0008	mg/L	0.00007	8.57%
B 249.772†	170.0	0.0704	mg/L	0.00131	0.0782	mg/L	0.00146	1.87%
Na 589.592†	50651.2	8.964	mg/L	0.0361	9.960	mg/L	0.0401	0.40%
K 766.490†	4402.0	2.491	mg/L	0.0429	2.768	mg/L	0.0477	1.72%
Li 670.784†	644.5	0.01151	mg/L	0.000978	0.01279	mg/L	0.001086	8.49%
Sr 407.771†	129283.5	0.1612	mg/L	0.00056	0.1791	mg/L	0.00062	0.35%

Method Loaded
Method Name: IT11J28N
Method Last Saved: 10/28/2014 6:29:06 PM
IEC File: 091614ICP11_IEC.iec
MSF File:
Method Description:

Sequence No.: 104
Autosampler Location: 85
Sample ID: L729867-01 WG751198
Date Collected: 10/28/2014 6:49:52 PM
Analyst: 388
Data Type: Original
Initial Sample Wt:
Initial Sample Vol: 45 mL
Dilution:
Sample Prep Vol: 50 mL
Wash Time: 90
Auto Dilution Factor: 1

Mean Data: L729867-01 WG751198

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	2699009.5	101.2	mg/L	0.78				0.77%
Y 360.073 R	151262.1	10.79	mg/L	0.043				0.40%
Ag 328.068†	136.3	0.00010	mg/L	0.000231	0.00011	mg/L	0.000256	225.90%
Al 308.215†	93.3	0.1448	mg/L	0.00362	0.1609	mg/L	0.00402	2.50%
As 188.979†	16.4	0.0154	mg/L	0.00717	0.0171	mg/L	0.00796	46.66%
Ba 233.527†	4791.0	0.0618	mg/L	0.00056	0.0686	mg/L	0.00063	0.91%
Be 313.107†	-45.7	-0.00005	mg/L	0.000011	-0.00005	mg/L	0.000012	23.39%
Ca 315.887†	7289371.5	120.1	mg/L	0.26	133.4	mg/L	0.29	0.22%
Cd 214.440†	-36.6	-0.0009	mg/L	0.00025	-0.0010	mg/L	0.00027	27.99%
Co 228.616†	25.9	0.0004	mg/L	0.00017	0.0005	mg/L	0.00019	41.21%
Cr 205.560†	76.1	0.0028	mg/L	0.00040	0.0032	mg/L	0.00044	14.03%
Cu 324.752†	950.2	0.0046	mg/L	0.00047	0.0051	mg/L	0.00053	10.37%
Fe 238.863†	3811.6	0.2340	mg/L	0.00401	0.2600	mg/L	0.00446	1.71%
Mg 279.077†	62619.7	10.18	mg/L	0.088	11.31	mg/L	0.098	0.87%
Mn 257.610†	65490.1	0.1076	mg/L	0.00093	0.1195	mg/L	0.00104	0.87%
Mo 202.031†	172.6	0.01610	mg/L	0.000960	0.01789	mg/L	0.001067	5.96%
Ni 232.003†	59.5	0.0100	mg/L	0.00068	0.0111	mg/L	0.00075	6.77%
Pb 220.353†	-18.5	-0.00279	mg/L	0.001354	-0.00310	mg/L	0.001505	48.55%
Sb 206.836†	-2.8	-0.0016	mg/L	0.00545	-0.0018	mg/L	0.00605	335.54%
Se 196.026†	18.6	0.0160	mg/L	0.00759	0.0177	mg/L	0.00844	47.58%
Si 251.611†	3606.0	4.747	mg/L	0.0336	5.274	mg/L	0.0373	0.71%
Sn 189.927†	-3.9	-0.0001	mg/L	0.00100	-0.0001	mg/L	0.00111	>999.9%
Tl 190.801†	2.8	0.0003	mg/L	0.00335	0.0003	mg/L	0.00372	>999.9%
V 292.402†	255.8	0.0026	mg/L	0.00081	0.0029	mg/L	0.00090	31.46%
Zn 213.857†	-394.6	-0.0039	mg/L	0.00033	-0.0044	mg/L	0.00037	8.39%
Ti 334.940†	2962.0	0.0046	mg/L	0.00069	0.0051	mg/L	0.00076	15.05%
B 249.772†	812.4	0.3369	mg/L	0.00219	0.3744	mg/L	0.00244	0.65%
Na 589.592†	1498708.8	265.6	mg/L	2.27	295.1	mg/L	2.52	0.86%
K 766.490†	8245.3	4.670	mg/L	0.0207	5.189	mg/L	0.0230	0.44%
Li 670.784†	3028.9	0.05479	mg/L	0.001572	0.06088	mg/L	0.001747	2.87%
Sr 407.771†	363681.8	0.4565	mg/L	0.00481	0.5072	mg/L	0.00535	1.05%

Method Loaded
Method Name: IT11J28N
IEC File: 091614ICP11_IEC.iec
Method Description:

Method Last Saved: 10/28/2014 6:29:06 PM
MSF File:

Sequence No.: 105
Sample ID: L729876-01 WG751198
Analyst: 388
Initial Sample Wt:
Dilution:
Wash Time: 90

Autosampler Location: 86
Date Collected: 10/28/2014 6:54:59 PM
Data Type: Original
Initial Sample Vol: 45 mL
Sample Prep Vol: 50 mL
Auto Dilution Factor: 1

Mean Data: L729876-01 WG751198

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	2695592.8	101.0	mg/L	0.46				0.46%
Y 360.073 R	146198.7	10.43	mg/L	0.078				0.75%
Ag 328.068†	201.1	0.00032	mg/L	0.000368	0.00035	mg/L	0.000409	115.83%
Al 308.215†	10.2	-0.0107	mg/L	0.01297	-0.0119	mg/L	0.01441	121.39%
As 188.979†	12.1	0.0097	mg/L	0.00504	0.0107	mg/L	0.00560	52.16%
Ba 233.527†	22084.6	0.2853	mg/L	0.00276	0.3170	mg/L	0.00307	0.97%
Be 313.107†	-49.3	-0.00006	mg/L	0.000073	-0.00007	mg/L	0.000081	123.08%
Ca 315.887†	8315216.5	137.0	mg/L	0.31	152.2	mg/L	0.34	0.22%
Cd 214.440†	-60.4	-0.0013	mg/L	0.00017	-0.0014	mg/L	0.00018	12.90%
Co 228.616†	16.0	-0.0000	mg/L	0.00029	-0.0000	mg/L	0.00033	>999.9%
Cr 205.560†	13.5	-0.0002	mg/L	0.00014	-0.0002	mg/L	0.00015	82.81%
Cu 324.752†	612.0	0.0021	mg/L	0.00013	0.0023	mg/L	0.00014	6.06%
Fe 238.863†	1572.6	0.0946	mg/L	0.00084	0.1051	mg/L	0.00093	0.88%
Mg 279.077†	155240.6	25.24	mg/L	0.167	28.05	mg/L	0.185	0.66%
Mn 257.610†	1136961.9	1.874	mg/L	0.0035	2.083	mg/L	0.0039	0.19%
Mo 202.031†	101.0	0.00908	mg/L	0.000543	0.01009	mg/L	0.000603	5.98%
Ni 232.003†	45.0	0.0084	mg/L	0.00175	0.0093	mg/L	0.00194	20.84%
Pb 220.353†	-9.1	0.00070	mg/L	0.001331	0.00078	mg/L	0.001479	189.86%
Sb 206.836†	-4.8	-0.0027	mg/L	0.00321	-0.0030	mg/L	0.00357	118.04%
Se 196.026†	14.4	0.0111	mg/L	0.00537	0.0123	mg/L	0.00596	48.30%
Si 251.611†	15483.1	20.39	mg/L	0.114	22.66	mg/L	0.126	0.56%
Sn 189.927†	10.4	0.0034	mg/L	0.00248	0.0037	mg/L	0.00275	73.45%
Tl 190.801†	-12.9	-0.0118	mg/L	0.00088	-0.0131	mg/L	0.00097	7.42%
V 292.402†	80.8	0.0006	mg/L	0.00055	0.0007	mg/L	0.00061	86.75%
Zn 213.857†	-496.9	-0.0054	mg/L	0.00022	-0.0060	mg/L	0.00024	4.04%
Ti 334.940†	-784.2	-0.0012	mg/L	0.00006	-0.0014	mg/L	0.00007	4.84%
B 249.772†	944.4	0.3921	mg/L	0.00393	0.4356	mg/L	0.00437	1.00%
Na 589.592†	1435570.0	254.4	mg/L	0.83	282.7	mg/L	0.93	0.33%
K 766.490†	12856.7	7.284	mg/L	0.0441	8.093	mg/L	0.0490	0.60%
Li 670.784†	9285.7	0.1683	mg/L	0.00069	0.1870	mg/L	0.00076	0.41%
Sr 407.771†	874840.0	1.100	mg/L	0.0025	1.223	mg/L	0.0028	0.23%

Method Loaded
Method Name: IT11J28N
IEC File: 091614ICP11_IEC.iec
Method Description:

Method Last Saved: 10/28/2014 6:29:06 PM
MSF File:

Sequence No.: 106
Sample ID: L729976-01 WG751198
Analyst: 388
Initial Sample Wt:
Dilution:
Wash Time: 90

Autosampler Location: 87
Date Collected: 10/28/2014 7:00:02 PM
Data Type: Original
Initial Sample Vol: 45 mL
Sample Prep Vol: 50 mL
Auto Dilution Factor: 1

Mean Data: L729976-01 WG751198

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	2559884.0	95.95	mg/L	1.039				1.08%
Y 360.073 R	145464.8	10.38	mg/L	0.108				1.04%
Ag 328.068†	116.0	-0.00187	mg/L	0.000473	-0.00208	mg/L	0.000526	25.30%
Al 308.215†	23.3	-0.0352	mg/L	0.01683	-0.0391	mg/L	0.01870	47.81%
As 188.979†	14.2	0.0048	mg/L	0.00756	0.0054	mg/L	0.00840	156.95%
Ba 233.527†	15631.3	0.2016	mg/L	0.00456	0.2240	mg/L	0.00507	2.26%
Be 313.107†	-77.3	-0.00018	mg/L	0.000018	-0.00020	mg/L	0.000021	10.02%
Ca 315.887†	19699958.3	324.5	mg/L	1.38	360.5	mg/L	1.53	0.42%
Cd 214.440†	-70.9	-0.0018	mg/L	0.00023	-0.0020	mg/L	0.00026	12.81%
Co 228.616†	58.8	0.0007	mg/L	0.00011	0.0008	mg/L	0.00012	14.53%
Cr 205.560†	16.9	-0.0013	mg/L	0.00017	-0.0014	mg/L	0.00019	13.11%
Cu 324.752†	675.0	-0.0008	mg/L	0.00016	-0.0009	mg/L	0.00018	19.27%
Fe 238.863†	163.4	0.0016	mg/L	0.00117	0.0017	mg/L	0.00130	74.28%
Mg 279.077†	1002599.1	163.1	mg/L	0.22	181.2	mg/L	0.25	0.14%
Mn 257.610†	80487.6	0.1270	mg/L	0.00180	0.1411	mg/L	0.00200	1.42%
Mo 202.031†	82.6	0.00650	mg/L	0.000640	0.00722	mg/L	0.000711	9.85%
Ni 232.003†	107.0	0.0210	mg/L	0.00241	0.0233	mg/L	0.00268	11.50%
Pb 220.353†	-6.6	0.00748	mg/L	0.002562	0.00831	mg/L	0.002846	34.27%
Sb 206.836†	0.7	-0.0002	mg/L	0.00447	-0.0002	mg/L	0.00497	>999.9%
Se 196.026†	28.6	0.0197	mg/L	0.00658	0.0219	mg/L	0.00731	33.38%
Si 251.611†	4772.2	6.258	mg/L	0.1114	6.953	mg/L	0.1238	1.78%
Sn 189.927†	20.3	0.0057	mg/L	0.00243	0.0063	mg/L	0.00270	42.93%
Tl 190.801†	-2.6	-0.0053	mg/L	0.00185	-0.0058	mg/L	0.00206	35.19%
V 292.402†	103.9	0.0002	mg/L	0.00038	0.0003	mg/L	0.00042	167.20%
Zn 213.857†	-609.3	-0.0037	mg/L	0.00027	-0.0041	mg/L	0.00030	7.45%
Ti 334.940†	-2231.2	-0.0071	mg/L	0.00011	-0.0079	mg/L	0.00012	1.55%
B 249.772†	286.3	0.1181	mg/L	0.00141	0.1312	mg/L	0.00156	1.19%
Na 589.592†	6703096.5	1188	mg/L	25.69	1320	mg/L	28.55	2.16%
K 766.490†	26995.6	15.29	mg/L	0.236	16.99	mg/L	0.263	1.55%
Li 670.784†	5252.9	0.09412	mg/L	0.005292	0.1046	mg/L	0.00588	5.62%
Sr 407.771†	2255652.2	2.838	mg/L	0.0712	3.153	mg/L	0.0791	2.51%

Method Loaded
Method Name: IT11J28N
Method Last Saved: 10/28/2014 6:29:06 PM
IEC File: 091614ICP11_IEC.iec
MSF File:
Method Description:

Sequence No.: 107
Autosampler Location: 88
Sample ID: L729976-02 WG751198
Date Collected: 10/28/2014 7:06:19 PM
Analyst: 388
Data Type: Original
Initial Sample Wt:
Initial Sample Vol: 45 mL
Dilution:
Sample Prep Vol: 50 mL
Wash Time: 150
Auto Dilution Factor: 1

Mean Data: L729976-02 WG751198

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	2765704.1	103.7	mg/L	0.87				0.84%
Y 360.073 R	149195.3	10.64	mg/L	0.221				2.08%
Ag 328.068†	77.4	0.00017	mg/L	0.000469	0.00018	mg/L	0.000521	282.18%
Al 308.215†	8.6	0.0009	mg/L	0.02994	0.0010	mg/L	0.03326	>999.9%
As 188.979†	6.7	0.0056	mg/L	0.00543	0.0062	mg/L	0.00604	96.88%
Ba 233.527†	28775.3	0.3718	mg/L	0.00233	0.4131	mg/L	0.00259	0.63%
Be 313.107†	-50.4	-0.00006	mg/L	0.000020	-0.00007	mg/L	0.000022	33.42%
Ca 315.887†	3565051.1	58.72	mg/L	0.181	65.24	mg/L	0.201	0.31%
Cd 214.440†	-52.6	-0.0014	mg/L	0.00015	-0.0015	mg/L	0.00017	10.82%
Co 228.616†	35.1	0.0010	mg/L	0.00016	0.0011	mg/L	0.00017	16.19%
Cr 205.560†	2.6	-0.0003	mg/L	0.00016	-0.0004	mg/L	0.00017	46.34%
Cu 324.752†	190.4	0.0005	mg/L	0.00009	0.0006	mg/L	0.00011	18.71%
Fe 238.863†	86091.4	5.338	mg/L	0.0437	5.931	mg/L	0.0485	0.82%
Mg 279.077†	247962.0	40.33	mg/L	0.096	44.81	mg/L	0.107	0.24%
Mn 257.610†	706680.1	1.164	mg/L	0.0023	1.294	mg/L	0.0025	0.19%
Mo 202.031†	339.7	0.03287	mg/L	0.000540	0.03653	mg/L	0.000600	1.64%
Ni 232.003†	58.4	0.0097	mg/L	0.00039	0.0107	mg/L	0.00043	4.02%
Pb 220.353†	-7.4	-0.00126	mg/L	0.001933	-0.00140	mg/L	0.002147	153.78%
Sb 206.836†	-0.2	-0.0001	mg/L	0.00356	-0.0001	mg/L	0.00396	>999.9%
Se 196.026†	-1.7	-0.0012	mg/L	0.00485	-0.0013	mg/L	0.00539	420.12%
Si 251.611†	6112.0	8.048	mg/L	0.0929	8.942	mg/L	0.1032	1.15%
Sn 189.927†	10.1	0.0032	mg/L	0.00173	0.0036	mg/L	0.00192	53.54%
Tl 190.801†	-7.7	-0.0061	mg/L	0.00279	-0.0068	mg/L	0.00310	45.78%
V 292.402†	54.1	-0.0000	mg/L	0.00058	-0.0000	mg/L	0.00064	>999.9%
Zn 213.857†	-250.7	-0.0040	mg/L	0.00025	-0.0044	mg/L	0.00028	6.41%
Ti 334.940†	-92.8	-0.0012	mg/L	0.00011	-0.0014	mg/L	0.00012	8.82%
B 249.772†	601.4	0.2383	mg/L	0.00527	0.2648	mg/L	0.00586	2.21%
Na 589.592†	851385.2	150.9	mg/L	0.16	167.6	mg/L	0.18	0.11%
K 766.490†	8064.1	4.570	mg/L	0.0189	5.078	mg/L	0.0210	0.41%
Li 670.784†	1572.0	0.02826	mg/L	0.000570	0.03140	mg/L	0.000634	2.02%
Sr 407.771†	240096.0	0.3017	mg/L	0.00044	0.3352	mg/L	0.00049	0.15%

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Method Loaded
Method Name: IT11J28N **Method Last Saved: 10/28/2014 6:29:06 PM**
IEC File: 091614ICP11_IEC.iec **MSF File:**
Method Description:

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Sequence No.: 108 **Autosampler Location: 89**
Sample ID: L729976-03 WG751198 **Date Collected: 10/28/2014 7:11:20 PM**
Analyst: 388 **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol: 45 mL**
Dilution: **Sample Prep Vol: 50 mL**
Wash Time: 90 **Auto Dilution Factor: 1**

Mean Data: L729976-03 WG751198

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	2791874.9	104.6	mg/L	2.02				1.93%
Y 360.073 R	149334.2	10.65	mg/L	0.027				0.25%
Ag 328.068†	104.8	0.00012	mg/L	0.000583	0.00013	mg/L	0.000648	497.51%
Al 308.215†	9.4	0.0023	mg/L	0.01100	0.0025	mg/L	0.01222	485.88%
As 188.979†	10.0	0.0097	mg/L	0.00409	0.0107	mg/L	0.00454	42.35%
Ba 233.527†	6290.8	0.0812	mg/L	0.00172	0.0902	mg/L	0.00191	2.12%
Be 313.107†	-20.9	-0.00005	mg/L	0.000014	-0.00005	mg/L	0.000016	29.51%
Ca 315.887†	3434645.0	56.57	mg/L	0.108	62.86	mg/L	0.120	0.19%
Cd 214.440†	-86.4	-0.0015	mg/L	0.00030	-0.0017	mg/L	0.00033	19.60%
Co 228.616†	37.7	0.0011	mg/L	0.00026	0.0012	mg/L	0.00029	24.22%
Cr 205.560†	10.8	0.0001	mg/L	0.00034	0.0001	mg/L	0.00038	317.14%
Cu 324.752†	266.2	0.0007	mg/L	0.00056	0.0007	mg/L	0.00063	84.86%
Fe 238.863†	4498.7	0.2773	mg/L	0.00393	0.3081	mg/L	0.00436	1.42%
Mg 279.077†	277498.7	45.13	mg/L	0.080	50.15	mg/L	0.089	0.18%
Mn 257.610†	146142.5	0.2395	mg/L	0.00029	0.2661	mg/L	0.00033	0.12%
Mo 202.031†	300.5	0.02889	mg/L	0.001166	0.03210	mg/L	0.001296	4.04%
Ni 232.003†	74.4	0.0116	mg/L	0.00249	0.0129	mg/L	0.00277	21.48%
Pb 220.353†	-2.5	0.00104	mg/L	0.002610	0.00116	mg/L	0.002900	250.59%
Sb 206.836†	-7.1	-0.0039	mg/L	0.00298	-0.0043	mg/L	0.00331	77.15%
Se 196.026†	8.3	0.0067	mg/L	0.00132	0.0075	mg/L	0.00146	19.58%
Si 251.611†	8290.4	10.92	mg/L	0.292	12.13	mg/L	0.324	2.67%
Sn 189.927†	21.5	0.0053	mg/L	0.00278	0.0058	mg/L	0.00309	52.89%
Tl 190.801†	0.9	0.0003	mg/L	0.00104	0.0004	mg/L	0.00116	304.19%
V 292.402†	71.1	0.0005	mg/L	0.00027	0.0006	mg/L	0.00030	50.46%
Zn 213.857†	-233.6	-0.0030	mg/L	0.00027	-0.0033	mg/L	0.00030	9.10%
Ti 334.940†	-399.5	-0.0018	mg/L	0.00010	-0.0020	mg/L	0.00011	5.37%
B 249.772†	432.7	0.1791	mg/L	0.00665	0.1990	mg/L	0.00739	3.71%
Na 589.592†	168427.0	29.84	mg/L	0.163	33.16	mg/L	0.181	0.54%
K 766.490†	14664.7	8.312	mg/L	0.0091	9.236	mg/L	0.0101	0.11%
Li 670.784†	1490.8	0.02676	mg/L	0.000635	0.02974	mg/L	0.000705	2.37%
Sr 407.771†	387381.4	0.4873	mg/L	0.00093	0.5415	mg/L	0.00104	0.19%

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Method Loaded
Method Name: IT11J28N **Method Last Saved: 10/28/2014 6:29:06 PM**
IEC File: 091614ICP11_IEC.iec **MSF File:**
Method Description:

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Sequence No.: 109 **Autosampler Location: 90**
Sample ID: L729989-01 WG751198 **Date Collected: 10/28/2014 7:16:21 PM**
Analyst: 388 **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol: 45 mL**
Dilution: **Sample Prep Vol: 50 mL**
Wash Time: 90 **Auto Dilution Factor: 1**

Mean Data: L729989-01 WG751198

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	2719778.9	101.9	mg/L	1.06				1.04%
Y 360.073 R	147947.8	10.55	mg/L	0.225				2.13%
Ag 328.068†	18.6	-0.00054	mg/L	0.000307	-0.00060	mg/L	0.000341	56.87%
Al 308.215†	7.0	-0.0063	mg/L	0.01028	-0.0070	mg/L	0.01142	163.21%
As 188.979†	4.7	0.0027	mg/L	0.00563	0.0030	mg/L	0.00625	211.66%
Ba 233.527†	4626.6	0.0597	mg/L	0.00087	0.0663	mg/L	0.00096	1.45%
Be 313.107†	43.6	-0.00001	mg/L	0.000013	-0.00002	mg/L	0.000014	92.67%
Ca 315.887†	4503418.8	74.17	mg/L	0.415	82.42	mg/L	0.462	0.56%
Cd 214.440†	-69.3	-0.0013	mg/L	0.00018	-0.0014	mg/L	0.00020	14.16%
Co 228.616†	10.7	0.0001	mg/L	0.00037	0.0001	mg/L	0.00041	478.16%
Cr 205.560†	6.9	-0.0002	mg/L	0.00068	-0.0002	mg/L	0.00076	382.73%
Cu 324.752†	323.7	0.0007	mg/L	0.00017	0.0008	mg/L	0.00019	23.42%
Fe 238.863†	124.9	0.0056	mg/L	0.00065	0.0062	mg/L	0.00073	11.77%
Mg 279.077†	327196.8	53.22	mg/L	0.629	59.13	mg/L	0.699	1.18%
Mn 257.610†	3825.1	0.0044	mg/L	0.00011	0.0049	mg/L	0.00012	2.45%
Mo 202.031†	254.2	0.02431	mg/L	0.000184	0.02701	mg/L	0.000205	0.76%
Ni 232.003†	58.1	0.0096	mg/L	0.00089	0.0107	mg/L	0.00098	9.18%
Pb 220.353†	-8.3	-0.00022	mg/L	0.000428	-0.00025	mg/L	0.000475	192.40%
Sb 206.836†	-1.7	-0.0010	mg/L	0.00228	-0.0011	mg/L	0.00254	222.54%
Se 196.026†	8.0	0.0059	mg/L	0.00796	0.0065	mg/L	0.00884	135.88%
Si 251.611†	6099.4	8.028	mg/L	0.0630	8.920	mg/L	0.0701	0.79%
Sn 189.927†	13.4	0.0033	mg/L	0.00108	0.0036	mg/L	0.00120	32.89%
Tl 190.801†	-1.8	-0.0019	mg/L	0.00226	-0.0021	mg/L	0.00251	117.77%
V 292.402†	329.7	0.0033	mg/L	0.00039	0.0036	mg/L	0.00043	11.86%
Zn 213.857†	-338.7	-0.0044	mg/L	0.00018	-0.0049	mg/L	0.00020	4.10%
Ti 334.940†	-312.2	-0.0019	mg/L	0.00014	-0.0021	mg/L	0.00015	7.14%
B 249.772†	276.4	0.1147	mg/L	0.00126	0.1274	mg/L	0.00139	1.09%
Na 589.592†	439258.5	77.83	mg/L	0.337	86.48	mg/L	0.375	0.43%
K 766.490†	5211.7	2.952	mg/L	0.0428	3.280	mg/L	0.0476	1.45%
Li 670.784†	2904.5	0.05237	mg/L	0.001486	0.05819	mg/L	0.001651	2.84%
Sr 407.771†	835873.3	1.052	mg/L	0.0045	1.169	mg/L	0.0050	0.42%

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Method Loaded
Method Name: IT11J28N **Method Last Saved: 10/28/2014 6:29:06 PM**
IEC File: 091614ICP11_IEC.iec **MSF File:**
Method Description:

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Sequence No.: 110 **Autosampler Location: 3**
Sample ID: CCV 14J27642 **Date Collected: 10/28/2014 7:21:23 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**
Wash Time: 90 **Auto Dilution Factor: 1**

Mean Data: CCV 14J27642

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Calib. Std.Dev.	Sample Conc.	Sample Units	Sample Std.Dev.	RSD
Y 360.073	2745597.2	102.9	mg/L	2.16				2.10%
Y 360.073 R	143017.6	10.20	mg/L	0.145				1.42%
Ag 328.068†	152022.8	0.9099	mg/L	0.00263	0.9099	mg/L	0.00263	0.29%
QC value within limits for Ag 328.068 Recovery = 90.99%								
Al 308.215†	5104.8	9.248	mg/L	0.2366	9.248	mg/L	0.2366	2.56%
QC value within limits for Al 308.215 Recovery = 92.48%								
As 188.979†	1573.4	1.871	mg/L	0.0566	1.871	mg/L	0.0566	3.02%
QC value within limits for As 188.979 Recovery = 93.55%								
Ba 233.527†	38416.9	0.4960	mg/L	0.01611	0.4960	mg/L	0.01611	3.25%
QC value within limits for Ba 233.527 Recovery = 99.21%								
Be 313.107†	296588.7	0.1871	mg/L	0.00019	0.1871	mg/L	0.00019	0.10%
QC value within limits for Be 313.107 Recovery = 93.57%								
Ca 315.887†	2851311.2	46.97	mg/L	0.068	46.97	mg/L	0.068	0.15%
QC value within limits for Ca 315.887 Recovery = 93.94%								
Cd 214.440†	30264.7	0.4875	mg/L	0.01704	0.4875	mg/L	0.01704	3.50%
QC value within limits for Cd 214.440 Recovery = 97.51%								
Co 228.616†	28598.3	0.9901	mg/L	0.03203	0.9901	mg/L	0.03203	3.23%
QC value within limits for Co 228.616 Recovery = 99.01%								
Cr 205.560†	21394.9	0.9876	mg/L	0.03245	0.9876	mg/L	0.03245	3.29%
QC value within limits for Cr 205.560 Recovery = 98.76%								
Cu 324.752†	286280.3	1.807	mg/L	0.0058	1.807	mg/L	0.0058	0.32%
QC value within limits for Cu 324.752 Recovery = 90.34%								
Fe 238.863†	149607.7	9.278	mg/L	0.0304	9.278	mg/L	0.0304	0.33%
QC value within limits for Fe 238.863 Recovery = 92.78%								
Mg 279.077†	57810.8	9.395	mg/L	0.0079	9.395	mg/L	0.0079	0.08%
QC value within limits for Mg 279.077 Recovery = 93.95%								
Mn 257.610†	577007.7	0.9513	mg/L	0.00104	0.9513	mg/L	0.00104	0.11%
QC value within limits for Mn 257.610 Recovery = 95.13%								
Mo 202.031†	4899.1	0.4750	mg/L	0.01594	0.4750	mg/L	0.01594	3.35%
QC value within limits for Mo 202.031 Recovery = 95.01%								
Ni 232.003†	13890.6	1.933	mg/L	0.0581	1.933	mg/L	0.0581	3.01%
QC value within limits for Ni 232.003 Recovery = 96.66%								
Pb 220.353†	1549.1	0.4810	mg/L	0.01447	0.4810	mg/L	0.01447	3.01%
QC value within limits for Pb 220.353 Recovery = 96.20%								
Sb 206.836†	3531.4	1.869	mg/L	0.0641	1.869	mg/L	0.0641	3.43%
QC value within limits for Sb 206.836 Recovery = 93.46%								
Se 196.026†	1854.5	1.879	mg/L	0.0645	1.879	mg/L	0.0645	3.44%
QC value within limits for Se 196.026 Recovery = 93.94%								
Si 251.611†	1442.3	1.900	mg/L	0.0475	1.900	mg/L	0.0475	2.50%
QC value within limits for Si 251.611 Recovery = 94.98%								
Sn 189.927†	7626.7	1.888	mg/L	0.0629	1.888	mg/L	0.0629	3.33%
QC value within limits for Sn 189.927 Recovery = 94.41%								
Tl 190.801†	2533.7	1.934	mg/L	0.0591	1.934	mg/L	0.0591	3.06%
QC value within limits for Tl 190.801 Recovery = 96.70%								
V 292.402†	87040.4	0.9318	mg/L	0.00118	0.9318	mg/L	0.00118	0.13%
QC value within limits for V 292.402 Recovery = 93.18%								
Zn 213.857†	157120.9	2.719	mg/L	0.0130	2.719	mg/L	0.0130	0.48%
QC value within limits for Zn 213.857 Recovery = 90.62%								
Ti 334.940†	658513.6	0.9433	mg/L	0.00061	0.9433	mg/L	0.00061	0.06%
QC value within limits for Ti 334.940 Recovery = 94.33%								
B 249.772†	4477.8	1.841	mg/L	0.0517	1.841	mg/L	0.0517	2.81%
QC value within limits for B 249.772 Recovery = 92.07%								
Na 589.592†	274671.4	48.67	mg/L	0.165	48.67	mg/L	0.165	0.34%

```
   QC value within limits for Na 589.592  Recovery = 97.34%
K 766.490†            84397.0       47.85 mg/L         0.168       47.85 mg/L         0.168   0.35%
   QC value within limits for K 766.490  Recovery = 95.71%
Li 670.784†           80753.7       1.466 mg/L        0.0040       1.466 mg/L        0.0040   0.28%
   QC value within limits for Li 670.784  Recovery = 97.76%
Sr 407.771†          763676.0      0.9618 mg/L       0.00301      0.9618 mg/L       0.00301   0.31%
   QC value within limits for Sr 407.771  Recovery = 96.18%
All analyte(s) passed QC.
```

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Method Loaded
Method Name: IT11J28N **Method Last Saved: 10/28/2014 6:29:06 PM**
IEC File: 091614ICP11_IEC.iec **MSF File:**
Method Description:

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Sequence No.: 111 **Autosampler Location: 2**
Sample ID: CCB **Date Collected: 10/28/2014 7:26:20 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**
Wash Time: 90 **Auto Dilution Factor: 1**

Mean Data: CCB

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	2833419.9	106.2	mg/L	0.40				0.37%
Y 360.073 R	148714.5	10.61	mg/L	0.154				1.45%
Ag 328.068†	266.5	0.00159	mg/L	0.000556	0.00159	mg/L	0.000556	34.94%
QC value within limits for Ag 328.068 Recovery = Not calculated								
Al 308.215†	-12.0	-0.0217	mg/L	0.02450	-0.0217	mg/L	0.02450	112.74%
QC value within limits for Al 308.215 Recovery = Not calculated								
As 188.979†	2.8	0.0034	mg/L	0.00333	0.0034	mg/L	0.00333	98.80%
QC value within limits for As 188.979 Recovery = Not calculated								
Ba 233.527†	15.8	0.0002	mg/L	0.00004	0.0002	mg/L	0.00004	18.55%
QC value within limits for Ba 233.527 Recovery = Not calculated								
Be 313.107†	14.0	0.00001	mg/L	0.000029	0.00001	mg/L	0.000029	324.06%
QC value within limits for Be 313.107 Recovery = Not calculated								
Ca 315.887†	2438.5	0.04016	mg/L	0.000751	0.04016	mg/L	0.000751	1.87%
QC value within limits for Ca 315.887 Recovery = Not calculated								
Cd 214.440†	-22.2	-0.0004	mg/L	0.00010	-0.0004	mg/L	0.00010	28.44%
QC value within limits for Cd 214.440 Recovery = Not calculated								
Co 228.616†	16.7	0.0006	mg/L	0.00017	0.0006	mg/L	0.00017	28.89%
QC value within limits for Co 228.616 Recovery = Not calculated								
Cr 205.560†	4.8	0.0002	mg/L	0.00022	0.0002	mg/L	0.00022	97.42%
QC value within limits for Cr 205.560 Recovery = Not calculated								
Cu 324.752†	1107.7	0.0070	mg/L	0.00051	0.0070	mg/L	0.00051	7.30%
QC value within limits for Cu 324.752 Recovery = Not calculated								
Fe 238.863†	57.6	0.0036	mg/L	0.00084	0.0036	mg/L	0.00084	23.47%
QC value within limits for Fe 238.863 Recovery = Not calculated								
Mg 279.077†	47.6	0.0077	mg/L	0.00078	0.0077	mg/L	0.00078	10.07%
QC value within limits for Mg 279.077 Recovery = Not calculated								
Mn 257.610†	171.3	0.0003	mg/L	0.00003	0.0003	mg/L	0.00003	12.13%
QC value within limits for Mn 257.610 Recovery = Not calculated								
Mo 202.031†	0.7	0.00007	mg/L	0.000317	0.00007	mg/L	0.000317	472.68%
QC value within limits for Mo 202.031 Recovery = Not calculated								
Ni 232.003†	43.6	0.0061	mg/L	0.00172	0.0061	mg/L	0.00172	28.40%
QC value within limits for Ni 232.003 Recovery = Not calculated								
Pb 220.353†	-11.9	-0.00369	mg/L	0.002862	-0.00369	mg/L	0.002862	77.50%
QC value within limits for Pb 220.353 Recovery = Not calculated								
Sb 206.836†	-1.1	-0.0006	mg/L	0.00290	-0.0006	mg/L	0.00290	490.97%
QC value within limits for Sb 206.836 Recovery = Not calculated								
Se 196.026†	2.1	0.0021	mg/L	0.00367	0.0021	mg/L	0.00367	175.19%
QC value within limits for Se 196.026 Recovery = Not calculated								
Si 251.611†	6.1	0.0081	mg/L	0.00884	0.0081	mg/L	0.00884	109.73%
QC value within limits for Si 251.611 Recovery = Not calculated								
Sn 189.927†	6.0	0.0015	mg/L	0.00036	0.0015	mg/L	0.00036	24.16%
QC value within limits for Sn 189.927 Recovery = Not calculated								
Tl 190.801†	1.3	0.0010	mg/L	0.00197	0.0010	mg/L	0.00197	193.51%
QC value within limits for Tl 190.801 Recovery = Not calculated								
V 292.402†	-12.0	-0.0001	mg/L	0.00041	-0.0001	mg/L	0.00041	318.04%
QC value within limits for V 292.402 Recovery = Not calculated								
Zn 213.857†	82.3	0.0014	mg/L	0.00027	0.0014	mg/L	0.00027	18.77%
QC value within limits for Zn 213.857 Recovery = Not calculated								
Ti 334.940†	208.2	0.0003	mg/L	0.00008	0.0003	mg/L	0.00008	27.83%
QC value within limits for Ti 334.940 Recovery = Not calculated								
B 249.772†	58.5	0.0243	mg/L	0.00387	0.0243	mg/L	0.00387	15.91%
QC value within limits for B 249.772 Recovery = Not calculated								
Na 589.592†	2020.8	0.3581	mg/L	0.01374	0.3581	mg/L	0.01374	3.84%

```
   QC value within limits for Na 589.592  Recovery = Not calculated
K 766.490†              142.1      0.0806 mg/L       0.02541      0.0806 mg/L       0.02541  31.54%
   QC value within limits for K 766.490  Recovery = Not calculated
Li 670.784†              98.9     0.00180 mg/L      0.001096     0.00180 mg/L      0.001096  61.02%
   QC value within limits for Li 670.784  Recovery = Not calculated
Sr 407.771†             292.0     0.00037 mg/L      0.000031     0.00037 mg/L      0.000031   8.37%
   QC value within limits for Sr 407.771  Recovery = Not calculated
All analyte(s) passed QC.
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Method Loaded
Method Name: IT11J28N **Method Last Saved: 10/28/2014 6:29:06 PM**
IEC File: 091614ICP11_IEC.iec **MSF File:**
Method Description:

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Sequence No.: 112 **Autosampler Location: 91**
Sample ID: L729989-02 WG751198 **Date Collected: 10/28/2014 7:31:20 PM**
Analyst: 388 **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol: 45 mL**
Dilution: **Sample Prep Vol: 50 mL**
Wash Time: 90 **Auto Dilution Factor: 1**

Mean Data: L729989-02 WG751198

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	2755279.6	103.3	mg/L	1.96				1.90%
Y 360.073 R	148561.0	10.60	mg/L	0.106				1.00%
Ag 328.068†	187.6	0.00049	mg/L	0.001118	0.00054	mg/L	0.001242	229.53%
Al 308.215†	-8.2	-0.0338	mg/L	0.00455	-0.0376	mg/L	0.00505	13.44%
As 188.979†	6.0	0.0042	mg/L	0.00031	0.0047	mg/L	0.00034	7.29%
Ba 233.527†	7206.5	0.0930	mg/L	0.00144	0.1034	mg/L	0.00160	1.54%
Be 313.107†	-69.0	-0.00008	mg/L	0.000011	-0.00009	mg/L	0.000012	13.19%
Ca 315.887†	4592541.4	75.64	mg/L	0.195	84.05	mg/L	0.216	0.26%
Cd 214.440†	-61.3	-0.0011	mg/L	0.00009	-0.0013	mg/L	0.00010	8.24%
Co 228.616†	37.6	0.0010	mg/L	0.00042	0.0011	mg/L	0.00047	42.27%
Cr 205.560†	9.0	-0.0001	mg/L	0.00022	-0.0001	mg/L	0.00024	270.94%
Cu 324.752†	1317.8	0.0070	mg/L	0.00034	0.0078	mg/L	0.00038	4.82%
Fe 238.863†	256.1	0.0137	mg/L	0.00092	0.0153	mg/L	0.00103	6.72%
Mg 279.077†	299372.5	48.69	mg/L	0.944	54.10	mg/L	1.049	1.94%
Mn 257.610†	130169.2	0.2130	mg/L	0.00390	0.2367	mg/L	0.00433	1.83%
Mo 202.031†	472.5	0.04544	mg/L	0.000807	0.05049	mg/L	0.000897	1.78%
Ni 232.003†	66.2	0.0107	mg/L	0.00514	0.0119	mg/L	0.00571	47.85%
Pb 220.353†	-9.0	-0.00044	mg/L	0.002538	-0.00049	mg/L	0.002820	572.07%
Sb 206.836†	-2.5	-0.0015	mg/L	0.00370	-0.0016	mg/L	0.00411	254.04%
Se 196.026†	7.3	0.0052	mg/L	0.00375	0.0057	mg/L	0.00417	72.69%
Si 251.611†	5878.3	7.737	mg/L	0.1889	8.597	mg/L	0.2099	2.44%
Sn 189.927†	19.1	0.0048	mg/L	0.00200	0.0053	mg/L	0.00223	42.11%
Tl 190.801†	-0.2	-0.0008	mg/L	0.00400	-0.0009	mg/L	0.00444	507.77%
V 292.402†	558.6	0.0057	mg/L	0.00060	0.0064	mg/L	0.00067	10.48%
Zn 213.857†	-350.1	-0.0045	mg/L	0.00011	-0.0050	mg/L	0.00013	2.52%
Ti 334.940†	-560.6	-0.0021	mg/L	0.00002	-0.0023	mg/L	0.00002	0.90%
B 249.772†	417.5	0.1733	mg/L	0.00514	0.1926	mg/L	0.00571	2.97%
Na 589.592†	805070.7	142.7	mg/L	0.19	158.5	mg/L	0.21	0.13%
K 766.490†	5794.0	3.282	mg/L	0.0150	3.646	mg/L	0.0166	0.46%
Li 670.784†	2722.5	0.04909	mg/L	0.000915	0.05454	mg/L	0.001017	1.86%
Sr 407.771†	837529.7	1.054	mg/L	0.0002	1.172	mg/L	0.0002	0.02%

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Method Loaded
Method Name: IT11J28N **Method Last Saved: 10/28/2014 6:29:06 PM**
IEC File: 091614ICP11_IEC.iec **MSF File:**
Method Description:

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Sequence No.: 113 **Autosampler Location: 92**
Sample ID: L729989-03 WG751198 **Date Collected: 10/28/2014 7:36:23 PM**
Analyst: 388 **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol: 45 mL**
Dilution: **Sample Prep Vol: 50 mL**
Wash Time: 90 **Auto Dilution Factor: 1**

Mean Data: L729989-03 WG751198

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	2743776.8	102.8	mg/L	1.50				1.46%
Y 360.073 R	149244.3	10.65	mg/L	0.077				0.72%
Ag 328.068†	35.0	-0.00047	mg/L	0.000888	-0.00052	mg/L	0.000987	188.46%
Al 308.215†	2.1	-0.0163	mg/L	0.00798	-0.0182	mg/L	0.00887	48.83%
As 188.979†	7.7	0.0061	mg/L	0.00770	0.0067	mg/L	0.00855	126.95%
Ba 233.527†	3905.0	0.0504	mg/L	0.00098	0.0560	mg/L	0.00109	1.95%
Be 313.107†	-45.4	-0.00007	mg/L	0.000039	-0.00008	mg/L	0.000043	54.59%
Ca 315.887†	4806983.5	79.17	mg/L	0.321	87.97	mg/L	0.356	0.40%
Cd 214.440†	-73.8	-0.0013	mg/L	0.00033	-0.0015	mg/L	0.00036	24.27%
Co 228.616†	13.8	0.0002	mg/L	0.00030	0.0002	mg/L	0.00034	181.84%
Cr 205.560†	17.2	0.0003	mg/L	0.00032	0.0003	mg/L	0.00036	119.12%
Cu 324.752†	948.9	0.0046	mg/L	0.00030	0.0051	mg/L	0.00034	6.54%
Fe 238.863†	167.6	0.0081	mg/L	0.00073	0.0090	mg/L	0.00081	9.04%
Mg 279.077†	334771.8	54.45	mg/L	0.745	60.50	mg/L	0.828	1.37%
Mn 257.610†	1072.8	-0.0001	mg/L	0.00003	-0.0002	mg/L	0.00004	24.73%
Mo 202.031†	248.8	0.02376	mg/L	0.000674	0.02640	mg/L	0.000749	2.84%
Ni 232.003†	67.3	0.0110	mg/L	0.00241	0.0122	mg/L	0.00268	21.87%
Pb 220.353†	-7.5	0.00017	mg/L	0.002498	0.00019	mg/L	0.002776	>999.9%
Sb 206.836†	2.6	0.0012	mg/L	0.00177	0.0014	mg/L	0.00196	142.53%
Se 196.026†	17.6	0.0154	mg/L	0.00901	0.0172	mg/L	0.01001	58.36%
Si 251.611†	6275.9	8.260	mg/L	0.2030	9.178	mg/L	0.2256	2.46%
Sn 189.927†	13.3	0.0033	mg/L	0.00024	0.0036	mg/L	0.00027	7.43%
Tl 190.801†	0.5	-0.0002	mg/L	0.00057	-0.0002	mg/L	0.00063	273.34%
V 292.402†	533.2	0.0054	mg/L	0.00056	0.0060	mg/L	0.00062	10.23%
Zn 213.857†	-390.1	-0.0052	mg/L	0.00029	-0.0058	mg/L	0.00032	5.60%
Ti 334.940†	-300.8	-0.0019	mg/L	0.00016	-0.0021	mg/L	0.00018	8.49%
B 249.772†	244.3	0.1013	mg/L	0.00352	0.1126	mg/L	0.00391	3.47%
Na 589.592†	409975.0	72.64	mg/L	0.121	80.72	mg/L	0.135	0.17%
K 766.490†	5242.3	2.969	mg/L	0.0276	3.299	mg/L	0.0307	0.93%
Li 670.784†	2671.9	0.04814	mg/L	0.001189	0.05348	mg/L	0.001321	2.47%
Sr 407.771†	853724.5	1.075	mg/L	0.0013	1.194	mg/L	0.0015	0.12%

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Method Loaded
Method Name: IT11J28N **Method Last Saved: 10/28/2014 6:29:06 PM**
IEC File: 091614ICP11_IEC.iec **MSF File:**
Method Description:

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Sequence No.: 114 **Autosampler Location: 3**
Sample ID: CCV 14J27642 **Date Collected: 10/28/2014 7:41:25 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**
Wash Time: 90 **Auto Dilution Factor: 1**

Mean Data: CCV 14J27642

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	2732290.7	102.4	mg/L	1.05				1.02%
Y 360.073 R	144521.7	10.31	mg/L	0.088				0.85%
Ag 328.068†	153304.5	0.9175	mg/L	0.00184	0.9175	mg/L	0.00184	0.20%
QC value within limits for Ag 328.068 Recovery = 91.75%								
Al 308.215†	5194.2	9.410	mg/L	0.1705	9.410	mg/L	0.1705	1.81%
QC value within limits for Al 308.215 Recovery = 94.10%								
As 188.979†	1623.7	1.931	mg/L	0.0299	1.931	mg/L	0.0299	1.55%
QC value within limits for As 188.979 Recovery = 96.53%								
Ba 233.527†	39213.2	0.5063	mg/L	0.00481	0.5063	mg/L	0.00481	0.95%
QC value within limits for Ba 233.527 Recovery = 101.26%								
Be 313.107†	300230.6	0.1894	mg/L	0.00046	0.1894	mg/L	0.00046	0.25%
QC value within limits for Be 313.107 Recovery = 94.71%								
Ca 315.887†	2893446.6	47.66	mg/L	0.185	47.66	mg/L	0.185	0.39%
QC value within limits for Ca 315.887 Recovery = 95.32%								
Cd 214.440†	31259.2	0.5036	mg/L	0.00438	0.5036	mg/L	0.00438	0.87%
QC value within limits for Cd 214.440 Recovery = 100.71%								
Co 228.616†	29302.2	1.014	mg/L	0.0096	1.014	mg/L	0.0096	0.95%
QC value within limits for Co 228.616 Recovery = 101.45%								
Cr 205.560†	21812.3	1.007	mg/L	0.0089	1.007	mg/L	0.0089	0.88%
QC value within limits for Cr 205.560 Recovery = 100.69%								
Cu 324.752†	288808.9	1.823	mg/L	0.0043	1.823	mg/L	0.0043	0.24%
QC value within limits for Cu 324.752 Recovery = 91.14%								
Fe 238.863†	151325.5	9.385	mg/L	0.0465	9.385	mg/L	0.0465	0.50%
QC value within limits for Fe 238.863 Recovery = 93.85%								
Mg 279.077†	58787.2	9.554	mg/L	0.0275	9.554	mg/L	0.0275	0.29%
QC value within limits for Mg 279.077 Recovery = 95.54%								
Mn 257.610†	583889.0	0.9627	mg/L	0.00252	0.9627	mg/L	0.00252	0.26%
QC value within limits for Mn 257.610 Recovery = 96.27%								
Mo 202.031†	4985.9	0.4835	mg/L	0.00406	0.4835	mg/L	0.00406	0.84%
QC value within limits for Mo 202.031 Recovery = 96.69%								
Ni 232.003†	14213.5	1.978	mg/L	0.0188	1.978	mg/L	0.0188	0.95%
QC value within limits for Ni 232.003 Recovery = 98.91%								
Pb 220.353†	1594.9	0.4952	mg/L	0.00549	0.4952	mg/L	0.00549	1.11%
QC value within limits for Pb 220.353 Recovery = 99.04%								
Sb 206.836†	3615.4	1.914	mg/L	0.0165	1.914	mg/L	0.0165	0.86%
QC value within limits for Sb 206.836 Recovery = 95.68%								
Se 196.026†	1914.6	1.940	mg/L	0.0244	1.940	mg/L	0.0244	1.26%
QC value within limits for Se 196.026 Recovery = 96.98%								
Si 251.611†	1469.1	1.935	mg/L	0.0463	1.935	mg/L	0.0463	2.39%
QC value within limits for Si 251.611 Recovery = 96.75%								
Sn 189.927†	7830.4	1.939	mg/L	0.0180	1.939	mg/L	0.0180	0.93%
QC value within limits for Sn 189.927 Recovery = 96.93%								
Tl 190.801†	2585.6	1.974	mg/L	0.0156	1.974	mg/L	0.0156	0.79%
QC value within limits for Tl 190.801 Recovery = 98.68%								
V 292.402†	87803.8	0.9399	mg/L	0.00148	0.9399	mg/L	0.00148	0.16%
QC value within limits for V 292.402 Recovery = 93.99%								
Zn 213.857†	159434.0	2.759	mg/L	0.0151	2.759	mg/L	0.0151	0.55%
QC value within limits for Zn 213.857 Recovery = 91.95%								
Ti 334.940†	664898.7	0.9525	mg/L	0.00215	0.9525	mg/L	0.00215	0.23%
QC value within limits for Ti 334.940 Recovery = 95.25%								
B 249.772†	4544.5	1.869	mg/L	0.0328	1.869	mg/L	0.0328	1.76%
QC value within limits for B 249.772 Recovery = 93.45%								
Na 589.592†	272030.0	48.20	mg/L	0.050	48.20	mg/L	0.050	0.10%

```
   QC value within limits for Na 589.592  Recovery = 96.40%
K 766.490†            83902.4       47.57 mg/L         0.060       47.57 mg/L         0.060   0.13%
   QC value within limits for K 766.490  Recovery = 95.14%
Li 670.784†           79878.3       1.450 mg/L        0.0034       1.450 mg/L        0.0034   0.23%
   QC value within limits for Li 670.784  Recovery = 96.70%
Sr 407.771†          757776.7      0.9543 mg/L       0.00109      0.9543 mg/L       0.00109   0.11%
   QC value within limits for Sr 407.771  Recovery = 95.43%
All analyte(s) passed QC.
```

Method Loaded
Method Name: IT11J28N **Method Last Saved: 10/28/2014 6:29:06 PM**
IEC File: 091614ICP11_IEC.iec **MSF File:**
Method Description:

Sequence No.: 115 **Autosampler Location: 2**
Sample ID: CCB **Date Collected: 10/28/2014 7:46:21 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**
Wash Time: 90 **Auto Dilution Factor: 1**

Mean Data: CCB

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	2824287.4	105.9	mg/L	1.00				0.94%
Y 360.073 R	150973.2	10.77	mg/L	0.171				1.59%
Ag 328.068†	262.9	0.00157	mg/L	0.000640	0.00157	mg/L	0.000640	40.76%
QC value within limits for Ag 328.068 Recovery = Not calculated								
Al 308.215†	-5.0	-0.0091	mg/L	0.00490	-0.0091	mg/L	0.00490	54.09%
QC value within limits for Al 308.215 Recovery = Not calculated								
As 188.979†	7.3	0.0087	mg/L	0.00862	0.0087	mg/L	0.00862	98.97%
QC value within limits for As 188.979 Recovery = Not calculated								
Ba 233.527†	15.9	0.0002	mg/L	0.00010	0.0002	mg/L	0.00010	47.12%
QC value within limits for Ba 233.527 Recovery = Not calculated								
Be 313.107†	39.7	0.00003	mg/L	0.000033	0.00003	mg/L	0.000033	132.96%
QC value within limits for Be 313.107 Recovery = Not calculated								
Ca 315.887†	2008.5	0.03308	mg/L	0.004279	0.03308	mg/L	0.004279	12.94%
QC value within limits for Ca 315.887 Recovery = Not calculated								
Cd 214.440†	-19.0	-0.0003	mg/L	0.00009	-0.0003	mg/L	0.00009	27.84%
QC value within limits for Cd 214.440 Recovery = Not calculated								
Co 228.616†	21.3	0.0007	mg/L	0.00022	0.0007	mg/L	0.00022	30.11%
QC value within limits for Co 228.616 Recovery = Not calculated								
Cr 205.560†	4.3	0.0002	mg/L	0.00012	0.0002	mg/L	0.00012	61.83%
QC value within limits for Cr 205.560 Recovery = Not calculated								
Cu 324.752†	1328.4	0.0084	mg/L	0.00067	0.0084	mg/L	0.00067	7.98%
QC value within limits for Cu 324.752 Recovery = Not calculated								
Fe 238.863†	65.0	0.0040	mg/L	0.00092	0.0040	mg/L	0.00092	22.86%
QC value within limits for Fe 238.863 Recovery = Not calculated								
Mg 279.077†	54.4	0.0088	mg/L	0.00183	0.0088	mg/L	0.00183	20.73%
QC value within limits for Mg 279.077 Recovery = Not calculated								
Mn 257.610†	200.9	0.0003	mg/L	0.00009	0.0003	mg/L	0.00009	27.27%
QC value within limits for Mn 257.610 Recovery = Not calculated								
Mo 202.031†	1.7	0.00017	mg/L	0.000445	0.00017	mg/L	0.000445	267.66%
QC value within limits for Mo 202.031 Recovery = Not calculated								
Ni 232.003†	36.0	0.0050	mg/L	0.00085	0.0050	mg/L	0.00085	16.97%
QC value within limits for Ni 232.003 Recovery = Not calculated								
Pb 220.353†	-8.8	-0.00272	mg/L	0.001585	-0.00272	mg/L	0.001585	58.28%
QC value within limits for Pb 220.353 Recovery = Not calculated								
Sb 206.836†	-2.9	-0.0015	mg/L	0.00143	-0.0015	mg/L	0.00143	94.56%
QC value within limits for Sb 206.836 Recovery = Not calculated								
Se 196.026†	6.6	0.0066	mg/L	0.00270	0.0066	mg/L	0.00270	40.63%
QC value within limits for Se 196.026 Recovery = Not calculated								
Si 251.611†	4.9	0.0064	mg/L	0.00335	0.0064	mg/L	0.00335	51.97%
QC value within limits for Si 251.611 Recovery = Not calculated								
Sn 189.927†	3.6	0.0009	mg/L	0.00087	0.0009	mg/L	0.00087	96.84%
QC value within limits for Sn 189.927 Recovery = Not calculated								
Tl 190.801†	1.7	0.0013	mg/L	0.00380	0.0013	mg/L	0.00380	296.74%
QC value within limits for Tl 190.801 Recovery = Not calculated								
V 292.402†	19.7	0.0002	mg/L	0.00081	0.0002	mg/L	0.00081	382.33%
QC value within limits for V 292.402 Recovery = Not calculated								
Zn 213.857†	111.2	0.0019	mg/L	0.00031	0.0019	mg/L	0.00031	15.99%
QC value within limits for Zn 213.857 Recovery = Not calculated								
Ti 334.940†	243.9	0.0003	mg/L	0.00008	0.0003	mg/L	0.00008	21.98%
QC value within limits for Ti 334.940 Recovery = Not calculated								
B 249.772†	58.2	0.0242	mg/L	0.00270	0.0242	mg/L	0.00270	11.14%
QC value within limits for B 249.772 Recovery = Not calculated								
Na 589.592†	1543.4	0.2735	mg/L	0.01465	0.2735	mg/L	0.01465	5.36%

```
   QC value within limits for Na 589.592  Recovery = Not calculated
K 766.490†                69.8      0.0396 mg/L       0.00880      0.0396 mg/L       0.00880  22.25%
   QC value within limits for K 766.490  Recovery = Not calculated
Li 670.784†               95.8     0.00174 mg/L      0.000290     0.00174 mg/L      0.000290  16.67%
   QC value within limits for Li 670.784  Recovery = Not calculated
Sr 407.771†              275.1     0.00035 mg/L      0.000017     0.00035 mg/L      0.000017   5.05%
   QC value within limits for Sr 407.771  Recovery = Not calculated
All analyte(s) passed QC.
```

Method Loaded
Method Name: IT11J28N **Method Last Saved: 10/28/2014 6:29:06 PM**
IEC File: 091614ICP11_IEC.iec **MSF File:**
Method Description:

Sequence No.: 116 **Autosampler Location: 1**
Sample ID: CCVLL 14J27641 **Date Collected: 10/28/2014 7:51:22 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**
Wash Time: 90 **Auto Dilution Factor: 1**

Mean Data: CCVLL 14J27641

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 360.073	2865200.3	107.4	mg/L	0.74				0.68%
Y 360.073 R	151822.5	10.83	mg/L	0.070				0.65%
Ag 328.068†	1702.9	0.01019	mg/L	0.000206	0.01019	mg/L	0.000206	2.02%
QC value within limits for Ag 328.068 Recovery = 101.89%								
Al 308.215†	38.3	0.0694	mg/L	0.01072	0.0694	mg/L	0.01072	15.45%
QC value within limits for Al 308.215 Recovery = 69.39%								
As 188.979†	20.6	0.0245	mg/L	0.00478	0.0245	mg/L	0.00478	19.53%
QC value within limits for As 188.979 Recovery = 122.51%								
Ba 233.527†	398.9	0.0052	mg/L	0.00010	0.0052	mg/L	0.00010	2.00%
QC value within limits for Ba 233.527 Recovery = 103.01%								
Be 313.107†	2816.4	0.00178	mg/L	0.000037	0.00178	mg/L	0.000037	2.07%
QC value within limits for Be 313.107 Recovery = 88.85%								
Ca 315.887†	28944.9	0.4768	mg/L	0.00640	0.4768	mg/L	0.00640	1.34%
QC value within limits for Ca 315.887 Recovery = 95.36%								
Cd 214.440†	271.3	0.0044	mg/L	0.00009	0.0044	mg/L	0.00009	2.09%
QC value within limits for Cd 214.440 Recovery = 87.36%								
Co 228.616†	307.7	0.0107	mg/L	0.00052	0.0107	mg/L	0.00052	4.84%
QC value within limits for Co 228.616 Recovery = 106.53%								
Cr 205.560†	210.7	0.0097	mg/L	0.00011	0.0097	mg/L	0.00011	1.12%
QC value within limits for Cr 205.560 Recovery = 97.27%								
Cu 324.752†	3332.7	0.0210	mg/L	0.00081	0.0210	mg/L	0.00081	3.86%
QC value within limits for Cu 324.752 Recovery = 105.17%								
Fe 238.863†	1627.8	0.1010	mg/L	0.00241	0.1010	mg/L	0.00241	2.39%
QC value within limits for Fe 238.863 Recovery = 100.95%								
Mg 279.077†	665.4	0.1082	mg/L	0.00044	0.1082	mg/L	0.00044	0.41%
QC value within limits for Mg 279.077 Recovery = 108.15%								
Mn 257.610†	5704.6	0.0094	mg/L	0.00011	0.0094	mg/L	0.00011	1.20%
QC value within limits for Mn 257.610 Recovery = 94.05%								
Mo 202.031†	49.3	0.00479	mg/L	0.000652	0.00479	mg/L	0.000652	13.63%
QC value within limits for Mo 202.031 Recovery = 95.71%								
Ni 232.003†	171.2	0.0238	mg/L	0.00115	0.0238	mg/L	0.00115	4.85%
QC value within limits for Ni 232.003 Recovery = 119.09%								
Pb 220.353†	6.4	0.00198	mg/L	0.000279	0.00198	mg/L	0.000279	14.09%
QC value less than the lower limit for Pb 220.353 Recovery = 39.58%								
Sb 206.836†	26.0	0.0138	mg/L	0.00092	0.0138	mg/L	0.00092	6.71%
QC value within limits for Sb 206.836 Recovery = 68.93%								
Se 196.026†	11.3	0.0114	mg/L	0.00698	0.0114	mg/L	0.00698	61.03%
QC value within limits for Se 196.026 Recovery = 57.21%								
Si 251.611†	134.9	0.1777	mg/L	0.00532	0.1777	mg/L	0.00532	2.99%
QC value within limits for Si 251.611 Recovery = 88.87%								
Sn 189.927†	75.8	0.0188	mg/L	0.00188	0.0188	mg/L	0.00188	10.03%
QC value within limits for Sn 189.927 Recovery = 93.86%								
Tl 190.801†	25.8	0.0197	mg/L	0.00103	0.0197	mg/L	0.00103	5.23%
QC value within limits for Tl 190.801 Recovery = 98.36%								
V 292.402†	815.5	0.0087	mg/L	0.00048	0.0087	mg/L	0.00048	5.45%
QC value within limits for V 292.402 Recovery = 87.28%								
Zn 213.857†	1672.8	0.0289	mg/L	0.00054	0.0289	mg/L	0.00054	1.87%
QC value within limits for Zn 213.857 Recovery = 96.48%								
Ti 334.940†	6619.4	0.0095	mg/L	0.00015	0.0095	mg/L	0.00015	1.58%
QC value within limits for Ti 334.940 Recovery = 94.82%								
B 249.772†	457.6	0.1900	mg/L	0.00402	0.1900	mg/L	0.00402	2.11%
QC value within limits for B 249.772 Recovery = 95.01%								
Na 589.592†	3570.6	0.6327	mg/L	0.00525	0.6327	mg/L	0.00525	0.83%

```
   QC value within limits for Na 589.592  Recovery = 126.54%
K 766.490†              898.9      0.5097 mg/L       0.03070      0.5097 mg/L       0.03070   6.02%
   QC value within limits for K 766.490  Recovery = 101.93%
Li 670.784†             927.5     0.01684 mg/L      0.002082     0.01684 mg/L      0.002082  12.36%
   QC value within limits for Li 670.784  Recovery = 112.28%
Sr 407.771†            7398.2     0.00932 mg/L      0.000044     0.00932 mg/L      0.000044   0.47%
   QC value within limits for Sr 407.771  Recovery = 93.17%
QC Failed.  Retry.
```

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Sequence No.: 117 **Autosampler Location: 1**
Sample ID: CCVLL 14J27641 **Date Collected: 10/28/2014 7:54:49 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**
Wash Time: 90 **Auto Dilution Factor: 1**

Mean Data: CCVLL 14J27641

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	2860730.5	107.2	mg/L	1.59				1.48%
Y 360.073 R	150790.1	10.76	mg/L	0.068				0.64%
Ag 328.068†	1714.9	0.01026	mg/L	0.000760	0.01026	mg/L	0.000760	7.40%
QC value within limits for Ag 328.068 Recovery = 102.61%								
Al 308.215†	43.4	0.0785	mg/L	0.01275	0.0785	mg/L	0.01275	16.24%
QC value within limits for Al 308.215 Recovery = 78.51%								
As 188.979†	22.6	0.0269	mg/L	0.00463	0.0269	mg/L	0.00463	17.21%
QC value within limits for As 188.979 Recovery = 134.44%								
Ba 233.527†	390.6	0.0050	mg/L	0.00014	0.0050	mg/L	0.00014	2.82%
QC value within limits for Ba 233.527 Recovery = 100.87%								
Be 313.107†	2827.3	0.00178	mg/L	0.000049	0.00178	mg/L	0.000049	2.74%
QC value within limits for Be 313.107 Recovery = 89.19%								
Ca 315.887†	29074.9	0.4789	mg/L	0.00452	0.4789	mg/L	0.00452	0.94%
QC value within limits for Ca 315.887 Recovery = 95.79%								
Cd 214.440†	267.1	0.0043	mg/L	0.00025	0.0043	mg/L	0.00025	5.73%
QC value within limits for Cd 214.440 Recovery = 86.03%								
Co 228.616†	300.5	0.0104	mg/L	0.00020	0.0104	mg/L	0.00020	1.89%
QC value within limits for Co 228.616 Recovery = 104.05%								
Cr 205.560†	205.6	0.0095	mg/L	0.00031	0.0095	mg/L	0.00031	3.32%
QC value within limits for Cr 205.560 Recovery = 94.89%								
Cu 324.752†	3258.4	0.0206	mg/L	0.00074	0.0206	mg/L	0.00074	3.58%
QC value within limits for Cu 324.752 Recovery = 102.82%								
Fe 238.863†	1613.1	0.1000	mg/L	0.00303	0.1000	mg/L	0.00303	3.03%
QC value within limits for Fe 238.863 Recovery = 100.04%								
Mg 279.077†	666.2	0.1083	mg/L	0.00277	0.1083	mg/L	0.00277	2.55%
QC value within limits for Mg 279.077 Recovery = 108.27%								
Mn 257.610†	5742.5	0.0095	mg/L	0.00044	0.0095	mg/L	0.00044	4.64%
QC value within limits for Mn 257.610 Recovery = 94.67%								
Mo 202.031†	50.9	0.00494	mg/L	0.000233	0.00494	mg/L	0.000233	4.72%
QC value within limits for Mo 202.031 Recovery = 98.79%								
Ni 232.003†	182.4	0.0254	mg/L	0.00192	0.0254	mg/L	0.00192	7.58%
QC value within limits for Ni 232.003 Recovery = 126.93%								
Pb 220.353†	8.2	0.00254	mg/L	0.000824	0.00254	mg/L	0.000824	32.41%
QC value within limits for Pb 220.353 Recovery = 50.85%								
Sb 206.836†	27.3	0.0144	mg/L	0.00175	0.0144	mg/L	0.00175	12.15%
QC value within limits for Sb 206.836 Recovery = 72.17%								
Se 196.026†	14.8	0.0150	mg/L	0.00966	0.0150	mg/L	0.00966	64.40%
QC value within limits for Se 196.026 Recovery = 75.03%								
Si 251.611†	138.1	0.1820	mg/L	0.00704	0.1820	mg/L	0.00704	3.87%
QC value within limits for Si 251.611 Recovery = 91.01%								
Sn 189.927†	78.6	0.0195	mg/L	0.00039	0.0195	mg/L	0.00039	1.99%
QC value within limits for Sn 189.927 Recovery = 97.32%								
Tl 190.801†	23.7	0.0181	mg/L	0.00135	0.0181	mg/L	0.00135	7.44%
QC value within limits for Tl 190.801 Recovery = 90.45%								
V 292.402†	812.4	0.0087	mg/L	0.00045	0.0087	mg/L	0.00045	5.16%
QC value within limits for V 292.402 Recovery = 86.95%								
Zn 213.857†	1664.1	0.0288	mg/L	0.00070	0.0288	mg/L	0.00070	2.43%
QC value within limits for Zn 213.857 Recovery = 95.97%								
Ti 334.940†	6561.4	0.0094	mg/L	0.00030	0.0094	mg/L	0.00030	3.22%
QC value within limits for Ti 334.940 Recovery = 93.99%								
B 249.772†	464.6	0.1930	mg/L	0.00385	0.1930	mg/L	0.00385	2.00%

```
   QC value within limits for B 249.772  Recovery = 96.48%
Na 589.592†            3468.1      0.6145 mg/L       0.00226      0.6145 mg/L       0.00226   0.37%
   QC value within limits for Na 589.592  Recovery = 122.91%
K 766.490†              830.7      0.4710 mg/L       0.02493      0.4710 mg/L       0.02493   5.29%
   QC value within limits for K 766.490  Recovery = 94.20%
Li 670.784†             945.6     0.01717 mg/L      0.000761     0.01717 mg/L      0.000761   4.43%
   QC value within limits for Li 670.784  Recovery = 114.47%
Sr 407.771†            7348.6     0.00925 mg/L      0.000071     0.00925 mg/L      0.000071   0.76%
   QC value within limits for Sr 407.771  Recovery = 92.54%
All analyte(s) passed QC.
```

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Method Loaded
Method Name: IT11J28N **Method Last Saved: 10/28/2014 8:03:20 PM**
IEC File: 091614ICP11_IEC.iec **MSF File:**
Method Description:

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Sequence No.: 132 **Autosampler Location: 18**
Sample ID: ICSA **Date Collected: 10/28/2014 11:02:25 PM**
Analyst: 388 **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**
Wash Time: 90 **Auto Dilution Factor: 1**

Mean Data: ICSA

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	3089564.7	115.8	mg/L	0.92				0.79%
Y 360.073 R	180339.3	12.86	mg/L	0.542				4.21%
Ag 328.068†	-704.5	-0.00378	mg/L	0.000759	-0.00378	mg/L	0.000759	20.09%
Al 308.215†	290715.5	527.9	mg/L	18.23	527.9	mg/L	18.23	3.45%
As 188.979†	53.6	0.0056	mg/L	0.00348	0.0056	mg/L	0.00348	62.04%
Ba 233.527†	313.5	-0.0003	mg/L	0.00024	-0.0003	mg/L	0.00024	91.73%
Be 313.107†	-670.5	-0.00069	mg/L	0.000043	-0.00069	mg/L	0.000043	6.30%
Ca 315.887†	27533108.8	453.5	mg/L	4.16	453.5	mg/L	4.16	0.92%
Cd 214.440†	113.9	-0.0031	mg/L	0.00015	-0.0031	mg/L	0.00015	4.78%
Co 228.616†	6.6	0.0010	mg/L	0.00045	0.0010	mg/L	0.00045	46.76%
Cr 205.560†	107.4	-0.0033	mg/L	0.00023	-0.0033	mg/L	0.00023	6.93%
Cu 324.752†	-1959.7	-0.0162	mg/L	0.00017	-0.0162	mg/L	0.00017	1.05%
Fe 238.863†	3015508.4	187.0	mg/L	0.44	187.0	mg/L	0.44	0.24%
Mg 279.077†	3306466.6	537.7	mg/L	1.53	537.7	mg/L	1.53	0.29%
Mn 257.610†	2523.7	-0.0189	mg/L	0.00009	-0.0189	mg/L	0.00009	0.50%
Mo 202.031†	-47.2	0.00079	mg/L	0.001085	0.00079	mg/L	0.001085	137.85%
Ni 232.003†	-66.6	0.0213	mg/L	0.00371	0.0213	mg/L	0.00371	17.42%
Pb 220.353†	-151.5	-0.00920	mg/L	0.004695	-0.00920	mg/L	0.004695	51.02%
Sb 206.836†	-20.9	-0.0173	mg/L	0.00413	-0.0173	mg/L	0.00413	23.89%
Se 196.026†	-70.6	0.0195	mg/L	0.00434	0.0195	mg/L	0.00434	22.23%
Si 251.611†	15.2	-0.0413	mg/L	0.00320	-0.0413	mg/L	0.00320	7.74%
Sn 189.927†	-33.3	0.0129	mg/L	0.00193	0.0129	mg/L	0.00193	14.94%
Tl 190.801†	11.9	0.0006	mg/L	0.00492	0.0006	mg/L	0.00492	890.42%
V 292.402†	1207.6	-0.0033	mg/L	0.00043	-0.0033	mg/L	0.00043	12.75%
Zn 213.857†	943.7	-0.0124	mg/L	0.00092	-0.0124	mg/L	0.00092	7.45%
Ti 334.940†	-2516.2	-0.0204	mg/L	0.00023	-0.0204	mg/L	0.00023	1.11%
B 249.772†	1631.3	0.2682	mg/L	0.00655	0.2682	mg/L	0.00655	2.44%
Na 589.592†	402.0	-0.0684	mg/L	0.00564	-0.0684	mg/L	0.00564	8.24%
K 766.490†	-31.7	-0.0575	mg/L	0.04047	-0.0575	mg/L	0.04047	70.33%
Li 670.784†	64.7	-0.00323	mg/L	0.000905	-0.00323	mg/L	0.000905	27.97%
Sr 407.771†	6991.3	0.00168	mg/L	0.000404	0.00168	mg/L	0.000404	24.09%

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Method Loaded
Method Name: IT11J28N **Method Last Saved: 10/28/2014 8:03:20 PM**
IEC File: 091614ICP11_IEC.iec **MSF File:**
Method Description:

==========

Sequence No.: 133 **Autosampler Location: 19**
Sample ID: ICSAB **Date Collected: 10/28/2014 11:08:30 PM**
Analyst: 388 **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**
Wash Time: 150 **Auto Dilution Factor: 1**

Mean Data: ICSAB

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	3088886.2	115.8	mg/L	0.94				0.81%
Y 360.073 R	178266.3	12.72	mg/L	0.395				3.10%
Ag 328.068†	162355.6	0.9711	mg/L	0.00453	0.9711	mg/L	0.00453	0.47%
Al 308.215†	288185.8	523.3	mg/L	19.15	523.3	mg/L	19.15	3.66%
As 188.979†	460.6	0.4902	mg/L	0.01646	0.4902	mg/L	0.01646	3.36%
Ba 233.527†	37912.3	0.4856	mg/L	0.00502	0.4856	mg/L	0.00502	1.03%
Be 313.107†	749625.3	0.4727	mg/L	0.00204	0.4727	mg/L	0.00204	0.43%
Ca 315.887†	27802072.4	458.0	mg/L	4.21	458.0	mg/L	4.21	0.92%
Cd 214.440†	55561.5	0.8911	mg/L	0.00562	0.8911	mg/L	0.00562	0.63%
Co 228.616†	13227.9	0.4587	mg/L	0.00499	0.4587	mg/L	0.00499	1.09%
Cr 205.560†	10358.9	0.4702	mg/L	0.00444	0.4702	mg/L	0.00444	0.94%
Cu 324.752†	70235.8	0.4394	mg/L	0.00113	0.4394	mg/L	0.00113	0.26%
Fe 238.863†	3028833.5	187.8	mg/L	0.82	187.8	mg/L	0.82	0.44%
Mg 279.077†	3323545.9	540.4	mg/L	2.53	540.4	mg/L	2.53	0.47%
Mn 257.610†	276208.3	0.4325	mg/L	0.00230	0.4325	mg/L	0.00230	0.53%
Mo 202.031†	4767.2	0.4674	mg/L	0.00642	0.4674	mg/L	0.00642	1.37%
Ni 232.003†	7117.0	1.020	mg/L	0.0102	1.020	mg/L	0.0102	1.00%
Pb 220.353†	2874.4	0.9283	mg/L	0.01196	0.9283	mg/L	0.01196	1.29%
Sb 206.836†	916.4	0.4795	mg/L	0.00933	0.4795	mg/L	0.00933	1.95%
Se 196.026†	418.2	0.5138	mg/L	0.00472	0.5138	mg/L	0.00472	0.92%
Si 251.611†	777.3	0.9629	mg/L	0.01332	0.9629	mg/L	0.01332	1.38%
Sn 189.927†	1783.5	0.4625	mg/L	0.00392	0.4625	mg/L	0.00392	0.85%
Tl 190.801†	603.8	0.4521	mg/L	0.00508	0.4521	mg/L	0.00508	1.12%
V 292.402†	43922.9	0.4542	mg/L	0.00199	0.4542	mg/L	0.00199	0.44%
Zn 213.857†	53513.3	0.8973	mg/L	0.00646	0.8973	mg/L	0.00646	0.72%
Ti 334.940†	318988.9	0.4401	mg/L	0.00142	0.4401	mg/L	0.00142	0.32%
B 249.772†	4022.0	1.260	mg/L	0.0166	1.260	mg/L	0.0166	1.32%
Na 589.592†	495.9	-0.0522	mg/L	0.00249	-0.0522	mg/L	0.00249	4.78%
K 766.490†	-36.6	-0.0601	mg/L	0.00780	-0.0601	mg/L	0.00780	12.98%
Li 670.784†	67.6	-0.00320	mg/L	0.001217	-0.00320	mg/L	0.001217	38.04%
Sr 407.771†	6068.9	0.00045	mg/L	0.000297	0.00045	mg/L	0.000297	66.67%

Sample Information Detail Report
Document Name: 110514ICP11

File Description
Default Sample Information File

Parameters Common to All Samples

Analyst Name	388
YTTRIUM	14J27640
CAL STD	14J27638
ICV STD	14J27639
CCV STD	14J27642
ICSA/B	14J27643/644

Parameters That Vary By Sample

Sample No	A/S Location	Sample ID	Initial Sample Vol.
1	18	ICSA	
2	19	ICSAB	
3	71	BLANK WG752427	5
4	72	LCS WG752427	5
5	73	LCSD WG752427	5
6	74	L730585-02 WG752427	5
7	75	SD L730585-02 WG752	5
8	77	MS L730585-02 WG752	5
9	78	MSD L730585-02 WG75	5
10	79	L730589-02 WG752427	5
11	72	LCS WG752427	5
12	73	LCSD WG752427	5
13	131	BLANK WG752666	
14	132	LCS WG752666	
15	133	LCSD WG752666	
16	134	L729509-01 WG752666	
17	135	SD L729509-01 WG752	
18	137	MS L729509-01 WG752	
19	138	MSD L729509-01 WG75	
20	139	L729509-03 WG752666	
21	140	L729509-04 WG752666	
22	141	L729521-01 WG752666	
23	142	L729521-03 WG752666	
24	143	L729525-01 WG752666	
25	144	L729528-48 WG752666	
26	145	L729536-01 WG752666	
27	146	L729536-02 WG752666	
28	147	L729536-03 WG752666	
29	148	L729536-04 WG752666	
30	149	L731418-01 WG752666	
31	150	L731418-01 WG752666	
32	191	BLANK WG752581	45
33	192	LCS WG752581	45
34	193	LCSD WG752581	45
35	194	L730147-09 WG752581	45
36	195	SD L730147-09 WG752	45
37	197	MS L730147-09 WG752	45
38	198	MSD L730147-09 WG75	45
39	199	L730147-11 WG752581	45
40	200	L730147-14 WG752581	45
41	201	L730147-16 WG752581	45
42	202	L730147-20 WG752581	45
43	203	L730147-22 WG752581	45
44	196	PS L730147-09 WG752	45
45	71	BLANK WG752582	45
46	72	LCS WG752582	45
47	73	LCSD WG752582	45
48	74	L729800-02 WG752582	45
49	75	SD L729800-02 WG752	45

50	76	PS L729800-02 WG752	45
51	77	MS L729800-02 WG752	45
52	78	MSD L729800-02 WG75	45
53	79	L730147-02 WG752582	45
54	80	L730147-04 WG752582	45
55	81	L730147-06 WG752582	45
56	82	MS L730147-06 WG752	45
57	83	MSD L730147-06 WG75	45
58	84	L730147-08 WG752582	45
59	85	L730147-10 WG752582	45
60	86	L730147-12 WG752582	45
61	87	L730147-13 WG752582	45
62	88	L730147-15 WG752582	45
63	89	L730147-17 WG752582	45
64	90	MS L730147-17 WG752	45
65	91	MSD L730147-17 WG75	45
66	92	L730147-19 WG752582	45
67	93	L730147-21 WG752582	45
68	0	INSTBLK	
69	0	INSTBLK	
70	0	INSTBLK	
71	0	INSTBLK	
72	0	INSTBLK	
73	131	BLANK WG752806	45
74	132	LCS WG752806	45
75	133	LCSD WG752806	45
76	134	L731168-04 WG752806	45
77	135	SD L731168-04 WG752	45
78	137	MS L731168-04 WG752	45
79	138	MSD L731168-04 WG75	45
80	139	L731168-01 WG752806	45
81	191	BLANK WG752307	
82	192	LCS WG752307	
83	193	LCSD WG752307	
84	194	L730888-01 WG752307	
85	195	SD L730888-01 WG752	
86	197	MS L730888-01 WG752	
87	198	MSD L730888-01 WG75	
88	199	L730635-21 WG752307	
89	200	L730635-22 WG752307	
90	201	L730635-23 WG752307	
91	202	L730635-24 WG752307	
92	203	L730635-25 WG752307	
93	204	L730637-01 WG752307	
94	205	L730637-02 WG752307	
95	206	L730637-03 WG752307	
96	207	L730637-04 WG752307	
97	208	L730637-05 WG752307	
98	209	L730637-06 WG752307	
99	210	L730637-07 WG752307	
100	211	L730637-08 WG752307	
101	212	L730637-09 WG752307	
102	213	L730637-10 WG752307	
103	214	L730881-01 WG752307	
104	215	L730890-01 WG752307	

Sample No	Initial Sample Wt.	Volume Units	Weight Units
1		mL	g
2		mL	g
3		mL	g
4		mL	g
5		mL	g
6		mL	g
7		mL	g

8		mL	g
9		mL	g
10		mL	g
11		mL	g
12		mL	g
13	0.51	mL	g
14	0.49	mL	g
15	0.48	mL	g
16	0.47	mL	g
17	0.47	mL	g
18	0.55	mL	g
19	0.48	mL	g
20	0.55	mL	g
21	0.47	mL	g
22	0.48	mL	g
23	0.54	mL	g
24	2.49	mL	g
25	0.49	mL	g
26	0.47	mL	g
27	0.51	mL	g
28	0.46	mL	g
29	0.5	mL	g
30	0.48	mL	g
31	0.48	mL	g
32		mL	g
33		mL	g
34		mL	g
35		mL	g
36		mL	g
37		mL	g
38		mL	g
39		mL	g
40		mL	g
41		mL	g
42		mL	g
43		mL	g
44		mL	g
45		mL	g
46		mL	g
47		mL	g
48		mL	g
49		mL	g
50		mL	g
51		mL	g
52		mL	g
53		mL	g
54		mL	g
55		mL	g
56		mL	g
57		mL	g
58		mL	g
59		mL	g
60		mL	g
61		mL	g
62		mL	g
63		mL	g
64		mL	g
65		mL	g
66		mL	g
67		mL	g
68		mL	g
69		mL	g
70		mL	g
71		mL	g

72		mL	g
73		mL	g
74		mL	g
75		mL	g
76		mL	g
77		mL	g
78		mL	g
79		mL	g
80		mL	g
81	0.52	mL	g
82	0.5	mL	g
83	0.49	mL	g
84	0.52	mL	g
85	0.52	mL	g
86	0.5	mL	g
87	0.51	mL	g
88	0.52	mL	g
89	0.5	mL	g
90	0.5	mL	g
91	0.5	mL	g
92	0.49	mL	g
93	0.53	mL	g
94	0.53	mL	g
95	0.49	mL	g
96	0.53	mL	g
97	0.53	mL	g
98	0.53	mL	g
99	0.53	mL	g
100	0.52	mL	g
101	0.51	mL	g
102	0.49	mL	g
103	0.54	mL	g
104	0.52	mL	g

Sample No	Sample Prep. Vol.	Aliquot Volume	Diluted To Vol.
1			
2			
3	50		
4	50		
5	50		
6	50		
7	50	1	5
8	50		
9	50		
10	50		
11	50		
12	50		
13	50		
14	50		
15	50		
16	50		
17	50	1	5
18	50		
19	50		
20	50		
21	50		
22	50	1	5
23	50		
24	50		
25	50		
26	50		
27	50		
28	50		
29	50		

30	50		
31	50	1	5
32	50		
33	50		
34	50		
35	50	1	5
36	50	1	25
37	50	1	5
38	50	1	5
39	50	1	5
40	50	1	5
41	50	1	5
42	50	1	5
43	50	1	5
44	50	1	5
45	50		
46	50		
47	50		
48	50	1	5
49	50	1	25
50	50	1	5
51	50	1	5
52	50	1	5
53	50	1	5
54	50	1	5
55	50	1	5
56	50	1	5
57	50	1	5
58	50	1	5
59	50	1	5
60	50	1	5
61	50	1	5
62	50	1	5
63	50	1	5
64	50	1	5
65	50	1	5
66	50	1	5
67	50	1	5
68			
69			
70			
71			
72			
73	50		
74	50		
75	50		
76	50		
77	50	1	5
78	50		
79	50		
80	50		
81	50		
82	50		
83	50		
84	50		
85	50	1	5
86	50		
87	50		
88	50		
89	50		
90	50		
91	50		
92	50		
93	50		

94	50
95	50
96	50
97	50
98	50
99	50
100	50
101	50
102	50
103	50
104	50

Sample No	Remarks	Sample Units *	Batch ID
1		mg/L	
2		mg/L	
3	TCLP	mg/L	388/388
4	TCLP	mg/L	388/388
5	TCLP	mg/L	388/388
6	TCLP	mg/L	388/388
7	TCLP	mg/L	388/388
8	TCLP	mg/L	388/388
9	TCLP	mg/L	388/388
10	TCLP	mg/L	388/388
11	TCLP	mg/L	388/388
12	TCLP	mg/L	388/388
13	SS	mg/kg	388/388
14	SS	mg/kg	388/388
15	SS	mg/kg	388/388
16	SS	mg/kg	388/388
17	SS	mg/kg	388/388
18	SS	mg/kg	388/388
19	SS	mg/kg	388/388
20	SS	mg/kg	388/388
21	SS	mg/kg	388/388
22	SS	mg/kg	388/388
23	SS	mg/kg	388/388
24	SS	mg/kg	388/388
25	SS	mg/kg	388/388
26	SS	mg/kg	388/388
27	SS	mg/kg	388/388
28	SS	mg/kg	388/388
29	SS	mg/kg	388/388
30	SS	mg/kg	388/388
31	SS	mg/kg	388/388
32	GW	mg/L	388/388
33	GW	mg/L	388/388
34	GW	mg/L	388/388
35	GW	mg/L	388/388
36	GW	mg/L	388/388
37	GW	mg/L	388/388
38	GW	mg/L	388/388
39	GW	mg/L	388/388
40	GW	mg/L	388/388
41	GW	mg/L	388/388
42	GW	mg/L	388/388
43	GW	mg/L	388/388
44	GW	mg/L	388/388
45	GW	mg/L	388/388
46	GW	mg/L	388/388
47	GW	mg/L	388/388
48	GW	mg/L	388/388
49	GW	mg/L	388/388
50	GW	mg/L	388/388
51	GW	mg/L	388/388

52	GW	mg/L	388/388
53	GW	mg/L	388/388
54	GW	mg/L	388/388
55	GW	mg/L	388/388
56	GW	mg/L	388/388
57	GW	mg/L	388/388
58	GW	mg/L	388/388
59	GW	mg/L	388/388
60	GW	mg/L	388/388
61	GW	mg/L	388/388
62	GW	mg/L	388/388
63	GW	mg/L	388/388
64	GW	mg/L	388/388
65	GW	mg/L	388/388
66	GW	mg/L	388/388
67	GW	mg/L	388/388
68		mg/L	
69		mg/L	
70		mg/L	
71		mg/L	
72		mg/L	
73	GW	mg/L	388/388
74	GW	mg/L	388/388
75	GW	mg/L	388/388
76	GW	mg/L	388/388
77	GW	mg/L	388/388
78	GW	mg/L	388/388
79	GW	mg/L	388/388
80	GW	mg/L	388/136
81	SS	mg/kg	388/136
82	SS	mg/kg	388/136
83	SS	mg/kg	388/136
84	SS	mg/kg	388/136
85	SS	mg/kg	388/136
86	SS	mg/kg	388/136
87	SS	mg/kg	388/136
88	SS	mg/kg	388/136
89	SS	mg/kg	388/136
90	SS	mg/kg	388/136
91	SS	mg/kg	388/136
92	SS	mg/kg	388/136
93	SS	mg/kg	388/136
94	SS	mg/kg	388/136
95	SS	mg/kg	388/136
96	SS	mg/kg	388/136
97	SS	mg/kg	388/136
98	SS	mg/kg	388/136
99	SS	mg/kg	388/136
100	SS	mg/kg	388/136
101	SS	mg/kg	388/136
102	SS	mg/kg	388/136
103	SS	mg/kg	388/136
104	SS	mg/kg	388/136

Sample Information Detail Report
Document Name: 110514ICP11

File Description
Default Sample Information File

Parameters Common to All Samples

Analyst Name	388
YTTRIUM	14J27640
CAL STD	14J27638
ICV STD	14J27639
CCV STD	14J27642
ICSA/B	14J27643/644

Parameters That Vary By Sample

Sample No	A/S Location	Sample ID	Initial Sample Vol.
1	18	ICSA	
2	19	ICSAB	
3	71	BLANK WG752427	5
4	72	LCS WG752427	5
5	73	LCSD WG752427	5
6	74	L730585-02 WG752427	5
7	75	SD L730585-02 WG752	5
8	77	MS L730585-02 WG752	5
9	78	MSD L730585-02 WG75	5
10	79	L730589-02 WG752427	5
11	72	LCS WG752427	5
12	73	LCSD WG752427	5
13	131	BLANK WG752666	
14	132	LCS WG752666	
15	133	LCSD WG752666	
16	134	L729509-01 WG752666	
17	135	SD L729509-01 WG752	
18	137	MS L729509-01 WG752	
19	138	MSD L729509-01 WG75	
20	139	L729509-03 WG752666	
21	140	L729509-04 WG752666	
22	141	L729521-01 WG752666	
23	142	L729521-03 WG752666	
24	143	L729525-01 WG752666	
25	144	L729528-48 WG752666	
26	145	L729536-01 WG752666	
27	146	L729536-02 WG752666	
28	147	L729536-03 WG752666	
29	148	L729536-04 WG752666	
30	149	L731418-01 WG752666	
31	150	L731418-01 WG752666	
32	191	BLANK WG752581	45
33	192	LCS WG752581	45
34	193	LCSD WG752581	45
35	194	L730147-09 WG752581	45
36	195	SD L730147-09 WG752	45
37	197	MS L730147-09 WG752	45
38	198	MSD L730147-09 WG75	45
39	199	L730147-11 WG752581	45
40	200	L730147-14 WG752581	45
41	201	L730147-16 WG752581	45
42	202	L730147-20 WG752581	45
43	203	L730147-22 WG752581	45
44	196	PS L730147-09 WG752	45
45	71	BLANK WG752582	45
46	72	LCS WG752582	45
47	73	LCSD WG752582	45
48	74	L729800-02 WG752582	45
49	75	SD L729800-02 WG752	45

50	76	PS L729800-02 WG752	45
51	77	MS L729800-02 WG752	45
52	78	MSD L729800-02 WG75	45
53	79	L730147-02 WG752582	45
54	80	L730147-04 WG752582	45
55	81	L730147-06 WG752582	45
56	82	MS L730147-06 WG752	45
57	83	MSD L730147-06 WG75	45
58	84	L730147-08 WG752582	45
59	85	L730147-10 WG752582	45
60	86	L730147-12 WG752582	45
61	87	L730147-13 WG752582	45
62	88	L730147-15 WG752582	45
63	89	L730147-17 WG752582	45
64	90	MS L730147-17 WG752	45
65	91	MSD L730147-17 WG75	45
66	92	L730147-19 WG752582	45
67	93	L730147-21 WG752582	45
68	0	INSTBLK	
69	0	INSTBLK	
70	0	INSTBLK	
71	0	INSTBLK	
72	0	INSTBLK	
73	131	BLANK WG752806	45
74	132	LCS WG752806	45
75	133	LCSD WG752806	45
76	134	L731168-04 WG752806	45
77	135	SD L731168-04 WG752	45
78	137	MS L731168-04 WG752	45
79	138	MSD L731168-04 WG75	45
80	139	L731168-01 WG752806	45
81	191	BLANK WG752307	
82	192	LCS WG752307	
83	193	LCSD WG752307	
84	194	L730888-01 WG752307	
85	195	SD L730888-01 WG752	
86	197	MS L730888-01 WG752	
87	198	MSD L730888-01 WG75	
88	199	L730635-21 WG752307	
89	200	L730635-22 WG752307	
90	201	L730635-23 WG752307	
91	202	L730635-24 WG752307	
92	203	L730635-25 WG752307	
93	204	L730637-01 WG752307	
94	205	L730637-02 WG752307	
95	206	L730637-03 WG752307	
96	207	L730637-04 WG752307	
97	208	L730637-05 WG752307	
98	209	L730637-06 WG752307	
99	210	L730637-07 WG752307	
100	211	L730637-08 WG752307	
101	212	L730637-09 WG752307	
102	213	L730637-10 WG752307	
103	214	L730881-01 WG752307	
104	215	L730890-01 WG752307	

Sample No	Initial Sample Wt.	Volume Units	Weight Units
1		mL	g
2		mL	g
3		mL	g
4		mL	g
5		mL	g
6		mL	g
7		mL	g

8		mL	g
9		mL	g
10		mL	g
11		mL	g
12		mL	g
13	0.51	mL	g
14	0.49	mL	g
15	0.48	mL	g
16	0.47	mL	g
17	0.47	mL	g
18	0.55	mL	g
19	0.48	mL	g
20	0.55	mL	g
21	0.47	mL	g
22	0.48	mL	g
23	0.54	mL	g
24	2.49	mL	g
25	0.49	mL	g
26	0.47	mL	g
27	0.51	mL	g
28	0.46	mL	g
29	0.5	mL	g
30	0.48	mL	g
31	0.48	mL	g
32		mL	g
33		mL	g
34		mL	g
35		mL	g
36		mL	g
37		mL	g
38		mL	g
39		mL	g
40		mL	g
41		mL	g
42		mL	g
43		mL	g
44		mL	g
45		mL	g
46		mL	g
47		mL	g
48		mL	g
49		mL	g
50		mL	g
51		mL	g
52		mL	g
53		mL	g
54		mL	g
55		mL	g
56		mL	g
57		mL	g
58		mL	g
59		mL	g
60		mL	g
61		mL	g
62		mL	g
63		mL	g
64		mL	g
65		mL	g
66		mL	g
67		mL	g
68		mL	g
69		mL	g
70		mL	g
71		mL	g

72		mL	g
73		mL	g
74		mL	g
75		mL	g
76		mL	g
77		mL	g
78		mL	g
79		mL	g
80		mL	g
81	0.52	mL	g
82	0.5	mL	g
83	0.49	mL	g
84	0.52	mL	g
85	0.52	mL	g
86	0.5	mL	g
87	0.51	mL	g
88	0.52	mL	g
89	0.5	mL	g
90	0.5	mL	g
91	0.5	mL	g
92	0.49	mL	g
93	0.53	mL	g
94	0.53	mL	g
95	0.49	mL	g
96	0.53	mL	g
97	0.53	mL	g
98	0.53	mL	g
99	0.53	mL	g
100	0.52	mL	g
101	0.51	mL	g
102	0.49	mL	g
103	0.54	mL	g
104	0.52	mL	g

Sample No	Sample Prep. Vol.	Aliquot Volume	Diluted To Vol.
1			
2			
3	50		
4	50		
5	50		
6	50		
7	50	1	5
8	50		
9	50		
10	50		
11	50		
12	50		
13	50		
14	50		
15	50		
16	50		
17	50	1	5
18	50		
19	50		
20	50		
21	50		
22	50	1	5
23	50		
24	50		
25	50		
26	50		
27	50		
28	50		
29	50		

30	50		
31	50	1	5
32	50		
33	50		
34	50		
35	50	1	5
36	50	1	25
37	50	1	5
38	50	1	5
39	50	1	5
40	50	1	5
41	50	1	5
42	50	1	5
43	50	1	5
44	50	1	5
45	50		
46	50		
47	50		
48	50	1	5
49	50	1	25
50	50	1	5
51	50	1	5
52	50	1	5
53	50	1	5
54	50	1	5
55	50	1	5
56	50	1	5
57	50	1	5
58	50	1	5
59	50	1	5
60	50	1	5
61	50	1	5
62	50	1	5
63	50	1	5
64	50	1	5
65	50	1	5
66	50	1	5
67	50	1	5
68			
69			
70			
71			
72			
73	50		
74	50		
75	50		
76	50		
77	50	1	5
78	50		
79	50		
80	50		
81	50		
82	50		
83	50		
84	50		
85	50	1	5
86	50		
87	50		
88	50		
89	50		
90	50		
91	50		
92	50		
93	50		

94	50
95	50
96	50
97	50
98	50
99	50
100	50
101	50
102	50
103	50
104	50

Sample No	Remarks	Sample Units *	Batch ID
1		mg/L	
2		mg/L	
3	TCLP	mg/L	388/388
4	TCLP	mg/L	388/388
5	TCLP	mg/L	388/388
6	TCLP	mg/L	388/388
7	TCLP	mg/L	388/388
8	TCLP	mg/L	388/388
9	TCLP	mg/L	388/388
10	TCLP	mg/L	388/388
11	TCLP	mg/L	388/388
12	TCLP	mg/L	388/388
13	SS	mg/kg	388/388
14	SS	mg/kg	388/388
15	SS	mg/kg	388/388
16	SS	mg/kg	388/388
17	SS	mg/kg	388/388
18	SS	mg/kg	388/388
19	SS	mg/kg	388/388
20	SS	mg/kg	388/388
21	SS	mg/kg	388/388
22	SS	mg/kg	388/388
23	SS	mg/kg	388/388
24	SS	mg/kg	388/388
25	SS	mg/kg	388/388
26	SS	mg/kg	388/388
27	SS	mg/kg	388/388
28	SS	mg/kg	388/388
29	SS	mg/kg	388/388
30	SS	mg/kg	388/388
31	SS	mg/kg	388/388
32	GW	mg/L	388/388
33	GW	mg/L	388/388
34	GW	mg/L	388/388
35	GW	mg/L	388/388
36	GW	mg/L	388/388
37	GW	mg/L	388/388
38	GW	mg/L	388/388
39	GW	mg/L	388/388
40	GW	mg/L	388/388
41	GW	mg/L	388/388
42	GW	mg/L	388/388
43	GW	mg/L	388/388
44	GW	mg/L	388/388
45	GW	mg/L	388/388
46	GW	mg/L	388/388
47	GW	mg/L	388/388
48	GW	mg/L	388/388
49	GW	mg/L	388/388
50	GW	mg/L	388/388
51	GW	mg/L	388/388

52	GW	mg/L	388/388
53	GW	mg/L	388/388
54	GW	mg/L	388/388
55	GW	mg/L	388/388
56	GW	mg/L	388/388
57	GW	mg/L	388/388
58	GW	mg/L	388/388
59	GW	mg/L	388/388
60	GW	mg/L	388/388
61	GW	mg/L	388/388
62	GW	mg/L	388/388
63	GW	mg/L	388/388
64	GW	mg/L	388/388
65	GW	mg/L	388/388
66	GW	mg/L	388/388
67	GW	mg/L	388/388
68		mg/L	
69		mg/L	
70		mg/L	
71		mg/L	
72		mg/L	
73	GW	mg/L	388/388
74	GW	mg/L	388/388
75	GW	mg/L	388/388
76	GW	mg/L	388/388
77	GW	mg/L	388/388
78	GW	mg/L	388/388
79	GW	mg/L	388/388
80	GW	mg/L	388/136
81	SS	mg/kg	388/136
82	SS	mg/kg	388/136
83	SS	mg/kg	388/136
84	SS	mg/kg	388/136
85	SS	mg/kg	388/136
86	SS	mg/kg	388/136
87	SS	mg/kg	388/136
88	SS	mg/kg	388/136
89	SS	mg/kg	388/136
90	SS	mg/kg	388/136
91	SS	mg/kg	388/136
92	SS	mg/kg	388/136
93	SS	mg/kg	388/136
94	SS	mg/kg	388/136
95	SS	mg/kg	388/136
96	SS	mg/kg	388/136
97	SS	mg/kg	388/136
98	SS	mg/kg	388/136
99	SS	mg/kg	388/136
100	SS	mg/kg	388/136
101	SS	mg/kg	388/136
102	SS	mg/kg	388/136
103	SS	mg/kg	388/136
104	SS	mg/kg	388/136

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Analysis Begun

Start Time: 11/5/2014 7:47:55 AM **Plasma On Time: 11/5/2014 6:37:50 AM**
Logged In Analyst: ICP11 **Technique: ICP Continuous**
Spectrometer: Optima 8300 , S/N 078S1402113 **Autosampler: Cetac**

Sample Information File: C:\pe\ICP11\Sample Information\110514ICP11.sif
Batch ID:
Results Data Set: 110514ICP11
Results Library: C:\pe\ICP11\Results\Results.mdb

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Method Loaded
Method Name: IT11K05N **Method Last Saved: 11/5/2014 7:47:19 AM**
IEC File: 091614ICP11_IEC.iec **MSF File:**
Method Description:

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Sequence No.: 1 **Autosampler Location: 11**
Sample ID: CALBLK **Date Collected: 11/5/2014 7:47:59 AM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**
Wash Time:

Nebulizer Parameters: CALBLK

Analyte	Back Pressure	Flow
All	194.0 kPa	0.55 L/min

Mean Data: CALBLK

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Y 360.073	2621908.0	17740.12	0.68%	100.0	mg/L
Y 360.073 R	53922.7	738.31	1.37%	10.000	mg/L
Ag 328.068†	-2288.9	69.78	3.05%	[0.00]	mg/L
Al 308.215†	106.9	12.62	11.80%	[0.00]	mg/L
As 188.979†	-22.0	3.91	17.81%	[0.00]	mg/L
Ba 233.527†	-40.8	0.65	1.60%	[0.00]	mg/L
Be 313.107†	659.0	66.81	10.14%	[0.00]	mg/L
Ca 315.887†	-29369.7	122.06	0.42%	[0.00]	mg/L
Cd 214.440†	653.7	1.65	0.25%	[0.00]	mg/L
Co 228.616†	-236.6	4.29	1.81%	[0.00]	mg/L
Cr 205.560†	-69.7	4.54	6.52%	[0.00]	mg/L
Cu 324.752†	3082.2	11.94	0.39%	[0.00]	mg/L
Fe 238.863†	185.0	13.50	7.30%	[0.00]	mg/L
Mg 279.077†	-67.7	12.43	18.35%	[0.00]	mg/L
Mn 257.610†	1216.5	13.17	1.08%	[0.00]	mg/L
Mo 202.031†	68.2	0.90	1.31%	[0.00]	mg/L
Ni 232.003†	-913.4	8.35	0.91%	[0.00]	mg/L
Pb 220.353†	54.0	4.16	7.69%	[0.00]	mg/L
Sb 206.836†	91.0	4.37	4.80%	[0.00]	mg/L
Se 196.026†	88.7	10.08	11.37%	[0.00]	mg/L
Si 251.611†	73.1	4.99	6.82%	[0.00]	mg/L
Sn 189.927†	52.6	3.79	7.21%	[0.00]	mg/L
Tl 190.801†	-29.2	1.31	4.50%	[0.00]	mg/L
V 292.402†	23.7	45.46	192.17%	[0.00]	mg/L
Zn 213.857†	278.5	11.51	4.13%	[0.00]	mg/L
Ti 334.940†	248.0	19.36	7.80%	[0.00]	mg/L
B 249.772†	1.9	0.46	24.82%	[0.00]	mg/L
Na 589.592†	399.1	60.83	15.24%	[0.00]	mg/L
K 766.490†	575.1	34.68	6.03%	[0.00]	mg/L
Li 670.784†	318.4	34.71	10.90%	[0.00]	mg/L
Sr 407.771†	-174.1	45.22	25.97%	[0.00]	mg/L

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Method Loaded
Method Name: IT11K05N **Method Last Saved: 11/5/2014 7:47:19 AM**
IEC File: 091614ICP11_IEC.iec **MSF File:**
Method Description:

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Sequence No.: 2 **Autosampler Location: 12**
Sample ID: STD1 14J27638 **Date Collected: 11/5/2014 7:52:59 AM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**
Wash Time: 90 **Auto Dilution Factor: 1**

Nebulizer Parameters: STD1 14J27638

Analyte	Back Pressure	Flow
All	195.0 kPa	0.55 L/min

Mean Data: STD1 14J27638

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Y 360.073	2678235.6	57395.36	2.14%	102.1	mg/L
Y 360.073 R	55808.3	1936.32	3.47%	10.35	mg/L
Ag 328.068†	1739.3	154.90	8.91%	[0.01]	mg/L
Al 308.215†	29.0	14.70	50.65%	[0.1]	mg/L
As 188.979†	17.5	2.27	12.95%	[0.02]	mg/L
Ba 233.527†	454.3	11.25	2.48%	[0.005]	mg/L
Be 313.107†	3274.2	31.65	0.97%	[0.002]	mg/L
Ca 315.887†	33497.8	185.32	0.55%	[0.5]	mg/L
Cd 214.440†	355.0	20.80	5.86%	[0.005]	mg/L
Co 228.616†	339.8	16.27	4.79%	[0.01]	mg/L
Cr 205.560†	250.9	8.46	3.37%	[0.01]	mg/L
Cu 324.752†	3115.7	34.32	1.10%	[0.02]	mg/L
Fe 238.863†	1951.6	61.16	3.13%	[0.1]	mg/L
Mg 279.077†	763.7	13.61	1.78%	[0.1]	mg/L
Mn 257.610†	6608.8	198.26	3.00%	[0.01]	mg/L
Mo 202.031†	51.7	3.90	7.54%	[0.005]	mg/L
Ni 232.003†	162.2	19.72	12.16%	[0.02]	mg/L
Pb 220.353†	18.4	9.57	52.14%	[0.005]	mg/L
Sb 206.836†	28.6	3.32	11.62%	[0.02]	mg/L
Se 196.026†	18.2	8.16	44.86%	[0.02]	mg/L
Si 251.611†	3.8	0.88	23.02%	[0.02]	mg/L
Sn 189.927†	88.3	9.92	11.24%	[0.02]	mg/L
Tl 190.801†	28.7	5.14	17.94%	[0.02]	mg/L
V 292.402†	1098.9	37.33	3.40%	[0.01]	mg/L
Zn 213.857†	1857.1	71.34	3.84%	[0.03]	mg/L
Ti 334.940†	7435.8	154.42	2.08%	[0.01]	mg/L
B 249.772†	25.0	2.81	11.28%	[0.02]	mg/L
Na 589.592†	2541.3	87.26	3.43%	[0.5]	mg/L
K 766.490†	358.6	10.66	2.97%	[0.5]	mg/L
Li 670.784†	544.1	54.37	9.99%	[0.015]	mg/L
Sr 407.771†	4653.0	47.83	1.03%	[0.01]	mg/L

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Method Loaded
Method Name: IT11K05N **Method Last Saved: 11/5/2014 7:47:19 AM**
IEC File: 091614ICP11_IEC.iec **MSF File:**
Method Description:

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Sequence No.: 3 **Autosampler Location: 13**
Sample ID: STD2 14J27638 **Date Collected: 11/5/2014 7:57:58 AM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**
Wash Time: 90 **Auto Dilution Factor: 1**

Nebulizer Parameters: STD2 14J27638

Analyte	Back Pressure	Flow
All	195.0 kPa	0.55 L/min

Mean Data: STD2 14J27638

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Y 360.073	2635182.2	36569.82	1.39%	100.5	mg/L
Y 360.073 R	53222.8	652.14	1.23%	9.870	mg/L
Ag 328.068†	34044.3	653.90	1.92%	[0.2]	mg/L
Al 308.215†	778.3	12.53	1.61%	[2]	mg/L
As 188.979†	373.3	8.71	2.33%	[0.4]	mg/L
Ba 233.527†	9156.0	121.87	1.33%	[0.1]	mg/L
Be 313.107†	69360.2	1346.62	1.94%	[0.04]	mg/L
Ca 315.887†	666753.1	1970.83	0.30%	[10]	mg/L
Cd 214.440†	7525.3	105.95	1.41%	[0.1]	mg/L
Co 228.616†	6799.7	93.57	1.38%	[0.2]	mg/L
Cr 205.560†	5151.3	73.81	1.43%	[0.2]	mg/L
Cu 324.752†	64516.7	1202.46	1.86%	[0.4]	mg/L
Fe 238.863†	36623.4	766.53	2.09%	[2]	mg/L
Mg 279.077†	14030.4	291.12	2.07%	[2]	mg/L
Mn 257.610†	136972.4	2858.48	2.09%	[0.2]	mg/L
Mo 202.031†	1149.5	21.87	1.90%	[0.1]	mg/L
Ni 232.003†	3193.9	30.72	0.96%	[0.4]	mg/L
Pb 220.353†	387.5	5.30	1.37%	[0.1]	mg/L
Sb 206.836†	805.2	16.60	2.06%	[0.4]	mg/L
Se 196.026†	432.1	5.20	1.20%	[0.4]	mg/L
Si 251.611†	207.5	6.00	2.89%	[0.4]	mg/L
Sn 189.927†	1873.0	21.82	1.17%	[0.4]	mg/L
Tl 190.801†	614.3	13.07	2.13%	[0.4]	mg/L
V 292.402†	20643.1	380.60	1.84%	[0.2]	mg/L
Zn 213.857†	36255.7	763.38	2.11%	[0.6]	mg/L
Ti 334.940†	153227.9	2924.84	1.91%	[0.2]	mg/L
B 249.772†	449.2	9.70	2.16%	[0.4]	mg/L
Na 589.592†	51266.3	55.88	0.11%	[10]	mg/L
K 766.490†	8766.9	120.87	1.38%	[10]	mg/L
Li 670.784†	9983.7	71.36	0.71%	[0.3]	mg/L
Sr 407.771†	96713.1	144.11	0.15%	[0.2]	mg/L

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Method Loaded
Method Name: IT11K05N **Method Last Saved: 11/5/2014 7:47:19 AM**
IEC File: 091614ICP11_IEC.iec **MSF File:**
Method Description:

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Sequence No.: 4 **Autosampler Location: 14**
Sample ID: STD3 14J27638 **Date Collected: 11/5/2014 8:02:59 AM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**
Wash Time: 90 **Auto Dilution Factor: 1**

Nebulizer Parameters: STD3 14J27638

Analyte	Back Pressure	Flow
All	195.0 kPa	0.55 L/min

Mean Data: STD3 14J27638

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Y 360.073	2602285.1	45455.23	1.75%	99.25	mg/L
Y 360.073 R	53423.7	925.28	1.73%	9.907	mg/L
Ag 328.068†	167830.1	484.70	0.29%	[1]	mg/L
Al 308.215†	3871.7	78.94	2.04%	[10]	mg/L
As 188.979†	1853.0	39.97	2.16%	[2]	mg/L
Ba 233.527†	42721.9	149.00	0.35%	[0.5]	mg/L
Be 313.107†	345323.1	215.78	0.06%	[0.2]	mg/L
Ca 315.887†	3424141.8	8617.28	0.25%	[50]	mg/L
Cd 214.440†	35607.3	162.35	0.46%	[0.5]	mg/L
Co 228.616†	33313.5	635.39	1.91%	[1]	mg/L
Cr 205.560†	25390.5	495.95	1.95%	[1]	mg/L
Cu 324.752†	318586.2	413.68	0.13%	[2]	mg/L
Fe 238.863†	179077.3	626.29	0.35%	[10]	mg/L
Mg 279.077†	68805.1	155.73	0.23%	[10]	mg/L
Mn 257.610†	661460.8	413.09	0.06%	[1]	mg/L
Mo 202.031†	5666.1	106.08	1.87%	[0.5]	mg/L
Ni 232.003†	15797.5	297.40	1.88%	[2]	mg/L
Pb 220.353†	1874.0	40.54	2.16%	[0.5]	mg/L
Sb 206.836†	4027.9	86.53	2.15%	[2]	mg/L
Se 196.026†	2173.6	51.56	2.37%	[2]	mg/L
Si 251.611†	1067.6	26.53	2.48%	[2]	mg/L
Sn 189.927†	9193.8	174.50	1.90%	[2]	mg/L
Tl 190.801†	2974.6	58.88	1.98%	[2]	mg/L
V 292.402†	101233.8	128.90	0.13%	[1]	mg/L
Zn 213.857†	180955.3	768.84	0.42%	[3]	mg/L
Ti 334.940†	743527.4	175.50	0.02%	[1]	mg/L
B 249.772†	2274.9	49.31	2.17%	[2]	mg/L
Na 589.592†	253310.2	288.48	0.11%	[50]	mg/L
K 766.490†	46363.3	272.51	0.59%	[50]	mg/L
Li 670.784†	50454.7	115.74	0.23%	[1.5]	mg/L
Sr 407.771†	486984.1	624.38	0.13%	[1]	mg/L

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Method Loaded
Method Name: IT11K05N **Method Last Saved: 11/5/2014 7:47:19 AM**
IEC File: 091614ICP11_IEC.iec **MSF File:**
Method Description:

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Sequence No.: 5 **Autosampler Location: 15**
Sample ID: STD4 14J27638 **Date Collected: 11/5/2014 8:07:55 AM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**
Wash Time: 90 **Auto Dilution Factor: 1**

Nebulizer Parameters: STD4 14J27638

Analyte	Back Pressure	Flow
All	195.0 kPa	0.55 L/min

Mean Data: STD4 14J27638

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Y 360.073	2510260.9	40361.31	1.61%	95.74	mg/L
Y 360.073 R	51308.2	506.24	0.99%	9.515	mg/L
Ag 328.068†	443679.0	6651.94	1.50%	[2.5]	mg/L
Al 308.215†	10013.7	224.81	2.25%	[25]	mg/L
As 188.979†	4748.9	95.79	2.02%	[5]	mg/L
Ba 233.527†	107745.0	1535.82	1.43%	[1.25]	mg/L
Be 313.107†	885891.0	1342.65	0.15%	[0.5]	mg/L
Ca 315.887†	8810907.5	19695.99	0.22%	[125]	mg/L
Cd 214.440†	89220.9	1283.23	1.44%	[1.25]	mg/L
Co 228.616†	79771.0	1083.76	1.36%	[2.5]	mg/L
Cr 205.560†	60862.5	1023.40	1.68%	[2.5]	mg/L
Cu 324.752†	847408.7	12451.64	1.47%	[5]	mg/L
Fe 238.863†	462171.5	7176.62	1.55%	[25]	mg/L
Mg 279.077†	174963.0	2281.53	1.30%	[25]	mg/L
Mn 257.610†	1672139.5	1397.01	0.08%	[2.5]	mg/L
Mo 202.031†	14451.6	268.56	1.86%	[1.25]	mg/L
Ni 232.003†	38738.5	619.71	1.60%	[5]	mg/L
Pb 220.353†	4659.3	98.01	2.10%	[1.25]	mg/L
Sb 206.836†	10406.4	210.67	2.02%	[5]	mg/L
Se 196.026†	5556.7	100.51	1.81%	[5]	mg/L
Si 251.611†	2725.9	66.08	2.42%	[5]	mg/L
Sn 189.927†	23486.8	434.01	1.85%	[5]	mg/L
Tl 190.801†	7373.2	147.22	2.00%	[5]	mg/L
V 292.402†	260870.2	3650.67	1.40%	[2.5]	mg/L
Zn 213.857†	477456.7	7810.71	1.64%	[7.5]	mg/L
Ti 334.940†	1894093.5	1490.49	0.08%	[2.5]	mg/L
B 249.772†	5886.0	150.79	2.56%	[5]	mg/L
Na 589.592†	634038.6	3161.39	0.50%	[125]	mg/L
K 766.490†	123596.5	799.74	0.65%	[125]	mg/L
Li 670.784†	130596.5	585.50	0.45%	[3.75]	mg/L
Sr 407.771†	1213167.9	3691.59	0.30%	[2.5]	mg/L

Calibration Summary

Analyte	Stds.	Equation	Intercept	Slope	Curvature	Corr. Coef.	Reslope
Ag 328.068	4	Lin Thru 0	0.0	176100	0.00000	0.999820	
Al 308.215	4	Lin Thru 0	0.0	398.6	0.00000	0.999931	
As 188.979	4	Lin Thru 0	0.0	946.5	0.00000	0.999964	
Ba 233.527	4	Lin Thru 0	0.0	86120	0.00000	0.999984	
Be 313.107	4	Lin Thru 0	0.0	1765000	0.00000	0.999960	
Ca 315.887	4	Lin Thru 0	0.0	70190	0.00000	0.999945	
Cd 214.440	4	Lin Thru 0	0.0	71380	0.00000	0.999992	
Co 228.616	4	Lin Thru 0	0.0	32110	0.00000	0.999877	
Cr 205.560	4	Lin Thru 0	0.0	24500	0.00000	0.999885	
Cu 324.752	4	Lin Thru 0	0.0	168000	0.00000	0.999778	
Fe 238.863	4	Lin Thru 0	0.0	18410	0.00000	0.999941	
Mg 279.077	4	Lin Thru 0	0.0	6982	0.00000	0.999983	

Mn 257.610	4	Lin Thru 0	0.0	667900	0.00000	0.999991
Mo 202.031	4	Lin Thru 0	0.0	11530	0.00000	0.999977
Ni 232.003	4	Lin Thru 0	0.0	7770	0.00000	0.999976
Pb 220.353	4	Lin Thru 0	0.0	3731	0.00000	0.999994
Sb 206.836	4	Lin Thru 0	0.0	2072	0.00000	0.999935
Se 196.026	4	Lin Thru 0	0.0	1108	0.00000	0.999969
Si 251.611	4	Lin Thru 0	0.0	543.5	0.00000	0.999965
Sn 189.927	4	Lin Thru 0	0.0	4683	0.00000	0.999973
Tl 190.801	4	Lin Thru 0	0.0	1477	0.00000	0.999991
V 292.402	4	Lin Thru 0	0.0	103900	0.00000	0.999947
Zn 213.857	4	Lin Thru 0	0.0	63180	0.00000	0.999829
Ti 334.940	4	Lin Thru 0	0.0	755700	0.00000	0.999979
B 249.772	4	Lin Thru 0	0.0	1171	0.00000	0.999927
Na 589.592	4	Lin Thru 0	0.0	5072	0.00000	1.000000
K 766.490	4	Lin Thru 0	0.0	979.7	0.00000	0.999736
Li 670.784	4	Lin Thru 0	0.0	34650	0.00000	0.999926
Sr 407.771	4	Lin Thru 0	0.0	485500	0.00000	0.999999

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Method Loaded
Method Name: IT11K05N **Method Last Saved: 11/5/2014 7:47:19 AM**
IEC File: 091614ICP11_IEC.iec **MSF File:**
Method Description:

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Sequence No.: 6 **Autosampler Location: 16**
Sample ID: ICV 14J27639 **Date Collected: 11/5/2014 8:13:59 AM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**
Wash Time: 150 **Auto Dilution Factor: 1**

Nebulizer Parameters: ICV 14J27639

Analyte	Back Pressure	Flow
All	194.0 kPa	0.55 L/min

Mean Data: ICV 14J27639

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 360.073	2626148.7	100.2	mg/L	1.53				1.52%
Y 360.073 R	52783.6	9.789	mg/L	0.1605				1.64%
Ag 328.068†	16932.0	0.09828	mg/L	0.002119	0.09828	mg/L	0.002119	2.16%
QC value within limits for Ag 328.068 Recovery = 98.28%								
Al 308.215†	3889.4	9.738	mg/L	0.1537	9.738	mg/L	0.1537	1.58%
QC value within limits for Al 308.215 Recovery = 97.38%								
As 188.979†	918.1	0.9682	mg/L	0.01209	0.9682	mg/L	0.01209	1.25%
QC value within limits for As 188.979 Recovery = 96.82%								
Ba 233.527†	87016.0	1.010	mg/L	0.0219	1.010	mg/L	0.0219	2.17%
QC value within limits for Ba 233.527 Recovery = 100.99%								
Be 313.107†	1757869.1	0.9957	mg/L	0.00160	0.9957	mg/L	0.00160	0.16%
QC value within limits for Be 313.107 Recovery = 99.57%								
Ca 315.887†	663189.3	9.454	mg/L	0.0236	9.454	mg/L	0.0236	0.25%
QC value within limits for Ca 315.887 Recovery = 94.54%								
Cd 214.440†	72282.9	1.012	mg/L	0.0251	1.012	mg/L	0.0251	2.48%
QC value within limits for Cd 214.440 Recovery = 101.21%								
Co 228.616†	32736.1	1.019	mg/L	0.0210	1.019	mg/L	0.0210	2.06%
QC value within limits for Co 228.616 Recovery = 101.94%								
Cr 205.560†	24608.6	1.004	mg/L	0.0208	1.004	mg/L	0.0208	2.07%
QC value within limits for Cr 205.560 Recovery = 100.43%								
Cu 324.752†	166345.2	0.9902	mg/L	0.01982	0.9902	mg/L	0.01982	2.00%
QC value within limits for Cu 324.752 Recovery = 99.02%								
Fe 238.863†	187112.2	10.17	mg/L	0.218	10.17	mg/L	0.218	2.15%
QC value within limits for Fe 238.863 Recovery = 101.65%								
Mg 279.077†	71136.7	10.18	mg/L	0.208	10.18	mg/L	0.208	2.04%
QC value within limits for Mg 279.077 Recovery = 101.81%								
Mn 257.610†	667531.2	0.9990	mg/L	0.00132	0.9990	mg/L	0.00132	0.13%
QC value within limits for Mn 257.610 Recovery = 99.90%								
Mo 202.031†	11946.7	1.037	mg/L	0.0168	1.037	mg/L	0.0168	1.62%
QC value within limits for Mo 202.031 Recovery = 103.69%								
Ni 232.003†	8305.9	1.070	mg/L	0.0175	1.070	mg/L	0.0175	1.63%
QC value greater than the upper limit for Ni 232.003 Recovery = 107.00%								
Pb 220.353†	3883.7	1.041	mg/L	0.0157	1.041	mg/L	0.0157	1.50%
QC value within limits for Pb 220.353 Recovery = 104.08%								
Sb 206.836†	2025.4	0.9807	mg/L	0.01985	0.9807	mg/L	0.01985	2.02%
QC value within limits for Sb 206.836 Recovery = 98.07%								
Se 196.026†	1067.7	0.9680	mg/L	0.01151	0.9680	mg/L	0.01151	1.19%
QC value within limits for Se 196.026 Recovery = 96.80%								
Si 251.611†	540.3	0.9945	mg/L	0.01911	0.9945	mg/L	0.01911	1.92%
QC value within limits for Si 251.611 Recovery = 99.45%								
Sn 189.927†	4651.2	0.9945	mg/L	0.01663	0.9945	mg/L	0.01663	1.67%
QC value within limits for Sn 189.927 Recovery = 99.45%								
Tl 190.801†	1507.6	1.019	mg/L	0.0213	1.019	mg/L	0.0213	2.09%
QC value within limits for Tl 190.801 Recovery = 101.90%								
V 292.402†	104842.1	1.008	mg/L	0.0200	1.008	mg/L	0.0200	1.98%
QC value within limits for V 292.402 Recovery = 100.81%								
Zn 213.857†	60888.7	0.9621	mg/L	0.02178	0.9621	mg/L	0.02178	2.26%
QC value within limits for Zn 213.857 Recovery = 96.21%								

Ti 334.940†	752062.0	0.9948 mg/L	0.00054	0.9948 mg/L	0.00054	0.05%
QC value within limits for Ti 334.940 Recovery = 99.48%						
B 249.772†	1181.6	0.9867 mg/L	0.01207	0.9867 mg/L	0.01207	1.22%
QC value within limits for B 249.772 Recovery = 98.67%						
Na 589.592†	52461.9	10.34 mg/L	0.018	10.34 mg/L	0.018	0.18%
QC value within limits for Na 589.592 Recovery = 103.40%						
K 766.490†	9472.9	9.669 mg/L	0.0333	9.669 mg/L	0.0333	0.34%
QC value within limits for K 766.490 Recovery = 96.69%						
Li 670.784†	33869.7	0.9773 mg/L	0.00383	0.9773 mg/L	0.00383	0.39%
QC value within limits for Li 670.784 Recovery = 97.73%						
Sr 407.771†	197312.4	0.4063 mg/L	0.00010	0.4063 mg/L	0.00010	0.02%
QC value within limits for Sr 407.771 Recovery = 101.57%						

QC Failed. Stop the analysis.

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Method Loaded
Method Name: IT11K05N **Method Last Saved: 11/5/2014 7:47:19 AM**
IEC File: 091614ICP11_IEC.iec **MSF File:**
Method Description:
Analysis canceled by a QC failure action: 'Stop'.

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Analysis Begun

Start Time: 11/5/2014 8:27:59 AM **Plasma On Time: 11/5/2014 6:37:50 AM**
Logged In Analyst: ICP11 **Technique: ICP Continuous**
Spectrometer: Optima 8300 , S/N 078S1402113 **Autosampler: Cetac**

Sample Information File: C:\pe\ICP11\Sample Information\110514ICP11.sif
Batch ID:
Results Data Set: 110514ICP11
Results Library: C:\pe\ICP11\Results\Results.mdb

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Sequence No.: 7 **Autosampler Location: 1**
Sample ID: ICVLL 14J27641 **Date Collected: 11/5/2014 8:28:00 AM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**
Wash Time:

Nebulizer Parameters: ICVLL 14J27641

Analyte	Back Pressure	Flow
All	195.0 kPa	0.55 L/min

Mean Data: ICVLL 14J27641

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	2635218.7	100.5	mg/L	0.77				0.76%
Y 360.073 R	54175.3	10.05	mg/L	0.083				0.83%
Ag 328.068†	2006.2	0.01141	mg/L	0.001015	0.01141	mg/L	0.001015	8.90%
QC value within limits for Ag 328.068 Recovery = 114.12%								
Al 308.215†	36.8	0.0921	mg/L	0.01591	0.0921	mg/L	0.01591	17.27%
QC value within limits for Al 308.215 Recovery = 92.12%								
As 188.979†	16.9	0.0178	mg/L	0.00059	0.0178	mg/L	0.00059	3.33%
QC value within limits for As 188.979 Recovery = 89.16%								
Ba 233.527†	460.8	0.0053	mg/L	0.00006	0.0053	mg/L	0.00006	1.08%
QC value within limits for Ba 233.527 Recovery = 106.88%								
Be 313.107†	3391.1	0.00192	mg/L	0.000023	0.00192	mg/L	0.000023	1.20%
QC value within limits for Be 313.107 Recovery = 96.04%								
Ca 315.887†	32674.6	0.4656	mg/L	0.00552	0.4656	mg/L	0.00552	1.18%
QC value within limits for Ca 315.887 Recovery = 93.11%								
Cd 214.440†	386.3	0.0054	mg/L	0.00018	0.0054	mg/L	0.00018	3.26%
QC value within limits for Cd 214.440 Recovery = 108.09%								
Co 228.616†	334.9	0.0104	mg/L	0.00008	0.0104	mg/L	0.00008	0.78%
QC value within limits for Co 228.616 Recovery = 104.26%								
Cr 205.560†	258.1	0.0105	mg/L	0.00055	0.0105	mg/L	0.00055	5.25%
QC value within limits for Cr 205.560 Recovery = 105.32%								
Cu 324.752†	3682.7	0.0219	mg/L	0.00081	0.0219	mg/L	0.00081	3.71%
QC value within limits for Cu 324.752 Recovery = 109.57%								
Fe 238.863†	2026.2	0.1101	mg/L	0.00187	0.1101	mg/L	0.00187	1.70%
QC value within limits for Fe 238.863 Recovery = 110.07%								
Mg 279.077†	746.2	0.1068	mg/L	0.00070	0.1068	mg/L	0.00070	0.65%
QC value within limits for Mg 279.077 Recovery = 106.78%								
Mn 257.610†	6657.7	0.0100	mg/L	0.00007	0.0100	mg/L	0.00007	0.66%
QC value within limits for Mn 257.610 Recovery = 99.63%								
Mo 202.031†	53.6	0.00465	mg/L	0.000354	0.00465	mg/L	0.000354	7.62%
QC value within limits for Mo 202.031 Recovery = 93.05%								
Ni 232.003†	96.9	0.0125	mg/L	0.00188	0.0125	mg/L	0.00188	15.04%
QC value within limits for Ni 232.003 Recovery = 62.45%								
Pb 220.353†	19.8	0.00532	mg/L	0.000931	0.00532	mg/L	0.000931	17.50%
QC value within limits for Pb 220.353 Recovery = 106.40%								
Sb 206.836†	32.2	0.0156	mg/L	0.00188	0.0156	mg/L	0.00188	12.05%

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   QC value within limits for Sb 206.836  Recovery = 77.93%
Se 196.026†              26.5      0.0240 mg/L       0.00547      0.0240 mg/L       0.00547  22.81%
   QC value within limits for Se 196.026  Recovery = 119.93%
Si 251.611†              97.9      0.1801 mg/L       0.00398      0.1801 mg/L       0.00398   2.21%
   QC value within limits for Si 251.611  Recovery = 90.06%
Sn 189.927†              89.3      0.0191 mg/L       0.00126      0.0191 mg/L       0.00126   6.63%
   QC value within limits for Sn 189.927  Recovery = 95.42%
Tl 190.801†              26.3      0.0178 mg/L       0.00305      0.0178 mg/L       0.00305  17.14%
   QC value within limits for Tl 190.801  Recovery = 88.85%
V 292.402†             1071.5      0.0103 mg/L       0.00077      0.0103 mg/L       0.00077   7.44%
   QC value within limits for V 292.402  Recovery = 103.02%
Zn 213.857†            1915.1      0.0303 mg/L       0.00026      0.0303 mg/L       0.00026   0.86%
   QC value within limits for Zn 213.857  Recovery = 101.01%
Ti 334.940†            7676.3      0.0102 mg/L       0.00019      0.0102 mg/L       0.00019   1.92%
   QC value within limits for Ti 334.940  Recovery = 101.56%
B 249.772†              225.7      0.1924 mg/L       0.00188      0.1924 mg/L       0.00188   0.97%
   QC value within limits for B 249.772  Recovery = 96.19%
Na 589.592†            2873.1      0.5664 mg/L       0.01274      0.5664 mg/L       0.01274   2.25%
   QC value within limits for Na 589.592  Recovery = 113.28%
K 766.490†              485.2      0.4953 mg/L       0.03726      0.4953 mg/L       0.03726   7.52%
   QC value within limits for K 766.490  Recovery = 99.05%
Li 670.784†             477.2     0.01377 mg/L      0.001241     0.01377 mg/L      0.001241   9.01%
   QC value within limits for Li 670.784  Recovery = 91.79%
Sr 407.771†            4762.6     0.00980 mg/L      0.000083     0.00980 mg/L      0.000083   0.84%
   QC value within limits for Sr 407.771  Recovery = 98.02%
All analyte(s) passed QC.
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Method Loaded
Method Name: IT11K05N **Method Last Saved: 11/5/2014 7:47:19 AM**
IEC File: 091614ICP11_IEC.iec **MSF File:**
Method Description:

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Sequence No.: 8 **Autosampler Location: 2**
Sample ID: ICB **Date Collected: 11/5/2014 8:33:00 AM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**
Wash Time: 90 **Auto Dilution Factor: 1**

Nebulizer Parameters: ICB

Analyte	Back Pressure	Flow
All	196.0 kPa	0.55 L/min

Mean Data: ICB

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 360.073	2668270.1	101.8	mg/L	0.91				0.90%
Y 360.073 R	54735.2	10.15	mg/L	0.211				2.08%
Ag 328.068†	275.6	0.00157	mg/L	0.000408	0.00157	mg/L	0.000408	26.05%
QC value within limits for Ag 328.068 Recovery = Not calculated								
Al 308.215†	-8.9	-0.0224	mg/L	0.01459	-0.0224	mg/L	0.01459	65.10%
QC value within limits for Al 308.215 Recovery = Not calculated								
As 188.979†	-5.2	-0.0054	mg/L	0.00278	-0.0054	mg/L	0.00278	51.14%
QC value within limits for As 188.979 Recovery = Not calculated								
Ba 233.527†	-1.1	-0.0000	mg/L	0.00005	-0.0000	mg/L	0.00005	400.15%
QC value within limits for Ba 233.527 Recovery = Not calculated								
Be 313.107†	-11.0	-0.00001	mg/L	0.000034	-0.00001	mg/L	0.000034	552.51%
QC value within limits for Be 313.107 Recovery = Not calculated								
Ca 315.887†	-349.4	-0.00498	mg/L	0.003045	-0.00498	mg/L	0.003045	61.19%
QC value within limits for Ca 315.887 Recovery = Not calculated								
Cd 214.440†	7.4	0.0001	mg/L	0.00001	0.0001	mg/L	0.00001	12.36%
QC value within limits for Cd 214.440 Recovery = Not calculated								
Co 228.616†	3.2	0.0001	mg/L	0.00047	0.0001	mg/L	0.00047	462.81%
QC value within limits for Co 228.616 Recovery = Not calculated								
Cr 205.560†	7.0	0.0003	mg/L	0.00054	0.0003	mg/L	0.00054	187.32%
QC value within limits for Cr 205.560 Recovery = Not calculated								
Cu 324.752†	410.4	0.0024	mg/L	0.00065	0.0024	mg/L	0.00065	26.70%
QC value within limits for Cu 324.752 Recovery = Not calculated								
Fe 238.863†	21.6	0.0012	mg/L	0.00048	0.0012	mg/L	0.00048	40.51%
QC value within limits for Fe 238.863 Recovery = Not calculated								
Mg 279.077†	1.8	0.0003	mg/L	0.00303	0.0003	mg/L	0.00303	>999.9%
QC value within limits for Mg 279.077 Recovery = Not calculated								
Mn 257.610†	86.8	0.0001	mg/L	0.00003	0.0001	mg/L	0.00003	21.83%
QC value within limits for Mn 257.610 Recovery = Not calculated								
Mo 202.031†	-1.8	-0.00016	mg/L	0.000149	-0.00016	mg/L	0.000149	93.64%
QC value within limits for Mo 202.031 Recovery = Not calculated								
Ni 232.003†	-24.2	-0.0031	mg/L	0.00161	-0.0031	mg/L	0.00161	51.66%
QC value within limits for Ni 232.003 Recovery = Not calculated								
Pb 220.353†	1.3	0.00034	mg/L	0.002067	0.00034	mg/L	0.002067	607.71%
QC value within limits for Pb 220.353 Recovery = Not calculated								
Sb 206.836†	-7.4	-0.0035	mg/L	0.00220	-0.0035	mg/L	0.00220	61.89%
QC value within limits for Sb 206.836 Recovery = Not calculated								
Se 196.026†	-4.1	-0.0037	mg/L	0.00229	-0.0037	mg/L	0.00229	61.88%
QC value within limits for Se 196.026 Recovery = Not calculated								
Si 251.611†	1.7	0.0031	mg/L	0.00412	0.0031	mg/L	0.00412	131.67%
QC value within limits for Si 251.611 Recovery = Not calculated								
Sn 189.927†	-0.8	-0.0002	mg/L	0.00088	-0.0002	mg/L	0.00088	504.05%
QC value within limits for Sn 189.927 Recovery = Not calculated								
Tl 190.801†	1.7	0.0012	mg/L	0.00417	0.0012	mg/L	0.00417	356.77%
QC value within limits for Tl 190.801 Recovery = Not calculated								
V 292.402†	65.2	0.0006	mg/L	0.00086	0.0006	mg/L	0.00086	136.43%
QC value within limits for V 292.402 Recovery = Not calculated								
Zn 213.857†	83.5	0.0013	mg/L	0.00007	0.0013	mg/L	0.00007	5.18%
QC value within limits for Zn 213.857 Recovery = Not calculated								

```
Ti 334.940†              128.7      0.0002 mg/L       0.00004      0.0002 mg/L       0.00004  21.01%
   QC value within limits for Ti 334.940  Recovery = Not calculated
B 249.772†                 8.7      0.0074 mg/L       0.00310      0.0074 mg/L       0.00310  41.75%
   QC value within limits for B 249.772  Recovery = Not calculated
Na 589.592†              205.9      0.0406 mg/L       0.01006      0.0406 mg/L       0.01006  24.78%
   QC value within limits for Na 589.592  Recovery = Not calculated
K 766.490†                53.0      0.0541 mg/L       0.04333      0.0541 mg/L       0.04333  80.03%
   QC value within limits for K 766.490  Recovery = Not calculated
Li 670.784†               99.2     0.00286 mg/L      0.001511     0.00286 mg/L      0.001511  52.76%
   QC value within limits for Li 670.784  Recovery = Not calculated
Sr 407.771†                3.1     0.00001 mg/L      0.000035     0.00001 mg/L      0.000035 539.77%
   QC value within limits for Sr 407.771  Recovery = Not calculated
All analyte(s) passed QC.
```

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Method Loaded
Method Name: IT11K05N **Method Last Saved: 11/5/2014 7:47:19 AM**
IEC File: 091614ICP11_IEC.iec **MSF File:**
Method Description:

==========

Sequence No.: 9 **Autosampler Location: 18**
Sample ID: ICSA **Date Collected: 11/5/2014 8:38:00 AM**
Analyst: 388 **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**
Wash Time: 90 **Auto Dilution Factor: 1**

Nebulizer Parameters: ICSA

Analyte	Back Pressure	Flow
All	196.0 kPa	0.55 L/min

Mean Data: ICSA

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	2367991.7	90.32	mg/L	0.763				0.84%
Y 360.073 R	50285.5	9.325	mg/L	0.1169				1.25%
Ag 328.068†	-1350.3	-0.00716	mg/L	0.000532	-0.00716	mg/L	0.000532	7.43%
Al 308.215†	203665.7	510.8	mg/L	10.12	510.8	mg/L	10.12	1.98%
As 188.979†	56.6	0.0022	mg/L	0.00553	0.0022	mg/L	0.00553	250.18%
Ba 233.527†	307.5	-0.0008	mg/L	0.00001	-0.0008	mg/L	0.00001	1.03%
Be 313.107†	-545.8	-0.00057	mg/L	0.000056	-0.00057	mg/L	0.000056	9.75%
Ca 315.887†	32870700.9	468.3	mg/L	7.59	468.3	mg/L	7.59	1.62%
Cd 214.440†	285.2	-0.0015	mg/L	0.00043	-0.0015	mg/L	0.00043	29.86%
Co 228.616†	-47.2	-0.0009	mg/L	0.00027	-0.0009	mg/L	0.00027	29.64%
Cr 205.560†	161.1	-0.0017	mg/L	0.00023	-0.0017	mg/L	0.00023	13.89%
Cu 324.752†	-1634.9	-0.0135	mg/L	0.00026	-0.0135	mg/L	0.00026	1.91%
Fe 238.863†	3482763.2	189.2	mg/L	0.61	189.2	mg/L	0.61	0.32%
Mg 279.077†	3757268.3	538.0	mg/L	1.75	538.0	mg/L	1.75	0.32%
Mn 257.610†	2777.5	-0.0188	mg/L	0.00008	-0.0188	mg/L	0.00008	0.44%
Mo 202.031†	-54.1	0.00070	mg/L	0.000724	0.00070	mg/L	0.000724	103.44%
Ni 232.003†	-179.3	0.0076	mg/L	0.00261	0.0076	mg/L	0.00261	34.42%
Pb 220.353†	-165.5	-0.00818	mg/L	0.001038	-0.00818	mg/L	0.001038	12.70%
Sb 206.836†	-0.4	-0.0060	mg/L	0.00287	-0.0060	mg/L	0.00287	48.03%
Se 196.026†	-57.5	0.0389	mg/L	0.00711	0.0389	mg/L	0.00711	18.27%
Si 251.611†	20.7	-0.0223	mg/L	0.00853	-0.0223	mg/L	0.00853	38.28%
Sn 189.927†	-53.1	0.0103	mg/L	0.00420	0.0103	mg/L	0.00420	40.66%
Tl 190.801†	6.9	-0.0036	mg/L	0.00296	-0.0036	mg/L	0.00296	83.28%
V 292.402†	1570.3	-0.0013	mg/L	0.00024	-0.0013	mg/L	0.00024	17.89%
Zn 213.857†	700.1	-0.0173	mg/L	0.00042	-0.0173	mg/L	0.00042	2.45%
Ti 334.940†	-3423.5	-0.0212	mg/L	0.00009	-0.0212	mg/L	0.00009	0.43%
B 249.772†	811.6	0.2783	mg/L	0.01300	0.2783	mg/L	0.01300	4.67%
Na 589.592†	563.6	-0.0289	mg/L	0.01008	-0.0289	mg/L	0.01008	34.84%
K 766.490†	176.1	0.1403	mg/L	0.04485	0.1403	mg/L	0.04485	31.96%
Li 670.784†	55.6	-0.00279	mg/L	0.001188	-0.00279	mg/L	0.001188	42.50%
Sr 407.771†	3656.8	0.00017	mg/L	0.000105	0.00017	mg/L	0.000105	63.52%

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Method Loaded
Method Name: IT11K05N **Method Last Saved: 11/5/2014 7:47:19 AM**
IEC File: 091614ICP11_IEC.iec **MSF File:**
Method Description:

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Sequence No.: 10 **Autosampler Location: 19**
Sample ID: ICSAB **Date Collected: 11/5/2014 8:44:05 AM**
Analyst: 388 **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**
Wash Time: 150 **Auto Dilution Factor: 1**

Nebulizer Parameters: ICSAB

Analyte	Back Pressure	Flow
All	195.0 kPa	0.55 L/min

Mean Data: ICSAB

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 360.073	2389505.4	91.14	mg/L	0.621				0.68%
Y 360.073 R	50531.2	9.371	mg/L	0.2305				2.46%
Ag 328.068†	178966.7	1.018	mg/L	0.0017	1.018	mg/L	0.0017	0.16%
Al 308.215†	204084.1	511.8	mg/L	8.79	511.8	mg/L	8.79	1.72%
As 188.979†	506.7	0.4777	mg/L	0.01289	0.4777	mg/L	0.01289	2.70%
Ba 233.527†	44132.0	0.5079	mg/L	0.00242	0.5079	mg/L	0.00242	0.48%
Be 313.107†	867425.7	0.4911	mg/L	0.00201	0.4911	mg/L	0.00201	0.41%
Ca 315.887†	32316378.1	460.5	mg/L	2.82	460.5	mg/L	2.82	0.61%
Cd 214.440†	66112.7	0.9208	mg/L	0.00307	0.9208	mg/L	0.00307	0.33%
Co 228.616†	15145.3	0.4722	mg/L	0.00181	0.4722	mg/L	0.00181	0.38%
Cr 205.560†	12176.3	0.4888	mg/L	0.00183	0.4888	mg/L	0.00183	0.37%
Cu 324.752†	80727.9	0.4768	mg/L	0.00056	0.4768	mg/L	0.00056	0.12%
Fe 238.863†	3493400.4	189.8	mg/L	0.33	189.8	mg/L	0.33	0.17%
Mg 279.077†	3764338.4	539.0	mg/L	0.98	539.0	mg/L	0.98	0.18%
Mn 257.610†	316514.5	0.4509	mg/L	0.00086	0.4509	mg/L	0.00086	0.19%
Mo 202.031†	5503.7	0.4830	mg/L	0.00373	0.4830	mg/L	0.00373	0.77%
Ni 232.003†	7737.5	1.026	mg/L	0.0067	1.026	mg/L	0.0067	0.66%
Pb 220.353†	3381.0	0.9423	mg/L	0.00713	0.9423	mg/L	0.00713	0.76%
Sb 206.836†	1032.9	0.4942	mg/L	0.00924	0.4942	mg/L	0.00924	1.87%
Se 196.026†	464.6	0.5105	mg/L	0.02047	0.5105	mg/L	0.02047	4.01%
Si 251.611†	571.2	0.9908	mg/L	0.01411	0.9908	mg/L	0.01411	1.42%
Sn 189.927†	2098.5	0.4698	mg/L	0.00604	0.4698	mg/L	0.00604	1.29%
Tl 190.801†	701.0	0.4657	mg/L	0.00445	0.4657	mg/L	0.00445	0.96%
V 292.402†	51325.4	0.4774	mg/L	0.00278	0.4774	mg/L	0.00278	0.58%
Zn 213.857†	60063.9	0.9219	mg/L	0.00075	0.9219	mg/L	0.00075	0.08%
Ti 334.940†	362364.1	0.4627	mg/L	0.00105	0.4627	mg/L	0.00105	0.23%
B 249.772†	1942.1	1.242	mg/L	0.0140	1.242	mg/L	0.0140	1.13%
Na 589.592†	563.4	-0.0284	mg/L	0.01582	-0.0284	mg/L	0.01582	55.70%
K 766.490†	182.2	0.1471	mg/L	0.14130	0.1471	mg/L	0.14130	96.07%
Li 670.784†	78.6	-0.00214	mg/L	0.000897	-0.00214	mg/L	0.000897	42.02%
Sr 407.771†	3676.5	0.00033	mg/L	0.000018	0.00033	mg/L	0.000018	5.26%

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Method Loaded
Method Name: IT11K05N **Method Last Saved: 11/5/2014 1:32:00 PM**
IEC File: 091614ICP11_IEC.iec **MSF File:**
Method Description:

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Sequence No.: 48 **Autosampler Location: 3**
Sample ID: CCV 14J27642 **Date Collected: 11/5/2014 2:42:47 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**
Wash Time: 90 **Auto Dilution Factor: 1**

Nebulizer Parameters: CCV 14J27642

Analyte	Back Pressure	Flow
All	204.0 kPa	0.55 L/min

Mean Data: CCV 14J27642

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 360.073	2695288.5	102.8 mg/L	0.31			0.30%
Y 360.073 R	55121.4	10.22 mg/L	0.106			1.03%
Ag 328.068†	169142.1	0.9623 mg/L	0.00062	0.9623 mg/L	0.00062	0.06%
QC value within limits for Ag 328.068 Recovery = 96.23%						
Al 308.215†	3952.2	9.888 mg/L	0.1594	9.888 mg/L	0.1594	1.61%
QC value within limits for Al 308.215 Recovery = 98.88%						
As 188.979†	1878.4	1.981 mg/L	0.0090	1.981 mg/L	0.0090	0.45%
QC value within limits for As 188.979 Recovery = 99.07%						
Ba 233.527†	43338.2	0.5027 mg/L	0.00056	0.5027 mg/L	0.00056	0.11%
QC value within limits for Ba 233.527 Recovery = 100.53%						
Be 313.107†	351141.8	0.1989 mg/L	0.00017	0.1989 mg/L	0.00017	0.09%
QC value within limits for Be 313.107 Recovery = 99.44%						
Ca 315.887†	3522769.9	50.19 mg/L	0.067	50.19 mg/L	0.067	0.13%
QC value within limits for Ca 315.887 Recovery = 100.39%						
Cd 214.440†	36026.4	0.5041 mg/L	0.00108	0.5041 mg/L	0.00108	0.21%
QC value within limits for Cd 214.440 Recovery = 100.81%						
Co 228.616†	33895.4	1.055 mg/L	0.0022	1.055 mg/L	0.0022	0.21%
QC value within limits for Co 228.616 Recovery = 105.53%						
Cr 205.560†	25672.4	1.048 mg/L	0.0014	1.048 mg/L	0.0014	0.13%
QC value within limits for Cr 205.560 Recovery = 104.75%						
Cu 324.752†	324497.9	1.931 mg/L	0.0022	1.931 mg/L	0.0022	0.11%
QC value within limits for Cu 324.752 Recovery = 96.55%						
Fe 238.863†	181423.0	9.855 mg/L	0.0024	9.855 mg/L	0.0024	0.02%
QC value within limits for Fe 238.863 Recovery = 98.55%						
Mg 279.077†	70026.0	10.02 mg/L	0.021	10.02 mg/L	0.021	0.21%
QC value within limits for Mg 279.077 Recovery = 100.20%						
Mn 257.610†	675117.4	1.010 mg/L	0.0007	1.010 mg/L	0.0007	0.07%
QC value within limits for Mn 257.610 Recovery = 101.03%						
Mo 202.031†	5759.2	0.5000 mg/L	0.00182	0.5000 mg/L	0.00182	0.36%
QC value within limits for Mo 202.031 Recovery = 99.99%						
Ni 232.003†	15999.5	2.061 mg/L	0.0065	2.061 mg/L	0.0065	0.32%
QC value within limits for Ni 232.003 Recovery = 103.04%						
Pb 220.353†	1889.0	0.5072 mg/L	0.00150	0.5072 mg/L	0.00150	0.30%
QC value within limits for Pb 220.353 Recovery = 101.45%						
Sb 206.836†	4064.7	1.965 mg/L	0.0058	1.965 mg/L	0.0058	0.29%
QC value within limits for Sb 206.836 Recovery = 98.25%						
Se 196.026†	2181.3	1.972 mg/L	0.0061	1.972 mg/L	0.0061	0.31%
QC value within limits for Se 196.026 Recovery = 98.60%						
Si 251.611†	1113.7	2.048 mg/L	0.0238	2.048 mg/L	0.0238	1.16%
QC value within limits for Si 251.611 Recovery = 102.41%						
Sn 189.927†	9334.6	1.995 mg/L	0.0050	1.995 mg/L	0.0050	0.25%
QC value within limits for Sn 189.927 Recovery = 99.74%						
Tl 190.801†	2983.3	2.018 mg/L	0.0037	2.018 mg/L	0.0037	0.18%
QC value within limits for Tl 190.801 Recovery = 100.88%						
V 292.402†	103571.3	0.9959 mg/L	0.00079	0.9959 mg/L	0.00079	0.08%
QC value within limits for V 292.402 Recovery = 99.59%						
Zn 213.857†	183428.8	2.903 mg/L	0.0057	2.903 mg/L	0.0057	0.20%
QC value within limits for Zn 213.857 Recovery = 96.75%						

Ti 334.940†	753322.1	0.9967 mg/L	0.00081	0.9967 mg/L	0.00081	0.08%
QC value within limits for Ti 334.940 Recovery = 99.67%						
B 249.772†	2308.0	1.949 mg/L	0.0407	1.949 mg/L	0.0407	2.09%
QC value within limits for B 249.772 Recovery = 97.44%						
Na 589.592†	260661.9	51.39 mg/L	0.055	51.39 mg/L	0.055	0.11%
QC value within limits for Na 589.592 Recovery = 102.77%						
K 766.490†	47443.4	48.42 mg/L	0.087	48.42 mg/L	0.087	0.18%
QC value within limits for K 766.490 Recovery = 96.85%						
Li 670.784†	51522.8	1.487 mg/L	0.0025	1.487 mg/L	0.0025	0.17%
QC value within limits for Li 670.784 Recovery = 99.11%						
Sr 407.771†	500921.7	1.031 mg/L	0.0020	1.031 mg/L	0.0020	0.19%
QC value within limits for Sr 407.771 Recovery = 103.10%						

All analyte(s) passed QC.

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Method Loaded
Method Name: IT11K05N **Method Last Saved: 11/5/2014 1:32:00 PM**
IEC File: 091614ICP11_IEC.iec **MSF File:**
Method Description:

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Sequence No.: 49 **Autosampler Location: 2**
Sample ID: CCB **Date Collected: 11/5/2014 2:47:44 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**
Wash Time: 90 **Auto Dilution Factor: 1**

Nebulizer Parameters: CCB

Analyte	Back Pressure	Flow
All	203.0 kPa	0.55 L/min

Mean Data: CCB

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 360.073	2812474.2	107.3	mg/L	3.05				2.84%
Y 360.073 R	57378.7	10.64	mg/L	0.069				0.64%
Ag 328.068†	672.0	0.00382	mg/L	0.000881	0.00382	mg/L	0.000881	23.09%
QC value within limits for Ag 328.068 Recovery = Not calculated								
Al 308.215†	-3.6	-0.0090	mg/L	0.01166	-0.0090	mg/L	0.01166	129.32%
QC value within limits for Al 308.215 Recovery = Not calculated								
As 188.979†	6.8	0.0072	mg/L	0.00972	0.0072	mg/L	0.00972	135.70%
QC value within limits for As 188.979 Recovery = Not calculated								
Ba 233.527†	22.2	0.0003	mg/L	0.00002	0.0003	mg/L	0.00002	5.85%
QC value within limits for Ba 233.527 Recovery = Not calculated								
Be 313.107†	153.0	0.00009	mg/L	0.000015	0.00009	mg/L	0.000015	17.23%
QC value within limits for Be 313.107 Recovery = Not calculated								
Ca 315.887†	2445.1	0.03484	mg/L	0.013958	0.03484	mg/L	0.013958	40.06%
QC value within limits for Ca 315.887 Recovery = Not calculated								
Cd 214.440†	-7.1	-0.0001	mg/L	0.00016	-0.0001	mg/L	0.00016	159.96%
QC value within limits for Cd 214.440 Recovery = Not calculated								
Co 228.616†	22.8	0.0007	mg/L	0.00019	0.0007	mg/L	0.00019	27.04%
QC value within limits for Co 228.616 Recovery = Not calculated								
Cr 205.560†	25.1	0.0010	mg/L	0.00017	0.0010	mg/L	0.00017	16.47%
QC value within limits for Cr 205.560 Recovery = Not calculated								
Cu 324.752†	663.6	0.0039	mg/L	0.00011	0.0039	mg/L	0.00011	2.91%
QC value within limits for Cu 324.752 Recovery = Not calculated								
Fe 238.863†	383.7	0.0208	mg/L	0.00035	0.0208	mg/L	0.00035	1.66%
QC value within limits for Fe 238.863 Recovery = Not calculated								
Mg 279.077†	77.0	0.0110	mg/L	0.00037	0.0110	mg/L	0.00037	3.40%
QC value within limits for Mg 279.077 Recovery = Not calculated								
Mn 257.610†	387.8	0.0006	mg/L	0.00002	0.0006	mg/L	0.00002	4.30%
QC value within limits for Mn 257.610 Recovery = Not calculated								
Mo 202.031†	-11.7	-0.00102	mg/L	0.000443	-0.00102	mg/L	0.000443	43.66%
QC value within limits for Mo 202.031 Recovery = Not calculated								
Ni 232.003†	23.2	0.0030	mg/L	0.00330	0.0030	mg/L	0.00330	110.16%
QC value within limits for Ni 232.003 Recovery = Not calculated								
Pb 220.353†	-12.6	-0.00337	mg/L	0.000414	-0.00337	mg/L	0.000414	12.28%
QC value within limits for Pb 220.353 Recovery = Not calculated								
Sb 206.836†	-14.4	-0.0069	mg/L	0.00291	-0.0069	mg/L	0.00291	41.93%
QC value within limits for Sb 206.836 Recovery = Not calculated								
Se 196.026†	-5.1	-0.0046	mg/L	0.00478	-0.0046	mg/L	0.00478	104.53%
QC value within limits for Se 196.026 Recovery = Not calculated								
Si 251.611†	1.5	0.0027	mg/L	0.00286	0.0027	mg/L	0.00286	104.72%
QC value within limits for Si 251.611 Recovery = Not calculated								
Sn 189.927†	-4.3	-0.0009	mg/L	0.00070	-0.0009	mg/L	0.00070	75.66%
QC value within limits for Sn 189.927 Recovery = Not calculated								
Tl 190.801†	0.6	0.0004	mg/L	0.00334	0.0004	mg/L	0.00334	885.68%
QC value within limits for Tl 190.801 Recovery = Not calculated								
V 292.402†	42.6	0.0004	mg/L	0.00042	0.0004	mg/L	0.00042	102.19%
QC value within limits for V 292.402 Recovery = Not calculated								
Zn 213.857†	182.4	0.0029	mg/L	0.00017	0.0029	mg/L	0.00017	5.77%
QC value within limits for Zn 213.857 Recovery = Not calculated								

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Ti 334.940†              535.1      0.0007 mg/L       0.00009      0.0007 mg/L       0.00009  12.99%
   QC value within limits for Ti 334.940  Recovery = Not calculated
B 249.772†                26.5      0.0225 mg/L       0.00286      0.0225 mg/L       0.00286  12.71%
   QC value within limits for B 249.772  Recovery = Not calculated
Na 589.592†             1610.9      0.3176 mg/L       0.02864      0.3176 mg/L       0.02864   9.02%
   QC value within limits for Na 589.592  Recovery = Not calculated
K 766.490†               164.2      0.1676 mg/L       0.02407      0.1676 mg/L       0.02407  14.36%
   QC value within limits for K 766.490  Recovery = Not calculated
Li 670.784†              148.5     0.00428 mg/L      0.000397     0.00428 mg/L      0.000397   9.27%
   QC value within limits for Li 670.784  Recovery = Not calculated
Sr 407.771†              608.9     0.00125 mg/L      0.000162     0.00125 mg/L      0.000162  12.95%
   QC value within limits for Sr 407.771  Recovery = Not calculated
All analyte(s) passed QC.
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Method Loaded
Method Name: IT11K05N **Method Last Saved: 11/5/2014 1:32:00 PM**
IEC File: 091614ICP11_IEC.iec **MSF File:**
Method Description:

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Sequence No.: 50 **Autosampler Location: 1**
Sample ID: CCVLL 14J27641 **Date Collected: 11/5/2014 2:52:45 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**
Wash Time: 90 **Auto Dilution Factor: 1**

Nebulizer Parameters: CCVLL 14J27641

Analyte	Back Pressure	Flow
All	202.0 kPa	0.55 L/min

Mean Data: CCVLL 14J27641

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 360.073	2796285.1	106.7	mg/L	1.91				1.79%
Y 360.073 R	58039.5	10.76	mg/L	0.144				1.33%
Ag 328.068†	2265.5	0.01288	mg/L	0.000694	0.01288	mg/L	0.000694	5.39%
QC value within limits for Ag 328.068 Recovery = 128.83%								
Al 308.215†	33.4	0.0835	mg/L	0.00767	0.0835	mg/L	0.00767	9.19%
QC value within limits for Al 308.215 Recovery = 83.48%								
As 188.979†	20.2	0.0213	mg/L	0.00326	0.0213	mg/L	0.00326	15.30%
QC value within limits for As 188.979 Recovery = 106.56%								
Ba 233.527†	455.3	0.0053	mg/L	0.00022	0.0053	mg/L	0.00022	4.18%
QC value within limits for Ba 233.527 Recovery = 105.62%								
Be 313.107†	3304.4	0.00187	mg/L	0.000033	0.00187	mg/L	0.000033	1.76%
QC value within limits for Be 313.107 Recovery = 93.58%								
Ca 315.887†	33513.6	0.4775	mg/L	0.00317	0.4775	mg/L	0.00317	0.66%
QC value within limits for Ca 315.887 Recovery = 95.50%								
Cd 214.440†	335.3	0.0047	mg/L	0.00039	0.0047	mg/L	0.00039	8.35%
QC value within limits for Cd 214.440 Recovery = 93.79%								
Co 228.616†	333.6	0.0104	mg/L	0.00006	0.0104	mg/L	0.00006	0.53%
QC value within limits for Co 228.616 Recovery = 103.86%								
Cr 205.560†	263.9	0.0108	mg/L	0.00049	0.0108	mg/L	0.00049	4.57%
QC value within limits for Cr 205.560 Recovery = 107.67%								
Cu 324.752†	3439.8	0.0205	mg/L	0.00056	0.0205	mg/L	0.00056	2.72%
QC value within limits for Cu 324.752 Recovery = 102.35%								
Fe 238.863†	1979.3	0.1075	mg/L	0.00273	0.1075	mg/L	0.00273	2.54%
QC value within limits for Fe 238.863 Recovery = 107.52%								
Mg 279.077†	758.5	0.1085	mg/L	0.00134	0.1085	mg/L	0.00134	1.23%
QC value within limits for Mg 279.077 Recovery = 108.55%								
Mn 257.610†	6599.6	0.0099	mg/L	0.00004	0.0099	mg/L	0.00004	0.42%
QC value within limits for Mn 257.610 Recovery = 98.76%								
Mo 202.031†	48.1	0.00417	mg/L	0.000416	0.00417	mg/L	0.000416	9.98%
QC value within limits for Mo 202.031 Recovery = 83.46%								
Ni 232.003†	154.5	0.0199	mg/L	0.00127	0.0199	mg/L	0.00127	6.38%
QC value within limits for Ni 232.003 Recovery = 99.49%								
Pb 220.353†	8.9	0.00240	mg/L	0.002311	0.00240	mg/L	0.002311	96.22%
QC value less than the lower limit for Pb 220.353 Recovery = 48.03%								
Sb 206.836†	14.8	0.0072	mg/L	0.00050	0.0072	mg/L	0.00050	6.98%
QC value less than the lower limit for Sb 206.836 Recovery = 35.90%								
Se 196.026†	20.3	0.0184	mg/L	0.00770	0.0184	mg/L	0.00770	41.90%
QC value within limits for Se 196.026 Recovery = 91.83%								
Si 251.611†	97.9	0.1801	mg/L	0.01202	0.1801	mg/L	0.01202	6.67%
QC value within limits for Si 251.611 Recovery = 90.03%								
Sn 189.927†	82.9	0.0177	mg/L	0.00120	0.0177	mg/L	0.00120	6.80%
QC value within limits for Sn 189.927 Recovery = 88.60%								
Tl 190.801†	29.2	0.0197	mg/L	0.00340	0.0197	mg/L	0.00340	17.24%
QC value within limits for Tl 190.801 Recovery = 98.70%								
V 292.402†	997.6	0.0096	mg/L	0.00007	0.0096	mg/L	0.00007	0.68%
QC value within limits for V 292.402 Recovery = 95.91%								
Zn 213.857†	1935.5	0.0306	mg/L	0.00076	0.0306	mg/L	0.00076	2.48%
QC value within limits for Zn 213.857 Recovery = 102.08%								

Ti 334.940†	7693.5	0.0102 mg/L	0.00020	0.0102 mg/L	0.00020	2.00%
QC value within limits for Ti 334.940 Recovery = 101.79%						
B 249.772†	221.9	0.1892 mg/L	0.00348	0.1892 mg/L	0.00348	1.84%
QC value within limits for B 249.772 Recovery = 94.58%						
Na 589.592†	3389.0	0.6681 mg/L	0.00653	0.6681 mg/L	0.00653	0.98%
QC value within limits for Na 589.592 Recovery = 133.63%						
K 766.490†	406.7	0.4151 mg/L	0.05091	0.4151 mg/L	0.05091	12.26%
QC value within limits for K 766.490 Recovery = 83.03%						
Li 670.784†	480.3	0.01386 mg/L	0.000406	0.01386 mg/L	0.000406	2.93%
QC value within limits for Li 670.784 Recovery = 92.39%						
Sr 407.771†	4809.5	0.00990 mg/L	0.000073	0.00990 mg/L	0.000073	0.74%
QC value within limits for Sr 407.771 Recovery = 98.99%						

QC Failed. Stop the analysis.

==========

Analysis Begun

Start Time: 11/5/2014 3:06:51 PM **Plasma On Time: 11/5/2014 6:37:50 AM**
Logged In Analyst: ICP11 **Technique: ICP Continuous**
Spectrometer: Optima 8300 , S/N 078S1402113 **Autosampler: Cetac**

Sample Information File: C:\pe\ICP11\Sample Information\110514ICP11.sif
Batch ID:
Results Data Set: 110514ICP11
Results Library: C:\pe\ICP11\Results\Results.mdb

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Method Loaded
Method Name: IT11K05N **Method Last Saved: 11/5/2014 3:06:19 PM**
IEC File: 091614ICP11_IEC.iec **MSF File:**
Method Description:

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Sequence No.: 1 **Autosampler Location: 16**
Sample ID: ICV 14J27639 **Date Collected: 11/5/2014 3:06:54 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**
Wash Time:
User canceled analysis.

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Analysis Begun

Start Time: 11/5/2014 3:07:05 PM **Plasma On Time: 11/5/2014 6:37:50 AM**
Logged In Analyst: ICP11 **Technique: ICP Continuous**
Spectrometer: Optima 8300 , S/N 078S1402113 **Autosampler: Cetac**

Sample Information File: C:\pe\ICP11\Sample Information\110514ICP11.sif
Batch ID:
Results Data Set: 110514ICP11
Results Library: C:\pe\ICP11\Results\Results.mdb

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Sequence No.: 64 **Autosampler Location: 71**
Sample ID: BLANK WG752582 **Date Collected: 11/5/2014 3:07:05 PM**
Analyst: 388 **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol: 45 mL**
Dilution: **Sample Prep Vol: 50 mL**
Wash Time:

Nebulizer Parameters: BLANK WG752582

Analyte	Back Pressure	Flow
All	202.0 kPa	0.55 L/min

Mean Data: BLANK WG752582

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	2853970.1	108.9	mg/L	1.24				1.14%
Y 360.073 R	57658.6	10.69	mg/L	0.192				1.80%
Ag 328.068†	605.9	0.00344	mg/L	0.000319	0.00383	mg/L	0.000355	9.27%
Al 308.215†	-8.4	-0.0210	mg/L	0.00239	-0.0233	mg/L	0.00265	11.36%
As 188.979†	7.5	0.0079	mg/L	0.00479	0.0088	mg/L	0.00532	60.26%
Ba 233.527†	32.0	0.0004	mg/L	0.00007	0.0004	mg/L	0.00007	17.62%
Be 313.107†	15.3	0.00001	mg/L	0.000042	0.00001	mg/L	0.000047	488.87%
Ca 315.887†	574.2	0.00819	mg/L	0.005002	0.00910	mg/L	0.005558	61.11%
Cd 214.440†	-61.4	-0.0009	mg/L	0.00015	-0.0010	mg/L	0.00016	17.10%
Co 228.616†	33.6	0.0010	mg/L	0.00018	0.0012	mg/L	0.00020	16.86%
Cr 205.560†	15.2	0.0006	mg/L	0.00006	0.0007	mg/L	0.00006	9.32%
Cu 324.752†	595.7	0.0035	mg/L	0.00073	0.0039	mg/L	0.00081	20.66%
Fe 238.863†	502.2	0.0273	mg/L	0.00024	0.0303	mg/L	0.00026	0.87%
Mg 279.077†	7.8	0.0011	mg/L	0.00057	0.0012	mg/L	0.00063	51.47%
Mn 257.610†	1465.0	0.0022	mg/L	0.00007	0.0024	mg/L	0.00008	3.42%

Mo 202.031†	-16.2	-0.00141	mg/L	0.000487	-0.00156	mg/L	0.000541	34.62%
Ni 232.003†	76.7	0.0099	mg/L	0.00147	0.0110	mg/L	0.00163	14.84%
Pb 220.353†	-16.1	-0.00432	mg/L	0.000927	-0.00481	mg/L	0.001030	21.44%
Sb 206.836†	-11.7	-0.0056	mg/L	0.00093	-0.0063	mg/L	0.00104	16.55%
Se 196.026†	-9.8	-0.0088	mg/L	0.00719	-0.0098	mg/L	0.00799	81.58%
Si 251.611†	-4.5	-0.0083	mg/L	0.00666	-0.0092	mg/L	0.00740	80.34%
Sn 189.927†	8.3	0.0018	mg/L	0.00092	0.0020	mg/L	0.00102	51.65%
Tl 190.801†	1.9	0.0013	mg/L	0.00321	0.0014	mg/L	0.00357	251.10%
V 292.402†	86.5	0.0008	mg/L	0.00024	0.0009	mg/L	0.00026	28.68%
Zn 213.857†	177.6	0.0028	mg/L	0.00012	0.0031	mg/L	0.00013	4.26%
Ti 334.940†	193.1	0.0003	mg/L	0.00003	0.0003	mg/L	0.00004	13.55%
B 249.772†	7.4	0.0063	mg/L	0.00366	0.0070	mg/L	0.00407	58.31%
Na 589.592†	1014.1	0.2000	mg/L	0.02599	0.2222	mg/L	0.02888	13.00%
K 766.490†	90.9	0.0928	mg/L	0.03067	0.1031	mg/L	0.03408	33.06%
Li 670.784†	802.1	0.02314	mg/L	0.000844	0.02572	mg/L	0.000937	3.64%
Sr 407.771†	56.5	0.00012	mg/L	0.000057	0.00013	mg/L	0.000063	48.65%

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Method Loaded
Method Name: IT11K05N **Method Last Saved: 11/5/2014 3:06:19 PM**
IEC File: 091614ICP11_IEC.iec **MSF File:**
Method Description:
User canceled analysis.

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Analysis Begun

Start Time: 11/5/2014 3:11:21 PM **Plasma On Time: 11/5/2014 6:37:50 AM**
Logged In Analyst: ICP11 **Technique: ICP Continuous**
Spectrometer: Optima 8300 , S/N 078S1402113 **Autosampler: Cetac**

Sample Information File: C:\pe\ICP11\Sample Information\110514ICP11.sif
Batch ID:
Results Data Set: 110514ICP11
Results Library: C:\pe\ICP11\Results\Results.mdb

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Sequence No.: 1 **Autosampler Location: 16**
Sample ID: ICV 14J27639 **Date Collected: 11/5/2014 3:11:24 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**
Wash Time:
User canceled analysis.

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Analysis Begun

Start Time: 11/5/2014 3:11:39 PM **Plasma On Time: 11/5/2014 6:37:50 AM**
Logged In Analyst: ICP11 **Technique: ICP Continuous**
Spectrometer: Optima 8300 , S/N 078S1402113 **Autosampler: Cetac**

Sample Information File: C:\pe\ICP11\Sample Information\110514ICP11.sif
Batch ID:
Results Data Set: 110514ICP11
Results Library: C:\pe\ICP11\Results\Results.mdb

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Sequence No.: 65 **Autosampler Location: 72**
Sample ID: LCS WG752582 **Date Collected: 11/5/2014 3:11:40 PM**
Analyst: 388 **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol: 45 mL**
Dilution: **Sample Prep Vol: 50 mL**
Wash Time:

Nebulizer Parameters: LCS WG752582

Analyte	Back Pressure	Flow
All	202.0 kPa	0.55 L/min

Mean Data: LCS WG752582

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 360.073	2774142.8	105.8	mg/L	1.11				1.05%
Y 360.073 R	55610.2	10.31	mg/L	0.129				1.25%
Ag 328.068†	162556.1	0.9247	mg/L	0.01740	1.027	mg/L	0.0193	1.88%
Al 308.215†	384.5	0.9466	mg/L	0.02573	1.052	mg/L	0.0286	2.72%
As 188.979†	885.9	0.9350	mg/L	0.02040	1.039	mg/L	0.0227	2.18%
Ba 233.527†	80906.8	0.9391	mg/L	0.02019	1.043	mg/L	0.0224	2.15%
Be 313.107†	1671251.4	0.9467	mg/L	0.00195	1.052	mg/L	0.0022	0.21%
Ca 315.887†	619579.9	8.831	mg/L	0.0190	9.812	mg/L	0.0212	0.22%
Cd 214.440†	66534.2	0.9321	mg/L	0.02200	1.036	mg/L	0.0244	2.36%
Co 228.616†	30669.0	0.9550	mg/L	0.02225	1.061	mg/L	0.0247	2.33%
Cr 205.560†	22425.1	0.9153	mg/L	0.01836	1.017	mg/L	0.0204	2.01%
Cu 324.752†	151665.7	0.9024	mg/L	0.01767	1.003	mg/L	0.0196	1.96%
Fe 238.863†	17255.7	0.9372	mg/L	0.01947	1.041	mg/L	0.0216	2.08%
Mg 279.077†	66801.4	9.566	mg/L	0.2010	10.63	mg/L	0.223	2.10%
Mn 257.610†	617840.6	0.9247	mg/L	0.00327	1.027	mg/L	0.0036	0.35%
Mo 202.031†	11017.5	0.9559	mg/L	0.01415	1.062	mg/L	0.0157	1.48%
Ni 232.003†	7692.9	0.9905	mg/L	0.01253	1.101	mg/L	0.0139	1.27%
Pb 220.353†	3589.7	0.9626	mg/L	0.01586	1.070	mg/L	0.0176	1.65%
Sb 206.836†	1896.9	0.9184	mg/L	0.01707	1.020	mg/L	0.0190	1.86%
Se 196.026†	1027.3	0.9270	mg/L	0.02348	1.030	mg/L	0.0261	2.53%
Si 251.611†	498.8	0.9164	mg/L	0.02206	1.018	mg/L	0.0245	2.41%

Sn 189.927†	4110.3	0.8778	mg/L	0.01482	0.9753	mg/L	0.01647	1.69%
Tl 190.801†	1425.5	0.9634	mg/L	0.01103	1.070	mg/L	0.0123	1.15%
V 292.402†	99345.6	0.9559	mg/L	0.01946	1.062	mg/L	0.0216	2.04%
Zn 213.857†	54366.7	0.8603	mg/L	0.01653	0.9559	mg/L	0.01836	1.92%
Ti 334.940†	671312.4	0.8880	mg/L	0.00324	0.9866	mg/L	0.00360	0.36%
B 249.772†	1050.2	0.8945	mg/L	0.02827	0.9939	mg/L	0.03141	3.16%
Na 589.592†	48967.4	9.653	mg/L	0.0151	10.73	mg/L	0.017	0.16%
K 766.490†	8508.3	8.684	mg/L	0.0177	9.649	mg/L	0.0197	0.20%
Li 670.784†	32537.0	0.9388	mg/L	0.00370	1.043	mg/L	0.0041	0.39%
Sr 407.771†	458489.4	0.9442	mg/L	0.00271	1.049	mg/L	0.0030	0.29%

Method Loaded
Method Name: IT11K05N **Method Last Saved: 11/5/2014 3:06:19 PM**
IEC File: 091614ICP11_IEC.iec **MSF File:**
Method Description:

Sequence No.: 66 **Autosampler Location: 73**
Sample ID: LCSD WG752582 **Date Collected: 11/5/2014 3:16:41 PM**
Analyst: 388 **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol: 45 mL**
Dilution: **Sample Prep Vol: 50 mL**
Wash Time: 90 **Auto Dilution Factor: 1**

Nebulizer Parameters: LCSD WG752582

Analyte	Back Pressure	Flow
All	202.0 kPa	0.55 L/min

Mean Data: LCSD WG752582

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 360.073	2747930.2	104.8	mg/L	0.84				0.81%
Y 360.073 R	56476.4	10.47	mg/L	0.291				2.77%
Ag 328.068†	164543.2	0.9361	mg/L	0.00926	1.040	mg/L	0.0103	0.99%
Al 308.215†	379.0	0.9327	mg/L	0.01219	1.036	mg/L	0.0135	1.31%
As 188.979†	903.7	0.9538	mg/L	0.01259	1.060	mg/L	0.0140	1.32%
Ba 233.527†	81760.5	0.9490	mg/L	0.00967	1.054	mg/L	0.0107	1.02%
Be 313.107†	1677680.3	0.9503	mg/L	0.00246	1.056	mg/L	0.0027	0.26%
Ca 315.887†	623182.1	8.882	mg/L	0.0165	9.869	mg/L	0.0184	0.19%
Cd 214.440†	67276.9	0.9425	mg/L	0.01024	1.047	mg/L	0.0114	1.09%
Co 228.616†	31008.6	0.9656	mg/L	0.01158	1.073	mg/L	0.0129	1.20%
Cr 205.560†	22669.7	0.9253	mg/L	0.01254	1.028	mg/L	0.0139	1.35%
Cu 324.752†	153465.2	0.9131	mg/L	0.00889	1.015	mg/L	0.0099	0.97%
Fe 238.863†	17264.0	0.9377	mg/L	0.01113	1.042	mg/L	0.0124	1.19%
Mg 279.077†	67590.9	9.679	mg/L	0.1014	10.75	mg/L	0.113	1.05%
Mn 257.610†	624160.1	0.9342	mg/L	0.00245	1.038	mg/L	0.0027	0.26%
Mo 202.031†	11227.2	0.9741	mg/L	0.01232	1.082	mg/L	0.0137	1.27%
Ni 232.003†	7827.9	1.008	mg/L	0.0137	1.120	mg/L	0.0152	1.36%
Pb 220.353†	3648.8	0.9784	mg/L	0.01530	1.087	mg/L	0.0170	1.56%
Sb 206.836†	1932.1	0.9354	mg/L	0.01089	1.039	mg/L	0.0121	1.16%
Se 196.026†	1047.7	0.9454	mg/L	0.01312	1.050	mg/L	0.0146	1.39%
Si 251.611†	511.3	0.9395	mg/L	0.02131	1.044	mg/L	0.0237	2.27%
Sn 189.927†	4189.7	0.8947	mg/L	0.01295	0.9941	mg/L	0.01439	1.45%
Tl 190.801†	1452.1	0.9814	mg/L	0.01411	1.090	mg/L	0.0157	1.44%
V 292.402†	100567.9	0.9677	mg/L	0.01019	1.075	mg/L	0.0113	1.05%
Zn 213.857†	54767.9	0.8667	mg/L	0.00946	0.9630	mg/L	0.01051	1.09%
Ti 334.940†	676863.0	0.8953	mg/L	0.00214	0.9948	mg/L	0.00238	0.24%
B 249.772†	1069.8	0.9113	mg/L	0.01325	1.013	mg/L	0.0147	1.45%
Na 589.592†	48853.9	9.631	mg/L	0.0661	10.70	mg/L	0.073	0.69%
K 766.490†	8447.4	8.622	mg/L	0.1003	9.580	mg/L	0.1114	1.16%
Li 670.784†	32506.5	0.9379	mg/L	0.00471	1.042	mg/L	0.0052	0.50%
Sr 407.771†	458521.4	0.9443	mg/L	0.00407	1.049	mg/L	0.0045	0.43%

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Method Loaded
Method Name: IT11K05N **Method Last Saved: 11/5/2014 3:06:19 PM**
IEC File: 091614ICP11_IEC.iec **MSF File:**
Method Description:

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Sequence No.: 67 **Autosampler Location: 74**
Sample ID: L729800-02 WG752582 **Date Collected: 11/5/2014 3:21:44 PM**
Analyst: 388 **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol: 45 mL**
Dilution: 5X **Sample Prep Vol: 50 mL**
Wash Time: 90 **Auto Dilution Factor: 1**

Nebulizer Parameters: L729800-02 WG752582

Analyte	Back Pressure	Flow
All	202.0 kPa	0.55 L/min

Mean Data: L729800-02 WG752582

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 360.073	2656818.3	101.3	mg/L	3.44				3.40%
Y 360.073 R	56371.7	10.45	mg/L	0.096				0.91%
Ag 328.068†	556.6	0.00193	mg/L	0.000308	0.01074	mg/L	0.001708	15.90%
Al 308.215†	-7.2	-0.0536	mg/L	0.02824	-0.2977	mg/L	0.15689	52.71%
As 188.979†	9.0	0.0041	mg/L	0.00318	0.0226	mg/L	0.01767	78.04%
Ba 233.527†	437.4	0.0049	mg/L	0.00015	0.0271	mg/L	0.00081	2.99%
Be 313.107†	434.3	0.00017	mg/L	0.000051	0.00094	mg/L	0.000285	30.41%
Ca 315.887†	9803779.9	139.7	mg/L	1.85	776.0	mg/L	10.30	1.33%
Cd 214.440†	-54.3	-0.0010	mg/L	0.00036	-0.0057	mg/L	0.00202	35.33%
Co 228.616†	46.9	0.0009	mg/L	0.00053	0.0051	mg/L	0.00294	58.09%
Cr 205.560†	59.2	0.0015	mg/L	0.00012	0.0082	mg/L	0.00066	8.00%
Cu 324.752†	312.9	-0.0006	mg/L	0.00085	-0.0032	mg/L	0.00471	147.17%
Fe 238.863†	290.3	0.0117	mg/L	0.00071	0.0648	mg/L	0.00393	6.06%
Mg 279.077†	688848.9	98.65	mg/L	2.797	548.0	mg/L	15.54	2.83%
Mn 257.610†	72733.5	0.1054	mg/L	0.00155	0.5858	mg/L	0.00863	1.47%
Mo 202.031†	127.7	0.01048	mg/L	0.000656	0.05820	mg/L	0.003642	6.26%
Ni 232.003†	40.2	0.0081	mg/L	0.00363	0.0451	mg/L	0.02017	44.76%
Pb 220.353†	-10.1	0.00173	mg/L	0.001953	0.00960	mg/L	0.010851	113.08%
Sb 206.836†	-6.4	-0.0034	mg/L	0.00106	-0.0187	mg/L	0.00590	31.57%
Se 196.026†	15.0	0.0093	mg/L	0.00255	0.0518	mg/L	0.01419	27.40%
Si 251.611†	957.3	1.745	mg/L	0.0538	9.693	mg/L	0.2991	3.09%
Sn 189.927†	0.7	0.0001	mg/L	0.00159	0.0005	mg/L	0.00885	>999.9%
Tl 190.801†	-2.5	-0.0027	mg/L	0.00108	-0.0151	mg/L	0.00601	39.80%
V 292.402†	195.0	0.0014	mg/L	0.00030	0.0078	mg/L	0.00168	21.62%
Zn 213.857†	-406.5	-0.0037	mg/L	0.00043	-0.0205	mg/L	0.00241	11.78%
Ti 334.940†	-694.0	-0.0036	mg/L	0.00007	-0.0199	mg/L	0.00039	1.95%
B 249.772†	67.5	0.0572	mg/L	0.00233	0.3177	mg/L	0.01296	4.08%
Na 589.592†	1816639.0	358.2	mg/L	10.91	1990	mg/L	60.59	3.04%
K 766.490†	2206.5	2.246	mg/L	0.1458	12.48	mg/L	0.810	6.49%
Li 670.784†	1028.0	0.02897	mg/L	0.000542	0.1609	mg/L	0.00301	1.87%
Sr 407.771†	1219953.6	2.511	mg/L	0.0772	13.95	mg/L	0.429	3.08%

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Method Loaded
Method Name: IT11K05N **Method Last Saved: 11/5/2014 3:06:19 PM**
IEC File: 091614ICP11_IEC.iec **MSF File:**
Method Description:

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Sequence No.: 68 **Autosampler Location: 75**
Sample ID: SD L729800-02 WG752582 **Date Collected: 11/5/2014 3:26:58 PM**
Analyst: 388 **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol: 45 mL**
Dilution: 5X **Sample Prep Vol: 50 mL**
Wash Time: 90 **Auto Dilution Factor: 1**

Nebulizer Parameters: SD L729800-02 WG752582

Analyte	Back Pressure	Flow
All	203.0 kPa	0.55 L/min

Mean Data: SD L729800-02 WG752582

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 360.073	2713832.3	103.5	mg/L	1.73				1.68%
Y 360.073 R	55276.4	10.25	mg/L	0.155				1.51%
Ag 328.068†	541.3	0.00284	mg/L	0.000972	0.01576	mg/L	0.005402	34.28%
Al 308.215†	-2.7	-0.0137	mg/L	0.01355	-0.0761	mg/L	0.07527	98.89%
As 188.979†	0.6	-0.0004	mg/L	0.00544	-0.0021	mg/L	0.03022	>999.9%
Ba 233.527†	92.0	0.0010	mg/L	0.00004	0.0057	mg/L	0.00021	3.69%
Be 313.107†	102.1	0.00004	mg/L	0.000030	0.00024	mg/L	0.000166	70.10%
Ca 315.887†	1868688.5	26.62	mg/L	0.047	147.9	mg/L	0.26	0.18%
Cd 214.440†	-32.7	-0.0005	mg/L	0.00010	-0.0028	mg/L	0.00057	20.29%
Co 228.616†	22.8	0.0006	mg/L	0.00047	0.0034	mg/L	0.00260	77.33%
Cr 205.560†	30.5	0.0011	mg/L	0.00004	0.0059	mg/L	0.00024	4.03%
Cu 324.752†	185.0	0.0006	mg/L	0.00023	0.0035	mg/L	0.00129	36.85%
Fe 238.863†	92.6	0.0042	mg/L	0.00034	0.0235	mg/L	0.00191	8.12%
Mg 279.077†	137782.7	19.73	mg/L	0.142	109.6	mg/L	0.79	0.72%
Mn 257.610†	14155.1	0.0205	mg/L	0.00025	0.1139	mg/L	0.00139	1.22%
Mo 202.031†	30.0	0.00248	mg/L	0.001110	0.01380	mg/L	0.006169	44.69%
Ni 232.003†	8.4	0.0016	mg/L	0.00237	0.0091	mg/L	0.01315	143.91%
Pb 220.353†	-8.9	-0.00153	mg/L	0.001420	-0.00852	mg/L	0.007887	92.55%
Sb 206.836†	-10.3	-0.0050	mg/L	0.00243	-0.0280	mg/L	0.01352	48.32%
Se 196.026†	-4.1	-0.0045	mg/L	0.01485	-0.0250	mg/L	0.08249	330.59%
Si 251.611†	192.2	0.3503	mg/L	0.01076	1.946	mg/L	0.0598	3.07%
Sn 189.927†	1.2	0.0002	mg/L	0.00180	0.0013	mg/L	0.01002	788.00%
Tl 190.801†	-0.1	-0.0002	mg/L	0.00214	-0.0013	mg/L	0.01189	923.15%
V 292.402†	43.4	0.0003	mg/L	0.00035	0.0018	mg/L	0.00195	109.15%
Zn 213.857†	-239.3	-0.0033	mg/L	0.00020	-0.0182	mg/L	0.00110	6.05%
Ti 334.940†	-61.2	-0.0006	mg/L	0.00009	-0.0035	mg/L	0.00048	13.94%
B 249.772†	19.2	0.0163	mg/L	0.00360	0.0903	mg/L	0.02001	22.15%
Na 589.592†	401518.7	79.16	mg/L	0.178	439.8	mg/L	0.99	0.22%
K 766.490†	493.8	0.5028	mg/L	0.04953	2.793	mg/L	0.2752	9.85%
Li 670.784†	292.9	0.00831	mg/L	0.001690	0.04619	mg/L	0.009391	20.33%
Sr 407.771†	267901.9	0.5514	mg/L	0.00064	3.063	mg/L	0.0035	0.12%

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Method Loaded
Method Name: IT11K05N **Method Last Saved: 11/5/2014 3:06:19 PM**
IEC File: 091614ICP11_IEC.iec **MSF File:**
Method Description:

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Sequence No.: 69 **Autosampler Location: 76**
Sample ID: PS L729800-02 WG752582 **Date Collected: 11/5/2014 3:31:59 PM**
Analyst: 388 **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol: 45 mL**
Dilution: 25X **Sample Prep Vol: 50 mL**
Wash Time: 90 **Auto Dilution Factor: 1**

Nebulizer Parameters: PS L729800-02 WG752582

Analyte	Back Pressure	Flow
All	202.0 kPa	0.55 L/min

Mean Data: PS L729800-02 WG752582

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 360.073	2574557.2	98.19	mg/L	1.101				1.12%
Y 360.073 R	53905.5	9.997	mg/L	0.0362				0.36%
Ag 328.068†	169654.6	0.9639	mg/L	0.01259	26.78	mg/L	0.350	1.31%
Al 308.215†	402.5	0.9565	mg/L	0.00581	26.57	mg/L	0.161	0.61%
As 188.979†	951.0	0.9985	mg/L	0.01427	27.74	mg/L	0.396	1.43%
Ba 233.527†	82333.2	0.9555	mg/L	0.01872	26.54	mg/L	0.520	1.96%
Be 313.107†	1688200.2	0.9562	mg/L	0.00267	26.56	mg/L	0.074	0.28%
Ca 315.887†	10217602.8	145.6	mg/L	1.28	4044	mg/L	35.57	0.88%
Cd 214.440†	67001.8	0.9384	mg/L	0.01995	26.07	mg/L	0.554	2.13%
Co 228.616†	30612.0	0.9527	mg/L	0.01998	26.46	mg/L	0.555	2.10%
Cr 205.560†	22687.4	0.9251	mg/L	0.01459	25.70	mg/L	0.405	1.58%
Cu 324.752†	158724.8	0.9420	mg/L	0.01756	26.17	mg/L	0.488	1.86%
Fe 238.863†	17237.5	0.9323	mg/L	0.01643	25.90	mg/L	0.456	1.76%
Mg 279.077†	734101.8	105.1	mg/L	0.49	2920	mg/L	13.73	0.47%
Mn 257.610†	694237.5	1.036	mg/L	0.0028	28.77	mg/L	0.077	0.27%
Mo 202.031†	11498.0	0.9970	mg/L	0.01396	27.69	mg/L	0.388	1.40%
Ni 232.003†	7986.5	1.031	mg/L	0.0094	28.64	mg/L	0.262	0.92%
Pb 220.353†	3561.2	0.9593	mg/L	0.01171	26.65	mg/L	0.325	1.22%
Sb 206.836†	2029.4	0.9822	mg/L	0.01315	27.28	mg/L	0.365	1.34%
Se 196.026†	1095.2	0.9842	mg/L	0.00660	27.34	mg/L	0.183	0.67%
Si 251.611†	1604.1	2.934	mg/L	0.0262	81.50	mg/L	0.728	0.89%
Sn 189.927†	4261.3	0.9099	mg/L	0.01161	25.28	mg/L	0.322	1.28%
Tl 190.801†	1365.6	0.9218	mg/L	0.01210	25.60	mg/L	0.336	1.31%
V 292.402†	102519.5	0.9860	mg/L	0.01780	27.39	mg/L	0.494	1.80%
Zn 213.857†	57637.2	0.9148	mg/L	0.01864	25.41	mg/L	0.518	2.04%
Ti 334.940†	688116.5	0.9076	mg/L	0.00241	25.21	mg/L	0.067	0.27%
B 249.772†	1176.5	1.002	mg/L	0.0070	27.83	mg/L	0.196	0.70%
Na 589.592†	1998995.1	394.1	mg/L	7.76	10950	mg/L	215.64	1.97%
K 766.490†	12702.8	12.96	mg/L	0.063	360.0	mg/L	1.76	0.49%
Li 670.784†	35782.7	1.032	mg/L	0.0019	28.66	mg/L	0.052	0.18%
Sr 407.771†	1779598.4	3.663	mg/L	0.0765	101.8	mg/L	2.13	2.09%

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Method Loaded
Method Name: IT11K05N **Method Last Saved: 11/5/2014 3:06:19 PM**
IEC File: 091614ICP11_IEC.iec **MSF File:**
Method Description:

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Sequence No.: 70 **Autosampler Location: 77**
Sample ID: MS L729800-02 WG752582 **Date Collected: 11/5/2014 3:37:14 PM**
Analyst: 388 **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol: 45 mL**
Dilution: 5X **Sample Prep Vol: 50 mL**
Wash Time: 90 **Auto Dilution Factor: 1**

Nebulizer Parameters: MS L729800-02 WG752582

Analyte	Back Pressure	Flow
All	203.0 kPa	0.55 L/min

Mean Data: MS L729800-02 WG752582

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 360.073	2542427.7	96.97	mg/L	1.273				1.31%
Y 360.073 R	55268.4	10.25	mg/L	0.194				1.89%
Ag 328.068†	32244.5	0.1822	mg/L	0.00303	1.012	mg/L	0.0168	1.66%
Al 308.215†	79.9	0.1622	mg/L	0.01710	0.9011	mg/L	0.09500	10.54%
As 188.979†	193.2	0.1986	mg/L	0.00700	1.104	mg/L	0.0389	3.52%
Ba 233.527†	17103.8	0.1983	mg/L	0.00195	1.102	mg/L	0.0108	0.98%
Be 313.107†	313483.9	0.1775	mg/L	0.00052	0.9861	mg/L	0.00291	0.30%
Ca 315.887†	9722549.4	138.5	mg/L	1.58	769.5	mg/L	8.79	1.14%
Cd 214.440†	12639.2	0.1768	mg/L	0.00377	0.9823	mg/L	0.02093	2.13%
Co 228.616†	6147.6	0.1909	mg/L	0.00196	1.061	mg/L	0.0109	1.03%
Cr 205.560†	4603.6	0.1870	mg/L	0.00142	1.039	mg/L	0.0079	0.76%
Cu 324.752†	30329.4	0.1781	mg/L	0.00310	0.9893	mg/L	0.01724	1.74%
Fe 238.863†	3467.7	0.1843	mg/L	0.00212	1.024	mg/L	0.0118	1.15%
Mg 279.077†	688063.4	98.54	mg/L	0.302	547.4	mg/L	1.68	0.31%
Mn 257.610†	193024.0	0.2855	mg/L	0.00493	1.586	mg/L	0.0274	1.73%
Mo 202.031†	2247.9	0.1944	mg/L	0.00282	1.080	mg/L	0.0157	1.45%
Ni 232.003†	1488.9	0.1946	mg/L	0.00143	1.081	mg/L	0.0079	0.73%
Pb 220.353†	676.4	0.1857	mg/L	0.00431	1.032	mg/L	0.0239	2.32%
Sb 206.836†	380.5	0.1840	mg/L	0.00478	1.022	mg/L	0.0266	2.60%
Se 196.026†	232.7	0.2059	mg/L	0.00942	1.144	mg/L	0.0524	4.58%
Si 251.611†	1161.2	2.120	mg/L	0.0422	11.78	mg/L	0.234	1.99%
Sn 189.927†	812.5	0.1734	mg/L	0.00162	0.9636	mg/L	0.00901	0.94%
Tl 190.801†	259.2	0.1741	mg/L	0.00590	0.9673	mg/L	0.03278	3.39%
V 292.402†	19226.5	0.1845	mg/L	0.00290	1.025	mg/L	0.0161	1.57%
Zn 213.857†	10571.0	0.1700	mg/L	0.00230	0.9443	mg/L	0.01275	1.35%
Ti 334.940†	132164.9	0.1722	mg/L	0.00322	0.9567	mg/L	0.01789	1.87%
B 249.772†	281.1	0.2392	mg/L	0.00673	1.329	mg/L	0.0374	2.81%
Na 589.592†	1925617.9	379.7	mg/L	5.54	2109	mg/L	30.76	1.46%
K 766.490†	4355.0	4.439	mg/L	0.0949	24.66	mg/L	0.527	2.14%
Li 670.784†	7526.1	0.2165	mg/L	0.00145	1.203	mg/L	0.0081	0.67%
Sr 407.771†	1374945.5	2.830	mg/L	0.0439	15.72	mg/L	0.244	1.55%

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Method Loaded
Method Name: IT11K05N **Method Last Saved: 11/5/2014 3:06:19 PM**
IEC File: 091614ICP11_IEC.iec **MSF File:**
Method Description:

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Sequence No.: 71 **Autosampler Location: 78**
Sample ID: MSD L729800-02 WG752582 **Date Collected: 11/5/2014 3:42:29 PM**
Analyst: 388 **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol: 45 mL**
Dilution: 5X **Sample Prep Vol: 50 mL**
Wash Time: 90 **Auto Dilution Factor: 1**

Nebulizer Parameters: MSD L729800-02 WG752582

Analyte	Back Pressure	Flow
All	205.0 kPa	0.55 L/min

Mean Data: MSD L729800-02 WG752582

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 360.073	2659466.8	101.4	mg/L	1.14				1.13%
Y 360.073 R	55884.1	10.36	mg/L	0.152				1.47%
Ag 328.068†	31000.2	0.1752	mg/L	0.00440	0.9732	mg/L	0.02447	2.51%
Al 308.215†	79.2	0.1614	mg/L	0.02362	0.8965	mg/L	0.13124	14.64%
As 188.979†	186.5	0.1917	mg/L	0.00274	1.065	mg/L	0.0152	1.43%
Ba 233.527†	15343.0	0.1779	mg/L	0.00549	0.9884	mg/L	0.03050	3.09%
Be 313.107†	303026.1	0.1716	mg/L	0.00148	0.9532	mg/L	0.00824	0.86%
Ca 315.887†	9409142.4	134.1	mg/L	1.42	744.7	mg/L	7.86	1.06%
Cd 214.440†	12275.8	0.1717	mg/L	0.00539	0.9540	mg/L	0.02992	3.14%
Co 228.616†	5768.4	0.1791	mg/L	0.00182	0.9950	mg/L	0.01013	1.02%
Cr 205.560†	4317.1	0.1753	mg/L	0.00169	0.9740	mg/L	0.00938	0.96%
Cu 324.752†	29214.7	0.1715	mg/L	0.00484	0.9528	mg/L	0.02687	2.82%
Fe 238.863†	3358.5	0.1785	mg/L	0.00709	0.9917	mg/L	0.03937	3.97%
Mg 279.077†	679387.9	97.29	mg/L	1.128	540.5	mg/L	6.26	1.16%
Mn 257.610†	188623.7	0.2790	mg/L	0.00827	1.550	mg/L	0.0459	2.96%
Mo 202.031†	2105.0	0.1821	mg/L	0.00184	1.011	mg/L	0.0102	1.01%
Ni 232.003†	1443.2	0.1886	mg/L	0.00288	1.048	mg/L	0.0160	1.53%
Pb 220.353†	621.0	0.1707	mg/L	0.00386	0.9486	mg/L	0.02144	2.26%
Sb 206.836†	357.0	0.1726	mg/L	0.00282	0.9588	mg/L	0.01564	1.63%
Se 196.026†	204.4	0.1804	mg/L	0.01000	1.002	mg/L	0.0556	5.54%
Si 251.611†	1120.6	2.046	mg/L	0.0523	11.36	mg/L	0.290	2.55%
Sn 189.927†	768.9	0.1641	mg/L	0.00363	0.9118	mg/L	0.02019	2.21%
Tl 190.801†	246.4	0.1655	mg/L	0.00319	0.9195	mg/L	0.01772	1.93%
V 292.402†	18744.4	0.1799	mg/L	0.00532	0.9994	mg/L	0.02955	2.96%
Zn 213.857†	10257.0	0.1649	mg/L	0.00535	0.9161	mg/L	0.02973	3.25%
Ti 334.940†	127882.0	0.1666	mg/L	0.00476	0.9253	mg/L	0.02644	2.86%
B 249.772†	264.3	0.2248	mg/L	0.00397	1.249	mg/L	0.0220	1.76%
Na 589.592†	1914905.6	377.5	mg/L	4.56	2097	mg/L	25.32	1.21%
K 766.490†	4255.5	4.337	mg/L	0.0264	24.10	mg/L	0.146	0.61%
Li 670.784†	7383.9	0.2124	mg/L	0.00122	1.180	mg/L	0.0068	0.58%
Sr 407.771†	1368137.1	2.816	mg/L	0.0368	15.64	mg/L	0.204	1.31%

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Method Loaded
Method Name: IT11K05N **Method Last Saved: 11/5/2014 3:06:19 PM**
IEC File: 091614ICP11_IEC.iec **MSF File:**
Method Description:

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Sequence No.: 72 **Autosampler Location: 79**
Sample ID: L730147-02 WG752582 **Date Collected: 11/5/2014 3:47:44 PM**
Analyst: 388 **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol: 45 mL**
Dilution: 5X **Sample Prep Vol: 50 mL**
Wash Time: 90 **Auto Dilution Factor: 1**

Nebulizer Parameters: L730147-02 WG752582

Analyte	Back Pressure	Flow
All	204.0 kPa	0.55 L/min

Mean Data: L730147-02 WG752582

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	2611256.9	99.59	mg/L	4.241				4.26%
Y 360.073 R	55748.9	10.34	mg/L	0.172				1.66%
Ag 328.068†	546.4	0.00193	mg/L	0.000378	0.01070	mg/L	0.002099	19.63%
Al 308.215†	-4.0	-0.0452	mg/L	0.02071	-0.2509	mg/L	0.11505	45.85%
As 188.979†	12.0	0.0073	mg/L	0.00235	0.0406	mg/L	0.01306	32.13%
Ba 233.527†	220.0	0.0024	mg/L	0.00013	0.0131	mg/L	0.00070	5.34%
Be 313.107†	28.3	-0.00005	mg/L	0.000024	-0.00030	mg/L	0.000133	45.08%
Ca 315.887†	9954910.9	141.8	mg/L	1.53	787.9	mg/L	8.51	1.08%
Cd 214.440†	-68.0	-0.0012	mg/L	0.00030	-0.0069	mg/L	0.00169	24.41%
Co 228.616†	43.6	0.0008	mg/L	0.00029	0.0044	mg/L	0.00160	36.08%
Cr 205.560†	60.4	0.0015	mg/L	0.00031	0.0086	mg/L	0.00175	20.45%
Cu 324.752†	280.4	-0.0007	mg/L	0.00072	-0.0038	mg/L	0.00399	105.97%
Fe 238.863†	3507.8	0.1866	mg/L	0.00471	1.037	mg/L	0.0261	2.52%
Mg 279.077†	604581.3	86.58	mg/L	1.745	481.0	mg/L	9.69	2.01%
Mn 257.610†	11537.8	0.0142	mg/L	0.00005	0.0790	mg/L	0.00030	0.38%
Mo 202.031†	5.7	-0.00014	mg/L	0.000907	-0.00075	mg/L	0.005039	671.77%
Ni 232.003†	309.2	0.0426	mg/L	0.00534	0.2369	mg/L	0.02967	12.52%
Pb 220.353†	-14.7	0.00038	mg/L	0.001350	0.00209	mg/L	0.007499	358.61%
Sb 206.836†	-10.5	-0.0053	mg/L	0.00095	-0.0296	mg/L	0.00526	17.76%
Se 196.026†	19.2	0.0132	mg/L	0.01797	0.0734	mg/L	0.09985	136.05%
Si 251.611†	1085.8	1.983	mg/L	0.0857	11.01	mg/L	0.476	4.32%
Sn 189.927†	9.3	0.0021	mg/L	0.00323	0.0117	mg/L	0.01792	153.75%
Tl 190.801†	0.6	-0.0008	mg/L	0.00278	-0.0047	mg/L	0.01547	331.58%
V 292.402†	257.4	0.0020	mg/L	0.00013	0.0112	mg/L	0.00073	6.50%
Zn 213.857†	-592.2	-0.0065	mg/L	0.00053	-0.0361	mg/L	0.00292	8.08%
Ti 334.940†	-860.0	-0.0034	mg/L	0.00008	-0.0187	mg/L	0.00042	2.26%
B 249.772†	48.9	0.0410	mg/L	0.00134	0.2275	mg/L	0.00742	3.26%
Na 589.592†	1673501.3	329.9	mg/L	7.88	1833	mg/L	43.77	2.39%
K 766.490†	1792.3	1.823	mg/L	0.0340	10.13	mg/L	0.189	1.87%
Li 670.784†	1109.5	0.03138	mg/L	0.003040	0.1743	mg/L	0.01689	9.69%
Sr 407.771†	1490258.1	3.067	mg/L	0.0744	17.04	mg/L	0.413	2.42%

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Method Loaded
Method Name: IT11K05N **Method Last Saved: 11/5/2014 3:06:19 PM**
IEC File: 091614ICP11_IEC.iec **MSF File:**
Method Description:

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Sequence No.: 73 **Autosampler Location: 80**
Sample ID: L730147-04 WG752582 **Date Collected: 11/5/2014 3:53:00 PM**
Analyst: 388 **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol: 45 mL**
Dilution: 5X **Sample Prep Vol: 50 mL**
Wash Time: 90 **Auto Dilution Factor: 1**

Nebulizer Parameters: L730147-04 WG752582

Analyte	Back Pressure	Flow
All	204.0 kPa	0.55 L/min

Mean Data: L730147-04 WG752582

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 360.073	2573343.7	98.15	mg/L	0.819				0.83%
Y 360.073 R	56281.7	10.44	mg/L	0.165				1.58%
Ag 328.068†	607.7	0.00221	mg/L	0.000060	0.01227	mg/L	0.000332	2.71%
Al 308.215†	0.5	-0.0359	mg/L	0.00515	-0.1993	mg/L	0.02859	14.35%
As 188.979†	8.9	0.0037	mg/L	0.00531	0.0204	mg/L	0.02947	144.19%
Ba 233.527†	223.3	0.0024	mg/L	0.00003	0.0132	mg/L	0.00016	1.19%
Be 313.107†	-77.3	-0.00012	mg/L	0.000034	-0.00064	mg/L	0.000188	29.23%
Ca 315.887†	10560548.9	150.5	mg/L	1.41	835.9	mg/L	7.82	0.94%
Cd 214.440†	-58.1	-0.0011	mg/L	0.00007	-0.0062	mg/L	0.00040	6.37%
Co 228.616†	33.5	0.0004	mg/L	0.00011	0.0025	mg/L	0.00059	23.80%
Cr 205.560†	47.7	0.0010	mg/L	0.00003	0.0054	mg/L	0.00016	3.06%
Cu 324.752†	304.8	-0.0007	mg/L	0.00047	-0.0037	mg/L	0.00263	71.66%
Fe 238.863†	2348.0	0.1234	mg/L	0.00018	0.6855	mg/L	0.00101	0.15%
Mg 279.077†	626011.3	89.65	mg/L	0.243	498.0	mg/L	1.35	0.27%
Mn 257.610†	10677.4	0.0128	mg/L	0.00022	0.0712	mg/L	0.00122	1.71%
Mo 202.031†	1.4	-0.00055	mg/L	0.000267	-0.00305	mg/L	0.001486	48.64%
Ni 232.003†	275.5	0.0384	mg/L	0.00197	0.2136	mg/L	0.01092	5.11%
Pb 220.353†	-17.7	-0.00017	mg/L	0.002305	-0.00095	mg/L	0.012806	>999.9%
Sb 206.836†	-14.5	-0.0072	mg/L	0.00362	-0.0403	mg/L	0.02008	49.89%
Se 196.026†	19.0	0.0128	mg/L	0.00342	0.0709	mg/L	0.01898	26.76%
Si 251.611†	1183.3	2.161	mg/L	0.0155	12.01	mg/L	0.086	0.72%
Sn 189.927†	-0.3	0.0001	mg/L	0.00101	0.0004	mg/L	0.00560	>999.9%
Tl 190.801†	2.5	0.0003	mg/L	0.00367	0.0019	mg/L	0.02041	>999.9%
V 292.402†	225.2	0.0017	mg/L	0.00011	0.0094	mg/L	0.00062	6.61%
Zn 213.857†	-644.4	-0.0071	mg/L	0.00024	-0.0396	mg/L	0.00136	3.44%
Ti 334.940†	-1141.9	-0.0038	mg/L	0.00009	-0.0211	mg/L	0.00049	2.32%
B 249.772†	51.0	0.0428	mg/L	0.00231	0.2378	mg/L	0.01284	5.40%
Na 589.592†	1791364.5	353.2	mg/L	10.16	1962	mg/L	56.45	2.88%
K 766.490†	1847.3	1.879	mg/L	0.0657	10.44	mg/L	0.365	3.50%
Li 670.784†	1178.3	0.03334	mg/L	0.000984	0.1852	mg/L	0.00547	2.95%
Sr 407.771†	1601251.4	3.296	mg/L	0.0931	18.31	mg/L	0.517	2.83%

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Method Loaded
Method Name: IT11K05N **Method Last Saved: 11/5/2014 3:06:19 PM**
IEC File: 091614ICP11_IEC.iec **MSF File:**
Method Description:

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Sequence No.: 74 **Autosampler Location: 3**
Sample ID: CCV 14J27642 **Date Collected: 11/5/2014 3:58:15 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**
Wash Time: 90 **Auto Dilution Factor: 1**

Nebulizer Parameters: CCV 14J27642

Analyte	Back Pressure	Flow
All	204.0 kPa	0.55 L/min

Mean Data: CCV 14J27642

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 360.073	2646151.9	100.9 mg/L	1.41			1.39%
Y 360.073 R	53247.3	9.875 mg/L	0.1258			1.27%
Ag 328.068†	168936.6	0.9611 mg/L	0.00171	0.9611 mg/L	0.00171	0.18%
QC value within limits for Ag 328.068 Recovery = 96.11%						
Al 308.215†	3898.8	9.754 mg/L	0.1556	9.754 mg/L	0.1556	1.60%
QC value within limits for Al 308.215 Recovery = 97.54%						
As 188.979†	1875.5	1.978 mg/L	0.0153	1.978 mg/L	0.0153	0.77%
QC value within limits for As 188.979 Recovery = 98.92%						
Ba 233.527†	42923.2	0.4979 mg/L	0.00091	0.4979 mg/L	0.00091	0.18%
QC value within limits for Ba 233.527 Recovery = 99.57%						
Be 313.107†	347912.4	0.1971 mg/L	0.00053	0.1971 mg/L	0.00053	0.27%
QC value within limits for Be 313.107 Recovery = 98.53%						
Ca 315.887†	3480838.0	49.60 mg/L	0.162	49.60 mg/L	0.162	0.33%
QC value within limits for Ca 315.887 Recovery = 99.19%						
Cd 214.440†	35576.3	0.4978 mg/L	0.00108	0.4978 mg/L	0.00108	0.22%
QC value within limits for Cd 214.440 Recovery = 99.55%						
Co 228.616†	33838.2	1.054 mg/L	0.0060	1.054 mg/L	0.0060	0.57%
QC value within limits for Co 228.616 Recovery = 105.36%						
Cr 205.560†	25617.4	1.045 mg/L	0.0067	1.045 mg/L	0.0067	0.64%
QC value within limits for Cr 205.560 Recovery = 104.53%						
Cu 324.752†	322126.6	1.917 mg/L	0.0028	1.917 mg/L	0.0028	0.15%
QC value within limits for Cu 324.752 Recovery = 95.84%						
Fe 238.863†	179512.7	9.752 mg/L	0.0290	9.752 mg/L	0.0290	0.30%
QC value within limits for Fe 238.863 Recovery = 97.52%						
Mg 279.077†	69482.2	9.943 mg/L	0.0382	9.943 mg/L	0.0382	0.38%
QC value within limits for Mg 279.077 Recovery = 99.43%						
Mn 257.610†	668965.9	1.001 mg/L	0.0024	1.001 mg/L	0.0024	0.24%
QC value within limits for Mn 257.610 Recovery = 100.11%						
Mo 202.031†	5728.4	0.4973 mg/L	0.00416	0.4973 mg/L	0.00416	0.84%
QC value within limits for Mo 202.031 Recovery = 99.45%						
Ni 232.003†	15928.3	2.052 mg/L	0.0154	2.052 mg/L	0.0154	0.75%
QC value within limits for Ni 232.003 Recovery = 102.58%						
Pb 220.353†	1876.1	0.5038 mg/L	0.00312	0.5038 mg/L	0.00312	0.62%
QC value within limits for Pb 220.353 Recovery = 100.75%						
Sb 206.836†	4040.6	1.953 mg/L	0.0142	1.953 mg/L	0.0142	0.73%
QC value within limits for Sb 206.836 Recovery = 97.67%						
Se 196.026†	2186.6	1.977 mg/L	0.0151	1.977 mg/L	0.0151	0.77%
QC value within limits for Se 196.026 Recovery = 98.84%						
Si 251.611†	1090.9	2.006 mg/L	0.0275	2.006 mg/L	0.0275	1.37%
QC value within limits for Si 251.611 Recovery = 100.32%						
Sn 189.927†	9292.5	1.986 mg/L	0.0105	1.986 mg/L	0.0105	0.53%
QC value within limits for Sn 189.927 Recovery = 99.29%						
Tl 190.801†	2981.4	2.016 mg/L	0.0111	2.016 mg/L	0.0111	0.55%
QC value within limits for Tl 190.801 Recovery = 100.82%						
V 292.402†	102811.8	0.9886 mg/L	0.00130	0.9886 mg/L	0.00130	0.13%
QC value within limits for V 292.402 Recovery = 98.86%						
Zn 213.857†	181327.0	2.869 mg/L	0.0109	2.869 mg/L	0.0109	0.38%
QC value within limits for Zn 213.857 Recovery = 95.64%						

Ti 334.940†	747722.9	0.9893 mg/L	0.00185	0.9893 mg/L	0.00185	0.19%
QC value within limits for Ti 334.940 Recovery = 98.93%						
B 249.772†	2253.8	1.903 mg/L	0.0220	1.903 mg/L	0.0220	1.16%
QC value within limits for B 249.772 Recovery = 95.14%						
Na 589.592†	261364.7	51.53 mg/L	0.206	51.53 mg/L	0.206	0.40%
QC value within limits for Na 589.592 Recovery = 103.05%						
K 766.490†	47080.1	48.05 mg/L	0.298	48.05 mg/L	0.298	0.62%
QC value within limits for K 766.490 Recovery = 96.11%						
Li 670.784†	51458.3	1.485 mg/L	0.0072	1.485 mg/L	0.0072	0.49%
QC value within limits for Li 670.784 Recovery = 98.98%						
Sr 407.771†	497857.3	1.025 mg/L	0.0035	1.025 mg/L	0.0035	0.34%
QC value within limits for Sr 407.771 Recovery = 102.47%						

All analyte(s) passed QC.

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Method Loaded
Method Name: IT11K05N **Method Last Saved: 11/5/2014 3:06:19 PM**
IEC File: 091614ICP11_IEC.iec **MSF File:**
Method Description:

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Sequence No.: 75 **Autosampler Location: 2**
Sample ID: CCB **Date Collected: 11/5/2014 4:03:12 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**
Wash Time: 90 **Auto Dilution Factor: 1**

Nebulizer Parameters: CCB

Analyte	Back Pressure	Flow
All	204.0 kPa	0.55 L/min

Mean Data: CCB

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 360.073	2711750.2	103.4	mg/L	0.73				0.71%
Y 360.073 R	57913.0	10.74	mg/L	0.107				0.99%
Ag 328.068†	593.2	0.00337	mg/L	0.001079	0.00337	mg/L	0.001079	32.01%
QC value within limits for Ag 328.068 Recovery = Not calculated								
Al 308.215†	1.5	0.0037	mg/L	0.01421	0.0037	mg/L	0.01421	383.60%
QC value within limits for Al 308.215 Recovery = Not calculated								
As 188.979†	1.7	0.0018	mg/L	0.00333	0.0018	mg/L	0.00333	186.98%
QC value within limits for As 188.979 Recovery = Not calculated								
Ba 233.527†	25.4	0.0003	mg/L	0.00006	0.0003	mg/L	0.00006	20.20%
QC value within limits for Ba 233.527 Recovery = Not calculated								
Be 313.107†	103.9	0.00006	mg/L	0.000080	0.00006	mg/L	0.000080	136.56%
QC value within limits for Be 313.107 Recovery = Not calculated								
Ca 315.887†	909.2	0.01296	mg/L	0.006651	0.01296	mg/L	0.006651	51.33%
QC value within limits for Ca 315.887 Recovery = Not calculated								
Cd 214.440†	8.8	0.0001	mg/L	0.00001	0.0001	mg/L	0.00001	5.06%
QC value within limits for Cd 214.440 Recovery = Not calculated								
Co 228.616†	21.1	0.0007	mg/L	0.00012	0.0007	mg/L	0.00012	18.04%
QC value within limits for Co 228.616 Recovery = Not calculated								
Cr 205.560†	19.0	0.0008	mg/L	0.00028	0.0008	mg/L	0.00028	35.52%
QC value within limits for Cr 205.560 Recovery = Not calculated								
Cu 324.752†	717.3	0.0043	mg/L	0.00023	0.0043	mg/L	0.00023	5.50%
QC value within limits for Cu 324.752 Recovery = Not calculated								
Fe 238.863†	84.4	0.0046	mg/L	0.00081	0.0046	mg/L	0.00081	17.62%
QC value within limits for Fe 238.863 Recovery = Not calculated								
Mg 279.077†	74.4	0.0107	mg/L	0.00373	0.0107	mg/L	0.00373	34.99%
QC value within limits for Mg 279.077 Recovery = Not calculated								
Mn 257.610†	342.7	0.0005	mg/L	0.00004	0.0005	mg/L	0.00004	7.73%
QC value within limits for Mn 257.610 Recovery = Not calculated								
Mo 202.031†	-3.0	-0.00026	mg/L	0.000241	-0.00026	mg/L	0.000241	91.19%
QC value within limits for Mo 202.031 Recovery = Not calculated								
Ni 232.003†	-6.7	-0.0009	mg/L	0.00159	-0.0009	mg/L	0.00159	183.72%
QC value within limits for Ni 232.003 Recovery = Not calculated								
Pb 220.353†	-12.6	-0.00338	mg/L	0.001355	-0.00338	mg/L	0.001355	40.07%
QC value within limits for Pb 220.353 Recovery = Not calculated								
Sb 206.836†	-11.1	-0.0053	mg/L	0.00282	-0.0053	mg/L	0.00282	52.87%
QC value within limits for Sb 206.836 Recovery = Not calculated								
Se 196.026†	-0.0	-0.0000	mg/L	0.00754	-0.0000	mg/L	0.00754	>999.9%
QC value within limits for Se 196.026 Recovery = Not calculated								
Si 251.611†	-0.7	-0.0013	mg/L	0.00350	-0.0013	mg/L	0.00350	260.64%
QC value within limits for Si 251.611 Recovery = Not calculated								
Sn 189.927†	4.9	0.0010	mg/L	0.00180	0.0010	mg/L	0.00180	171.22%
QC value within limits for Sn 189.927 Recovery = Not calculated								
Tl 190.801†	0.8	0.0005	mg/L	0.00245	0.0005	mg/L	0.00245	462.10%
QC value within limits for Tl 190.801 Recovery = Not calculated								
V 292.402†	83.8	0.0008	mg/L	0.00029	0.0008	mg/L	0.00029	36.14%
QC value within limits for V 292.402 Recovery = Not calculated								
Zn 213.857†	178.6	0.0028	mg/L	0.00004	0.0028	mg/L	0.00004	1.25%
QC value within limits for Zn 213.857 Recovery = Not calculated								

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Ti 334.940†              556.9      0.0007 mg/L       0.00012      0.0007 mg/L       0.00012  15.63%
   QC value within limits for Ti 334.940  Recovery = Not calculated
B 249.772†                22.3      0.0190 mg/L       0.00365      0.0190 mg/L       0.00365  19.19%
   QC value within limits for B 249.772  Recovery = Not calculated
Na 589.592†             2179.7      0.4298 mg/L       0.02798      0.4298 mg/L       0.02798   6.51%
   QC value within limits for Na 589.592  Recovery = Not calculated
K 766.490†               166.1      0.1696 mg/L       0.01349      0.1696 mg/L       0.01349   7.96%
   QC value within limits for K 766.490  Recovery = Not calculated
Li 670.784†               46.9     0.00135 mg/L      0.001190     0.00135 mg/L      0.001190  88.02%
   QC value within limits for Li 670.784  Recovery = Not calculated
Sr 407.771†              476.6     0.00098 mg/L      0.000034     0.00098 mg/L      0.000034   3.51%
   QC value within limits for Sr 407.771  Recovery = Not calculated
All analyte(s) passed QC.
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Method Loaded
Method Name: IT11K05N **Method Last Saved: 11/5/2014 3:06:19 PM**
IEC File: 091614ICP11_IEC.iec **MSF File:**
Method Description:

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Sequence No.: 76 **Autosampler Location: 81**
Sample ID: L730147-06 WG752582 **Date Collected: 11/5/2014 4:08:13 PM**
Analyst: 388 **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol: 45 mL**
Dilution: 5X **Sample Prep Vol: 50 mL**
Wash Time: 90 **Auto Dilution Factor: 1**

Nebulizer Parameters: L730147-06 WG752582

Analyte	Back Pressure	Flow
All	204.0 kPa	0.55 L/min

Mean Data: L730147-06 WG752582

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	2567197.1	97.91	mg/L	1.216				1.24%
Y 360.073 R	55099.6	10.22	mg/L	0.225				2.20%
Ag 328.068†	562.1	0.00188	mg/L	0.000343	0.01043	mg/L	0.001904	18.26%
Al 308.215†	-1.8	-0.0430	mg/L	0.01299	-0.2390	mg/L	0.07217	30.20%
As 188.979†	8.9	0.0035	mg/L	0.00550	0.0196	mg/L	0.03055	155.83%
Ba 233.527†	267.0	0.0029	mg/L	0.00015	0.0160	mg/L	0.00082	5.11%
Be 313.107†	-124.2	-0.00015	mg/L	0.000043	-0.00084	mg/L	0.000237	28.25%
Ca 315.887†	10733822.2	152.9	mg/L	2.28	849.6	mg/L	12.66	1.49%
Cd 214.440†	-72.6	-0.0013	mg/L	0.00027	-0.0073	mg/L	0.00148	20.24%
Co 228.616†	-2.3	-0.0007	mg/L	0.00018	-0.0037	mg/L	0.00103	27.40%
Cr 205.560†	54.6	0.0012	mg/L	0.00022	0.0068	mg/L	0.00121	17.87%
Cu 324.752†	517.9	0.0005	mg/L	0.00107	0.0026	mg/L	0.00597	230.06%
Fe 238.863†	137.8	0.0031	mg/L	0.00106	0.0172	mg/L	0.00586	34.13%
Mg 279.077†	710457.1	101.7	mg/L	0.35	565.2	mg/L	1.93	0.34%
Mn 257.610†	2524.4	0.0002	mg/L	0.00003	0.0011	mg/L	0.00019	16.52%
Mo 202.031†	23.6	0.00137	mg/L	0.000345	0.00762	mg/L	0.001917	25.15%
Ni 232.003†	14.1	0.0050	mg/L	0.00089	0.0275	mg/L	0.00492	17.86%
Pb 220.353†	-15.8	0.00055	mg/L	0.001196	0.00306	mg/L	0.006643	217.09%
Sb 206.836†	-4.1	-0.0023	mg/L	0.00261	-0.0126	mg/L	0.01449	114.71%
Se 196.026†	14.2	0.0082	mg/L	0.00644	0.0458	mg/L	0.03577	78.10%
Si 251.611†	1202.0	2.194	mg/L	0.0022	12.19	mg/L	0.012	0.10%
Sn 189.927†	8.7	0.0019	mg/L	0.00132	0.0103	mg/L	0.00734	71.07%
Tl 190.801†	3.3	0.0010	mg/L	0.00322	0.0057	mg/L	0.01790	315.58%
V 292.402†	261.2	0.0020	mg/L	0.00007	0.0112	mg/L	0.00040	3.54%
Zn 213.857†	-632.2	-0.0069	mg/L	0.00007	-0.0386	mg/L	0.00037	0.96%
Ti 334.940†	-979.5	-0.0040	mg/L	0.00007	-0.0222	mg/L	0.00041	1.84%
B 249.772†	74.7	0.0633	mg/L	0.00081	0.3519	mg/L	0.00451	1.28%
Na 589.592†	1895442.4	373.7	mg/L	8.61	2076	mg/L	47.81	2.30%
K 766.490†	2196.7	2.235	mg/L	0.0388	12.42	mg/L	0.215	1.73%
Li 670.784†	1256.3	0.03552	mg/L	0.001991	0.1973	mg/L	0.01106	5.61%
Sr 407.771†	1588004.9	3.268	mg/L	0.0771	18.16	mg/L	0.428	2.36%

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Method Loaded
Method Name: IT11K05N **Method Last Saved: 11/5/2014 3:06:19 PM**
IEC File: 091614ICP11_IEC.iec **MSF File:**
Method Description:

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Sequence No.: 77 **Autosampler Location: 82**
Sample ID: MS L730147-06 WG752582 **Date Collected: 11/5/2014 4:13:29 PM**
Analyst: 388 **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol: 45 mL**
Dilution: 5X **Sample Prep Vol: 50 mL**
Wash Time: 90 **Auto Dilution Factor: 1**

Nebulizer Parameters: MS L730147-06 WG752582

Analyte	Back Pressure	Flow
All	204.0 kPa	0.55 L/min

Mean Data: MS L730147-06 WG752582

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 360.073	2549178.1	97.23	mg/L	1.511				1.55%
Y 360.073 R	53616.3	9.943	mg/L	0.0509				0.51%
Ag 328.068†	32594.7	0.1841	mg/L	0.00071	1.023	mg/L	0.0039	0.38%
Al 308.215†	73.8	0.1430	mg/L	0.02486	0.7942	mg/L	0.13810	17.39%
As 188.979†	189.3	0.1939	mg/L	0.00948	1.077	mg/L	0.0527	4.89%
Ba 233.527†	16795.3	0.1947	mg/L	0.00284	1.082	mg/L	0.0158	1.46%
Be 313.107†	318489.0	0.1803	mg/L	0.00058	1.002	mg/L	0.0032	0.32%
Ca 315.887†	10959401.3	156.1	mg/L	0.57	867.4	mg/L	3.16	0.36%
Cd 214.440†	12589.3	0.1761	mg/L	0.00032	0.9782	mg/L	0.00176	0.18%
Co 228.616†	6014.0	0.1867	mg/L	0.00260	1.037	mg/L	0.0144	1.39%
Cr 205.560†	4565.5	0.1853	mg/L	0.00330	1.030	mg/L	0.0183	1.78%
Cu 324.752†	30379.4	0.1781	mg/L	0.00007	0.9896	mg/L	0.00040	0.04%
Fe 238.863†	3576.7	0.1899	mg/L	0.00340	1.055	mg/L	0.0189	1.79%
Mg 279.077†	721298.8	103.3	mg/L	0.57	573.9	mg/L	3.16	0.55%
Mn 257.610†	123507.8	0.1813	mg/L	0.00065	1.007	mg/L	0.0036	0.36%
Mo 202.031†	2112.3	0.1826	mg/L	0.00251	1.014	mg/L	0.0139	1.37%
Ni 232.003†	1453.8	0.1903	mg/L	0.00141	1.057	mg/L	0.0078	0.74%
Pb 220.353†	651.1	0.1794	mg/L	0.00260	0.9967	mg/L	0.01445	1.45%
Sb 206.836†	385.1	0.1861	mg/L	0.00700	1.034	mg/L	0.0389	3.76%
Se 196.026†	225.6	0.1990	mg/L	0.01048	1.105	mg/L	0.0582	5.27%
Si 251.611†	1242.9	2.269	mg/L	0.0817	12.61	mg/L	0.454	3.60%
Sn 189.927†	797.6	0.1703	mg/L	0.00085	0.9464	mg/L	0.00471	0.50%
Tl 190.801†	258.9	0.1737	mg/L	0.00462	0.9649	mg/L	0.02567	2.66%
V 292.402†	19575.7	0.1879	mg/L	0.00100	1.044	mg/L	0.0055	0.53%
Zn 213.857†	10361.2	0.1671	mg/L	0.00118	0.9281	mg/L	0.00656	0.71%
Ti 334.940†	133715.8	0.1742	mg/L	0.00062	0.9678	mg/L	0.00345	0.36%
B 249.772†	266.9	0.2270	mg/L	0.00423	1.261	mg/L	0.0235	1.86%
Na 589.592†	1842912.4	363.3	mg/L	8.52	2019	mg/L	47.35	2.35%
K 766.490†	3915.5	3.989	mg/L	0.1644	22.16	mg/L	0.914	4.12%
Li 670.784†	7508.5	0.2159	mg/L	0.00426	1.200	mg/L	0.0237	1.97%
Sr 407.771†	1622237.4	3.339	mg/L	0.0887	18.55	mg/L	0.493	2.66%

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Method Loaded
Method Name: IT11K05N **Method Last Saved: 11/5/2014 3:06:19 PM**
IEC File: 091614ICP11_IEC.iec **MSF File:**
Method Description:

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Sequence No.: 78 **Autosampler Location: 83**
Sample ID: MSD L730147-06 WG752582 **Date Collected: 11/5/2014 4:18:45 PM**
Analyst: 388 **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol: 45 mL**
Dilution: 5X **Sample Prep Vol: 50 mL**
Wash Time: 90 **Auto Dilution Factor: 1**

Nebulizer Parameters: MSD L730147-06 WG752582

Analyte	Back Pressure	Flow
All	202.0 kPa	0.55 L/min

Mean Data: MSD L730147-06 WG752582

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 360.073	2662813.6	101.6	mg/L	2.44				2.40%
Y 360.073 R	55521.7	10.30	mg/L	0.186				1.80%
Ag 328.068†	30780.7	0.1738	mg/L	0.00524	0.9657	mg/L	0.02913	3.02%
Al 308.215†	73.3	0.1434	mg/L	0.00285	0.7966	mg/L	0.01584	1.99%
As 188.979†	186.5	0.1911	mg/L	0.00561	1.062	mg/L	0.0311	2.93%
Ba 233.527†	16046.1	0.1861	mg/L	0.00732	1.034	mg/L	0.0407	3.94%
Be 313.107†	303416.9	0.1718	mg/L	0.00174	0.9544	mg/L	0.00967	1.01%
Ca 315.887†	10469220.8	149.2	mg/L	1.97	828.6	mg/L	10.96	1.32%
Cd 214.440†	11970.6	0.1674	mg/L	0.00401	0.9301	mg/L	0.02229	2.40%
Co 228.616†	5767.6	0.1790	mg/L	0.00696	0.9945	mg/L	0.03869	3.89%
Cr 205.560†	4353.6	0.1767	mg/L	0.00675	0.9818	mg/L	0.03749	3.82%
Cu 324.752†	28575.4	0.1675	mg/L	0.00459	0.9306	mg/L	0.02548	2.74%
Fe 238.863†	3154.1	0.1671	mg/L	0.00249	0.9282	mg/L	0.01385	1.49%
Mg 279.077†	692982.5	99.24	mg/L	1.001	551.3	mg/L	5.56	1.01%
Mn 257.610†	117196.5	0.1720	mg/L	0.00437	0.9555	mg/L	0.02427	2.54%
Mo 202.031†	2012.0	0.1739	mg/L	0.00585	0.9662	mg/L	0.03250	3.36%
Ni 232.003†	1440.5	0.1885	mg/L	0.00700	1.047	mg/L	0.0389	3.72%
Pb 220.353†	624.0	0.1719	mg/L	0.00761	0.9551	mg/L	0.04227	4.43%
Sb 206.836†	360.6	0.1743	mg/L	0.00753	0.9682	mg/L	0.04184	4.32%
Se 196.026†	212.1	0.1870	mg/L	0.00855	1.039	mg/L	0.0475	4.57%
Si 251.611†	1216.9	2.222	mg/L	0.1024	12.35	mg/L	0.569	4.61%
Sn 189.927†	759.3	0.1621	mg/L	0.00614	0.9008	mg/L	0.03409	3.78%
Tl 190.801†	250.7	0.1682	mg/L	0.00612	0.9346	mg/L	0.03401	3.64%
V 292.402†	18582.8	0.1783	mg/L	0.00344	0.9907	mg/L	0.01910	1.93%
Zn 213.857†	9822.5	0.1584	mg/L	0.00374	0.8800	mg/L	0.02080	2.36%
Ti 334.940†	126824.6	0.1652	mg/L	0.00432	0.9177	mg/L	0.02402	2.62%
B 249.772†	259.7	0.2209	mg/L	0.01190	1.227	mg/L	0.0661	5.39%
Na 589.592†	1794557.5	353.8	mg/L	2.48	1966	mg/L	13.80	0.70%
K 766.490†	3786.5	3.858	mg/L	0.0483	21.43	mg/L	0.268	1.25%
Li 670.784†	7311.2	0.2103	mg/L	0.00081	1.168	mg/L	0.0045	0.39%
Sr 407.771†	1578605.6	3.249	mg/L	0.0233	18.05	mg/L	0.130	0.72%

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Method Loaded
Method Name: IT11K05N **Method Last Saved: 11/5/2014 3:06:19 PM**
IEC File: 091614ICP11_IEC.iec **MSF File:**
Method Description:

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Sequence No.: 79 **Autosampler Location: 84**
Sample ID: L730147-08 WG752582 **Date Collected: 11/5/2014 4:24:00 PM**
Analyst: 388 **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol: 45 mL**
Dilution: 5X **Sample Prep Vol: 50 mL**
Wash Time: 90 **Auto Dilution Factor: 1**

Nebulizer Parameters: L730147-08 WG752582

Analyte	Back Pressure	Flow
All	203.0 kPa	0.55 L/min

Mean Data: L730147-08 WG752582

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 360.073	2629084.0	100.3	mg/L	1.58				1.57%
Y 360.073 R	54291.9	10.07	mg/L	0.201				2.00%
Ag 328.068†	455.4	0.00138	mg/L	0.000585	0.00767	mg/L	0.003250	42.38%
Al 308.215†	3.1	-0.0287	mg/L	0.02928	-0.1595	mg/L	0.16266	101.96%
As 188.979†	7.1	0.0019	mg/L	0.00666	0.0104	mg/L	0.03700	354.37%
Ba 233.527†	228.9	0.0024	mg/L	0.00024	0.0136	mg/L	0.00133	9.81%
Be 313.107†	-57.9	-0.00010	mg/L	0.000007	-0.00057	mg/L	0.000040	7.03%
Ca 315.887†	10502484.9	149.6	mg/L	3.99	831.3	mg/L	22.19	2.67%
Cd 214.440†	-70.6	-0.0013	mg/L	0.00024	-0.0074	mg/L	0.00132	17.89%
Co 228.616†	97.8	0.0025	mg/L	0.00026	0.0136	mg/L	0.00143	10.50%
Cr 205.560†	56.6	0.0013	mg/L	0.00030	0.0074	mg/L	0.00168	22.63%
Cu 324.752†	452.0	0.0003	mg/L	0.00012	0.0016	mg/L	0.00066	42.07%
Fe 238.863†	10225.7	0.5514	mg/L	0.03377	3.064	mg/L	0.1876	6.12%
Mg 279.077†	600328.7	85.97	mg/L	3.055	477.6	mg/L	16.97	3.55%
Mn 257.610†	33175.3	0.0466	mg/L	0.00248	0.2590	mg/L	0.01380	5.33%
Mo 202.031†	19.5	0.00103	mg/L	0.000507	0.00573	mg/L	0.002818	49.14%
Ni 232.003†	1057.5	0.1391	mg/L	0.00928	0.7726	mg/L	0.05158	6.68%
Pb 220.353†	-13.4	0.00085	mg/L	0.003360	0.00470	mg/L	0.018669	397.06%
Sb 206.836†	-13.9	-0.0070	mg/L	0.00481	-0.0388	mg/L	0.02673	68.95%
Se 196.026†	15.5	0.0099	mg/L	0.00339	0.0548	mg/L	0.01882	34.36%
Si 251.611†	1123.6	2.052	mg/L	0.0390	11.40	mg/L	0.216	1.90%
Sn 189.927†	3.2	0.0009	mg/L	0.00075	0.0051	mg/L	0.00415	81.49%
Tl 190.801†	-0.2	-0.0015	mg/L	0.00193	-0.0082	mg/L	0.01072	131.16%
V 292.402†	171.1	0.0012	mg/L	0.00029	0.0064	mg/L	0.00163	25.30%
Zn 213.857†	-531.9	-0.0054	mg/L	0.00034	-0.0300	mg/L	0.00188	6.26%
Ti 334.940†	-955.5	-0.0034	mg/L	0.00009	-0.0190	mg/L	0.00052	2.72%
B 249.772†	50.8	0.0418	mg/L	0.00265	0.2321	mg/L	0.01471	6.34%
Na 589.592†	1528122.5	301.3	mg/L	3.11	1674	mg/L	17.26	1.03%
K 766.490†	1491.7	1.516	mg/L	0.0327	8.421	mg/L	0.1816	2.16%
Li 670.784†	1103.5	0.03120	mg/L	0.002347	0.1733	mg/L	0.01304	7.52%
Sr 407.771†	1489824.8	3.066	mg/L	0.0319	17.04	mg/L	0.177	1.04%

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Method Loaded
Method Name: IT11K05N **Method Last Saved: 11/5/2014 3:06:19 PM**
IEC File: 091614ICP11_IEC.iec **MSF File:**
Method Description:

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Sequence No.: 80 **Autosampler Location: 85**
Sample ID: L730147-10 WG752582 **Date Collected: 11/5/2014 4:29:14 PM**
Analyst: 388 **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol: 45 mL**
Dilution: 5X **Sample Prep Vol: 50 mL**
Wash Time: 90 **Auto Dilution Factor: 1**

Nebulizer Parameters: L730147-10 WG752582

Analyte	Back Pressure	Flow
All	204.0 kPa	0.55 L/min

Mean Data: L730147-10 WG752582

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 360.073	2671775.3	101.9	mg/L	2.57				2.52%
Y 360.073 R	54727.7	10.15	mg/L	0.243				2.40%
Ag 328.068†	475.6	0.00144	mg/L	0.001246	0.00799	mg/L	0.006923	86.68%
Al 308.215†	-6.4	-0.0536	mg/L	0.02675	-0.2978	mg/L	0.14863	49.91%
As 188.979†	7.7	0.0023	mg/L	0.01192	0.0130	mg/L	0.06623	507.57%
Ba 233.527†	247.8	0.0027	mg/L	0.00005	0.0148	mg/L	0.00027	1.80%
Be 313.107†	-183.6	-0.00018	mg/L	0.000016	-0.00099	mg/L	0.000086	8.78%
Ca 315.887†	10686456.3	152.2	mg/L	2.82	845.8	mg/L	15.69	1.86%
Cd 214.440†	-83.1	-0.0015	mg/L	0.00029	-0.0081	mg/L	0.00159	19.52%
Co 228.616†	11.6	-0.0002	mg/L	0.00004	-0.0013	mg/L	0.00023	17.42%
Cr 205.560†	65.6	0.0017	mg/L	0.00016	0.0094	mg/L	0.00086	9.20%
Cu 324.752†	194.7	-0.0014	mg/L	0.00022	-0.0075	mg/L	0.00122	16.22%
Fe 238.863†	172.4	0.0051	mg/L	0.00064	0.0285	mg/L	0.00354	12.39%
Mg 279.077†	636636.9	91.17	mg/L	1.201	506.5	mg/L	6.67	1.32%
Mn 257.610†	678.8	-0.0022	mg/L	0.00012	-0.0122	mg/L	0.00065	5.28%
Mo 202.031†	5.1	-0.00024	mg/L	0.000217	-0.00133	mg/L	0.001208	91.10%
Ni 232.003†	60.8	0.0108	mg/L	0.00328	0.0603	mg/L	0.01825	30.28%
Pb 220.353†	-15.1	0.00059	mg/L	0.001955	0.00327	mg/L	0.010861	331.65%
Sb 206.836†	-4.8	-0.0026	mg/L	0.00154	-0.0145	mg/L	0.00853	58.82%
Se 196.026†	20.2	0.0138	mg/L	0.00343	0.0765	mg/L	0.01904	24.89%
Si 251.611†	1156.2	2.111	mg/L	0.0508	11.73	mg/L	0.282	2.41%
Sn 189.927†	6.0	0.0014	mg/L	0.00151	0.0077	mg/L	0.00839	108.48%
Tl 190.801†	1.1	-0.0006	mg/L	0.00143	-0.0034	mg/L	0.00795	230.78%
V 292.402†	310.3	0.0025	mg/L	0.00021	0.0140	mg/L	0.00116	8.30%
Zn 213.857†	-648.5	-0.0071	mg/L	0.00037	-0.0397	mg/L	0.00204	5.14%
Ti 334.940†	-979.7	-0.0036	mg/L	0.00002	-0.0202	mg/L	0.00010	0.48%
B 249.772†	49.1	0.0415	mg/L	0.00284	0.2305	mg/L	0.01579	6.85%
Na 589.592†	1765941.5	348.2	mg/L	4.22	1934	mg/L	23.47	1.21%
K 766.490†	1741.8	1.771	mg/L	0.1102	9.838	mg/L	0.6123	6.22%
Li 670.784†	1131.4	0.03197	mg/L	0.002583	0.1776	mg/L	0.01435	8.08%
Sr 407.771†	1671451.2	3.440	mg/L	0.0398	19.11	mg/L	0.221	1.16%

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Method Loaded

Method Name: IT11K05N **Method Last Saved: 11/5/2014 3:06:19 PM**

IEC File: 091614ICP11_IEC.iec **MSF File:**

Method Description:

User canceled analysis.

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Reprocessing Begun
Logged In Analyst: ICP11 **Technique: ICP Continuous**

Results Data Set (original): 110514ICP11
Results Library (original): C:\pe\ICP11\Results\Results.mdb
Results Data Set (reprocessed): 110514ICP11
Results Library (reprocessed): C:\pe\ICP11\Results\Results.mdb

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Sequence No.: 1 **Autosampler Location: 75**
Sample ID: SD L729800-02 WG752582 **Date Collected: 11/5/2014 3:26:58 PM**
Analyst: 388 **Data Type: Reprocessed on 11/5/2014 4:34:06 PM**
Logged In Analyst (Original) : ICP11
Initial Sample Wt: **Initial Sample Vol: 45 mL**
Dilution: 25X **Sample Prep Vol: 50 mL**
Wash Time:

Nebulizer Parameters: SD L729800-02 WG752582

Analyte	Back Pressure	Flow
All	202.0 kPa	0.55 L/min

Mean Data: SD L729800-02 WG752582

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	2713832.3	103.5	mg/L	1.73				1.68%
Y 360.073 R	55276.4	10.25	mg/L	0.155				1.51%
Ag 328.068†	541.3	0.00284	mg/L	0.000972	0.07878	mg/L	0.027008	34.28%
Al 308.215†	-2.7	-0.0137	mg/L	0.01355	-0.3806	mg/L	0.37637	98.89%
As 188.979†	0.6	-0.0004	mg/L	0.00544	-0.0105	mg/L	0.15112	>999.9%
Ba 233.527†	92.0	0.0010	mg/L	0.00004	0.0286	mg/L	0.00106	3.69%
Be 313.107†	102.1	0.00004	mg/L	0.000030	0.00118	mg/L	0.000828	70.10%
Ca 315.887†	1868688.5	26.62	mg/L	0.047	739.5	mg/L	1.30	0.18%
Cd 214.440†	-32.7	-0.0005	mg/L	0.00010	-0.0141	mg/L	0.00287	20.29%
Co 228.616†	22.8	0.0006	mg/L	0.00047	0.0168	mg/L	0.01300	77.33%
Cr 205.560†	30.5	0.0011	mg/L	0.00004	0.0296	mg/L	0.00119	4.03%
Cu 324.752†	185.0	0.0006	mg/L	0.00023	0.0174	mg/L	0.00643	36.85%
Fe 238.863†	92.6	0.0042	mg/L	0.00034	0.1177	mg/L	0.00956	8.12%
Mg 279.077†	137782.7	19.73	mg/L	0.142	548.1	mg/L	3.95	0.72%
Mn 257.610†	14155.1	0.0205	mg/L	0.00025	0.5695	mg/L	0.00694	1.22%
Mo 202.031†	30.0	0.00248	mg/L	0.001110	0.06902	mg/L	0.030845	44.69%
Ni 232.003†	8.4	0.0016	mg/L	0.00237	0.0457	mg/L	0.06576	143.91%
Pb 220.353†	-8.9	-0.00153	mg/L	0.001420	-0.04261	mg/L	0.039436	92.55%
Sb 206.836†	-10.3	-0.0050	mg/L	0.00243	-0.1399	mg/L	0.06762	48.32%
Se 196.026†	-4.1	-0.0045	mg/L	0.01485	-0.1248	mg/L	0.41245	330.59%
Si 251.611†	192.2	0.3503	mg/L	0.01076	9.730	mg/L	0.2989	3.07%
Sn 189.927†	1.2	0.0002	mg/L	0.00180	0.0064	mg/L	0.05012	788.00%
Tl 190.801†	-0.1	-0.0002	mg/L	0.00214	-0.0064	mg/L	0.05944	923.15%
V 292.402†	43.4	0.0003	mg/L	0.00035	0.0090	mg/L	0.00977	109.15%
Zn 213.857†	-239.3	-0.0033	mg/L	0.00020	-0.0909	mg/L	0.00550	6.05%
Ti 334.940†	-61.2	-0.0006	mg/L	0.00009	-0.0173	mg/L	0.00241	13.94%
B 249.772†	19.2	0.0163	mg/L	0.00360	0.4517	mg/L	0.10005	22.15%
Na 589.592†	401518.7	79.16	mg/L	0.178	2199	mg/L	4.94	0.22%
K 766.490†	493.8	0.5028	mg/L	0.04953	13.97	mg/L	1.376	9.85%
Li 670.784†	292.9	0.00831	mg/L	0.001690	0.2310	mg/L	0.04696	20.33%
Sr 407.771†	267901.9	0.5514	mg/L	0.00064	15.32	mg/L	0.018	0.12%

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Method Loaded
Method Name: IT11K05N **Method Last Saved: 11/5/2014 3:06:19 PM**
IEC File: 091614ICP11_IEC.iec **MSF File:**
Method Description:

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Sequence No.: 2 **Autosampler Location: 76**
Sample ID: PS L729800-02 WG752582 **Date Collected: 11/5/2014 3:31:59 PM**
Analyst: 388 **Data Type: Reprocessed on 11/5/2014 4:34:06 PM**
Logged In Analyst (Original) : ICP11
Initial Sample Wt: **Initial Sample Vol: 45 mL**
Dilution: 5X **Sample Prep Vol: 50 mL**
Wash Time:

Nebulizer Parameters: PS L729800-02 WG752582

Analyte	Back Pressure	Flow
All	203.0 kPa	0.55 L/min

Mean Data: PS L729800-02 WG752582

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	2574557.2	98.19	mg/L	1.101				1.12%
Y 360.073 R	53905.5	9.997	mg/L	0.0362				0.36%
Ag 328.068†	169654.6	0.9639	mg/L	0.01259	5.355	mg/L	0.0700	1.31%
Al 308.215†	402.5	0.9565	mg/L	0.00581	5.314	mg/L	0.0323	0.61%
As 188.979†	951.0	0.9985	mg/L	0.01427	5.547	mg/L	0.0793	1.43%
Ba 233.527†	82333.2	0.9555	mg/L	0.01872	5.308	mg/L	0.1040	1.96%
Be 313.107†	1688200.2	0.9562	mg/L	0.00267	5.312	mg/L	0.0148	0.28%
Ca 315.887†	10217602.8	145.6	mg/L	1.28	808.7	mg/L	7.11	0.88%
Cd 214.440†	67001.8	0.9384	mg/L	0.01995	5.213	mg/L	0.1108	2.13%
Co 228.616†	30612.0	0.9527	mg/L	0.01998	5.293	mg/L	0.1110	2.10%
Cr 205.560†	22687.4	0.9251	mg/L	0.01459	5.140	mg/L	0.0810	1.58%
Cu 324.752†	158724.8	0.9420	mg/L	0.01756	5.234	mg/L	0.0976	1.86%
Fe 238.863†	17237.5	0.9323	mg/L	0.01643	5.179	mg/L	0.0913	1.76%
Mg 279.077†	734101.8	105.1	mg/L	0.49	584.0	mg/L	2.75	0.47%
Mn 257.610†	694237.5	1.036	mg/L	0.0028	5.754	mg/L	0.0154	0.27%
Mo 202.031†	11498.0	0.9970	mg/L	0.01396	5.539	mg/L	0.0776	1.40%
Ni 232.003†	7986.5	1.031	mg/L	0.0094	5.728	mg/L	0.0525	0.92%
Pb 220.353†	3561.2	0.9593	mg/L	0.01171	5.329	mg/L	0.0650	1.22%
Sb 206.836†	2029.4	0.9822	mg/L	0.01315	5.456	mg/L	0.0730	1.34%
Se 196.026†	1095.2	0.9842	mg/L	0.00660	5.468	mg/L	0.0367	0.67%
Si 251.611†	1604.1	2.934	mg/L	0.0262	16.30	mg/L	0.146	0.89%
Sn 189.927†	4261.3	0.9099	mg/L	0.01161	5.055	mg/L	0.0645	1.28%
Tl 190.801†	1365.6	0.9218	mg/L	0.01210	5.121	mg/L	0.0672	1.31%
V 292.402†	102519.5	0.9860	mg/L	0.01780	5.478	mg/L	0.0989	1.80%
Zn 213.857†	57637.2	0.9148	mg/L	0.01864	5.082	mg/L	0.1036	2.04%
Ti 334.940†	688116.5	0.9076	mg/L	0.00241	5.042	mg/L	0.0134	0.27%
B 249.772†	1176.5	1.002	mg/L	0.0070	5.566	mg/L	0.0391	0.70%
Na 589.592†	1998995.1	394.1	mg/L	7.76	2190	mg/L	43.13	1.97%
K 766.490†	12702.8	12.96	mg/L	0.063	72.00	mg/L	0.352	0.49%
Li 670.784†	35782.7	1.032	mg/L	0.0019	5.732	mg/L	0.0103	0.18%
Sr 407.771†	1779598.4	3.663	mg/L	0.0765	20.35	mg/L	0.425	2.09%

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Analysis Begun

Start Time: 11/5/2014 4:35:10 PM
Logged In Analyst: ICP11
Spectrometer: Optima 8300 , S/N 078S1402113
Plasma On Time: 11/5/2014 6:37:50 AM
Technique: ICP Continuous
Autosampler: Cetac

Sample Information File: C:\pe\ICP11\Sample Information\110514ICP11.sif
Batch ID:
Results Data Set: 110514ICP11
Results Library: C:\pe\ICP11\Results\Results.mdb

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Sequence No.: 1
Sample ID: ICV 14J27639
Analyst:
Initial Sample Wt:
Dilution:
Wash Time:
Autosampler Location: 16
Date Collected: 11/5/2014 4:35:14 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

User canceled analysis.

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Analysis Begun

Start Time: 11/5/2014 4:35:23 PM **Plasma On Time: 11/5/2014 6:37:50 AM**
Logged In Analyst: ICP11 **Technique: ICP Continuous**
Spectrometer: Optima 8300 , S/N 078S1402113 **Autosampler: Cetac**

Sample Information File: C:\pe\ICP11\Sample Information\110514ICP11.sif
Batch ID:
Results Data Set: 110514ICP11
Results Library: C:\pe\ICP11\Results\Results.mdb

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Sequence No.: 1 **Autosampler Location: 16**
Sample ID: ICV 14J27639 **Date Collected: 11/5/2014 4:35:25 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**
Wash Time:
User canceled analysis.

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Analysis Begun

Start Time: 11/5/2014 4:36:17 PM **Plasma On Time: 11/5/2014 6:37:50 AM**
Logged In Analyst: ICP11 **Technique: ICP Continuous**
Spectrometer: Optima 8300 , S/N 078S1402113 **Autosampler: Cetac**

Sample Information File: C:\pe\ICP11\Sample Information\110514ICP11.sif
Batch ID:
Results Data Set: 110514ICP11
Results Library: C:\pe\ICP11\Results\Results.mdb

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Sequence No.: 80 **Autosampler Location: 86**
Sample ID: L730147-12 WG752582 **Date Collected: 11/5/2014 4:36:17 PM**
Analyst: 388 **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol: 45 mL**
Dilution: 5X **Sample Prep Vol: 50 mL**
Wash Time:

Nebulizer Parameters: L730147-12 WG752582

Analyte	Back Pressure	Flow
All	204.0 kPa	0.55 L/min

Mean Data: L730147-12 WG752582

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 360.073	2669166.6	101.8	mg/L	1.90				1.87%
Y 360.073 R	58018.4	10.76	mg/L	0.480				4.46%
Ag 328.068†	447.6	0.00128	mg/L	0.000063	0.00712	mg/L	0.000348	4.89%
Al 308.215†	3.6	-0.0284	mg/L	0.02711	-0.1577	mg/L	0.15060	95.51%
As 188.979†	7.8	0.0025	mg/L	0.00596	0.0137	mg/L	0.03310	241.80%
Ba 233.527†	262.3	0.0028	mg/L	0.00006	0.0158	mg/L	0.00035	2.25%
Be 313.107†	-186.2	-0.00018	mg/L	0.000009	-0.00100	mg/L	0.000049	4.87%
Ca 315.887†	10575278.2	150.7	mg/L	3.62	837.0	mg/L	20.11	2.40%
Cd 214.440†	-87.1	-0.0015	mg/L	0.00008	-0.0084	mg/L	0.00045	5.38%
Co 228.616†	12.4	-0.0002	mg/L	0.00022	-0.0012	mg/L	0.00124	106.46%
Cr 205.560†	76.1	0.0021	mg/L	0.00041	0.0118	mg/L	0.00225	19.10%
Cu 324.752†	138.9	-0.0017	mg/L	0.00065	-0.0093	mg/L	0.00361	38.67%
Fe 238.863†	296.7	0.0119	mg/L	0.00032	0.0661	mg/L	0.00175	2.65%
Mg 279.077†	646288.2	92.55	mg/L	1.661	514.2	mg/L	9.23	1.80%
Mn 257.610†	495.6	-0.0025	mg/L	0.00010	-0.0140	mg/L	0.00056	3.97%
Mo 202.031†	20.6	0.00112	mg/L	0.000315	0.00621	mg/L	0.001751	28.21%
Ni 232.003†	67.4	0.0117	mg/L	0.00100	0.0650	mg/L	0.00557	8.58%
Pb 220.353†	-14.7	0.00068	mg/L	0.000847	0.00376	mg/L	0.004705	125.04%
Sb 206.836†	-12.1	-0.0061	mg/L	0.00184	-0.0339	mg/L	0.01021	30.09%
Se 196.026†	19.5	0.0132	mg/L	0.00282	0.0733	mg/L	0.01566	21.38%
Si 251.611†	1178.1	2.151	mg/L	0.0328	11.95	mg/L	0.182	1.52%

Sn 189.927†	9.1	0.0020	mg/L	0.00107	0.0113	mg/L	0.00596	52.57%
Tl 190.801†	-2.4	-0.0030	mg/L	0.00264	-0.0165	mg/L	0.01469	89.04%
V 292.402†	301.3	0.0024	mg/L	0.00021	0.0135	mg/L	0.00115	8.50%
Zn 213.857†	-504.8	-0.0049	mg/L	0.00029	-0.0273	mg/L	0.00162	5.92%
Ti 334.940†	-999.5	-0.0037	mg/L	0.00013	-0.0206	mg/L	0.00070	3.41%
B 249.772†	59.7	0.0505	mg/L	0.00114	0.2807	mg/L	0.00636	2.27%
Na 589.592†	1551686.8	305.9	mg/L	11.15	1700	mg/L	61.95	3.65%
K 766.490†	1410.7	1.433	mg/L	0.0509	7.961	mg/L	0.2826	3.55%
Li 670.784†	1005.1	0.02832	mg/L	0.001542	0.1574	mg/L	0.00857	5.44%
Sr 407.771†	1379664.9	2.839	mg/L	0.1050	15.77	mg/L	0.583	3.70%

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Method Loaded
Method Name: IT11K05N **Method Last Saved: 11/5/2014 3:06:19 PM**
IEC File: 091614ICP11_IEC.iec **MSF File:**
Method Description:

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Sequence No.: 81 **Autosampler Location: 87**
Sample ID: L730147-13 WG752582 **Date Collected: 11/5/2014 4:41:32 PM**
Analyst: 388 **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol: 45 mL**
Dilution: 5X **Sample Prep Vol: 50 mL**
Wash Time: 90 **Auto Dilution Factor: 1**

Nebulizer Parameters: L730147-13 WG752582

Analyte	Back Pressure	Flow
All	204.0 kPa	0.55 L/min

Mean Data: L730147-13 WG752582

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	2873753.0	109.6	mg/L	2.14				1.95%
Y 360.073 R	60125.6	11.15	mg/L	0.323				2.90%
Ag 328.068†	652.0	0.00298	mg/L	0.000137	0.01654	mg/L	0.000759	4.59%
Al 308.215†	-1.5	-0.0279	mg/L	0.00985	-0.1549	mg/L	0.05474	35.33%
As 188.979†	11.0	0.0076	mg/L	0.01116	0.0425	mg/L	0.06200	145.93%
Ba 233.527†	347.7	0.0039	mg/L	0.00006	0.0216	mg/L	0.00034	1.55%
Be 313.107†	-154.4	-0.00011	mg/L	0.000007	-0.00061	mg/L	0.000041	6.70%
Ca 315.887†	7945727.8	113.2	mg/L	0.80	628.9	mg/L	4.45	0.71%
Cd 214.440†	-85.8	-0.0015	mg/L	0.00025	-0.0081	mg/L	0.00139	17.17%
Co 228.616†	36.9	0.0007	mg/L	0.00034	0.0038	mg/L	0.00188	49.06%
Cr 205.560†	54.7	0.0016	mg/L	0.00020	0.0088	mg/L	0.00113	12.88%
Cu 324.752†	179.6	-0.0004	mg/L	0.00010	-0.0021	mg/L	0.00053	24.74%
Fe 238.863†	231.6	0.0101	mg/L	0.00019	0.0563	mg/L	0.00106	1.89%
Mg 279.077†	142303.9	20.37	mg/L	0.607	113.2	mg/L	3.37	2.98%
Mn 257.610†	78118.2	0.1162	mg/L	0.00308	0.6453	mg/L	0.01711	2.65%
Mo 202.031†	60.7	0.00468	mg/L	0.000807	0.02601	mg/L	0.004484	17.24%
Ni 232.003†	93.9	0.0138	mg/L	0.00261	0.0768	mg/L	0.01452	18.92%
Pb 220.353†	-13.2	-0.00064	mg/L	0.001904	-0.00355	mg/L	0.010578	298.32%
Sb 206.836†	-15.5	-0.0076	mg/L	0.00413	-0.0425	mg/L	0.02296	54.08%
Se 196.026†	5.1	0.0017	mg/L	0.01600	0.0096	mg/L	0.08886	925.24%
Si 251.611†	3630.2	6.674	mg/L	0.2879	37.08	mg/L	1.599	4.31%
Sn 189.927†	-11.1	-0.0017	mg/L	0.00101	-0.0095	mg/L	0.00561	58.88%
Tl 190.801†	3.8	0.0009	mg/L	0.00238	0.0052	mg/L	0.01322	255.75%
V 292.402†	463.6	0.0043	mg/L	0.00005	0.0238	mg/L	0.00030	1.26%
Zn 213.857†	-521.1	-0.0056	mg/L	0.00064	-0.0309	mg/L	0.00356	11.52%
Ti 334.940†	-702.4	-0.0010	mg/L	0.00019	-0.0055	mg/L	0.00105	18.94%
B 249.772†	24.5	0.0207	mg/L	0.00019	0.1147	mg/L	0.00105	0.91%
Na 589.592†	58862.6	11.59	mg/L	0.159	64.40	mg/L	0.884	1.37%
K 766.490†	2033.0	2.070	mg/L	0.0388	11.50	mg/L	0.216	1.87%
Li 670.784†	641.1	0.01824	mg/L	0.001890	0.1014	mg/L	0.01050	10.36%
Sr 407.771†	883266.4	1.818	mg/L	0.0497	10.10	mg/L	0.276	2.73%

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Method Loaded
Method Name: IT11K05N **Method Last Saved: 11/5/2014 3:06:19 PM**
IEC File: 091614ICP11_IEC.iec **MSF File:**
Method Description:

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Sequence No.: 82 **Autosampler Location: 88**
Sample ID: L730147-15 WG752582 **Date Collected: 11/5/2014 4:46:46 PM**
Analyst: 388 **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol: 45 mL**
Dilution: 5X **Sample Prep Vol: 50 mL**
Wash Time: 90 **Auto Dilution Factor: 1**

Nebulizer Parameters: L730147-15 WG752582

Analyte	Back Pressure	Flow
All	205.0 kPa	0.55 L/min

Mean Data: L730147-15 WG752582

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	2733763.7	104.3	mg/L	1.65				1.58%
Y 360.073 R	58885.7	10.92	mg/L	0.232				2.12%
Ag 328.068†	644.6	0.00290	mg/L	0.000427	0.01613	mg/L	0.002372	14.70%
Al 308.215†	-4.3	-0.0360	mg/L	0.03470	-0.1998	mg/L	0.19276	96.48%
As 188.979†	7.7	0.0040	mg/L	0.00532	0.0224	mg/L	0.02956	132.22%
Ba 233.527†	567.9	0.0064	mg/L	0.00013	0.0358	mg/L	0.00073	2.03%
Be 313.107†	-135.3	-0.00010	mg/L	0.000035	-0.00055	mg/L	0.000192	34.71%
Ca 315.887†	8326780.6	118.6	mg/L	3.98	659.1	mg/L	22.13	3.36%
Cd 214.440†	-62.9	-0.0011	mg/L	0.00012	-0.0064	mg/L	0.00067	10.56%
Co 228.616†	23.8	0.0003	mg/L	0.00021	0.0015	mg/L	0.00115	79.38%
Cr 205.560†	69.4	0.0022	mg/L	0.00057	0.0120	mg/L	0.00315	26.37%
Cu 324.752†	246.0	-0.0000	mg/L	0.00057	-0.0002	mg/L	0.00316	>999.9%
Fe 238.863†	447.9	0.0218	mg/L	0.00011	0.1211	mg/L	0.00063	0.52%
Mg 279.077†	135956.7	19.47	mg/L	0.389	108.1	mg/L	2.16	2.00%
Mn 257.610†	37209.2	0.0549	mg/L	0.00104	0.3052	mg/L	0.00579	1.90%
Mo 202.031†	-6.9	-0.00121	mg/L	0.000433	-0.00673	mg/L	0.002406	35.72%
Ni 232.003†	45.1	0.0076	mg/L	0.00271	0.0422	mg/L	0.01505	35.66%
Pb 220.353†	-12.3	-0.00027	mg/L	0.001845	-0.00150	mg/L	0.010249	685.17%
Sb 206.836†	-12.4	-0.0061	mg/L	0.00241	-0.0342	mg/L	0.01339	39.20%
Se 196.026†	10.8	0.0067	mg/L	0.00800	0.0374	mg/L	0.04442	118.82%
Si 251.611†	4191.2	7.706	mg/L	0.2290	42.81	mg/L	1.272	2.97%
Sn 189.927†	-10.4	-0.0015	mg/L	0.00148	-0.0083	mg/L	0.00821	98.61%
Tl 190.801†	0.4	-0.0014	mg/L	0.00742	-0.0080	mg/L	0.04121	514.34%
V 292.402†	121.6	0.0010	mg/L	0.00018	0.0055	mg/L	0.00100	18.38%
Zn 213.857†	-632.9	-0.0072	mg/L	0.00011	-0.0400	mg/L	0.00063	1.56%
Ti 334.940†	-628.5	-0.0008	mg/L	0.00007	-0.0046	mg/L	0.00041	8.73%
B 249.772†	36.9	0.0312	mg/L	0.00158	0.1731	mg/L	0.00880	5.08%
Na 589.592†	84144.5	16.58	mg/L	0.362	92.09	mg/L	2.011	2.18%
K 766.490†	1506.5	1.533	mg/L	0.0666	8.515	mg/L	0.3699	4.34%
Li 670.784†	741.2	0.02113	mg/L	0.000947	0.1174	mg/L	0.00526	4.48%
Sr 407.771†	933177.3	1.920	mg/L	0.0401	10.67	mg/L	0.223	2.09%

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Method Loaded
Method Name: IT11K05N **Method Last Saved: 11/5/2014 3:06:19 PM**
IEC File: 091614ICP11_IEC.iec **MSF File:**
Method Description:

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Sequence No.: 83 **Autosampler Location: 89**
Sample ID: L730147-17 WG752582 **Date Collected: 11/5/2014 4:51:54 PM**
Analyst: 388 **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol: 45 mL**
Dilution: 5X **Sample Prep Vol: 50 mL**
Wash Time: 90 **Auto Dilution Factor: 1**

Nebulizer Parameters: L730147-17 WG752582

Analyte	Back Pressure	Flow
All	205.0 kPa	0.55 L/min

Mean Data: L730147-17 WG752582

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	2865217.3	109.3	mg/L	1.82				1.66%
Y 360.073 R	57930.0	10.74	mg/L	0.397				3.69%
Ag 328.068†	562.7	0.00247	mg/L	0.000417	0.01372	mg/L	0.002317	16.89%
Al 308.215†	1.8	-0.0194	mg/L	0.02103	-0.1076	mg/L	0.11681	108.57%
As 188.979†	10.4	0.0071	mg/L	0.00337	0.0392	mg/L	0.01874	47.84%
Ba 233.527†	454.5	0.0051	mg/L	0.00004	0.0285	mg/L	0.00020	0.69%
Be 313.107†	-209.9	-0.00014	mg/L	0.000009	-0.00079	mg/L	0.000049	6.18%
Ca 315.887†	7858408.1	112.0	mg/L	3.10	622.0	mg/L	17.23	2.77%
Cd 214.440†	-96.5	-0.0016	mg/L	0.00010	-0.0089	mg/L	0.00053	5.95%
Co 228.616†	28.6	0.0004	mg/L	0.00058	0.0024	mg/L	0.00323	132.54%
Cr 205.560†	63.5	0.0019	mg/L	0.00011	0.0108	mg/L	0.00061	5.65%
Cu 324.752†	70.9	-0.0010	mg/L	0.00017	-0.0057	mg/L	0.00092	16.12%
Fe 238.863†	157.1	0.0061	mg/L	0.00050	0.0338	mg/L	0.00278	8.22%
Mg 279.077†	151191.7	21.65	mg/L	0.302	120.3	mg/L	1.68	1.40%
Mn 257.610†	92801.0	0.1381	mg/L	0.00198	0.7672	mg/L	0.01103	1.44%
Mo 202.031†	145.0	0.01200	mg/L	0.000116	0.06667	mg/L	0.000642	0.96%
Ni 232.003†	109.5	0.0158	mg/L	0.00274	0.0879	mg/L	0.01521	17.30%
Pb 220.353†	-12.7	-0.00051	mg/L	0.003785	-0.00283	mg/L	0.021029	744.01%
Sb 206.836†	-22.9	-0.0112	mg/L	0.00367	-0.0622	mg/L	0.02042	32.83%
Se 196.026†	8.4	0.0047	mg/L	0.00352	0.0262	mg/L	0.01954	74.62%
Si 251.611†	3930.1	7.225	mg/L	0.2941	40.14	mg/L	1.634	4.07%
Sn 189.927†	-9.8	-0.0015	mg/L	0.00040	-0.0081	mg/L	0.00223	27.44%
Tl 190.801†	1.6	-0.0005	mg/L	0.00196	-0.0030	mg/L	0.01089	369.23%
V 292.402†	266.1	0.0024	mg/L	0.00016	0.0132	mg/L	0.00090	6.80%
Zn 213.857†	-559.6	-0.0062	mg/L	0.00007	-0.0345	mg/L	0.00038	1.10%
Ti 334.940†	-678.5	-0.0010	mg/L	0.00012	-0.0056	mg/L	0.00065	11.59%
B 249.772†	33.9	0.0287	mg/L	0.00111	0.1593	mg/L	0.00616	3.87%
Na 589.592†	62427.9	12.30	mg/L	0.074	68.31	mg/L	0.410	0.60%
K 766.490†	1640.3	1.669	mg/L	0.0699	9.275	mg/L	0.3883	4.19%
Li 670.784†	751.7	0.02143	mg/L	0.001583	0.1191	mg/L	0.00879	7.39%
Sr 407.771†	1002111.5	2.062	mg/L	0.0874	11.46	mg/L	0.486	4.24%

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Method Loaded
Method Name: IT11K05N **Method Last Saved: 11/5/2014 3:06:19 PM**
IEC File: 091614ICP11_IEC.iec **MSF File:**
Method Description:

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Sequence No.: 84 **Autosampler Location: 90**
Sample ID: MS L730147-17 WG752582 **Date Collected: 11/5/2014 4:57:09 PM**
Analyst: 388 **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol: 45 mL**
Dilution: 5X **Sample Prep Vol: 50 mL**
Wash Time: 90 **Auto Dilution Factor: 1**

Nebulizer Parameters: MS L730147-17 WG752582

Analyte	Back Pressure	Flow
All	206.0 kPa	0.55 L/min

Mean Data: MS L730147-17 WG752582

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 360.073	2809358.5	107.1	mg/L	1.06				0.99%
Y 360.073 R	60475.0	11.22	mg/L	0.056				0.50%
Ag 328.068†	31815.2	0.1803	mg/L	0.00120	1.001	mg/L	0.0067	0.66%
Al 308.215†	81.1	0.1759	mg/L	0.01402	0.9772	mg/L	0.07786	7.97%
As 188.979†	192.9	0.1997	mg/L	0.00557	1.110	mg/L	0.0310	2.79%
Ba 233.527†	16661.9	0.1933	mg/L	0.00218	1.074	mg/L	0.0121	1.13%
Be 313.107†	318095.7	0.1802	mg/L	0.00019	1.001	mg/L	0.0011	0.11%
Ca 315.887†	7957467.8	113.4	mg/L	1.48	629.8	mg/L	8.21	1.30%
Cd 214.440†	12890.9	0.1803	mg/L	0.00172	1.002	mg/L	0.0095	0.95%
Co 228.616†	6347.5	0.1972	mg/L	0.00438	1.096	mg/L	0.0244	2.22%
Cr 205.560†	4693.3	0.1909	mg/L	0.00482	1.061	mg/L	0.0268	2.52%
Cu 324.752†	30198.2	0.1782	mg/L	0.00214	0.9902	mg/L	0.01187	1.20%
Fe 238.863†	3536.4	0.1896	mg/L	0.00196	1.054	mg/L	0.0109	1.03%
Mg 279.077†	165113.2	23.64	mg/L	0.313	131.3	mg/L	1.74	1.33%
Mn 257.610†	220851.0	0.3297	mg/L	0.00393	1.832	mg/L	0.0218	1.19%
Mo 202.031†	2296.8	0.1987	mg/L	0.00524	1.104	mg/L	0.0291	2.64%
Ni 232.003†	1575.8	0.2046	mg/L	0.00329	1.137	mg/L	0.0183	1.61%
Pb 220.353†	701.4	0.1910	mg/L	0.00348	1.061	mg/L	0.0194	1.82%
Sb 206.836†	367.1	0.1776	mg/L	0.00155	0.9867	mg/L	0.00859	0.87%
Se 196.026†	196.3	0.1743	mg/L	0.01432	0.9683	mg/L	0.07958	8.22%
Si 251.611†	4150.4	7.631	mg/L	0.2377	42.39	mg/L	1.321	3.12%
Sn 189.927†	838.0	0.1796	mg/L	0.00694	0.9977	mg/L	0.03856	3.87%
Tl 190.801†	276.0	0.1849	mg/L	0.00210	1.027	mg/L	0.0117	1.13%
V 292.402†	19883.9	0.1911	mg/L	0.00223	1.062	mg/L	0.0124	1.17%
Zn 213.857†	10444.7	0.1679	mg/L	0.00162	0.9329	mg/L	0.00900	0.96%
Ti 334.940†	136068.4	0.1799	mg/L	0.00196	0.9992	mg/L	0.01090	1.09%
B 249.772†	256.0	0.2178	mg/L	0.00796	1.210	mg/L	0.0442	3.65%
Na 589.592†	70757.8	13.94	mg/L	0.153	77.43	mg/L	0.850	1.10%
K 766.490†	3174.8	3.236	mg/L	0.0977	17.98	mg/L	0.543	3.02%
Li 670.784†	7042.7	0.2030	mg/L	0.00321	1.128	mg/L	0.0178	1.58%
Sr 407.771†	1048405.8	2.158	mg/L	0.0501	11.99	mg/L	0.279	2.32%

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Method Loaded
Method Name: IT11K05N **Method Last Saved: 11/5/2014 3:06:19 PM**
IEC File: 091614ICP11_IEC.iec **MSF File:**
Method Description:

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Sequence No.: 85 **Autosampler Location: 91**
Sample ID: MSD L730147-17 WG752582 **Date Collected: 11/5/2014 5:02:24 PM**
Analyst: 388 **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol: 45 mL**
Dilution: 5X **Sample Prep Vol: 50 mL**
Wash Time: 90 **Auto Dilution Factor: 1**

Nebulizer Parameters: MSD L730147-17 WG752582

Analyte	Back Pressure	Flow
All	205.0 kPa	0.55 L/min

Mean Data: MSD L730147-17 WG752582

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 360.073	2725453.9	103.9	mg/L	4.08				3.93%
Y 360.073 R	58506.9	10.85	mg/L	0.238				2.19%
Ag 328.068†	31837.6	0.1804	mg/L	0.00346	1.002	mg/L	0.0192	1.92%
Al 308.215†	84.9	0.1854	mg/L	0.03078	1.030	mg/L	0.1710	16.60%
As 188.979†	181.6	0.1877	mg/L	0.00618	1.043	mg/L	0.0344	3.29%
Ba 233.527†	16192.0	0.1878	mg/L	0.00347	1.043	mg/L	0.0193	1.85%
Be 313.107†	317823.4	0.1800	mg/L	0.00070	1.000	mg/L	0.0039	0.39%
Ca 315.887†	8028506.9	114.4	mg/L	0.93	635.5	mg/L	5.16	0.81%
Cd 214.440†	12746.9	0.1783	mg/L	0.00301	0.9907	mg/L	0.01670	1.69%
Co 228.616†	6231.0	0.1936	mg/L	0.00691	1.075	mg/L	0.0384	3.57%
Cr 205.560†	4613.1	0.1876	mg/L	0.00683	1.042	mg/L	0.0379	3.64%
Cu 324.752†	30294.5	0.1788	mg/L	0.00418	0.9933	mg/L	0.02320	2.34%
Fe 238.863†	3409.1	0.1827	mg/L	0.00260	1.015	mg/L	0.0145	1.42%
Mg 279.077†	163079.4	23.35	mg/L	0.411	129.7	mg/L	2.28	1.76%
Mn 257.610†	219448.3	0.3277	mg/L	0.00584	1.820	mg/L	0.0324	1.78%
Mo 202.031†	2267.8	0.1962	mg/L	0.00804	1.090	mg/L	0.0447	4.10%
Ni 232.003†	1535.1	0.1994	mg/L	0.00406	1.108	mg/L	0.0226	2.04%
Pb 220.353†	686.0	0.1869	mg/L	0.00670	1.038	mg/L	0.0372	3.59%
Sb 206.836†	370.8	0.1794	mg/L	0.00755	0.9964	mg/L	0.04196	4.21%
Se 196.026†	203.6	0.1809	mg/L	0.00798	1.005	mg/L	0.0443	4.41%
Si 251.611†	4109.9	7.556	mg/L	0.3122	41.98	mg/L	1.735	4.13%
Sn 189.927†	825.3	0.1769	mg/L	0.00635	0.9827	mg/L	0.03529	3.59%
Tl 190.801†	276.7	0.1854	mg/L	0.00614	1.030	mg/L	0.0341	3.31%
V 292.402†	19765.0	0.1900	mg/L	0.00321	1.056	mg/L	0.0178	1.69%
Zn 213.857†	10385.0	0.1670	mg/L	0.00428	0.9278	mg/L	0.02377	2.56%
Ti 334.940†	135323.2	0.1789	mg/L	0.00367	0.9938	mg/L	0.02038	2.05%
B 249.772†	257.4	0.2191	mg/L	0.01122	1.217	mg/L	0.0623	5.12%
Na 589.592†	71345.4	14.05	mg/L	0.025	78.07	mg/L	0.139	0.18%
K 766.490†	3257.3	3.320	mg/L	0.0556	18.44	mg/L	0.309	1.68%
Li 670.784†	7111.5	0.2049	mg/L	0.00142	1.139	mg/L	0.0079	0.69%
Sr 407.771†	1060297.2	2.182	mg/L	0.0428	12.12	mg/L	0.238	1.96%

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Method Loaded
Method Name: IT11K05N **Method Last Saved: 11/5/2014 3:06:19 PM**
IEC File: 091614ICP11_IEC.iec **MSF File:**
Method Description:

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Sequence No.: 86 **Autosampler Location: 3**
Sample ID: CCV 14J27642 **Date Collected: 11/5/2014 5:07:40 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**
Wash Time: 90 **Auto Dilution Factor: 1**

Nebulizer Parameters: CCV 14J27642

Analyte	Back Pressure	Flow
All	205.0 kPa	0.55 L/min

Mean Data: CCV 14J27642

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 360.073	2759949.2	105.3 mg/L	0.80			0.76%
Y 360.073 R	56405.6	10.46 mg/L	0.128			1.23%
Ag 328.068†	169235.2	0.9628 mg/L	0.00107	0.9628 mg/L	0.00107	0.11%
QC value within limits for Ag 328.068 Recovery = 96.28%						
Al 308.215†	3968.5	9.929 mg/L	0.2722	9.929 mg/L	0.2722	2.74%
QC value within limits for Al 308.215 Recovery = 99.29%						
As 188.979†	1885.5	1.989 mg/L	0.0199	1.989 mg/L	0.0199	1.00%
QC value within limits for As 188.979 Recovery = 99.44%						
Ba 233.527†	43305.2	0.5023 mg/L	0.00144	0.5023 mg/L	0.00144	0.29%
QC value within limits for Ba 233.527 Recovery = 100.46%						
Be 313.107†	349870.1	0.1982 mg/L	0.00038	0.1982 mg/L	0.00038	0.19%
QC value within limits for Be 313.107 Recovery = 99.08%						
Ca 315.887†	3510134.1	50.01 mg/L	0.099	50.01 mg/L	0.099	0.20%
QC value within limits for Ca 315.887 Recovery = 100.03%						
Cd 214.440†	35998.3	0.5037 mg/L	0.00094	0.5037 mg/L	0.00094	0.19%
QC value within limits for Cd 214.440 Recovery = 100.74%						
Co 228.616†	32299.2	1.006 mg/L	0.0036	1.006 mg/L	0.0036	0.36%
QC value within limits for Co 228.616 Recovery = 100.56%						
Cr 205.560†	25764.6	1.051 mg/L	0.0143	1.051 mg/L	0.0143	1.36%
QC value within limits for Cr 205.560 Recovery = 105.13%						
Cu 324.752†	323672.8	1.926 mg/L	0.0008	1.926 mg/L	0.0008	0.04%
QC value within limits for Cu 324.752 Recovery = 96.30%						
Fe 238.863†	180696.2	9.816 mg/L	0.0204	9.816 mg/L	0.0204	0.21%
QC value within limits for Fe 238.863 Recovery = 98.16%						
Mg 279.077†	69812.2	9.990 mg/L	0.0313	9.990 mg/L	0.0313	0.31%
QC value within limits for Mg 279.077 Recovery = 99.90%						
Mn 257.610†	672843.6	1.007 mg/L	0.0015	1.007 mg/L	0.0015	0.15%
QC value within limits for Mn 257.610 Recovery = 100.69%						
Mo 202.031†	5765.7	0.5005 mg/L	0.00604	0.5005 mg/L	0.00604	1.21%
QC value within limits for Mo 202.031 Recovery = 100.10%						
Ni 232.003†	16021.2	2.064 mg/L	0.0268	2.064 mg/L	0.0268	1.30%
QC value within limits for Ni 232.003 Recovery = 103.18%						
Pb 220.353†	1885.5	0.5063 mg/L	0.00820	0.5063 mg/L	0.00820	1.62%
QC value within limits for Pb 220.353 Recovery = 101.26%						
Sb 206.836†	4066.0	1.966 mg/L	0.0207	1.966 mg/L	0.0207	1.05%
QC value within limits for Sb 206.836 Recovery = 98.28%						
Se 196.026†	2188.9	1.979 mg/L	0.0384	1.979 mg/L	0.0384	1.94%
QC value within limits for Se 196.026 Recovery = 98.95%						
Si 251.611†	1118.0	2.056 mg/L	0.0506	2.056 mg/L	0.0506	2.46%
QC value within limits for Si 251.611 Recovery = 102.81%						
Sn 189.927†	9366.4	2.002 mg/L	0.0265	2.002 mg/L	0.0265	1.32%
QC value within limits for Sn 189.927 Recovery = 100.08%						
Tl 190.801†	2982.8	2.017 mg/L	0.0268	2.017 mg/L	0.0268	1.33%
QC value within limits for Tl 190.801 Recovery = 100.86%						
V 292.402†	103398.4	0.9942 mg/L	0.00172	0.9942 mg/L	0.00172	0.17%
QC value within limits for V 292.402 Recovery = 99.42%						
Zn 213.857†	182435.1	2.887 mg/L	0.0053	2.887 mg/L	0.0053	0.18%
QC value within limits for Zn 213.857 Recovery = 96.23%						

Ti 334.940†	751600.8	0.9944 mg/L	0.00117	0.9944 mg/L	0.00117	0.12%
QC value within limits for Ti 334.940 Recovery = 99.44%						
B 249.772†	2312.3	1.953 mg/L	0.0487	1.953 mg/L	0.0487	2.49%
QC value within limits for B 249.772 Recovery = 97.63%						
Na 589.592†	258196.6	50.90 mg/L	0.099	50.90 mg/L	0.099	0.20%
QC value within limits for Na 589.592 Recovery = 101.80%						
K 766.490†	46803.7	47.77 mg/L	0.193	47.77 mg/L	0.193	0.40%
QC value within limits for K 766.490 Recovery = 95.54%						
Li 670.784†	51082.0	1.474 mg/L	0.0046	1.474 mg/L	0.0046	0.31%
QC value within limits for Li 670.784 Recovery = 98.26%						
Sr 407.771†	498682.0	1.026 mg/L	0.0026	1.026 mg/L	0.0026	0.25%
QC value within limits for Sr 407.771 Recovery = 102.64%						

All analyte(s) passed QC.

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Method Loaded
Method Name: IT11K05N **Method Last Saved: 11/5/2014 3:06:19 PM**
IEC File: 091614ICP11_IEC.iec **MSF File:**
Method Description:

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Sequence No.: 87 **Autosampler Location: 2**
Sample ID: CCB **Date Collected: 11/5/2014 5:12:37 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**
Wash Time: 90 **Auto Dilution Factor: 1**

Nebulizer Parameters: CCB

Analyte	Back Pressure	Flow
All	204.0 kPa	0.55 L/min

Mean Data: CCB

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 360.073	2842594.3	108.4	mg/L	0.50				0.46%
Y 360.073 R	58970.7	10.94	mg/L	0.278				2.54%
Ag 328.068†	614.6	0.00349	mg/L	0.000467	0.00349	mg/L	0.000467	13.39%
QC value within limits for Ag 328.068 Recovery = Not calculated								
Al 308.215†	0.5	0.0014	mg/L	0.02144	0.0014	mg/L	0.02144	>999.9%
QC value within limits for Al 308.215 Recovery = Not calculated								
As 188.979†	-0.2	-0.0002	mg/L	0.00595	-0.0002	mg/L	0.00595	>999.9%
QC value within limits for As 188.979 Recovery = Not calculated								
Ba 233.527†	17.9	0.0002	mg/L	0.00007	0.0002	mg/L	0.00007	35.41%
QC value within limits for Ba 233.527 Recovery = Not calculated								
Be 313.107†	76.2	0.00004	mg/L	0.000035	0.00004	mg/L	0.000035	80.82%
QC value within limits for Be 313.107 Recovery = Not calculated								
Ca 315.887†	1758.3	0.02505	mg/L	0.003159	0.02505	mg/L	0.003159	12.61%
QC value within limits for Ca 315.887 Recovery = Not calculated								
Cd 214.440†	-20.8	-0.0003	mg/L	0.00012	-0.0003	mg/L	0.00012	39.74%
QC value within limits for Cd 214.440 Recovery = Not calculated								
Co 228.616†	19.1	0.0006	mg/L	0.00025	0.0006	mg/L	0.00025	41.92%
QC value within limits for Co 228.616 Recovery = Not calculated								
Cr 205.560†	32.4	0.0013	mg/L	0.00023	0.0013	mg/L	0.00023	17.01%
QC value within limits for Cr 205.560 Recovery = Not calculated								
Cu 324.752†	561.4	0.0033	mg/L	0.00061	0.0033	mg/L	0.00061	18.12%
QC value within limits for Cu 324.752 Recovery = Not calculated								
Fe 238.863†	78.9	0.0043	mg/L	0.00138	0.0043	mg/L	0.00138	32.32%
QC value within limits for Fe 238.863 Recovery = Not calculated								
Mg 279.077†	40.1	0.0057	mg/L	0.00135	0.0057	mg/L	0.00135	23.50%
QC value within limits for Mg 279.077 Recovery = Not calculated								
Mn 257.610†	330.4	0.0005	mg/L	0.00006	0.0005	mg/L	0.00006	13.00%
QC value within limits for Mn 257.610 Recovery = Not calculated								
Mo 202.031†	-15.0	-0.00130	mg/L	0.000180	-0.00130	mg/L	0.000180	13.85%
QC value within limits for Mo 202.031 Recovery = Not calculated								
Ni 232.003†	15.5	0.0020	mg/L	0.00105	0.0020	mg/L	0.00105	52.61%
QC value within limits for Ni 232.003 Recovery = Not calculated								
Pb 220.353†	-11.3	-0.00303	mg/L	0.001681	-0.00303	mg/L	0.001681	55.48%
QC value within limits for Pb 220.353 Recovery = Not calculated								
Sb 206.836†	-15.6	-0.0075	mg/L	0.00183	-0.0075	mg/L	0.00183	24.39%
QC value within limits for Sb 206.836 Recovery = Not calculated								
Se 196.026†	-14.2	-0.0129	mg/L	0.00683	-0.0129	mg/L	0.00683	53.14%
QC value within limits for Se 196.026 Recovery = Not calculated								
Si 251.611†	-0.4	-0.0008	mg/L	0.00306	-0.0008	mg/L	0.00306	379.84%
QC value within limits for Si 251.611 Recovery = Not calculated								
Sn 189.927†	-5.5	-0.0012	mg/L	0.00087	-0.0012	mg/L	0.00087	73.25%
QC value within limits for Sn 189.927 Recovery = Not calculated								
Tl 190.801†	0.7	0.0005	mg/L	0.00188	0.0005	mg/L	0.00188	411.42%
QC value within limits for Tl 190.801 Recovery = Not calculated								
V 292.402†	30.2	0.0003	mg/L	0.00057	0.0003	mg/L	0.00057	196.67%
QC value within limits for V 292.402 Recovery = Not calculated								
Zn 213.857†	176.2	0.0028	mg/L	0.00014	0.0028	mg/L	0.00014	4.95%
QC value within limits for Zn 213.857 Recovery = Not calculated								

Ti 334.940†	473.8	0.0006 mg/L	0.00012	0.0006 mg/L	0.00012	19.17%
QC value within limits for Ti 334.940 Recovery = Not calculated						
B 249.772†	23.8	0.0203 mg/L	0.00267	0.0203 mg/L	0.00267	13.11%
QC value within limits for B 249.772 Recovery = Not calculated						
Na 589.592†	1204.0	0.2374 mg/L	0.02132	0.2374 mg/L	0.02132	8.98%
QC value within limits for Na 589.592 Recovery = Not calculated						
K 766.490†	81.5	0.0832 mg/L	0.02020	0.0832 mg/L	0.02020	24.27%
QC value within limits for K 766.490 Recovery = Not calculated						
Li 670.784†	67.8	0.00196 mg/L	0.001777	0.00196 mg/L	0.001777	90.78%
QC value within limits for Li 670.784 Recovery = Not calculated						
Sr 407.771†	395.8	0.00081 mg/L	0.000070	0.00081 mg/L	0.000070	8.64%
QC value within limits for Sr 407.771 Recovery = Not calculated						

All analyte(s) passed QC.

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Method Loaded
Method Name: IT11K05N **Method Last Saved: 11/5/2014 3:06:19 PM**
IEC File: 091614ICP11_IEC.iec **MSF File:**
Method Description:

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Sequence No.: 88 **Autosampler Location: 92**
Sample ID: L730147-19 WG752582 **Date Collected: 11/5/2014 5:17:38 PM**
Analyst: 388 **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol: 45 mL**
Dilution: 5X **Sample Prep Vol: 50 mL**
Wash Time: 90 **Auto Dilution Factor: 1**

Nebulizer Parameters: L730147-19 WG752582

Analyte	Back Pressure	Flow
All	205.0 kPa	0.55 L/min

Mean Data: L730147-19 WG752582

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	2659680.2	101.4	mg/L	0.98				0.97%
Y 360.073 R	57712.6	10.70	mg/L	0.463				4.32%
Ag 328.068†	591.5	0.00257	mg/L	0.000547	0.01429	mg/L	0.003039	21.27%
Al 308.215†	1.8	-0.0213	mg/L	0.01073	-0.1181	mg/L	0.05959	50.45%
As 188.979†	7.5	0.0037	mg/L	0.00268	0.0204	mg/L	0.01487	72.74%
Ba 233.527†	416.4	0.0047	mg/L	0.00010	0.0260	mg/L	0.00056	2.16%
Be 313.107†	-108.3	-0.00009	mg/L	0.000007	-0.00049	mg/L	0.000041	8.37%
Ca 315.887†	8364101.4	119.2	mg/L	0.12	662.0	mg/L	0.66	0.10%
Cd 214.440†	-55.8	-0.0010	mg/L	0.00013	-0.0058	mg/L	0.00070	12.06%
Co 228.616†	14.5	-0.0000	mg/L	0.00019	-0.0002	mg/L	0.00107	625.99%
Cr 205.560†	52.6	0.0015	mg/L	0.00010	0.0081	mg/L	0.00054	6.68%
Cu 324.752†	639.4	0.0022	mg/L	0.00042	0.0124	mg/L	0.00233	18.75%
Fe 238.863†	321.5	0.0148	mg/L	0.00067	0.0823	mg/L	0.00372	4.51%
Mg 279.077†	181317.2	25.96	mg/L	0.429	144.2	mg/L	2.38	1.65%
Mn 257.610†	121891.2	0.1815	mg/L	0.00285	1.008	mg/L	0.0158	1.57%
Mo 202.031†	95.2	0.00766	mg/L	0.000384	0.04254	mg/L	0.002131	5.01%
Ni 232.003†	30.0	0.0057	mg/L	0.00012	0.0319	mg/L	0.00064	2.01%
Pb 220.353†	-12.5	-0.00025	mg/L	0.001912	-0.00137	mg/L	0.010623	773.09%
Sb 206.836†	-9.4	-0.0047	mg/L	0.00565	-0.0262	mg/L	0.03137	119.58%
Se 196.026†	7.3	0.0035	mg/L	0.00112	0.0196	mg/L	0.00622	31.69%
Si 251.611†	4109.7	7.555	mg/L	0.2178	41.97	mg/L	1.210	2.88%
Sn 189.927†	3.0	0.0013	mg/L	0.00166	0.0072	mg/L	0.00923	128.96%
Tl 190.801†	-2.2	-0.0032	mg/L	0.00397	-0.0176	mg/L	0.02207	125.45%
V 292.402†	215.5	0.0019	mg/L	0.00021	0.0104	mg/L	0.00115	11.10%
Zn 213.857†	-581.2	-0.0064	mg/L	0.00048	-0.0356	mg/L	0.00269	7.55%
Ti 334.940†	-607.8	-0.0010	mg/L	0.00011	-0.0057	mg/L	0.00061	10.65%
B 249.772†	54.0	0.0458	mg/L	0.00107	0.2543	mg/L	0.00593	2.33%
Na 589.592†	125604.8	24.75	mg/L	0.650	137.5	mg/L	3.61	2.63%
K 766.490†	2548.5	2.596	mg/L	0.0893	14.42	mg/L	0.496	3.44%
Li 670.784†	915.0	0.02611	mg/L	0.001045	0.1451	mg/L	0.00581	4.00%
Sr 407.771†	939289.9	1.933	mg/L	0.0480	10.74	mg/L	0.267	2.48%

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Method Loaded
Method Name: IT11K05N **Method Last Saved: 11/5/2014 3:06:19 PM**
IEC File: 091614ICP11_IEC.iec **MSF File:**
Method Description:

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Sequence No.: 89 **Autosampler Location: 93**
Sample ID: L730147-21 WG752582 **Date Collected: 11/5/2014 5:22:47 PM**
Analyst: 388 **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol: 45 mL**
Dilution: 5X **Sample Prep Vol: 50 mL**
Wash Time: 90 **Auto Dilution Factor: 1**

Nebulizer Parameters: L730147-21 WG752582

Analyte	Back Pressure	Flow
All	205.0 kPa	0.55 L/min

Mean Data: L730147-21 WG752582

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	2762503.1	105.4	mg/L	0.59				0.56%
Y 360.073 R	59895.2	11.11	mg/L	0.264				2.38%
Ag 328.068†	640.6	0.00288	mg/L	0.000499	0.01600	mg/L	0.002775	17.34%
Al 308.215†	-5.6	-0.0387	mg/L	0.01106	-0.2151	mg/L	0.06143	28.56%
As 188.979†	8.1	0.0045	mg/L	0.00130	0.0248	mg/L	0.00722	29.09%
Ba 233.527†	412.0	0.0046	mg/L	0.00004	0.0258	mg/L	0.00023	0.91%
Be 313.107†	-178.7	-0.00013	mg/L	0.000035	-0.00071	mg/L	0.000195	27.51%
Ca 315.887†	8045824.8	114.6	mg/L	1.43	636.8	mg/L	7.95	1.25%
Cd 214.440†	-69.9	-0.0012	mg/L	0.00005	-0.0068	mg/L	0.00027	4.02%
Co 228.616†	17.8	0.0001	mg/L	0.00029	0.0005	mg/L	0.00164	327.09%
Cr 205.560†	57.7	0.0017	mg/L	0.00044	0.0094	mg/L	0.00243	25.92%
Cu 324.752†	276.2	0.0001	mg/L	0.00029	0.0007	mg/L	0.00159	218.25%
Fe 238.863†	206.3	0.0087	mg/L	0.00099	0.0481	mg/L	0.00552	11.47%
Mg 279.077†	175038.9	25.06	mg/L	0.051	139.2	mg/L	0.28	0.20%
Mn 257.610†	120794.7	0.1799	mg/L	0.00066	0.9994	mg/L	0.00368	0.37%
Mo 202.031†	87.5	0.00701	mg/L	0.000395	0.03892	mg/L	0.002194	5.64%
Ni 232.003†	53.6	0.0087	mg/L	0.00032	0.0483	mg/L	0.00179	3.70%
Pb 220.353†	-11.2	-0.00002	mg/L	0.001902	-0.00012	mg/L	0.010569	>999.9%
Sb 206.836†	-14.8	-0.0073	mg/L	0.00094	-0.0405	mg/L	0.00525	12.97%
Se 196.026†	5.1	0.0017	mg/L	0.00145	0.0092	mg/L	0.00804	87.69%
Si 251.611†	4246.2	7.807	mg/L	0.0643	43.37	mg/L	0.357	0.82%
Sn 189.927†	-11.8	-0.0019	mg/L	0.00204	-0.0106	mg/L	0.01131	106.91%
Tl 190.801†	7.2	0.0033	mg/L	0.00105	0.0183	mg/L	0.00582	31.84%
V 292.402†	181.6	0.0015	mg/L	0.00013	0.0086	mg/L	0.00072	8.42%
Zn 213.857†	-490.0	-0.0051	mg/L	0.00013	-0.0282	mg/L	0.00072	2.55%
Ti 334.940†	-620.3	-0.0010	mg/L	0.00010	-0.0058	mg/L	0.00055	9.52%
B 249.772†	47.6	0.0403	mg/L	0.00184	0.2240	mg/L	0.01025	4.58%
Na 589.592†	125476.0	24.73	mg/L	0.485	137.4	mg/L	2.70	1.96%
K 766.490†	2447.0	2.493	mg/L	0.0257	13.85	mg/L	0.143	1.03%
Li 670.784†	959.4	0.02740	mg/L	0.001554	0.1522	mg/L	0.00863	5.67%
Sr 407.771†	964760.9	1.985	mg/L	0.0365	11.03	mg/L	0.203	1.84%

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Method Loaded
Method Name: IT11K05N **Method Last Saved: 11/5/2014 3:06:19 PM**
IEC File: 091614ICP11_IEC.iec **MSF File:**
Method Description:

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Sequence No.: 90 **Autosampler Location: 3**
Sample ID: CCV 14J27642 **Date Collected: 11/5/2014 5:28:02 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**
Wash Time: 90 **Auto Dilution Factor: 1**

Nebulizer Parameters: CCV 14J27642

Analyte	Back Pressure	Flow
All	206.0 kPa	0.55 L/min

Mean Data: CCV 14J27642

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 360.073	2898869.0	110.6 mg/L	1.92			1.73%
Y 360.073 R	57934.1	10.74 mg/L	0.144			1.34%
Ag 328.068†	168026.8	0.9560 mg/L	0.00101	0.9560 mg/L	0.00101	0.11%
QC value within limits for Ag 328.068 Recovery = 95.60%						
Al 308.215†	3874.2	9.692 mg/L	0.4252	9.692 mg/L	0.4252	4.39%
QC value within limits for Al 308.215 Recovery = 96.92%						
As 188.979†	1884.5	1.988 mg/L	0.0564	1.988 mg/L	0.0564	2.84%
QC value within limits for As 188.979 Recovery = 99.39%						
Ba 233.527†	43031.8	0.4991 mg/L	0.00095	0.4991 mg/L	0.00095	0.19%
QC value within limits for Ba 233.527 Recovery = 99.82%						
Be 313.107†	349272.1	0.1978 mg/L	0.00037	0.1978 mg/L	0.00037	0.19%
QC value within limits for Be 313.107 Recovery = 98.91%						
Ca 315.887†	3517833.6	50.12 mg/L	0.192	50.12 mg/L	0.192	0.38%
QC value within limits for Ca 315.887 Recovery = 100.25%						
Cd 214.440†	36139.2	0.5056 mg/L	0.00201	0.5056 mg/L	0.00201	0.40%
QC value within limits for Cd 214.440 Recovery = 101.13%						
Co 228.616†	33723.5	1.050 mg/L	0.0283	1.050 mg/L	0.0283	2.70%
QC value within limits for Co 228.616 Recovery = 105.00%						
Cr 205.560†	25534.6	1.042 mg/L	0.0278	1.042 mg/L	0.0278	2.67%
QC value within limits for Cr 205.560 Recovery = 104.19%						
Cu 324.752†	321571.5	1.914 mg/L	0.0031	1.914 mg/L	0.0031	0.16%
QC value within limits for Cu 324.752 Recovery = 95.68%						
Fe 238.863†	180895.7	9.827 mg/L	0.0435	9.827 mg/L	0.0435	0.44%
QC value within limits for Fe 238.863 Recovery = 98.27%						
Mg 279.077†	69827.4	9.992 mg/L	0.0233	9.992 mg/L	0.0233	0.23%
QC value within limits for Mg 279.077 Recovery = 99.92%						
Mn 257.610†	671559.0	1.005 mg/L	0.0031	1.005 mg/L	0.0031	0.30%
QC value within limits for Mn 257.610 Recovery = 100.50%						
Mo 202.031†	5690.9	0.4940 mg/L	0.01537	0.4940 mg/L	0.01537	3.11%
QC value within limits for Mo 202.031 Recovery = 98.80%						
Ni 232.003†	15895.7	2.047 mg/L	0.0534	2.047 mg/L	0.0534	2.61%
QC value within limits for Ni 232.003 Recovery = 102.37%						
Pb 220.353†	1876.4	0.5038 mg/L	0.01375	0.5038 mg/L	0.01375	2.73%
QC value within limits for Pb 220.353 Recovery = 100.76%						
Sb 206.836†	4031.3	1.949 mg/L	0.0507	1.949 mg/L	0.0507	2.60%
QC value within limits for Sb 206.836 Recovery = 97.44%						
Se 196.026†	2187.6	1.978 mg/L	0.0581	1.978 mg/L	0.0581	2.94%
QC value within limits for Se 196.026 Recovery = 98.89%						
Si 251.611†	1089.4	2.004 mg/L	0.0875	2.004 mg/L	0.0875	4.37%
QC value within limits for Si 251.611 Recovery = 100.18%						
Sn 189.927†	9305.8	1.989 mg/L	0.0539	1.989 mg/L	0.0539	2.71%
QC value within limits for Sn 189.927 Recovery = 99.43%						
Tl 190.801†	2955.3	1.999 mg/L	0.0538	1.999 mg/L	0.0538	2.69%
QC value within limits for Tl 190.801 Recovery = 99.94%						
V 292.402†	103073.6	0.9911 mg/L	0.00132	0.9911 mg/L	0.00132	0.13%
QC value within limits for V 292.402 Recovery = 99.11%						
Zn 213.857†	182072.9	2.881 mg/L	0.0071	2.881 mg/L	0.0071	0.25%
QC value within limits for Zn 213.857 Recovery = 96.04%						

Ti 334.940†	748925.8	0.9909 mg/L	0.00249	0.9909 mg/L	0.00249	0.25%
QC value within limits for Ti 334.940 Recovery = 99.09%						
B 249.772†	2257.4	1.906 mg/L	0.0753	1.906 mg/L	0.0753	3.95%
QC value within limits for B 249.772 Recovery = 95.28%						
Na 589.592†	258903.8	51.04 mg/L	0.188	51.04 mg/L	0.188	0.37%
QC value within limits for Na 589.592 Recovery = 102.08%						
K 766.490†	46757.6	47.72 mg/L	0.290	47.72 mg/L	0.290	0.61%
QC value within limits for K 766.490 Recovery = 95.45%						
Li 670.784†	50910.5	1.469 mg/L	0.0012	1.469 mg/L	0.0012	0.08%
QC value within limits for Li 670.784 Recovery = 97.93%						
Sr 407.771†	498484.6	1.026 mg/L	0.0010	1.026 mg/L	0.0010	0.09%
QC value within limits for Sr 407.771 Recovery = 102.60%						

All analyte(s) passed QC.

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Method Loaded
Method Name: IT11K05N **Method Last Saved: 11/5/2014 3:06:19 PM**
IEC File: 091614ICP11_IEC.iec **MSF File:**
Method Description:

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Sequence No.: 91 **Autosampler Location: 2**
Sample ID: CCB **Date Collected: 11/5/2014 5:32:59 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**
Wash Time: 90 **Auto Dilution Factor: 1**

Nebulizer Parameters: CCB

Analyte	Back Pressure	Flow
All	205.0 kPa	0.55 L/min

Mean Data: CCB

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 360.073	2923305.5	111.5	mg/L	1.23				1.10%
Y 360.073 R	60682.8	11.25	mg/L	0.306				2.72%
Ag 328.068†	648.4	0.00368	mg/L	0.000192	0.00368	mg/L	0.000192	5.21%
QC value within limits for Ag 328.068 Recovery = Not calculated								
Al 308.215†	-7.8	-0.0195	mg/L	0.01150	-0.0195	mg/L	0.01150	58.87%
QC value within limits for Al 308.215 Recovery = Not calculated								
As 188.979†	1.2	0.0012	mg/L	0.00545	0.0012	mg/L	0.00545	442.75%
QC value within limits for As 188.979 Recovery = Not calculated								
Ba 233.527†	23.7	0.0003	mg/L	0.00002	0.0003	mg/L	0.00002	7.20%
QC value within limits for Ba 233.527 Recovery = Not calculated								
Be 313.107†	47.2	0.00003	mg/L	0.000020	0.00003	mg/L	0.000020	73.11%
QC value within limits for Be 313.107 Recovery = Not calculated								
Ca 315.887†	1556.1	0.02217	mg/L	0.003023	0.02217	mg/L	0.003023	13.64%
QC value within limits for Ca 315.887 Recovery = Not calculated								
Cd 214.440†	-24.3	-0.0003	mg/L	0.00018	-0.0003	mg/L	0.00018	53.40%
QC value within limits for Cd 214.440 Recovery = Not calculated								
Co 228.616†	30.8	0.0010	mg/L	0.00006	0.0010	mg/L	0.00006	6.21%
QC value within limits for Co 228.616 Recovery = Not calculated								
Cr 205.560†	32.7	0.0013	mg/L	0.00016	0.0013	mg/L	0.00016	11.93%
QC value within limits for Cr 205.560 Recovery = Not calculated								
Cu 324.752†	519.2	0.0031	mg/L	0.00078	0.0031	mg/L	0.00078	25.40%
QC value within limits for Cu 324.752 Recovery = Not calculated								
Fe 238.863†	78.0	0.0042	mg/L	0.00079	0.0042	mg/L	0.00079	18.55%
QC value within limits for Fe 238.863 Recovery = Not calculated								
Mg 279.077†	24.9	0.0036	mg/L	0.00082	0.0036	mg/L	0.00082	23.05%
QC value within limits for Mg 279.077 Recovery = Not calculated								
Mn 257.610†	263.6	0.0004	mg/L	0.00006	0.0004	mg/L	0.00006	14.39%
QC value within limits for Mn 257.610 Recovery = Not calculated								
Mo 202.031†	-4.7	-0.00041	mg/L	0.000199	-0.00041	mg/L	0.000199	48.89%
QC value within limits for Mo 202.031 Recovery = Not calculated								
Ni 232.003†	40.7	0.0052	mg/L	0.00083	0.0052	mg/L	0.00083	15.84%
QC value within limits for Ni 232.003 Recovery = Not calculated								
Pb 220.353†	-12.0	-0.00321	mg/L	0.002018	-0.00321	mg/L	0.002018	62.84%
QC value within limits for Pb 220.353 Recovery = Not calculated								
Sb 206.836†	-18.2	-0.0088	mg/L	0.00193	-0.0088	mg/L	0.00193	22.01%
QC value within limits for Sb 206.836 Recovery = Not calculated								
Se 196.026†	-8.9	-0.0081	mg/L	0.00422	-0.0081	mg/L	0.00422	52.40%
QC value within limits for Se 196.026 Recovery = Not calculated								
Si 251.611†	-3.1	-0.0057	mg/L	0.00930	-0.0057	mg/L	0.00930	163.94%
QC value within limits for Si 251.611 Recovery = Not calculated								
Sn 189.927†	-2.8	-0.0006	mg/L	0.00037	-0.0006	mg/L	0.00037	63.09%
QC value within limits for Sn 189.927 Recovery = Not calculated								
Tl 190.801†	3.1	0.0021	mg/L	0.00267	0.0021	mg/L	0.00267	125.01%
QC value within limits for Tl 190.801 Recovery = Not calculated								
V 292.402†	51.7	0.0005	mg/L	0.00014	0.0005	mg/L	0.00014	28.85%
QC value within limits for V 292.402 Recovery = Not calculated								
Zn 213.857†	153.0	0.0024	mg/L	0.00033	0.0024	mg/L	0.00033	13.73%
QC value within limits for Zn 213.857 Recovery = Not calculated								

Ti 334.940†	445.8	0.0006 mg/L	0.00005	0.0006 mg/L	0.00005	8.43%
QC value within limits for Ti 334.940 Recovery = Not calculated						
B 249.772†	22.7	0.0193 mg/L	0.00169	0.0193 mg/L	0.00169	8.76%
QC value within limits for B 249.772 Recovery = Not calculated						
Na 589.592†	1065.3	0.2100 mg/L	0.01135	0.2100 mg/L	0.01135	5.40%
QC value within limits for Na 589.592 Recovery = Not calculated						
K 766.490†	75.7	0.0773 mg/L	0.03867	0.0773 mg/L	0.03867	50.05%
QC value within limits for K 766.490 Recovery = Not calculated						
Li 670.784†	55.2	0.00159 mg/L	0.001532	0.00159 mg/L	0.001532	96.16%
QC value within limits for Li 670.784 Recovery = Not calculated						
Sr 407.771†	347.3	0.00071 mg/L	0.000125	0.00071 mg/L	0.000125	17.53%
QC value within limits for Sr 407.771 Recovery = Not calculated						

All analyte(s) passed QC.

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Method Loaded
Method Name: IT11K05N **Method Last Saved: 11/5/2014 3:06:19 PM**
IEC File: 091614ICP11_IEC.iec **MSF File:**
Method Description:

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Sequence No.: 92 **Autosampler Location: 1**
Sample ID: CCVLL 14J27641 **Date Collected: 11/5/2014 5:38:00 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**
Wash Time: 90 **Auto Dilution Factor: 1**

Nebulizer Parameters: CCVLL 14J27641

Analyte	Back Pressure	Flow
All	206.0 kPa	0.55 L/min

Mean Data: CCVLL 14J27641

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 360.073	2947196.3	112.4	mg/L	3.11				2.77%
Y 360.073 R	59268.6	10.99	mg/L	0.133				1.21%
Ag 328.068†	2123.0	0.01208	mg/L	0.000110	0.01208	mg/L	0.000110	0.91%
QC value within limits for Ag 328.068 Recovery = 120.75%								
Al 308.215†	28.3	0.0708	mg/L	0.04024	0.0708	mg/L	0.04024	56.82%
QC value within limits for Al 308.215 Recovery = 70.82%								
As 188.979†	19.8	0.0208	mg/L	0.00427	0.0208	mg/L	0.00427	20.51%
QC value within limits for As 188.979 Recovery = 104.19%								
Ba 233.527†	470.0	0.0055	mg/L	0.00022	0.0055	mg/L	0.00022	4.01%
QC value within limits for Ba 233.527 Recovery = 109.03%								
Be 313.107†	3239.8	0.00183	mg/L	0.000041	0.00183	mg/L	0.000041	2.23%
QC value within limits for Be 313.107 Recovery = 91.75%								
Ca 315.887†	34925.9	0.4976	mg/L	0.00259	0.4976	mg/L	0.00259	0.52%
QC value within limits for Ca 315.887 Recovery = 99.53%								
Cd 214.440†	321.7	0.0045	mg/L	0.00039	0.0045	mg/L	0.00039	8.74%
QC value within limits for Cd 214.440 Recovery = 89.99%								
Co 228.616†	355.6	0.0111	mg/L	0.00027	0.0111	mg/L	0.00027	2.42%
QC value within limits for Co 228.616 Recovery = 110.71%								
Cr 205.560†	275.5	0.0112	mg/L	0.00039	0.0112	mg/L	0.00039	3.48%
QC value within limits for Cr 205.560 Recovery = 112.42%								
Cu 324.752†	3421.3	0.0204	mg/L	0.00078	0.0204	mg/L	0.00078	3.84%
QC value within limits for Cu 324.752 Recovery = 101.80%								
Fe 238.863†	2013.2	0.1094	mg/L	0.00501	0.1094	mg/L	0.00501	4.58%
QC value within limits for Fe 238.863 Recovery = 109.37%								
Mg 279.077†	760.7	0.1089	mg/L	0.00651	0.1089	mg/L	0.00651	5.98%
QC value within limits for Mg 279.077 Recovery = 108.85%								
Mn 257.610†	6759.8	0.0101	mg/L	0.00012	0.0101	mg/L	0.00012	1.19%
QC value within limits for Mn 257.610 Recovery = 101.16%								
Mo 202.031†	47.7	0.00414	mg/L	0.000349	0.00414	mg/L	0.000349	8.43%
QC value within limits for Mo 202.031 Recovery = 82.85%								
Ni 232.003†	190.7	0.0246	mg/L	0.00235	0.0246	mg/L	0.00235	9.58%
QC value within limits for Ni 232.003 Recovery = 122.77%								
Pb 220.353†	9.5	0.00254	mg/L	0.001926	0.00254	mg/L	0.001926	75.70%
QC value within limits for Pb 220.353 Recovery = 50.88%								
Sb 206.836†	20.2	0.0098	mg/L	0.00505	0.0098	mg/L	0.00505	51.56%
QC value less than the lower limit for Sb 206.836 Recovery = 48.95%								
Se 196.026†	13.1	0.0119	mg/L	0.00256	0.0119	mg/L	0.00256	21.58%
QC value within limits for Se 196.026 Recovery = 59.27%								
Si 251.611†	99.2	0.1825	mg/L	0.01369	0.1825	mg/L	0.01369	7.50%
QC value within limits for Si 251.611 Recovery = 91.23%								
Sn 189.927†	80.7	0.0172	mg/L	0.00172	0.0172	mg/L	0.00172	10.00%
QC value within limits for Sn 189.927 Recovery = 86.24%								
Tl 190.801†	30.8	0.0208	mg/L	0.00381	0.0208	mg/L	0.00381	18.29%
QC value within limits for Tl 190.801 Recovery = 104.21%								
V 292.402†	1091.6	0.0105	mg/L	0.00029	0.0105	mg/L	0.00029	2.73%
QC value within limits for V 292.402 Recovery = 104.96%								
Zn 213.857†	1958.8	0.0310	mg/L	0.00118	0.0310	mg/L	0.00118	3.81%
QC value within limits for Zn 213.857 Recovery = 103.31%								

Ti 334.940†	7867.9	0.0104 mg/L	0.00025	0.0104 mg/L	0.00025	2.42%
QC value within limits for Ti 334.940 Recovery = 104.10%						
B 249.772†	221.6	0.1890 mg/L	0.00825	0.1890 mg/L	0.00825	4.36%
QC value within limits for B 249.772 Recovery = 94.48%						
Na 589.592†	3268.4	0.6444 mg/L	0.01904	0.6444 mg/L	0.01904	2.96%
QC value within limits for Na 589.592 Recovery = 128.87%						
K 766.490†	378.7	0.3865 mg/L	0.03763	0.3865 mg/L	0.03763	9.73%
QC value within limits for K 766.490 Recovery = 77.31%						
Li 670.784†	507.4	0.01464 mg/L	0.001822	0.01464 mg/L	0.001822	12.45%
QC value within limits for Li 670.784 Recovery = 97.60%						
Sr 407.771†	4863.7	0.01001 mg/L	0.000042	0.01001 mg/L	0.000042	0.42%
QC value within limits for Sr 407.771 Recovery = 100.10%						

QC Failed. Stop the analysis.

==========

Analysis Begun

Start Time: 11/5/2014 10:25:31 PM **Plasma On Time: 11/5/2014 6:37:50 AM**
Logged In Analyst: ICP11 **Technique: ICP Continuous**
Spectrometer: Optima 8300 , S/N 078S1402113 **Autosampler: Cetac**

Sample Information File: C:\pe\ICP11\Sample Information\110514ICP11.sif
Batch ID:
Results Data Set: 110514ICP11
Results Library: C:\pe\ICP11\Results\Results.mdb

==========

Method Loaded
Method Name: IT11K05N **Method Last Saved: 11/5/2014 3:06:19 PM**
IEC File: 091614ICP11_IEC.iec **MSF File:**
Method Description:

==========

Sequence No.: 1 **Autosampler Location: 16**
Sample ID: ICV 14J27639 **Date Collected: 11/5/2014 10:25:35 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**
Wash Time:
User canceled analysis.

==========

Analysis Begun

Start Time: 11/5/2014 10:26:05 PM **Plasma On Time: 11/5/2014 6:37:50 AM**
Logged In Analyst: ICP11 **Technique: ICP Continuous**
Spectrometer: Optima 8300 , S/N 078S1402113 **Autosampler: Cetac**

Sample Information File: C:\pe\ICP11\Sample Information\110514ICP11.sif
Batch ID:
Results Data Set: 110514ICP11
Results Library: C:\pe\ICP11\Results\Results.mdb

==========

Sequence No.: 108 **Autosampler Location: 18**
Sample ID: ICSA **Date Collected: 11/5/2014 10:26:06 PM**
Analyst: 388 **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**
Wash Time:

Nebulizer Parameters: ICSA

Analyte	Back Pressure	Flow
All	205.0 kPa	0.55 L/min

Mean Data: ICSA

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	2616083.2	99.78	mg/L	1.671				1.67%
Y 360.073 R	58403.5	10.83	mg/L	0.208				1.92%
Ag 328.068†	-1171.4	-0.00637	mg/L	0.000235	-0.00637	mg/L	0.000235	3.69%
Al 308.215†	217796.4	546.2	mg/L	15.56	546.2	mg/L	15.56	2.85%
As 188.979†	53.8	-0.0039	mg/L	0.00314	-0.0039	mg/L	0.00314	80.78%
Ba 233.527†	320.9	-0.0007	mg/L	0.00009	-0.0007	mg/L	0.00009	12.62%
Be 313.107†	-577.9	-0.00060	mg/L	0.000025	-0.00060	mg/L	0.000025	4.22%
Ca 315.887†	34116358.1	486.1	mg/L	7.99	486.1	mg/L	7.99	1.64%
Cd 214.440†	264.7	-0.0012	mg/L	0.00042	-0.0012	mg/L	0.00042	35.27%
Co 228.616†	-21.5	0.0000	mg/L	0.00044	0.0000	mg/L	0.00044	>999.9%
Cr 205.560†	176.8	-0.0013	mg/L	0.00051	-0.0013	mg/L	0.00051	38.04%
Cu 324.752†	-2023.4	-0.0163	mg/L	0.00009	-0.0163	mg/L	0.00009	0.56%
Fe 238.863†	3513550.1	190.9	mg/L	0.70	190.9	mg/L	0.70	0.37%
Mg 279.077†	3826661.1	547.9	mg/L	1.90	547.9	mg/L	1.90	0.35%
Mn 257.610†	3113.1	-0.0189	mg/L	0.00012	-0.0189	mg/L	0.00012	0.65%

Mo 202.031†	-52.7	0.00076	mg/L	0.001629	0.00076	mg/L	0.001629	213.35%
Ni 232.003†	-181.0	0.0083	mg/L	0.00112	0.0083	mg/L	0.00112	13.40%
Pb 220.353†	-173.0	-0.00663	mg/L	0.003522	-0.00663	mg/L	0.003522	53.12%
Sb 206.836†	-2.0	-0.0075	mg/L	0.00697	-0.0075	mg/L	0.00697	92.66%
Se 196.026†	-84.2	0.0166	mg/L	0.01155	0.0166	mg/L	0.01155	69.54%
Si 251.611†	6.4	-0.0519	mg/L	0.01068	-0.0519	mg/L	0.01068	20.60%
Sn 189.927†	-55.1	0.0100	mg/L	0.00063	0.0100	mg/L	0.00063	6.28%
Tl 190.801†	5.9	-0.0053	mg/L	0.00419	-0.0053	mg/L	0.00419	78.36%
V 292.402†	1526.7	-0.0019	mg/L	0.00021	-0.0019	mg/L	0.00021	10.68%
Zn 213.857†	998.2	-0.0131	mg/L	0.00056	-0.0131	mg/L	0.00056	4.31%
Ti 334.940†	-3254.9	-0.0213	mg/L	0.00011	-0.0213	mg/L	0.00011	0.54%
B 249.772†	869.8	0.3239	mg/L	0.03621	0.3239	mg/L	0.03621	11.18%
Na 589.592†	1224.3	0.0958	mg/L	0.02599	0.0958	mg/L	0.02599	27.13%
K 766.490†	-32.8	-0.0752	mg/L	0.00330	-0.0752	mg/L	0.00330	4.39%
Li 670.784†	33.5	-0.00357	mg/L	0.000552	-0.00357	mg/L	0.000552	15.44%
Sr 407.771†	3805.7	0.00019	mg/L	0.000186	0.00019	mg/L	0.000186	99.59%

==========

Method Loaded
Method Name: IT11K05N **Method Last Saved: 11/5/2014 10:29:42 PM**
IEC File: 091614ICP11_IEC.iec **MSF File:**
Method Description:

==========

Sequence No.: 109 **Autosampler Location: 19**
Sample ID: ICSAB **Date Collected: 11/5/2014 10:32:17 PM**
Analyst: 388 **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**
Wash Time: 150 **Auto Dilution Factor: 1**

Nebulizer Parameters: ICSAB

Analyte	Back Pressure	Flow
All	205.0 kPa	0.55 L/min

Mean Data: ICSAB

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 360.073	2703742.7	103.1	mg/L	3.57				3.47%
Y 360.073 R	57188.0	10.61	mg/L	0.156				1.47%
Ag 328.068†	183515.8	1.043	mg/L	0.0186	1.043	mg/L	0.0186	1.78%
Al 308.215†	207308.9	519.9	mg/L	23.06	519.9	mg/L	23.06	4.44%
As 188.979†	524.6	0.4951	mg/L	0.00878	0.4951	mg/L	0.00878	1.77%
Ba 233.527†	42647.5	0.4906	mg/L	0.00774	0.4906	mg/L	0.00774	1.58%
Be 313.107†	886592.0	0.5019	mg/L	0.00127	0.5019	mg/L	0.00127	0.25%
Ca 315.887†	33961037.4	483.9	mg/L	5.54	483.9	mg/L	5.54	1.15%
Cd 214.440†	68897.3	0.9597	mg/L	0.01421	0.9597	mg/L	0.01421	1.48%
Co 228.616†	15398.9	0.4801	mg/L	0.01494	0.4801	mg/L	0.01494	3.11%
Cr 205.560†	12330.0	0.4949	mg/L	0.01618	0.4949	mg/L	0.01618	3.27%
Cu 324.752†	81511.8	0.4811	mg/L	0.00980	0.4811	mg/L	0.00980	2.04%
Fe 238.863†	3539347.8	192.3	mg/L	0.55	192.3	mg/L	0.55	0.28%
Mg 279.077†	3864749.1	553.3	mg/L	1.44	553.3	mg/L	1.44	0.26%
Mn 257.610†	329732.3	0.4701	mg/L	0.00889	0.4701	mg/L	0.00889	1.89%
Mo 202.031†	5539.7	0.4861	mg/L	0.01526	0.4861	mg/L	0.01526	3.14%
Ni 232.003†	7917.2	1.050	mg/L	0.0290	1.050	mg/L	0.0290	2.76%
Pb 220.353†	3448.1	0.9614	mg/L	0.03635	0.9614	mg/L	0.03635	3.78%
Sb 206.836†	1046.2	0.5005	mg/L	0.02609	0.5005	mg/L	0.02609	5.21%
Se 196.026†	482.4	0.5273	mg/L	0.01233	0.5273	mg/L	0.01233	2.34%
Si 251.611†	581.8	1.008	mg/L	0.0425	1.008	mg/L	0.0425	4.22%
Sn 189.927†	2136.3	0.4782	mg/L	0.01350	0.4782	mg/L	0.01350	2.82%
Tl 190.801†	704.1	0.4674	mg/L	0.01451	0.4674	mg/L	0.01451	3.10%
V 292.402†	52218.6	0.4858	mg/L	0.00848	0.4858	mg/L	0.00848	1.75%
Zn 213.857†	62097.8	0.9540	mg/L	0.01786	0.9540	mg/L	0.01786	1.87%
Ti 334.940†	376309.6	0.4808	mg/L	0.00898	0.4808	mg/L	0.00898	1.87%
B 249.772†	2017.0	1.300	mg/L	0.0751	1.300	mg/L	0.0751	5.77%
Na 589.592†	1405.3	0.1333	mg/L	0.01487	0.1333	mg/L	0.01487	11.15%
K 766.490†	5.7	-0.0345	mg/L	0.08132	-0.0345	mg/L	0.08132	236.01%
Li 670.784†	49.7	-0.00309	mg/L	0.001774	-0.00309	mg/L	0.001774	57.44%
Sr 407.771†	3778.8	0.00017	mg/L	0.000175	0.00017	mg/L	0.000175	101.68%

Trace Metals by Method 6020

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: L729800

Trace Metals by Method 6020
URS Corporation - Tucson AZ - 1088308

Project: Holloman AFB
Project No: 23446543.0053AA

Login No: L729800

Lab SampleID.	Client ID
L729800-01	H-TU904-GW03-NT01
L729800-02	H-TU904-GW03-ND01

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: L729800
URS Corporation - Tucson AZ - 1088308

Test:	Trace Metals by Method 6020		
Project No:	23446543.0053AA	Matrix:	Water - ug/L
Project:	Holloman AFB	EPA ID:	TN00003
Collection Date:	10/23/2014	**Analytic Batch:**	**WG751220**
Analysis Date:	10/31/2014	Analyst:	664
Instrument ID:	ICPMS8	Prep Date:	10/28/2014
Sample Numbers:	L729800-01		

Workgroup: **WG751220**

Sample Name	Collect Date	Prep Date	Analysis Date
L729800-01 5x	10/23/2014	10/28/2014	10/31/2014
L729800-01 5x	10/23/2014	10/28/2014	11/05/2014

Parameters in bold text are reported in this SDG

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Quality Control Summary
SDG: L729800
URS Corporation - Tucson AZ - 1088308

Test:	Trace Metals by Method 6020		
Project No:	23446543.0053AA	Matrix:	Water - ug/L
Project:	Holloman AFB	EPA ID:	TN00003
Collection Date:	10/23/2014	**Analytic Batch:**	**WG751906**
Analysis Date:	10/31/2014	Analyst:	664
Instrument ID:	ICPMS8	Prep Date:	10/31/2014
Sample Numbers:	L729800-02		

Workgroup: **WG751906**

Sample Name	Collect Date	Prep Date	Analysis Date
L729800-02 5x	10/23/2014	10/31/2014	10/31/2014

Parameters in bold text are reported in this SDG

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Quality Control Summary
SDG: L729800
URS Corporation - Tucson AZ - 1088308

Test:	Trace Metals by Method 6020		
Project No:	23446543.0053AA	Matrix:	Water - ug/L
Project:	Holloman AFB	EPA ID:	TN00003
Collection Date:	10/23/2014	**Analytic Batch:**	**WG751220**
Analysis Date:	10/31/2014	Analyst:	664
Instrument ID:	ICPMS8	Prep Date:	10/28/2014
Sample Numbers:	L729800-01		

Method Blank Summary

Instrument	Client Sample ID	Lab Sample ID	File Name	Analysis Date	Analysis Time
ICPMS8	Blank WG751220	Blank WG751220	137	10/31/2014	4:35 PM
ICPMS8	LCS WG751220	LCS WG751220	138	10/31/2014	4:36 PM
ICPMS8	LCSD WG751220	LCSD WG751220	139	10/31/2014	4:38 PM
ICPMS8	H-TU904-GW03-NT01	L729800-01	140	10/31/2014	4:39 PM
ICPMS8	DUP WG751220	DUP WG751220	141	10/31/2014	4:41 PM
ICPMS8	MS WG751220	MS WG751220	142	10/31/2014	4:42 PM
ICPMS8	MSD WG751220	MSD WG751220	143	10/31/2014	4:44 PM
ICPMS8	Blank WG751220	Blank WG751220	20	11/5/2014	1:07 PM
ICPMS8	LCS WG751220	LCS WG751220	21	11/5/2014	1:08 PM
ICPMS8	LCSD WG751220	LCSD WG751220	22	11/5/2014	1:10 PM
ICPMS8	H-TU904-GW03-NT01	L729800-01	23	11/5/2014	1:11 PM
ICPMS8	DUP WG751220	DUP WG751220	24	11/5/2014	1:13 PM
ICPMS8	MS WG751220	MS WG751220	25	11/5/2014	1:14 PM
ICPMS8	MSD WG751220	MSD WG751220	26	11/5/2014	1:16 PM

Parameters in bold text are reported in this SDG

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Quality Control Summary
SDG: L729800
URS Corporation - Tucson AZ - 1088308

Test:	Trace Metals by Method 6020		
Project No:	23446543.0053AA	Matrix:	Water - ug/L
Project:	Holloman AFB	EPA ID:	TN00003
Collection Date:	10/23/2014	**Analytic Batch:**	**WG751906**
Analysis Date:	10/31/2014	Analyst:	664
Instrument ID:	ICPMS8	Prep Date:	10/31/2014
Sample Numbers:	L729800-02		

Method Blank Summary

Instrument	Client Sample ID	Lab Sample ID	File Name	Analysis Date	Analysis Time
ICPMS8	Blank WG751906	Blank WG751906	88	10/31/2014	3:18 PM
ICPMS8	LCS WG751906	LCS WG751906	89	10/31/2014	3:20 PM
ICPMS8	LCSD WG751906	LCSD WG751906	90	10/31/2014	3:21 PM
ICPMS8	DUP WG751906	DUP WG751906	92	10/31/2014	3:24 PM
ICPMS8	MS WG751906	MS WG751906	93	10/31/2014	3:26 PM
ICPMS8	MSD WG751906	MSD WG751906	94	10/31/2014	3:27 PM
ICPMS8	H-TU904-GW03-ND01	L729800-02	101	10/31/2014	3:37 PM
ICPMS8	MS WG751906	MS WG751906	102	10/31/2014	3:39 PM
ICPMS8	MSD WG751906	MSD WG751906	103	10/31/2014	3:40 PM

Parameters in bold text are reported in this SDG

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Quality Control Summary
SDG: L729800
URS Corporation - Tucson AZ - 1088308

Test:	Trace Metals by Method 6020		
Project No:	23446543.0053AA	Matrix:	Water - ug/L
Project:	Holloman AFB	EPA ID:	TN00003
Collection Date:	10/23/2014	**Analytic Batch:**	**WG751220**
Analysis Date:	10/31/2014	Analyst:	664
Instrument ID:	ICPMS8	Prep Date:	10/28/2014
Sample Numbers:	L729800-01		

Method Blank

Analyte	CAS	RDL	MDL	Qualifier
Antimony	7440-36-0	< 1.00	< 0.210	
Arsenic	7440-38-2	< 1.00	< 0.250	
Cadmium	7440-43-9	< 0.500	< 0.160	
Chromium	7440-47-3	< 2.00	< 0.540	
Cobalt	7440-48-4	< 1.00	< 0.260	
Lead	7439-92-1	< 1.00	< 0.240	
Nickel	7440-02-0	< 1.00	0.502	B
Selenium	7782-49-2	< 1.00	0.399	
Silver	7440-22-4	< 1.00	< 0.310	
Thallium	7440-28-0	< 1.00	< 0.190	

Parameters in bold text are reported in this SDG

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Quality Control Summary
SDG: L729800
URS Corporation - Tucson AZ - 1088308

Test:	Trace Metals by Method 6020		
Project No:	23446543.0053AA	Matrix:	Water - ug/L
Project:	Holloman AFB	EPA ID:	TN00003
Collection Date:	10/23/2014	**Analytic Batch:**	**WG751906**
Analysis Date:	10/31/2014	Analyst:	664
Instrument ID:	ICPMS8	Prep Date:	10/31/2014
Sample Numbers:	L729800-02		

Method Blank

Analyte	CAS	RDL	MDL	Qualifier
Antimony,Dissolved	7440-36-0	< 1.00	< 0.210	
Arsenic,Dissolved	7440-38-2	< 1.00	< 0.250	
Cadmium,Dissolved	7440-43-9	< 0.500	< 0.160	
Chromium,Dissolved	7440-47-3	< 2.00	0.768	
Cobalt,Dissolved	7440-48-4	< 1.00	< 0.260	
Lead,Dissolved	7439-92-1	< 1.00	< 0.240	
Nickel,Dissolved	7440-02-0	< 1.00	< 0.350	
Selenium,Dissolved	7782-49-2	< 1.00	< 0.380	
Silver,Dissolved	7440-22-4	< 1.00	< 0.310	
Thallium,Dissolved	7440-28-0	< 1.00	< 0.190	

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Quality Control Summary
SDG: L729800
URS Corporation - Tucson AZ - 1088308

Test:	Trace Metals by Method 6020		
Project No:	23446543.0053AA	Matrix:	Water - ug/L
Project:	Holloman AFB	EPA ID:	TN00003
Collection Date:	10/23/2014	**Analytic Batch:**	**WG751220**
Analysis Date:	10/31/2014	Analyst:	664
Instrument ID:	ICPMS8	Prep Date:	10/28/2014
Sample Numbers:	L729800-01		

Laboratory Control Sample (LCS)

Analyte	Dil	True Value	Found	% Rec	Control Limits	Qual
Antimony	1	50	49.064	98	85 - 115	
Arsenic	1	50	47.060	94	85 - 115	
Cadmium	1	50	47.704	95	85 - 115	
Chromium	1	50	48.262	97	85 - 115	
Cobalt	1	50	49.960	100	85 - 115	
Lead	1	50	53.187	106	85 - 115	
Nickel	1	50	49.826	100	85 - 115	
Selenium	1	50	48.456	97	85 - 115	
Silver	1	50	49.980	100	85 - 115	
Thallium	1	50	51.630	103	85 - 115	

Laboratory Control Sample Duplicate (LCSD)

Analyte	Dil	True Value	Found	% Rec	Control Limits	Qual
Antimony	1	50	48.333	97	85 - 115	
Arsenic	1	50	45.419	91	85 - 115	
Cadmium	1	50	47.241	94	85 - 115	
Chromium	1	50	47.217	94	85 - 115	
Cobalt	1	50	48.370	97	85 - 115	
Lead	1	50	50.593	101	85 - 115	
Nickel	1	50	48.025	96	85 - 115	
Selenium	1	50	46.256	93	85 - 115	
Silver	1	50	49.175	98	85 - 115	
Thallium	1	50	49.744	99	85 - 115	

Parameters in bold text are reported in this SDG

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Quality Control Summary
SDG: L729800
URS Corporation - Tucson AZ - 1088308

Test:	Trace Metals by Method 6020		
Project No:	23446543.0053AA	Matrix:	Water - ug/L
Project:	Holloman AFB	EPA ID:	TN00003
Collection Date:	10/23/2014	**Analytic Batch:**	**WG751220**
Analysis Date:	10/31/2014	Analyst:	664
Instrument ID:	ICPMS8	Prep Date:	10/28/2014
Sample Numbers:	L729800-01		

Laboratory Control Sample / Laboratory Control Sample Duplicate

Analyte	Dil	Spike	LCS	% Rec	LCSD	% Rec	Control Limits	% Rec Qual	% RPD	Control Limits	RPD Qual
Antimony	1	50	49.064	98	48.333	97	85 - 115		2	20	
Arsenic	1	50	47.060	94	45.419	91	85 - 115		4	20	
Cadmium	1	50	47.704	95	47.241	94	85 - 115		1	20	
Chromium	1	50	48.262	97	47.217	94	85 - 115		2	20	
Cobalt	1	50	49.960	100	48.370	97	85 - 115		3	20	
Lead	1	50	53.187	106	50.593	101	85 - 115		5	20	
Nickel	1	50	49.826	100	48.025	96	85 - 115		4	20	
Selenium	1	50	48.456	97	46.256	93	85 - 115		5	20	
Silver	1	50	49.980	100	49.175	98	85 - 115		2	20	
Thallium	1	50	51.630	103	49.744	99	85 - 115		4	20	

Parameters in bold text are reported in this SDG

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Quality Control Summary
SDG: L729800
URS Corporation - Tucson AZ - 1088308

Test:	Trace Metals by Method 6020		
Project No:	23446543.0053AA	Matrix:	Water - ug/L
Project:	Holloman AFB	EPA ID:	TN00003
Collection Date:	10/23/2014	**Analytic Batch:**	**WG751906**
Analysis Date:	10/31/2014	Analyst:	664
Instrument ID:	ICPMS8	Prep Date:	10/31/2014
Sample Numbers:	L729800-02		

Laboratory Control Sample (LCS)

Analyte	Dil	True Value	Found	% Rec	Control Limits	Qual
Antimony,Dissolved	1	50	48.591	97	85 - 115	
Arsenic,Dissolved	1	50	45.493	91	85 - 115	
Cadmium,Dissolved	1	50	47.476	95	85 - 115	
Chromium,Dissolved	1	50	51.064	102	85 - 115	
Cobalt,Dissolved	1	50	50.815	102	85 - 115	
Lead,Dissolved	1	50	52.009	104	85 - 115	
Nickel,Dissolved	1	50	49.190	98	85 - 115	
Selenium,Dissolved	1	50	43.217	86	85 - 115	
Silver,Dissolved	1	50	49.312	99	85 - 115	
Thallium,Dissolved	1	50	50.917	102	85 - 115	

Laboratory Control Sample Duplicate (LCSD)

Analyte	Dil	True Value	Found	% Rec	Control Limits	Qual
Antimony,Dissolved	1	50	49.769	100	85 - 115	
Arsenic,Dissolved	1	50	45.979	92	85 - 115	
Cadmium,Dissolved	1	50	48.472	97	85 - 115	
Chromium,Dissolved	1	50	50.422	101	85 - 115	
Cobalt,Dissolved	1	50	50.478	101	85 - 115	
Lead,Dissolved	1	50	51.613	103	85 - 115	
Nickel,Dissolved	1	50	49.610	99	85 - 115	
Selenium,Dissolved	1	50	47.303	95	85 - 115	
Silver,Dissolved	1	50	50.458	101	85 - 115	
Thallium,Dissolved	1	50	50.627	101	85 - 115	

Parameters in bold text are reported in this SDG

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Quality Control Summary
SDG: L729800
URS Corporation - Tucson AZ - 1088308

Test:	Trace Metals by Method 6020		
Project No:	23446543.0053AA	Matrix:	Water - ug/L
Project:	Holloman AFB	EPA ID:	TN00003
Collection Date:	10/23/2014	**Analytic Batch:**	**WG751906**
Analysis Date:	10/31/2014	Analyst:	664
Instrument ID:	ICPMS8	Prep Date:	10/31/2014
Sample Numbers:	L729800-02		

Laboratory Control Sample / Laboratory Control Sample Duplicate

Analyte	Dil	Spike	LCS	% Rec	LCSD	% Rec	Control Limits	% Rec Qual	% RPD	Control Limits	RPD Qual
Antimony,Dissolved	1	50	48.591	97	49.769	100	85 - 115		2	20	
Arsenic,Dissolved	1	50	45.493	91	45.979	92	85 - 115		1	20	
Cadmium,Dissolved	1	50	47.476	95	48.472	97	85 - 115		2	20	
Chromium,Dissolved	1	50	51.064	102	50.422	101	85 - 115		1	20	
Cobalt,Dissolved	1	50	50.815	102	50.478	101	85 - 115		1	20	
Lead,Dissolved	1	50	52.009	104	51.613	103	85 - 115		1	20	
Nickel,Dissolved	1	50	49.190	98	49.610	99	85 - 115		1	20	
Selenium,Dissolved	1	50	43.217	86	47.303	95	85 - 115		9	20	
Silver,Dissolved	1	50	49.312	99	50.458	101	85 - 115		2	20	
Thallium,Dissolved	1	50	50.917	102	50.627	101	85 - 115		1	20	

Parameters in bold text are reported in this SDG

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Quality Control Summary
SDG: L729800
URS Corporation - Tucson AZ - 1088308

Test:	Trace Metals by Method 6020		
Project No:	23446543.0053AA	Matrix:	Water - ug/L
Project:	Holloman AFB	EPA ID:	TN00003
Collection Date:	10/23/2014	**Analytic Batch:**	**WG751220**
Analysis Date:	10/31/2014	Analyst:	664
Instrument ID:	ICPMS8	Prep Date:	10/28/2014
Sample Numbers:	L729800-01		

Serial Dilution

L729800-01

Analyte	Dil	Sample Result	SD Result	% RPD	Limit	Qualifier
Antimony	25	<1.05	<5.25		10	
Arsenic	25	5.4285	<6.25	18	10	
Cadmium	25	0.8200	<4	51	10	
Chromium	25	24.596	19.725	20	10	
Cobalt	25	6.5135	<6.5	7	10	
Lead	25	14.567	14.640	1	10	
Nickel	25	14.298	15.123	6	10	
Selenium	25	22.010	15.851	28	10	O1
Silver	25	<1.55	<7.75		10	
Thallium	25	<0.95	<4.75		10	

Matrix Spike / Matrix Spike Duplicate

L729800-01

Analyte	Dil	Spike Value	Sample	MS	% Rec	MSD	% Rec	Control Limits	% Rec Qual	RPD	Control Limits	RPD Qual
Antimony	5	10	<1.05	51.102	101	50.968	101	75 - 125		0	20	
Arsenic	5	10	5.4285	54.995	99	53.425	96	75 - 125		3	20	
Cadmium	5	10	0.8200	49.668	98	50.442	99	75 - 125		2	20	
Chromium	5	10	24.596	73.036	97	71.313	93	75 - 125		2	20	
Cobalt	5	10	6.5135	55.321	98	56.432	100	75 - 125		2	20	
Lead	5	10	14.567	63.299	97	64.502	100	75 - 125		2	20	
Nickel	5	10	14.298	63.205	98	62.591	97	75 - 125		1	20	
Selenium	5	10	22.010	78.484	113	60.952	78	75 - 125		25	20	J3
Silver	5	10	<1.55	51.093	101	51.159	101	75 - 125		0	20	
Thallium	5	10	<0.95	49.189	98	49.849	99	75 - 125		1	20	

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Quality Control Summary
SDG: L729800
URS Corporation - Tucson AZ - 1088308

Test:	Trace Metals by Method 6020		
Project No:	23446543.0053AA	Matrix:	Water - ug/L
Project:	Holloman AFB	EPA ID:	TN00003
Collection Date:	10/23/2014	**Analytic Batch:**	**WG751906**
Analysis Date:	10/31/2014	Analyst:	664
Instrument ID:	ICPMS8	Prep Date:	10/31/2014
Sample Numbers:	L729800-02		

Serial Dilution

L729559-01

Analyte	Dil	Sample Result	SD Result	% RPD	Limit	Qualifier
Chromium,Dissolved	25	3.0463	<13.5	318	10	
Nickel,Dissolved	25	44.962	130.76	191	10	O1

Matrix Spike / Matrix Spike Duplicate

L729800-02

Analyte	Dil	Spike Value	Sample	MS	% Rec	MSD	% Rec	Control Limits	% Rec Qual	RPD	Control Limits	RPD Qual
Antimony,Dissolved	5	10	<1.05	52.658	105	52.762	105	75 - 125		0	20	
Arsenic,Dissolved	5	10	1.6144	49.808	96	50.882	99	75 - 125		2	20	
Cadmium,Dissolved	5	10	<0.8	50.624	101	49.010	98	75 - 125		3	20	
Chromium,Dissolved	5	10	6.5872	55.508	98	55.692	98	75 - 125		0	20	
Cobalt,Dissolved	5	10	4.5180	54.063	99	54.976	101	75 - 125		2	20	
Lead,Dissolved	5	10	2.4749	52.596	100	54.587	104	75 - 125		4	20	
Nickel,Dissolved	5	10	8.3320	53.210	90	57.474	98	75 - 125		8	20	
Selenium,Dissolved	5	10	13.684	54.227	81	53.873	80	75 - 125		1	20	
Silver,Dissolved	5	10	<1.55	51.304	103	52.209	104	75 - 125		2	20	
Thallium,Dissolved	5	10	<0.95	49.816	100	50.151	100	75 - 125		1	20	

Matrix Spike / Matrix Spike Duplicate

L729559-01

Analyte	Dil	Spike Value	Sample	MS	% Rec	MSD	% Rec	Control Limits	% Rec Qual	RPD	Control Limits	RPD Qual
Chromium,Dissolved	5	10	3.0463	53.181	100	53.449	101	75 - 125		1	20	
Nickel,Dissolved	5	10	44.962	80.195	70	73.171	56	75 - 125	J6	9	20	

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Quality Control Summary
SDG: L729800
URS Corporation - Tucson AZ - 1088308

Test: Trace Metals by Method 6020
Project No: 23446543.0053AA
Project: Holloman AFB EPA ID: TN00003
Collection Date: 10/23/2014
Instrument ID: ICPMS8

Standard Type: ICV
Analysis Date: 10/31/2014 1:10 PM
Analysis Time: 1310
Data File: 103114ICPMS8

Analyte	Conc.	True Value	Recovery	Limits
Silver (107)	0.103	0.1	103 %	90-110
Arsenic (75)	0.0997	0.1	100 %	90-110
Cadmium (111)	0.101	0.1	101 %	90-110
Cobalt (59)	0.101	0.1	101 %	90-110
Chromium (52)	0.102	0.1	102 %	90-110
Nickel (60)	0.101	0.1	101 %	90-110
Lead (208)	0.104	0.1	104 %	90-110
Antimony (121)	0.0999	0.1	100 %	90-110
Thallium (205)	0.101	0.1	101 %	90-110

Standard Type: ICVLL
Analysis Date: 10/31/2014 1:16 PM
Analysis Time: 1316
Data File: 103114ICPMS8

Analyte	Conc.
Silver (107)	0.0006
Arsenic (75)	0.0010
Cadmium (111)	0.0005
Cobalt (59)	0.0010
Chromium (52)	0.0011
Nickel (60)	0.0011
Lead (208)	0.0010
Antimony (121)	0.0010
Thallium (205)	0.0010

*** - calibrated by linear regression*

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Quality Control Summary
SDG: L729800
URS Corporation - Tucson AZ - 1088308

Test: Trace Metals by Method 6020
Project No: 23446543.0053AA
Project: Holloman AFB EPA ID: TN00003
Collection Date: 10/23/2014
Instrument ID: ICPMS8

Standard Type: CCV
Analysis Date: 10/31/2014 4:29 PM
Analysis Time: 1629
Data File: 103114ICPMS8

Analyte	Conc.	True Value	Recovery	Limits
Silver (107)	0.101	0.1	101 %	90-110
Arsenic (75)	0.0958	0.1	96 %	90-110
Cadmium (111)	0.0971	0.1	97 %	90-110
Cobalt (59)	0.0992	0.1	99 %	90-110
Chromium (52)	0.0973	0.1	97 %	90-110
Nickel (60)	0.0988	0.1	99 %	90-110
Lead (208)	0.103	0.1	103 %	90-110
Antimony (121)	0.0986	0.1	99 %	90-110
Thallium (205)	0.101	0.1	101 %	90-110

Standard Type: CCVLL
Analysis Date: 10/31/2014 4:33 PM
Analysis Time: 1633
Data File: 103114ICPMS8

Analyte	Conc.
Silver (107)	0.0005
Arsenic (75)	0.0010
Cadmium (111)	0.0005
Cobalt (59)	0.0010
Chromium (52)	0.0008
Nickel (60)	0.0010
Lead (208)	0.0011
Antimony (121)	0.0009
Thallium (205)	0.0010

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Quality Control Summary
SDG: L729800
URS Corporation - Tucson AZ - 1088308

Test: Trace Metals by Method 6020
Project No: 23446543.0053AA
Project: Holloman AFB EPA ID: TN00003
Collection Date: 10/23/2014
Instrument ID: ICPMS8

Standard Type: CCV
Analysis Date: 10/31/2014 4:45 PM
Analysis Time: 1645
Data File: 103114ICPMS8

Analyte	Conc.	True Value	Recovery	Limits
Silver (107)	0.103	0.1	103 %	90-110
Arsenic (75)	0.0961	0.1	96 %	90-110
Cadmium (111)	0.0984	0.1	98 %	90-110
Cobalt (59)	0.0999	0.1	100 %	90-110
Chromium (52)	0.101	0.1	101 %	90-110
Nickel (60)	0.0980	0.1	98 %	90-110
Lead (208)	0.105	0.1	105 %	90-110
Antimony (121)	0.0995	0.1	100 %	90-110
Thallium (205)	0.103	0.1	103 %	90-110

Standard Type: CCV
Analysis Date: 10/31/2014 5:34 PM
Analysis Time: 1734
Data File: 103114ICPMS8

Analyte	Conc.	True Value	Recovery	Limits
Silver (107)	0.101	0.1	101 %	90-110
Arsenic (75)	0.0944	0.1	94 %	90-110
Cadmium (111)	0.0987	0.1	99 %	90-110
Cobalt (59)	0.0964	0.1	96 %	90-110
Chromium (52)	0.0966	0.1	97 %	90-110
Nickel (60)	0.0958	0.1	96 %	90-110
Lead (208)	0.102	0.1	102 %	90-110
Antimony (121)	0.100	0.1	100 %	90-110
Thallium (205)	0.0995	0.1	99 %	90-110

*** - calibrated by linear regression*

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Quality Control Summary
SDG: L729800
URS Corporation - Tucson AZ - 1088308

Test: Trace Metals by Method 6020
Project No: 23446543.0053AA
Project: Holloman AFB EPA ID: TN00003
Collection Date: 10/23/2014
Instrument ID: ICPMS8

Standard Type: CCVLL
Analysis Date: 10/31/2014 5:37 PM
Analysis Time: 1737
Data File: 103114ICPMS8

Analyte	Conc.
Silver (107)	0.0005
Arsenic (75)	0.0010
Cadmium (111)	0.0005
Cobalt (59)	0.0010
Chromium (52)	0.0008
Nickel (60)	0.0011
Lead (208)	0.0011
Antimony (121)	0.0010
Thallium (205)	0.0010

Standard Type: CCV
Analysis Date: 10/31/2014 5:50 PM
Analysis Time: 1750
Data File: 103114ICPMS8

Analyte	Conc.	True Value	Recovery	Limits
Silver (107)	0.104	0.1	104 %	90-110
Arsenic (75)	0.0972	0.1	97 %	90-110
Cadmium (111)	0.0997	0.1	100 %	90-110
Cobalt (59)	0.1000	0.1	100 %	90-110
Chromium (52)	0.0985	0.1	99 %	90-110
Nickel (60)	0.100	0.1	100 %	90-110
Lead (208)	0.105	0.1	105 %	90-110
Antimony (121)	0.102	0.1	102 %	90-110
Thallium (205)	0.103	0.1	103 %	90-110

*** - calibrated by linear regression*

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Quality Control Summary
SDG: L729800
URS Corporation - Tucson AZ - 1088308

Test: Trace Metals by Method 6020
Project No: 23446543.0053AA
Project: Holloman AFB EPA ID: TN00003
Collection Date: 10/23/2014
Instrument ID: ICPMS8

Standard Type: CCVLL
Analysis Date: 10/31/2014 6:24 PM
Analysis Time: 1824
Data File: 103114ICPMS8

Analyte	Conc.
Silver (107)	0.0005
Arsenic (75)	0.0010
Cadmium (111)	0.0005
Cobalt (59)	0.0010
Chromium (52)	0.0006
Nickel (60)	0.0011
Lead (208)	0.0011
Antimony (121)	0.0010
Thallium (205)	0.0010

*** - calibrated by linear regression*

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Quality Control Summary
SDG: L729800
URS Corporation - Tucson AZ - 1088308

Test: Trace Metals by Method 6020
Project No: 23446543.0053AA
Project: Holloman AFB EPA ID: TN00003
Collection Date: 10/23/2014
Instrument ID: ICPMS8

Standard Type: ICV
Analysis Date: 11/5/2014 12:55 PM
Analysis Time: 1255
Data File: 110514ICPMS8

Analyte	Conc.	True Value	Recovery	Limits
Silver (107)	0.102	0.1	102 %	90-110
Arsenic (75)	0.103	0.1	103 %	90-110
Cadmium (111)	0.103	0.1	103 %	90-110
Cobalt (59)	0.104	0.1	104 %	90-110
Chromium (52)	0.104	0.1	104 %	90-110
Nickel (60)	0.105	0.1	105 %	90-110
Lead (208)	0.102	0.1	102 %	90-110
Antimony (121)	0.100	0.1	100 %	90-110
Selenium (78)	0.110	0.1	110 %	90-110
Thallium (205)	0.102	0.1	102 %	90-110

Standard Type: ICVLL
Analysis Date: 11/5/2014 1:00 PM
Analysis Time: 1300
Data File: 110514ICPMS8

Analyte	Conc.
Silver (107)	0.0005
Arsenic (75)	0.0010
Cadmium (111)	0.0006
Cobalt (59)	0.0009
Chromium (52)	0.0011
Nickel (60)	0.0012
Lead (208)	0.0011
Antimony (121)	0.0012
Selenium (78)	0.0011
Thallium (205)	0.0010

*** - calibrated by linear regression*

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Quality Control Summary
SDG: L729800
URS Corporation - Tucson AZ - 1088308

Test: Trace Metals by Method 6020
Project No: 23446543.0053AA
Project: Holloman AFB EPA ID: TN00003
Collection Date: 10/23/2014
Instrument ID: ICPMS8

Standard Type: CCV
Analysis Date: 11/5/2014 1:33 PM
Analysis Time: 1333
Data File: 110514ICPMS8

Analyte	Conc.	True Value	Recovery	Limits
Silver (107)	0.102	0.1	102 %	90-110
Arsenic (75)	0.101	0.1	101 %	90-110
Cadmium (111)	0.101	0.1	101 %	90-110
Cobalt (59)	0.105	0.1	105 %	90-110
Chromium (52)	0.107	0.1	107 %	90-110
Nickel (60)	0.105	0.1	105 %	90-110
Lead (208)	0.107	0.1	107 %	90-110
Antimony (121)	0.0992	0.1	99 %	90-110
Selenium (78)	0.0975	0.1	97 %	90-110
Thallium (205)	0.107	0.1	107 %	90-110

Standard Type: CCVLL
Analysis Date: 11/5/2014 1:36 PM
Analysis Time: 1336
Data File: 110514ICPMS8

Analyte	Conc.
Silver (107)	0.0005
Arsenic (75)	0.0010
Cadmium (111)	0.0005
Cobalt (59)	0.0010
Chromium (52)	0.0012
Nickel (60)	0.0012
Lead (208)	0.0011
Antimony (121)	0.0010
Selenium (78)	0.0009
Thallium (205)	0.0010

*** - calibrated by linear regression*

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Est. 1970

Quality Control Summary
SDG: L729800
URS Corporation - Tucson AZ - 1088308

Test: Trace Metals by Method 6020
Project No: 23446543.0053AA
Project: Holloman AFB EPA ID: TN00003
Collection Date: 10/23/2014
Instrument ID: ICPMS8

Standard Type: ICV
Analysis Date: 10/31/2014 1:10 PM
Analysis Time: 1310
Data File: 103114ICPMS8

Analyte	Conc.	True Value	Recovery	Limits
Silver (107)	0.103	0.1	103 %	90-110
Arsenic (75)	0.0997	0.1	100 %	90-110
Cadmium (111)	0.101	0.1	101 %	90-110
Cobalt (59)	0.101	0.1	101 %	90-110
Chromium (52)	0.102	0.1	102 %	90-110
Nickel (60)	0.101	0.1	101 %	90-110
Lead (208)	0.104	0.1	104 %	90-110
Antimony (121)	0.0999	0.1	100 %	90-110
Selenium (78)	0.102	0.1	102 %	90-110
Thallium (205)	0.101	0.1	101 %	90-110

Standard Type: ICVLL
Analysis Date: 10/31/2014 1:16 PM
Analysis Time: 1316
Data File: 103114ICPMS8

Analyte	Conc.
Silver (107)	0.0006
Arsenic (75)	0.0010
Cadmium (111)	0.0005
Cobalt (59)	0.0010
Chromium (52)	0.0011
Nickel (60)	0.0011
Lead (208)	0.0010
Antimony (121)	0.0010
Selenium (78)	0.0009
Thallium (205)	0.0010

*** - calibrated by linear regression*

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Est. 1970

Quality Control Summary
SDG: L729800
URS Corporation - Tucson AZ - 1088308

Test: Trace Metals by Method 6020
Project No: 23446543.0053AA
Project: Holloman AFB EPA ID: TN00003
Collection Date: 10/23/2014
Instrument ID: ICPMS8

Standard Type: CCV
Analysis Date: 10/31/2014 3:14 PM
Analysis Time: 1514
Data File: 103114ICPMS8

Analyte	Conc.	True Value	Recovery	Limits
Silver (107)	0.102	0.1	102 %	90-110
Arsenic (75)	0.0968	0.1	97 %	90-110
Cadmium (111)	0.0962	0.1	96 %	90-110
Cobalt (59)	0.0995	0.1	100 %	90-110
Chromium (52)	0.101	0.1	101 %	90-110
Nickel (60)	0.100	0.1	100 %	90-110
Lead (208)	0.103	0.1	103 %	90-110
Antimony (121)	0.0963	0.1	96 %	90-110
Selenium (78)	0.0949	0.1	95 %	90-110
Thallium (205)	0.102	0.1	102 %	90-110

Standard Type: CCVLL
Analysis Date: 10/31/2014 3:17 PM
Analysis Time: 1517
Data File: 103114ICPMS8

Analyte	Conc.
Silver (107)	0.0005
Arsenic (75)	0.0011
Cadmium (111)	0.0005
Cobalt (59)	0.0010
Chromium (52)	0.0010
Nickel (60)	0.0011
Lead (208)	0.0012
Antimony (121)	0.0010
Selenium (78)	0.0010
Thallium (205)	0.0011

*** - calibrated by linear regression*

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Quality Control Summary
SDG: L729800
URS Corporation - Tucson AZ - 1088308

Test: Trace Metals by Method 6020
Project No: 23446543.0053AA
Project: Holloman AFB EPA ID: TN00003
Collection Date: 10/23/2014
Instrument ID: ICPMS8

Standard Type: CCV
Analysis Date: 10/31/2014 3:44 PM
Analysis Time: 1544
Data File: 103114ICPMS8

Analyte	Conc.	True Value	Recovery	Limits
Silver (107)	0.103	0.1	103 %	90-110
Arsenic (75)	0.0979	0.1	98 %	90-110
Cadmium (111)	0.0980	0.1	98 %	90-110
Cobalt (59)	0.101	0.1	101 %	90-110
Chromium (52)	0.0999	0.1	100 %	90-110
Nickel (60)	0.101	0.1	101 %	90-110
Lead (208)	0.105	0.1	105 %	90-110
Antimony (121)	0.0991	0.1	99 %	90-110
Selenium (78)	0.0931	0.1	93 %	90-110
Thallium (205)	0.103	0.1	103 %	90-110

Standard Type: CCVLL
Analysis Date: 10/31/2014 3:47 PM
Analysis Time: 1547
Data File: 103114ICPMS8

Analyte	Conc.
Silver (107)	0.0006
Arsenic (75)	0.0010
Cadmium (111)	0.0005
Cobalt (59)	0.0010
Chromium (52)	0.0009
Nickel (60)	0.0010
Lead (208)	0.0011
Antimony (121)	0.0009
Selenium (78)	0.0010
Thallium (205)	0.0010

*** - calibrated by linear regression*

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Est. 1970

Quality Control Summary
SDG: L729800
URS Corporation - Tucson AZ - 1088308

Test: Trace Metals by Method 6020
Project No: 23446543.0053AA
Project: Holloman AFB EPA ID: TN00003
Collection Date: 10/23/2014
Instrument ID: ICPMS8

Standard Type: ICB
Analysis Date: 10/31/2014 1:15 PM
Analysis Time: 1315
Data File: 103114ICPMS8

Analyte	MDL	Conc	Filename
Silver (107)	0.00031	< 0.00031	103114ICPMS8
Arsenic (75)	0.00025	< 0.00025	103114ICPMS8
Cadmium (111)	0.00016	< 0.00016	103114ICPMS8
Cobalt (59)	0.00026	< 0.00026	103114ICPMS8
Chromium (52)	0.00054	< 0.00054	103114ICPMS8
Nickel (60)	0.00035	< 0.00035	103114ICPMS8
Lead (208)	0.00024	< 0.00024	103114ICPMS8
Antimony (121)	0.00021	< 0.00021	103114ICPMS8
Thallium (205)	0.00019	< 0.00019	103114ICPMS8

Standard Type: CCB
Analysis Date: 10/31/2014 4:30 PM
Analysis Time: 1630
Data File: 103114ICPMS8

Analyte	MDL	Conc	Filename
Silver (107)	0.00031	< 0.00031	103114ICPMS8
Arsenic (75)	0.00025	< 0.00025	103114ICPMS8
Cadmium (111)	0.00016	< 0.00016	103114ICPMS8
Cobalt (59)	0.00026	< 0.00026	103114ICPMS8
Chromium (52)	0.00054	< 0.00054	103114ICPMS8
Nickel (60)	0.00035	< 0.00035	103114ICPMS8
Lead (208)	0.00024	< 0.00024	103114ICPMS8
Antimony (121)	0.00021	< 0.00021	103114ICPMS8
Thallium (205)	0.00019	< 0.00019	103114ICPMS8

*** - calibrated by linear regression*

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Quality Control Summary
SDG: L729800
URS Corporation - Tucson AZ - 1088308

Test: Trace Metals by Method 6020
Project No: 23446543.0053AA
Project: Holloman AFB EPA ID: TN00003
Collection Date: 10/23/2014
Instrument ID: ICPMS8

Standard Type: CCB
Analysis Date: 10/31/2014 4:46 PM
Analysis Time: 1646
Data File: 103114ICPMS8

Analyte	MDL	Conc	Filename
Silver (107)	0.00031	< 0.00031	103114ICPMS8
Arsenic (75)	0.00025	< 0.00025	103114ICPMS8
Cadmium (111)	0.00016	< 0.00016	103114ICPMS8
Cobalt (59)	0.00026	< 0.00026	103114ICPMS8
Chromium (52)	0.00054	< 0.00054	103114ICPMS8
Nickel (60)	0.00035	< 0.00035	103114ICPMS8
Lead (208)	0.00024	< 0.00024	103114ICPMS8
Antimony (121)	0.00021	< 0.00021	103114ICPMS8
Thallium (205)	0.00019	< 0.00019	103114ICPMS8

Standard Type: CCB
Analysis Date: 10/31/2014 5:36 PM
Analysis Time: 1736
Data File: 103114ICPMS8

Analyte	MDL	Conc	Filename
Silver (107)	0.00031	< 0.00031	103114ICPMS8
Arsenic (75)	0.00025	< 0.00025	103114ICPMS8
Cadmium (111)	0.00016	< 0.00016	103114ICPMS8
Cobalt (59)	0.00026	< 0.00026	103114ICPMS8
Chromium (52)	0.00054	< 0.00054	103114ICPMS8
Nickel (60)	0.00035	< 0.00035	103114ICPMS8
Lead (208)	0.00024	< 0.00024	103114ICPMS8
Antimony (121)	0.00021	< 0.00021	103114ICPMS8
Thallium (205)	0.00019	< 0.00019	103114ICPMS8

*** - calibrated by linear regression*

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Quality Control Summary
SDG: L729800
URS Corporation - Tucson AZ - 1088308

Test: Trace Metals by Method 6020
Project No: 23446543.0053AA
Project: Holloman AFB EPA ID: TN00003
Collection Date: 10/23/2014
Instrument ID: ICPMS8

Standard Type: CCB
Analysis Date: 10/31/2014 5:52 PM
Analysis Time: 1752
Data File: 103114ICPMS8

Analyte	MDL	Conc	Filename
Silver (107)	0.00031	< 0.00031	103114ICPMS8
Arsenic (75)	0.00025	< 0.00025	103114ICPMS8
Cadmium (111)	0.00016	< 0.00016	103114ICPMS8
Cobalt (59)	0.00026	< 0.00026	103114ICPMS8
Chromium (52)	0.00054	< 0.00054	103114ICPMS8
Nickel (60)	0.00035	< 0.00035	103114ICPMS8
Lead (208)	0.00024	< 0.00024	103114ICPMS8
Antimony (121)	0.00021	< 0.00021	103114ICPMS8
Thallium (205)	0.00019	< 0.00019	103114ICPMS8

*** - calibrated by linear regression*

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Quality Control Summary
SDG: L729800
URS Corporation - Tucson AZ - 1088308

Test: Trace Metals by Method 6020
Project No: 23446543.0053AA
Project: Holloman AFB EPA ID: TN00003
Collection Date: 10/23/2014
Instrument ID: ICPMS8

Standard Type: ICB
Analysis Date: 11/5/2014 12:57 PM
Analysis Time: 1257
Data File: 110514ICPMS8

Analyte	MDL	Conc	Filename
Silver (107)	0.00031	< 0.00031	110514ICPMS8
Arsenic (75)	0.00025	< 0.00025	110514ICPMS8
Cadmium (111)	0.00016	< 0.00016	110514ICPMS8
Cobalt (59)	0.00026	< 0.00026	110514ICPMS8
Chromium (52)	0.00054	< 0.00054	110514ICPMS8
Nickel (60)	0.00035	< 0.00035	110514ICPMS8
Lead (208)	0.00024	< 0.00024	110514ICPMS8
Antimony (121)	0.00021	0.000567	110514ICPMS8
Selenium (78)	0.00038	< 0.00038	110514ICPMS8
Thallium (205)	0.00019	< 0.00019	110514ICPMS8

Standard Type: CCB
Analysis Date: 11/5/2014 1:35 PM
Analysis Time: 1335
Data File: 110514ICPMS8

Analyte	MDL	Conc	Filename
Silver (107)	0.00031	< 0.00031	110514ICPMS8
Arsenic (75)	0.00025	< 0.00025	110514ICPMS8
Cadmium (111)	0.00016	< 0.00016	110514ICPMS8
Cobalt (59)	0.00026	< 0.00026	110514ICPMS8
Chromium (52)	0.00054	< 0.00054	110514ICPMS8
Nickel (60)	0.00035	< 0.00035	110514ICPMS8
Lead (208)	0.00024	< 0.00024	110514ICPMS8
Antimony (121)	0.00021	< 0.00021	110514ICPMS8
Selenium (78)	0.00038	< 0.00038	110514ICPMS8
Thallium (205)	0.00019	< 0.00019	110514ICPMS8

*** - calibrated by linear regression*

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Quality Control Summary
SDG: L729800
URS Corporation - Tucson AZ - 1088308

Test: Trace Metals by Method 6020
Project No: 23446543.0053AA
Project: Holloman AFB EPA ID: TN00003
Collection Date: 10/23/2014
Instrument ID: ICPMS8

Standard Type: ICB
Analysis Date: 10/31/2014 1:15 PM
Analysis Time: 1315
Data File: 103114ICPMS8

Analyte	MDL	Conc	Filename
Silver (107)	0.00031	< 0.00031	103114ICPMS8
Arsenic (75)	0.00025	< 0.00025	103114ICPMS8
Cadmium (111)	0.00016	< 0.00016	103114ICPMS8
Cobalt (59)	0.00026	< 0.00026	103114ICPMS8
Chromium (52)	0.00054	< 0.00054	103114ICPMS8
Nickel (60)	0.00035	< 0.00035	103114ICPMS8
Lead (208)	0.00024	< 0.00024	103114ICPMS8
Antimony (121)	0.00021	< 0.00021	103114ICPMS8
Selenium (78)	0.00038	< 0.00038	103114ICPMS8
Thallium (205)	0.00019	< 0.00019	103114ICPMS8

Standard Type: CCB
Analysis Date: 10/31/2014 3:15 PM
Analysis Time: 1515
Data File: 103114ICPMS8

Analyte	MDL	Conc	Filename
Silver (107)	0.00031	< 0.00031	103114ICPMS8
Arsenic (75)	0.00025	< 0.00025	103114ICPMS8
Cadmium (111)	0.00016	< 0.00016	103114ICPMS8
Cobalt (59)	0.00026	< 0.00026	103114ICPMS8
Chromium (52)	0.00054	< 0.00054	103114ICPMS8
Nickel (60)	0.00035	< 0.00035	103114ICPMS8
Lead (208)	0.00024	< 0.00024	103114ICPMS8
Antimony (121)	0.00021	< 0.00021	103114ICPMS8
Selenium (78)	0.00038	< 0.00038	103114ICPMS8
Thallium (205)	0.00019	< 0.00019	103114ICPMS8

*** - calibrated by linear regression*

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Quality Control Summary
SDG: L729800
URS Corporation - Tucson AZ - 1088308

Test: Trace Metals by Method 6020
Project No: 23446543.0053AA
Project: Holloman AFB EPA ID: TN00003
Collection Date: 10/23/2014
Instrument ID: ICPMS8

Standard Type: CCB
Analysis Date: 10/31/2014 3:46 PM
Analysis Time: 1546
Data File: 103114ICPMS8

Analyte	MDL	Conc	Filename
Silver (107)	0.00031	< 0.00031	103114ICPMS8
Arsenic (75)	0.00025	< 0.00025	103114ICPMS8
Cadmium (111)	0.00016	< 0.00016	103114ICPMS8
Cobalt (59)	0.00026	< 0.00026	103114ICPMS8
Chromium (52)	0.00054	< 0.00054	103114ICPMS8
Nickel (60)	0.00035	< 0.00035	103114ICPMS8
Lead (208)	0.00024	< 0.00024	103114ICPMS8
Antimony (121)	0.00021	< 0.00021	103114ICPMS8
Selenium (78)	0.00038	< 0.00038	103114ICPMS8
Thallium (205)	0.00019	< 0.00019	103114ICPMS8

*** - calibrated by linear regression*

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Est. 1970

Quality Control Summary
SDG: L729800
URS Corporation - Tucson AZ - 1088308

Test: Trace Metals by Method 6020
Project No: 23446543.0053AA
Project: Holloman AFB EPA ID: TN00003
Collection Date: 10/23/2014
Instrument ID: ICPMS8

Standard Type : ICSA
Analysis Date: 10/31/2014 1:24 PM
Analysis Time: 1324
Data File: 103114ICPMS8

Analyte	Conc.	True Value	Recovery	Limits
SILVER (107)	0.0001	0		80 - 120
ALUMINUM (27)	97.1	100	97 %	80 - 120
ARSENIC (75)	0.0003	0		80 - 120
BARIUM (137)	0.0066	0		80 - 120
BERYLLIUM (9)	0.0000	0		80 - 120
CALCIUM (43)	86.2	100	86 %	80 - 120
CADMIUM (111)	0.0004	0		80 - 120
COBALT (59)	0.0015	0		80 - 120
CHROMIUM (52)	0.0009	0		80 - 120
COPPER (63)	0.0008	0		80 - 120
IRON (56)	91.1	5.00	1821 %	80 - 120
POTASSIUM (39)	95.5	100	96 %	80 - 120
MAGNESIUM (24)	92.9	100	93 %	80 - 120
MANGANESE (55)	0.0048	0		80 - 120
MOLYBDENUM (95)	1.97	1.00	197 %	80 - 120
SODIUM (23)	93.3	100	93 %	80 - 120
NICKEL (60)	0.0024	0		80 - 120
LEAD (208)	0.0004	0		80 - 120
ANTIMONY (121)	0.0005	0		80 - 120
SELENIUM (78)	-0.0003	0		80 - 120
TIN (118)	0.0003	0		80 - 120
STRONTIUM (88)	0.0004	0		80 - 120
TITANIUM (47)	1.95	0		80 - 120
THALLIUM (205)	0.0000	0		80 - 120
VANADIUM (51)	0.0000	0		80 - 120
ZINC (66)	0.0026	0		80 - 120

*** - calibrated by linear regression*

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Est. 1970

Quality Control Summary
SDG: L729800
URS Corporation - Tucson AZ - 1088308

Test: Trace Metals by Method 6020
Project No: 23446543.0053AA
Project: Holloman AFB EPA ID: TN00003
Collection Date: 10/23/2014
Instrument ID: ICPMS8

Standard Type : ICSAB
Analysis Date: 10/31/2014 1:26 PM
Analysis Time: 1326
Data File: 103114ICPMS8

Analyte	Conc.	True Value	Recovery	Limits
SILVER (107)	0.0206	0.0200	103 %	80 - 120
ALUMINUM (27)	98.6	100	99 %	80 - 120
ARSENIC (75)	0.0202	0.0200	101 %	80 - 120
BARIUM (137)	0.0270	0.0200	135 %	80 - 120
BERYLLIUM (9)	0.0195	0.0200	97 %	80 - 120
CALCIUM (43)	86.9	100	87 %	80 - 120
CADMIUM (111)	0.0206	0.0200	103 %	80 - 120
COBALT (59)	0.0208	0.0200	104 %	80 - 120
CHROMIUM (52)	0.0208	0.0200	104 %	80 - 120
COPPER (63)	0.0200	0.0200	100 %	80 - 120
IRON (56)	92.3	5.00	1846 %	80 - 120
POTASSIUM (39)	95.4	100	95 %	80 - 120
MAGNESIUM (24)	94.2	100	94 %	80 - 120
MANGANESE (55)	0.0252	0.0200	126 %	80 - 120
MOLYBDENUM (95)	1.98	1.00	198 %	80 - 120
SODIUM (23)	94.6	100	95 %	80 - 120
NICKEL (60)	0.0208	0.0200	104 %	80 - 120
LEAD (208)	0.0201	0.0200	100 %	80 - 120
ANTIMONY (121)	0.0219	0.0200	110 %	80 - 120
SELENIUM (78)	0.0182	0.0200	91 %	80 - 120
TIN (118)	0.0204	0.0200	102 %	80 - 120
STRONTIUM (88)	0.0198	0		80 - 120
TITANIUM (47)	1.98	0		80 - 120
THALLIUM (205)	0.0192	0.0200	96 %	80 - 120
VANADIUM (51)	0.0202	0.0200	101 %	80 - 120
ZINC (66)	0.0220	0.0200	110 %	80 - 120

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Quality Control Summary
SDG: L729800
URS Corporation - Tucson AZ - 1088308

Test: Trace Metals by Method 6020
Project No: 23446543.0053AA
Project: Holloman AFB EPA ID: TN00003
Collection Date: 10/23/2014
Instrument ID: ICPMS8

Standard Type : ICSA
Analysis Date: 11/5/2014 1:01 PM
Analysis Time: 1301
Data File: 110514ICPMS8

Analyte	Conc.	True Value	Recovery	Limits
SILVER (107)	0.0001	0		80 - 120
ALUMINUM (27)	102	100	102 %	80 - 120
ARSENIC (75)	0.0003	0		80 - 120
BORON (11)	0.0057	0		80 - 120
BARIUM (137)	0.0003	0		80 - 120
BERYLLIUM (9)	0.0000	0		80 - 120
CALCIUM (43)	90.6	100	91 %	80 - 120
CADMIUM (111)	0.0004	0		80 - 120
COBALT (59)	0.0005	0		80 - 120
CHROMIUM (52)	0.0006	0		80 - 120
COPPER (63)	0.0008	0		80 - 120
IRON (56)	91.9	5.00	1838 %	80 - 120
POTASSIUM (39)	101	100	101 %	80 - 120
MAGNESIUM (24)	96.7	100	97 %	80 - 120
MANGANESE (55)	0.0049	0		80 - 120
MOLYBDENUM (95)	1.98	1.00	198 %	80 - 120
SODIUM (23)	98.0	100	98 %	80 - 120
NICKEL (60)	0.0010	0		80 - 120
LEAD (208)	0.0003	0		80 - 120
ANTIMONY (121)	0.0010	0		80 - 120
SELENIUM (78)	0.0006	0		80 - 120
TIN (118)	0.0002	0		80 - 120
STRONTIUM (88)	0.0016	0		80 - 120
TITANIUM (47)	2.04	0		80 - 120
THALLIUM (205)	0.0000	0		80 - 120
VANADIUM (51)	0.0000	0		80 - 120
ZINC (66)	0.0011	0		80 - 120

*** - calibrated by linear regression*

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Tax I.D 62-0814289
Est. 1970

Quality Control Summary
SDG: L729800
URS Corporation - Tucson AZ - 1088308

Test: Trace Metals by Method 6020
Project No: 23446543.0053AA
Project: Holloman AFB EPA ID: TN00003
Collection Date: 10/23/2014
Instrument ID: ICPMS8

Standard Type : ICSAB
Analysis Date: 11/5/2014 1:03 PM
Analysis Time: 1303
Data File: 110514ICPMS8

Analyte	Conc.	True Value	Recovery	Limits
SILVER (107)	0.0206	0.0200	103 %	80 - 120
ALUMINUM (27)	98.4	100	98 %	80 - 120
ARSENIC (75)	0.0205	0.0200	103 %	80 - 120
BORON (11)	0.0247	0		80 - 120
BARIUM (137)	0.0208	0.0200	104 %	80 - 120
BERYLLIUM (9)	0.0190	0.0200	95 %	80 - 120
CALCIUM (43)	90.0	100	90 %	80 - 120
CADMIUM (111)	0.0208	0.0200	104 %	80 - 120
COBALT (59)	0.0203	0.0200	102 %	80 - 120
CHROMIUM (52)	0.0209	0.0200	104 %	80 - 120
COPPER (63)	0.0208	0.0200	104 %	80 - 120
IRON (56)	94.8	5.00	1896 %	80 - 120
POTASSIUM (39)	98.3	100	98 %	80 - 120
MAGNESIUM (24)	95.2	100	95 %	80 - 120
MANGANESE (55)	0.0249	0.0200	124 %	80 - 120
MOLYBDENUM (95)	2.03	1.00	203 %	80 - 120
SODIUM (23)	96.9	100	97 %	80 - 120
NICKEL (60)	0.0206	0.0200	103 %	80 - 120
LEAD (208)	0.0205	0.0200	102 %	80 - 120
ANTIMONY (121)	0.0228	0.0200	114 %	80 - 120
SELENIUM (78)	0.0183	0.0200	91 %	80 - 120
TIN (118)	0.0206	0.0200	103 %	80 - 120
STRONTIUM (88)	0.0219	0		80 - 120
TITANIUM (47)	1.99	0		80 - 120
THALLIUM (205)	0.0199	0.0200	100 %	80 - 120
VANADIUM (51)	0.0203	0.0200	102 %	80 - 120
ZINC (66)	0.0205	0.0200	102 %	80 - 120

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Quality Control Summary
SDG: L729800
URS Corporation - Tucson AZ - 1088308

Test: Trace Metals by Method 6020
Project No: 23446543.0053AA
Project: Holloman AFB EPA ID: TN00003
Collection Date: 10/23/2014
Instrument ID: ICPMS8

Standard Type : ICSA
Analysis Date: 10/31/2014 1:24 PM
Analysis Time: 1324
Data File: 103114ICPMS8

Analyte	Conc.	True Value	Recovery	Limits
SILVER (107)	0.0001	0		80 - 120
ALUMINUM (27)	97.1	100	97 %	80 - 120
ARSENIC (75)	0.0003	0		80 - 120
BARIUM (137)	0.0066	0		80 - 120
BERYLLIUM (9)	0.0000	0		80 - 120
CALCIUM (43)	86.2	100	86 %	80 - 120
CADMIUM (111)	0.0004	0		80 - 120
COBALT (59)	0.0015	0		80 - 120
CHROMIUM (52)	0.0009	0		80 - 120
COPPER (63)	0.0008	0		80 - 120
IRON (56)	91.1	5.00	1821 %	80 - 120
POTASSIUM (39)	95.5	100	96 %	80 - 120
MAGNESIUM (24)	92.9	100	93 %	80 - 120
MANGANESE (55)	0.0048	0		80 - 120
MOLYBDENUM (95)	1.97	1.00	197 %	80 - 120
SODIUM (23)	93.3	100	93 %	80 - 120
NICKEL (60)	0.0024	0		80 - 120
LEAD (208)	0.0004	0		80 - 120
ANTIMONY (121)	0.0005	0		80 - 120
SELENIUM (78)	-0.0003	0		80 - 120
TIN (118)	0.0003	0		80 - 120
STRONTIUM (88)	0.0004	0		80 - 120
TITANIUM (47)	1.95	0		80 - 120
THALLIUM (205)	0.0000	0		80 - 120
VANADIUM (51)	0.0000	0		80 - 120
ZINC (66)	0.0026	0		80 - 120

*** - calibrated by linear regression*

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Quality Control Summary
SDG: L729800
URS Corporation - Tucson AZ - 1088308

Test: Trace Metals by Method 6020
Project No: 23446543.0053AA
Project: Holloman AFB EPA ID: TN00003
Collection Date: 10/23/2014
Instrument ID: ICPMS8

Standard Type : ICSAB
Analysis Date: 10/31/2014 1:26 PM
Analysis Time: 1326
Data File: 103114ICPMS8

Analyte	Conc.	True Value	Recovery	Limits
SILVER (107)	0.0206	0.0200	103 %	80 - 120
ALUMINUM (27)	98.6	100	99 %	80 - 120
ARSENIC (75)	0.0202	0.0200	101 %	80 - 120
BARIUM (137)	0.0270	0.0200	135 %	80 - 120
BERYLLIUM (9)	0.0195	0.0200	97 %	80 - 120
CALCIUM (43)	86.9	100	87 %	80 - 120
CADMIUM (111)	0.0206	0.0200	103 %	80 - 120
COBALT (59)	0.0208	0.0200	104 %	80 - 120
CHROMIUM (52)	0.0208	0.0200	104 %	80 - 120
COPPER (63)	0.0200	0.0200	100 %	80 - 120
IRON (56)	92.3	5.00	1846 %	80 - 120
POTASSIUM (39)	95.4	100	95 %	80 - 120
MAGNESIUM (24)	94.2	100	94 %	80 - 120
MANGANESE (55)	0.0252	0.0200	126 %	80 - 120
MOLYBDENUM (95)	1.98	1.00	198 %	80 - 120
SODIUM (23)	94.6	100	95 %	80 - 120
NICKEL (60)	0.0208	0.0200	104 %	80 - 120
LEAD (208)	0.0201	0.0200	100 %	80 - 120
ANTIMONY (121)	0.0219	0.0200	110 %	80 - 120
SELENIUM (78)	0.0182	0.0200	91 %	80 - 120
TIN (118)	0.0204	0.0200	102 %	80 - 120
STRONTIUM (88)	0.0198	0		80 - 120
TITANIUM (47)	1.98	0		80 - 120
THALLIUM (205)	0.0192	0.0200	96 %	80 - 120
VANADIUM (51)	0.0202	0.0200	101 %	80 - 120
ZINC (66)	0.0220	0.0200	110 %	80 - 120

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Quality Control Summary
SDG: L729800
URS Corporation - Tucson AZ - 1088308

Project No: 23446543.0053AA
Project: Holloman AFB EPA ID: TN00003
Instrument ID: ICPMS8 Method: ICP-MS Run Number: 103114ICPMS8

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	1259	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	1	1300	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
STD2	1	1302	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	1	1304	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
STD4	1	1305	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
STD5	1	1307	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
STD6	1	1309	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
ICV	1	1310		X	X				X		X	X			X					X				X				X				
ICB	1	1315		X	X				X		X	X			X					X				X				X				
ICVLL	1	1316		X	X				X		X	X			X					X				X				X				
ICSA	1	1324																													
ICSAB	1	1326																													
CCVLL	1	1349		X	X				X		X	X			X					X				X				X				
CCVLL	1	1436		X	X				X		X	X			X					X				X				X				
CCVLL	1	1517		X	X				X		X	X			X					X				X				X				
CCVLL	1	1547		X	X				X		X	X			X					X				X				X				
CCV	1	1629		X	X				X		X	X			X					X				X				X				
CCB	1	1630		X	X				X		X	X			X					X				X				X				
CCVLL	1	1633		X	X				X		X	X			X					X				X				X				
BLANK WG751220	1	1635		X	X				X		X	X			X					X				X				X				
LCS WG751220	1	1636		X	X				X		X	X			X					X				X				X				
LCSD WG751220	1	1638		X	X				X		X	X			X					X				X				X				
L729800-01 WG751220	5	1639		X	X				X		X	X			X					X				X				X				
L729800-01SD WG751220	25	1641		X	X				X		X	X			X					X				X				X				
L729800-01MS WG751220	5	1642		X	X				X		X	X			X					X				X				X				
L729800-01MSD WG751220	5	1644		X	X				X		X	X			X					X				X				X				
CCV	1	1645		X	X				X		X	X			X					X				X				X				
CCB	1	1646		X	X				X		X	X			X					X				X				X				
CCV	1	1734		X	X				X		X	X			X					X				X				X				
CCB	1	1736		X	X				X		X	X			X					X				X				X				
CCVLL	1	1737		X	X				X		X	X			X					X				X				X				
CCV	1	1750		X	X				X		X	X			X					X				X				X				
CCB	1	1752		X	X				X		X	X			X					X				X				X				
CCVLL	1	1824		X	X				X		X	X			X					X				X				X				

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Quality Control Summary
SDG: L729800
URS Corporation - Tucson AZ - 1088308

Project No: 23446543.0053AA
Project: Holloman AFB EPA ID: TN00003
Instrument ID: ICPMS8 Method: ICP-MS Run Number: 110514ICPMS8

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	1236	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	1	1238	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
STD2	1	1240	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	1	1241	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
STD4	1	1245	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
STD5	1	1246	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
STD6	1	1253	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
ICV	1	1255		X	X				X		X	X			X					X		X		X				X				
ICB	1	1257		X	X				X		X	X			X					X		X		X				X				
ICVLL	1	1300		X	X				X		X	X			X					X		X		X				X				
ICSA	1	1301																														
ICSAB	1	1303																														
BLANK WG751220	1	1307																				X										
LCS WG751220	1	1308																				X										
LCSD WG751220	1	1310																				X										
L729800-01 WG751220	5	1311																				X										
L729800-01SD WG751220	25	1313																				X										
L729800-01MS WG751220	5	1314																				X										
L729800-01MSD WG751220	5	1316																				X										
CCV	1	1333		X	X				X		X	X			X					X		X		X				X				
CCB	1	1335		X	X				X		X	X			X					X		X		X				X				
CCVLL	1	1336		X	X				X		X	X			X					X		X		X				X				
C																																

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Quality Control Summary
SDG: L729800
URS Corporation - Tucson AZ - 1088308

Project No: 23446543.0053AA
Project: Holloman AFB EPA ID: TN00003
Instrument ID: ICPMS8 Method: ICP-MS Run Number: 103114ICPMS8

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	1259	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	1	1300	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
STD2	1	1302	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	1	1304	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
STD4	1	1305	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
STD5	1	1307	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
STD6	1	1309	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
ICV	1	1310		X	X				X		X	X			X					X		X		X				X				
ICB	1	1315		X	X				X		X	X			X					X		X		X				X				
ICVLL	1	1316		X	X				X		X	X			X					X		X		X				X				
ICSA	1	1324																													
ICSAB	1	1326																													
CCVLL	1	1349		X	X				X		X	X			X					X		X		X				X				
CCVLL	1	1436		X	X				X		X	X			X					X		X		X				X				
CCV	1	1514		X	X				X		X	X			X					X		X		X				X				
CCB	1	1515		X	X				X		X	X			X					X		X		X				X				
CCVLL	1	1517		X	X				X		X	X			X					X		X		X				X				
BLANK WG751906	1	1518		X	X				X		X	X			X					X		X		X				X				
LCS WG751906	1	1520		X	X				X		X	X			X					X		X		X				X				
LCSD WG751906	1	1521		X	X				X		X	X			X					X		X		X				X				
L729559-01SD WG751906	25	1524									X									X												
L729559-01MS WG751906	5	1526									X									X												
L729559-01MSD WG751906	5	1527									X									X												
L729800-02 WG751906	5	1537		X	X				X		X	X			X					X		X		X				X				
L729800-02MS WG751906	5	1539		X	X				X		X	X			X					X		X		X				X				
L729800-02MSD WG751906	5	1540		X	X				X		X	X			X					X		X		X				X				
CCV	1	1544		X	X				X		X	X			X					X		X		X				X				
CCB	1	1546		X	X				X		X	X			X					X		X		X				X				
CCVLL	1	1547		X	X				X		X	X			X					X		X		X				X				

Sample ID: LLICV
Analysis Date: 10/31/14 13:16 Standard ID:
Sequence: 12

QC Parameters

Exp	Parameter	Mass	Units	Intensity	Uncorrected Result	Corrected Result	RSD	%Rec	LL	HL	TV	CorCoef
Y	SCANDIUM (NO HE)	45		1612100			2.68	99	80	120	1630245	
Y	SCANDIUM	45		18595.22			1.80	101	80	120	18475.02	
Y	GERMANIUM	72		20710.53			0.370	102	80	120	20319.98	
Y	RHODIUM	103		826275.1			1.67	102	80	120	806457.9	
Y	LUTETIUM	175		372444.9			0.620	104	80	120	359260.2	

Target Parameters

Exp	Parameter	Mass	Units	Uncorrected Result	Corrected Result	RSD	%Rec	LL	HL	TV	CorCoef	
Y	ANTIMONY	121		0.001012669	0.001012669	19.520	101	1	200	0.0010	0.9999964	
Y	ARSENIC	75		0.0009757740	0.0009757740	4.13	98	1	200	0.0010	0.9999948	
Y	BARIUM	137		0.001846489	0.001846489	18.450	92	1	200	0.0020	0.9999764	
Y	BERYLLIUM	9		0.001038578	0.001038578	30.350	104	1	200	0.0010	0.9998942	
Y	CADMIUM	111		0.0005076720	0.0005076720	9.67	102	1	200	0.0005	0.9999989	
Y	CHROMIUM	52		0.001138843	0.001138843	1.93	114	1	200	0.0010	0.9999268	
Y	COBALT	59		0.001016244	0.001016244	3.43	102	1	200	0.0010	0.9999978	
Y	COPPER	63		0.001091418	0.001091418	3.49	109	1	200	0.0010	0.9999785	
Y	IRON	56		0.0004108680	0.0004108680	40.080	0	1	200	5	0.9999871	NT
Y	LEAD	208		0.001047495	0.001047495	1.31	105	1	200	0.0010	0.9999873	
Y	MANGANESE	55		0.001963766	0.001963766	7.93	98	1	200	0.0020	0.9999943	
Y	MOLYBDENUM	95		0.002071803	0.002071803	2.72	104	1	200	0.0020	0.9999946	
Y	NICKEL	60		0.001146258	0.001146258	2.35	115	1	200	0.0010	0.9999784	
Y	SELENIUM	78		0.0009037620	0.0009037620	51.980	90	1	200	0.0010	0.9998378	
Y	SILVER	107		0.0005686720	0.0005686720	9.45	114	1	200	0.0005	0.9998136	
Y	THALLIUM	205		0.0009809570	0.0009809570	4.84	98	1	200	0.0010	0.9999688	
Y	TIN	118		0.001059292	0.001059292	6.83	106	1	200	0.0010	0.9999905	
Y	VANADIUM	51		0.002041100	0.002041100	4.10	102	1	200	0.0020	0.9999518	
Y	ZINC	66		0.01013105	0.01013105	4.88	101	1	200	0.01	0.9999807	
N	ALUMINUM	27		0.0004002620	0.0004002620	148.7600					0.9999400	
N	CALCIUM	43		-0.003125106	-0.003125106						0.9999290	
N	MAGNESIUM	24		0.0001828590	0.0001828590	163.2900					0.9999968	
N	POTASSIUM	39		0.003028763	0.003028763	371.5200					0.9999330	
N	SODIUM	23		-0.004392456	-0.004392456						0.9998160	
N	STRONTIUM	88		0.00004778600	0.00004778600	106.600					0.9999753	
N	TITANIUM	47		0.0001346570	0.0001346570	173.2100					0.9993270	
N	URANIUM	238		0.000006096000	0.000006096000	26.920					0.8902159	NT

Sample ID: LLCCV
Analysis Date: 10/31/14 16:33 Standard ID:
Sequence: 136

QC Parameters

Exp	Parameter	Mass	Units	Intensity	Uncorrected Result	Corrected Result	RSD	%Rec	LL	HL	TV	CorCoef
Y	SCANDIUM (NO HE)	45		1703650			1.85	105	80	120	1630245	
Y	SCANDIUM	45		17538.36			2.42	95	80	120	18475.02	
Y	GERMANIUM	72		20184.23			1.47	99	80	120	20319.98	
Y	RHODIUM	103		841153.3			1.53	104	80	120	806457.9	
Y	LUTETIUM	175		403746.7			1.28	112	80	120	359260.2	

Target Parameters

Exp	Parameter	Mass	Units	Uncorrected Result	Corrected Result	RSD	%Rec	LL	HL	TV	CorCoef	
Y	ANTIMONY	121		0.0009452540	0.0009452540	7.70	95	1	200	0.0010	0.9999964	
Y	ARSENIC	75		0.001018054	0.001018054	10.180	102	1	200	0.0010	0.9999948	
Y	BARIUM	137		0.001954378	0.001954378	4.87	98	1	200	0.0020	0.9999764	
Y	BERYLLIUM	9		0.0009488080	0.0009488080	39.680	95	1	200	0.0010	0.9998942	
Y	CADMIUM	111		0.0005083250	0.0005083250	1.48	102	1	200	0.0005	0.9999989	
Y	CHROMIUM	52		0.0007912960	0.0007912960	4.67	79	1	200	0.0010	0.9999268	
Y	COBALT	59		0.001018684	0.001018684	3.09	102	1	200	0.0010	0.9999978	
Y	COPPER	63		0.001077782	0.001077782	6.87	108	1	200	0.0010	0.9999785	
Y	IRON	56		0.002100007	0.002100007	22.120	0	1	200	5	0.9999871	NT
Y	LEAD	208		0.001119181	0.001119181	1.91	112	1	200	0.0010	0.9999873	
Y	MANGANESE	55		0.002334077	0.002334077	9.79	117	1	200	0.0020	0.9999943	
Y	MOLYBDENUM	95		0.002193784	0.002193784	11.280	110	1	200	0.0020	0.9999946	
Y	NICKEL	60		0.0009948190	0.0009948190	17.320	99	1	200	0.0010	0.9999784	
Y	SELENIUM	78		0.001302993	0.001302993	34.840	130	1	200	0.0010	0.9998378	
Y	SILVER	107		0.0004977510	0.0004977510	8.11	100	1	200	0.0005	0.9998136	
Y	THALLIUM	205		0.001027583	0.001027583	1.24	103	1	200	0.0010	0.9999688	
Y	TIN	118		0.001018978	0.001018978	4.42	102	1	200	0.0010	0.9999905	
Y	VANADIUM	51		0.001936299	0.001936299	4.48	97	1	200	0.0020	0.9999518	
Y	ZINC	66		0.009666562	0.009666562	2.34	97	1	200	0.01	0.9999807	
N	ALUMINUM	27		0.0004874880	0.0004874880	265.4500					0.9999400	
N	CALCIUM	43		0.01120093	0.01120093	131.6200					0.9999290	
N	MAGNESIUM	24		0.002965700	0.002965700	27.60					0.9999968	
N	POTASSIUM	39		-0.01674062	-0.01674062						0.9999330	
N	SODIUM	23		0.05510543	0.05510543	10.560					0.9998160	
N	STRONTIUM	88		0.0002169530	0.0002169530	59.350					0.9999753	
N	TITANIUM	47		0.0001477420	0.0001477420	173.2100					0.9993270	
N	URANIUM	238		0.000003299000	0.000003299000	104.4900					0.8902159	NT

Sample ID: LLCCV
Analysis Date: 10/31/14 17:37 Standard ID:
Sequence: 173

QC Parameters

Exp	Parameter	Mass	Units	Intensity	Uncorrected Result	Corrected Result	RSD	%Rec	LL	HL	TV	CorCoef
Y	SCANDIUM (NO HE)	45		1685893			2.91	103	80	120	1630245	
Y	SCANDIUM	45		18461.70			1.92	100	80	120	18475.02	
Y	GERMANIUM	72		20561.46			1.89	101	80	120	20319.98	
Y	RHODIUM	103		827734.9			0.450	103	80	120	806457.9	
Y	LUTETIUM	175		394287.7			2.24	110	80	120	359260.2	

Target Parameters

Exp	Parameter	Mass	Units	Uncorrected Result	Corrected Result	RSD	%Rec	LL	HL	TV	CorCoef	
Y	ANTIMONY	121		0.001041876	0.001041876	5.69	104	1	200	0.0010	0.9999964	
Y	ARSENIC	75		0.0009771400	0.0009771400	5.61	98	1	200	0.0010	0.9999948	
Y	BARIUM	137		0.002243333	0.002243333	9.33	112	1	200	0.0020	0.9999764	
Y	BERYLLIUM	9		0.001424556	0.001424556	35.610	142	1	200	0.0010	0.9998942	
Y	CADMIUM	111		0.0004539520	0.0004539520	7.18	91	1	200	0.0005	0.9999989	
Y	CHROMIUM	52		0.0008170540	0.0008170540	10.830	82	1	200	0.0010	0.9999268	
Y	COBALT	59		0.0009977370	0.0009977370	5.29	100	1	200	0.0010	0.9999978	
Y	COPPER	63		0.001077781	0.001077781	9.64	108	1	200	0.0010	0.9999785	
Y	IRON	56		0.002120218	0.002120218	14.010	0	1	200	5	0.9999871	NT
Y	LEAD	208		0.001099414	0.001099414	2.42	110	1	200	0.0010	0.9999873	
Y	MANGANESE	55		0.001918270	0.001918270	9.01	96	1	200	0.0020	0.9999943	
Y	MOLYBDENUM	95		0.002040235	0.002040235	2.63	102	1	200	0.0020	0.9999946	
Y	NICKEL	60		0.001064566	0.001064566	7.84	106	1	200	0.0010	0.9999784	
Y	SELENIUM	78		0.0006472910	0.0006472910	101.700	65	1	200	0.0010	0.9998378	
Y	SILVER	107		0.0005475090	0.0005475090	5.68	110	1	200	0.0005	0.9998136	
Y	THALLIUM	205		0.001019683	0.001019683	3.59	102	1	200	0.0010	0.9999688	
Y	TIN	118		0.0008643560	0.0008643560	20.760	86	1	200	0.0010	0.9999905	
Y	VANADIUM	51		0.002004060	0.002004060	10.40	100	1	200	0.0020	0.9999518	
Y	ZINC	66		0.01020993	0.01020993	2.35	102	1	200	0.01	0.9999807	
N	ALUMINUM	27		0.0006179160	0.0006179160	52.880					0.9999400	
N	CALCIUM	43		0.01738211	0.01738211	147.5800					0.9999290	
N	MAGNESIUM	24		0.0007906350	0.0007906350	61.630					0.9999968	
N	POTASSIUM	39		-0.009497528	-0.009497528						0.9999330	
N	SODIUM	23		0.04693657	0.04693657	6.98					0.9998160	
N	STRONTIUM	88		0.00005453000	0.00005453000	71.80					0.9999753	
N	TITANIUM	47		0.0001387620	0.0001387620	173.2100					0.9993270	
N	URANIUM	238		0.000005398000	0.000005398000	26.390					0.8902159	NT

Sample ID: LLCCV
Analysis Date: 10/31/14 18:24 Standard ID:
Sequence: 205

QC Parameters

Exp	Parameter	Mass	Units	Intensity	Uncorrected Result	Corrected Result	RSD	%Rec	LL	HL	TV	CorCoef
Y	SCANDIUM (NO HE)	45		1809766			1.29	111	80	120	1630245	
Y	SCANDIUM	45		18913.40			1.19	102	80	120	18475.02	
Y	GERMANIUM	72		21276.92			1.48	105	80	120	20319.98	
Y	RHODIUM	103		866923.7			1.28	107	80	120	806457.9	
Y	LUTETIUM	175		431676.1			1.83	120	80	120	359260.2	

Target Parameters

Exp	Parameter	Mass	Units	Uncorrected Result	Corrected Result	RSD	%Rec	LL	HL	TV	CorCoef	
Y	ANTIMONY	121		0.0009696690	0.0009696690	5.38	97	1	200	0.0010	0.9999964	
Y	ARSENIC	75		0.0009960160	0.0009960160	5.01	100	1	200	0.0010	0.9999948	
Y	BARIUM	137		0.002028984	0.002028984	9.24	101	1	200	0.0020	0.9999764	
Y	BERYLLIUM	9		0.001295481	0.001295481	52.490	130	1	200	0.0010	0.9998942	
Y	CADMIUM	111		0.0005178190	0.0005178190	10.070	104	1	200	0.0005	0.9999989	
Y	CHROMIUM	52		0.0006467850	0.0006467850	5.56	65	1	200	0.0010	0.9999268	
Y	COBALT	59		0.001008186	0.001008186	4.57	101	1	200	0.0010	0.9999978	
Y	COPPER	63		0.001038148	0.001038148	5.12	104	1	200	0.0010	0.9999785	
Y	IRON	56		0.002017310	0.002017310	3.42	0	1	200	5	0.9999871	NT
Y	LEAD	208		0.001104367	0.001104367	3.22	110	1	200	0.0010	0.9999873	
Y	MANGANESE	55		0.001796128	0.001796128	3.63	90	1	200	0.0020	0.9999943	
Y	MOLYBDENUM	95		0.001966458	0.001966458	1.38	98	1	200	0.0020	0.9999946	
Y	NICKEL	60		0.001111100	0.001111100	10.350	111	1	200	0.0010	0.9999784	
Y	SELENIUM	78		0.0007725920	0.0007725920	40.440	77	1	200	0.0010	0.9998378	
Y	SILVER	107		0.0005269500	0.0005269500	3.64	105	1	200	0.0005	0.9998136	
Y	THALLIUM	205		0.001020644	0.001020644	0.930	102	1	200	0.0010	0.9999688	
Y	TIN	118		0.0009820160	0.0009820160	11.130	98	1	200	0.0010	0.9999905	
Y	VANADIUM	51		0.001924451	0.001924451	6.63	96	1	200	0.0020	0.9999518	
Y	ZINC	66		0.009791335	0.009791335	5.41	98	1	200	0.01	0.9999807	
N	ALUMINUM	27		0.001802279	0.001802279	70.530					0.9999400	
N	CALCIUM	43		0.01374975	0.01374975	147.6600					0.9999290	
N	MAGNESIUM	24		0.002068761	0.002068761	41.10					0.9999968	
N	POTASSIUM	39		-0.02008358	-0.02008358						0.9999330	
N	SODIUM	23		0.06692806	0.06692806	1.42					0.9998160	
N	STRONTIUM	88		0.0002215390	0.0002215390	2.09					0.9999753	
N	TITANIUM	47		0.000000000	0.000000000						0.9993270	
N	URANIUM	238		0.00001051800	0.00001051800	28.440					0.8902159	NT

Sample ID: LLICV
Analysis Date: 11/05/14 13:00 Standard ID:
Sequence: 15

QC Parameters

Exp	Parameter	Mass	Units	Intensity	Uncorrected Result	Corrected Result	RSD	%Rec	LL	HL	TV	CorCoef
Y	SCANDIUM (NO HE)	45		1214962			1.50	100	80	120	1212886	
Y	SCANDIUM	45		17771.94			1.57	100	80	120	17808.68	
Y	GERMANIUM	72		19267.40			1.15	99	80	120	19508.85	
Y	RHODIUM	103		685816.0			0.300	100	80	120	685031.9	
Y	LUTETIUM	175		355062.0			0.760	101	80	120	351241.5	

Target Parameters

Exp	Parameter	Mass	Units	Uncorrected Result	Corrected Result	RSD	%Rec	LL	HL	TV	CorCoef	
Y	ANTIMONY	121		0.001197440	0.001197440	16.320	120	1	200	0.0010	0.9999278	
Y	ARSENIC	75		0.0009888840	0.0009888840	7.40	99	1	200	0.0010	0.9999709	
Y	BARIUM	137		0.002201514	0.002201514	14.80	110	1	200	0.0020	0.9999017	
Y	BERYLLIUM	9		0.001064068	0.001064068	1.61	106	1	200	0.0010	0.9999526	
Y	CADMIUM	111		0.0005514680	0.0005514680	13.220	110	1	200	0.0005	0.9999166	
Y	CHROMIUM	52		0.001072440	0.001072440	21.720	107	1	200	0.0010	0.9999242	
Y	COBALT	59		0.0009487490	0.0009487490	5.46	95	1	200	0.0010	0.9999913	
Y	COPPER	63		0.001128941	0.001128941	2.70	113	1	200	0.0010	0.9999650	
Y	IRON	56		0.001118012	0.001118012	11.220	0	1	200	5	0.9998855	NT
Y	LEAD	208		0.001068706	0.001068706	1.82	107	1	200	0.0010	0.9998573	
Y	MANGANESE	55		0.002045629	0.002045629	4.68	102	1	200	0.0020	0.9999863	
Y	MOLYBDENUM	95		0.002005639	0.002005639	5.42	100	1	200	0.0020	0.9999671	
Y	NICKEL	60		0.001200345	0.001200345	3.29	120	1	200	0.0010	0.9999825	
Y	SELENIUM	78		0.001058951	0.001058951	19.740	106	1	200	0.0010	0.9999702	
Y	SILVER	107		0.0005306530	0.0005306530	10.680	106	1	200	0.0005	0.9999665	
Y	THALLIUM	205		0.001025764	0.001025764	4.52	103	1	200	0.0010	0.9998586	
Y	TIN	118		0.0009519620	0.0009519620	7.27	95	1	200	0.0010	0.9999394	
Y	VANADIUM	51		0.002096866	0.002096866	9.84	105	1	200	0.0020	0.9999704	
Y	ZINC	66		0.01069767	0.01069767	5.87	107	1	200	0.01	0.9998391	
N	ALUMINUM	27		-0.001397706	-0.001397706						0.9999321	
N	BORON	11		0.003665016	0.003665016	3.70					0.9998824	
N	CALCIUM	43		-0.005706537	-0.005706537						0.9998967	
N	MAGNESIUM	24		-0.0001486620	-0.0001486620						0.9999352	
N	POTASSIUM	39		0.0003448310	0.0003448310	1773.330					0.9998688	
N	SODIUM	23		-0.001482194	-0.001482194						0.9996228	
N	STRONTIUM	88		-0.00002679800	-0.00002679800						0.9999785	
N	TITANIUM	47		0.0001444480	0.0001444480	173.2100					0.9995330	

Sample ID: LLICV
Analysis Date: 11/05/14 13:00 Standard ID:
Sequence: 15

Target Parameters cont'd.

Exp	Parameter	Mass	Units	Uncorrected Result	Corrected Result	RSD	%Rec	LL	HL	TV	CorCoef
N	URANIUM	238		0.000004632000	0.000004632000	46.910					0.9998028

Sample ID: LLCCV
Analysis Date: 11/05/14 13:36 Standard ID:
Sequence: 38

QC Parameters

Exp	Parameter	Mass	Units	Intensity	Uncorrected Result	Corrected Result	RSD	%Rec	LL	HL	TV	CorCoef
Y	SCANDIUM (NO HE)	45		1222729			0.490	101	80	120	1212886	
Y	SCANDIUM	45		16885.35			1.70	95	80	120	17808.68	
Y	GERMANIUM	72		18576.49			1.76	95	80	120	19508.85	
Y	RHODIUM	103		691137.4			0.560	101	80	120	685031.9	
Y	LUTETIUM	175		353434.7			1.14	101	80	120	351241.5	

Target Parameters

Exp	Parameter	Mass	Units	Uncorrected Result	Corrected Result	RSD	%Rec	LL	HL	TV	CorCoef	
Y	ANTIMONY	121		0.001039610	0.001039610	7.37	104	1	200	0.0010	0.9999278	
Y	ARSENIC	75		0.001000347	0.001000347	4.12	100	1	200	0.0010	0.9999709	
Y	BARIUM	137		0.001808855	0.001808855	14.960	90	1	200	0.0020	0.9999017	
Y	BERYLLIUM	9		0.0009914080	0.0009914080	18.310	99	1	200	0.0010	0.9999526	
Y	CADMIUM	111		0.0004866180	0.0004866180	7.09	97	1	200	0.0005	0.9999166	
Y	CHROMIUM	52		0.001172099	0.001172099	7.16	117	1	200	0.0010	0.9999242	
Y	COBALT	59		0.001021867	0.001021867	5.02	102	1	200	0.0010	0.9999913	
Y	COPPER	63		0.001205818	0.001205818	0.530	121	1	200	0.0010	0.9999650	
Y	IRON	56		0.003204883	0.003204883	8.13	0	1	200	5	0.9998855	NT
Y	LEAD	208		0.001118750	0.001118750	3.27	112	1	200	0.0010	0.9998573	
Y	MANGANESE	55		0.001965699	0.001965699	16.790	98	1	200	0.0020	0.9999863	
Y	MOLYBDENUM	95		0.002086250	0.002086250	8.92	104	1	200	0.0020	0.9999671	
Y	NICKEL	60		0.001220170	0.001220170	8.01	122	1	200	0.0010	0.9999825	
Y	SELENIUM	78		0.0009244040	0.0009244040	34.830	92	1	200	0.0010	0.9999702	
Y	SILVER	107		0.0004813750	0.0004813750	2.18	96	1	200	0.0005	0.9999665	
Y	THALLIUM	205		0.001042527	0.001042527	4.69	104	1	200	0.0010	0.9998586	
Y	TIN	118		0.001148144	0.001148144	4.22	115	1	200	0.0010	0.9999394	
Y	VANADIUM	51		0.001971471	0.001971471	9.71	99	1	200	0.0020	0.9999704	
Y	ZINC	66		0.01062099	0.01062099	2.17	106	1	200	0.01	0.9998391	
N	ALUMINUM	27		-0.001541760	-0.001541760						0.9999321	
N	BORON	11		0.005191367	0.005191367	4.16					0.9998824	
N	CALCIUM	43		0.04701416	0.04701416	38.260					0.9998967	
N	MAGNESIUM	24		0.005512847	0.005512847	33.590					0.9999352	
N	POTASSIUM	39		-0.01559857	-0.01559857						0.9998688	
N	SODIUM	23		0.1010801	0.1010801	6.03					0.9996228	
N	STRONTIUM	88		0.0001664790	0.0001664790	13.420					0.9999785	
N	TITANIUM	47		0.0001518570	0.0001518570	173.2100					0.9995330	

Sample ID: LLCCV
Analysis Date: 11/05/14 13:36 Standard ID:
Sequence: 38

Target Parameters cont'd.

Exp	Parameter	Mass	Units	Uncorrected Result	Corrected Result	RSD	%Rec	LL	HL	TV	CorCoef
N	URANIUM	238		0.000003411000	0.000003411000	81.460					0.9998028

Sample ID: LLICV
Analysis Date: 10/31/14 13:16 Standard ID:
Sequence: 12

QC Parameters

Exp	Parameter	Mass	Units	Intensity	Uncorrected Result	Corrected Result	RSD	%Rec	LL	HL	TV	CorCoef
Y	SCANDIUM (NO HE)	45		1612100			2.68	99	80	120	1630245	
Y	SCANDIUM	45		18595.22			1.80	101	80	120	18475.02	
Y	GERMANIUM	72		20710.53			0.370	102	80	120	20319.98	
Y	RHODIUM	103		826275.1			1.67	102	80	120	806457.9	
Y	LUTETIUM	175		372444.9			0.620	104	80	120	359260.2	

Target Parameters

Exp	Parameter	Mass	Units	Uncorrected Result	Corrected Result	RSD	%Rec	LL	HL	TV	CorCoef	
Y	ANTIMONY	121		0.001012669	0.001012669	19.520	101	1	200	0.0010	0.9999964	
Y	ARSENIC	75		0.0009757740	0.0009757740	4.13	98	1	200	0.0010	0.9999948	
Y	BARIUM	137		0.001846489	0.001846489	18.450	92	1	200	0.0020	0.9999764	
Y	BERYLLIUM	9		0.001038578	0.001038578	30.350	104	1	200	0.0010	0.9998942	
Y	CADMIUM	111		0.0005076720	0.0005076720	9.67	102	1	200	0.0005	0.9999989	
Y	CHROMIUM	52		0.001138843	0.001138843	1.93	114	1	200	0.0010	0.9999268	
Y	COBALT	59		0.001016244	0.001016244	3.43	102	1	200	0.0010	0.9999978	
Y	COPPER	63		0.001091418	0.001091418	3.49	109	1	200	0.0010	0.9999785	
Y	IRON	56		0.0004108680	0.0004108680	40.080	0	1	200	5	0.9999871	NT
Y	LEAD	208		0.001047495	0.001047495	1.31	105	1	200	0.0010	0.9999873	
Y	MANGANESE	55		0.001963766	0.001963766	7.93	98	1	200	0.0020	0.9999943	
Y	MOLYBDENUM	95		0.002071803	0.002071803	2.72	104	1	200	0.0020	0.9999946	
Y	NICKEL	60		0.001146258	0.001146258	2.35	115	1	200	0.0010	0.9999784	
Y	SELENIUM	78		0.0009037620	0.0009037620	51.980	90	1	200	0.0010	0.9998378	
Y	SILVER	107		0.0005686720	0.0005686720	9.45	114	1	200	0.0005	0.9998136	
Y	THALLIUM	205		0.0009809570	0.0009809570	4.84	98	1	200	0.0010	0.9999688	
Y	TIN	118		0.001059292	0.001059292	6.83	106	1	200	0.0010	0.9999905	
Y	VANADIUM	51		0.002041100	0.002041100	4.10	102	1	200	0.0020	0.9999518	
Y	ZINC	66		0.01013105	0.01013105	4.88	101	1	200	0.01	0.9999807	
N	ALUMINUM	27		0.0004002620	0.0004002620	148.7600					0.9999400	
N	CALCIUM	43		-0.003125106	-0.003125106						0.9999290	
N	MAGNESIUM	24		0.0001828590	0.0001828590	163.2900					0.9999968	
N	POTASSIUM	39		0.003028763	0.003028763	371.5200					0.9999330	
N	SODIUM	23		-0.004392456	-0.004392456						0.9998160	
N	STRONTIUM	88		0.00004778600	0.00004778600	106.600					0.9999753	
N	TITANIUM	47		0.0001346570	0.0001346570	173.2100					0.9993270	
N	URANIUM	238		0.000006096000	0.000006096000	26.920					0.8902159	NT

Sample ID: LLCCV
Analysis Date: 10/31/14 15:17 Standard ID:
Sequence: 87

QC Parameters

Exp	Parameter	Mass	Units	Intensity	Uncorrected Result	Corrected Result	RSD	%Rec	LL	HL	TV	CorCoef
Y	SCANDIUM (NO HE)	45		1471109			2.40	90	80	120	1630245	
Y	SCANDIUM	45		16450.40			1.29	89	80	120	18475.02	
Y	GERMANIUM	72		18186.00			1.56	89	80	120	20319.98	
Y	RHODIUM	103		764637.9			0.500	95	80	120	806457.9	
Y	LUTETIUM	175		339792.0			1.11	95	80	120	359260.2	

Target Parameters

Exp	Parameter	Mass	Units	Uncorrected Result	Corrected Result	RSD	%Rec	LL	HL	TV	CorCoef	
Y	ANTIMONY	121		0.001011174	0.001011174	7.37	101	1	200	0.0010	0.9999964	
Y	ARSENIC	75		0.001075354	0.001075354	5.83	108	1	200	0.0010	0.9999948	
Y	BARIUM	137		0.001922173	0.001922173	5.93	96	1	200	0.0020	0.9999764	
Y	BERYLLIUM	9		0.0009541000	0.0009541000	34.250	95	1	200	0.0010	0.9998942	
Y	CADMIUM	111		0.0005341810	0.0005341810	10.350	107	1	200	0.0005	0.9999989	
Y	CHROMIUM	52		0.001025377	0.001025377	11.280	103	1	200	0.0010	0.9999268	
Y	COBALT	59		0.001021522	0.001021522	9.43	102	1	200	0.0010	0.9999978	
Y	COPPER	63		0.001131485	0.001131485	2.53	113	1	200	0.0010	0.9999785	
Y	IRON	56		0.002532650	0.002532650	16.050	0	1	200	5	0.9999871	NT
Y	LEAD	208		0.001202620	0.001202620	3.23	120	1	200	0.0010	0.9999873	
Y	MANGANESE	55		0.002106242	0.002106242	16.420	105	1	200	0.0020	0.9999943	
Y	MOLYBDENUM	95		0.002060966	0.002060966	2.17	103	1	200	0.0020	0.9999946	
Y	NICKEL	60		0.001079785	0.001079785	7.97	108	1	200	0.0010	0.9999784	
Y	SELENIUM	78		0.0009941390	0.0009941390	59.420	99	1	200	0.0010	0.9998378	
Y	SILVER	107		0.0005391030	0.0005391030	4.68	108	1	200	0.0005	0.9998136	
Y	THALLIUM	205		0.001062220	0.001062220	4.11	106	1	200	0.0010	0.9999688	
Y	TIN	118		0.001060489	0.001060489	7.60	106	1	200	0.0010	0.9999905	
Y	VANADIUM	51		0.002049635	0.002049635	2.15	102	1	200	0.0020	0.9999518	
Y	ZINC	66		0.01089393	0.01089393	4.41	109	1	200	0.01	0.9999807	
N	ALUMINUM	27		0.001494973	0.001494973	116.400					0.9999400	
N	CALCIUM	43		0.01387173	0.01387173	175.9900					0.9999290	
N	MAGNESIUM	24		0.0008163980	0.0008163980	87.960					0.9999968	
N	POTASSIUM	39		-0.006787791	-0.006787791						0.9999330	
N	SODIUM	23		0.05078627	0.05078627	13.380					0.9998160	
N	STRONTIUM	88		0.00003210500	0.00003210500	245.9300					0.9999753	
N	TITANIUM	47		0.000000000	0.000000000						0.9993270	
N	URANIUM	238		0.000005514000	0.000005514000	33.450					0.8902159	NT

Sample ID: LLCCV
Analysis Date: 10/31/14 15:47 Standard ID:
Sequence: 106

QC Parameters

Exp	Parameter	Mass	Units	Intensity	Uncorrected Result	Corrected Result	RSD	%Rec	LL	HL	TV	CorCoef
Y	SCANDIUM (NO HE)	45		1618126			3.05	99	80	120	1630245	
Y	SCANDIUM	45		17806.47			0.850	96	80	120	18475.02	
Y	GERMANIUM	72		19550.04			2.02	96	80	120	20319.98	
Y	RHODIUM	103		803969.6			0.800	100	80	120	806457.9	
Y	LUTETIUM	175		367784.7			0.170	102	80	120	359260.2	

Target Parameters

Exp	Parameter	Mass	Units	Uncorrected Result	Corrected Result	RSD	%Rec	LL	HL	TV	CorCoef	
Y	ANTIMONY	121		0.0009212290	0.0009212290	16.250	92	1	200	0.0010	0.9999964	
Y	ARSENIC	75		0.001015142	0.001015142	11.710	102	1	200	0.0010	0.9999948	
Y	BARIUM	137		0.001837737	0.001837737	16.110	92	1	200	0.0020	0.9999764	
Y	BERYLLIUM	9		0.001009454	0.001009454	16.10	101	1	200	0.0010	0.9998942	
Y	CADMIUM	111		0.0005013040	0.0005013040	9.42	100	1	200	0.0005	0.9999989	
Y	CHROMIUM	52		0.0008677750	0.0008677750	7.34	87	1	200	0.0010	0.9999268	
Y	COBALT	59		0.001008776	0.001008776	6.77	101	1	200	0.0010	0.9999978	
Y	COPPER	63		0.001104487	0.001104487	7.35	110	1	200	0.0010	0.9999785	
Y	IRON	56		0.001705880	0.001705880	7.53	0	1	200	5	0.9999871	NT
Y	LEAD	208		0.001123822	0.001123822	1.45	112	1	200	0.0010	0.9999873	
Y	MANGANESE	55		0.001727188	0.001727188	10.220	86	1	200	0.0020	0.9999943	
Y	MOLYBDENUM	95		0.002053926	0.002053926	6.17	103	1	200	0.0020	0.9999946	
Y	NICKEL	60		0.001017858	0.001017858	12.020	102	1	200	0.0010	0.9999784	
Y	SELENIUM	78		0.0009876080	0.0009876080	30.780	99	1	200	0.0010	0.9998378	
Y	SILVER	107		0.0005555020	0.0005555020	5.84	111	1	200	0.0005	0.9998136	
Y	THALLIUM	205		0.001017752	0.001017752	0.790	102	1	200	0.0010	0.9999688	
Y	TIN	118		0.0009239550	0.0009239550	7.08	92	1	200	0.0010	0.9999905	
Y	VANADIUM	51		0.001967761	0.001967761	4.76	98	1	200	0.0020	0.9999518	
Y	ZINC	66		0.009853220	0.009853220	3.89	99	1	200	0.01	0.9999807	
N	ALUMINUM	27		0.0008939500	0.0008939500	110.6200					0.9999400	
N	CALCIUM	43		0.01338616	0.01338616	65.220					0.9999290	
N	MAGNESIUM	24		0.002677637	0.002677637	43.450					0.9999968	
N	POTASSIUM	39		-0.01172646	-0.01172646						0.9999330	
N	SODIUM	23		0.1256549	0.1256549	5.38					0.9998160	
N	STRONTIUM	88		0.00005024700	0.00005024700	135.1500					0.9999753	
N	TITANIUM	47		0.0001402550	0.0001402550	173.2100					0.9993270	
N	URANIUM	238		0.000007259000	0.000007259000	34.520					0.8902159	NT

Raw Data

3015 GW
ESC Lab Sciences

Method: 3015 SOP:340389 R.13

HNO3 Standard ID:	14J24505	**Vol. Used:**	5 mL	**Workgroup:**	WG751220
ICPMS Spike Standard ID:	14I11322	**Vol. Used:**	0.225 mL	**Date:**	10/28/2014
Digestion Vessel Standard ID:	ESC30376			**Analyst:**	646 JN/638
				Samples pH Verified:	646 JN
Spike Pipetter ID:	F13412501			**Tray ID:**	10
				Microwave ID:	MD9972
				Digest Time & Date:	10/28/14 13:48

Pos.		Sample Number	Sample Volume (mL)	Final Volume (mL)	Sample Description	Comments
1		**BLANK**	45	50	Clear	
2		**LCS**	45	50	Clear	
3		**LCSD**	45	50	Clear	
4	1.	**L729800-01**	45	50	Clear	
5	1.	**MS L729800-01**	45	50	Clear	
6	1.	**MSD L729800-01**	45	50	Clear	
7	2.	**L729602-01**	45	50	Clear	
8	3.	**L729602-02**	45	50	Clear	
9	4.	**L729602-03**	45	50	Clear	
10	5.	**L729602-04**	45	50	Clear	
11	6.	**L729602-05**	45	50	Clear	
12	7.	**L729602-06**	45	50	Clear	
13	8.	**L729602-07**	45	50	Clear	
14	9.	**L729753-01**	45	50	Clear	
15	10.	**L729753-02**	45	50	Clear	
16	11.	**L729753-03**	45	50	Clear	
17	12.	**L729753-04**	45	50	Clear	
18	13.	**L729753-05**	45	50	Clear	
19	14.	**L729753-06**	45	50	Clear	
20	15.	**L729798-02**	45	50	Clear	
21	16.	**L729798-04**	45	50	Clear	
22	17.	**L729798-06**	45	50	Clear	
23						
24						
25						
26						
27						
28						
29						
30						
31						
32						
33						
34						
35						

Reviewed By: **Analyst:** 638

Additional Remarks: **Date:** 10/28/2014

3015 GW
ESC Lab Sciences

Method: 3015 SOP:340389 R.13

HNO3 Standard ID:	14J24505	**Vol. Used:**	5 mL	**Workgroup:**	751906
ICPMS Spike Standard ID:	14I11322	**Vol. Used:**	0.45 mL	**Date:**	10/31/2014
Digestion Vessel Standard ID:	ESC30376			**Analyst:**	638
				Samples pH Verified:	638
Spike Pipetter ID:	F13412531			**Tray ID:**	7
				Microwave ID:	MD9972
				Digest Time & Date:	10/31/14 8:37

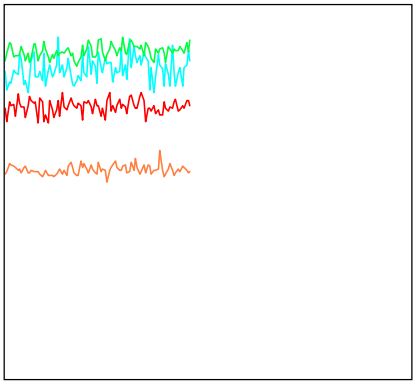
Pos.		Sample Number	Sample Volume (mL)	Final Volume (mL)	Sample Description	Comments
1		**BLANK**	45	50	Nanopure	
2		**LCS**	45	50	Nanopure	
3		**LCSD**	45	50	Nanopure	
4	1.	**L729559-01**	45	50	Clear	DOD SAMPLE
5	1.	**MS L729559-01**	45	50	Clear	DOD SAMPLE
6	1.	**MSD L729559-01**	45	50	Clear	DOD SAMPLE
7	2.	**L729561-01**	45	50	Clear	DOD SAMPLE
8	3.	**L729561-03**	45	50	Clear	DOD SAMPLE
9	4.	**L729561-05**	45	50	Clear	DOD SAMPLE
10	5.	**L729798-01**	45	50	Clear	DOD SAMPLE
11	6.	**L729798-03**	45	50	Clear	DOD SAMPLE
12	7.	**L729798-05**	45	50	Clear	DOD SAMPLE
13	8.	**L729800-02**	45	50	Clear	DOD SAMPLE
14	8.	**MS L729800-02**	45	50	Clear	DOD SAMPLE
15	8.	**MSD L729800-02**	45	50	Clear	DOD SAMPLE
16						
17						
18						
19						
20						
21						
22						
23						
24						
25						
26						
27						
28						
29						
30						
31						
32						
33						
34						
35						

Reviewed By: **Analyst:** 656

Additional Remarks: **Date:** 10/31/2014

Current Signal

[No Gas]



Mass	Range	Count	Avg. Count	RSD [%]
7	2000	1705	1660.1	4.00
59	20000	18185	17559.3	1.99
89	50000	27769	27968.4	2.28
205	20000	14627	14568.6	2.61
156/140	1	0.625 %	0.642 %	8.13
70/140	5	1.667 %	1.773 %	7.46
103	2000	940	1204.7	16.45
Integration Time [sec]		0.10		

Plasma Parameters

RF Power	1550	W	Nebulizer Pump	0.10	rps
RF Matching	1.60	V	S/C Temp	2	℃
Smpl Depth	10.0	mm	Gas Switch	Dilution Gas	
Carrier Gas	0.76	L/min	Makeup/Dilution Gas	0.30	L/min
Option Gas	0.0	%			

Lenses Parameters

Extract 1	0.0	V	Cell Entrance	-30	V
Extract 2	-220.0	V	Cell Exit	-52	V
Omega Bias	-80	V	Deflect	15.4	V
Omega Lens	8.8	V	Plate Bias	-40	V

Cell Parameters

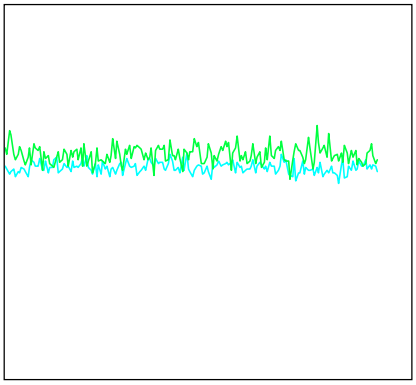
Use Gas	false		OctP Bias	-8.0	V
He Flow	5.0	mL/min	OctP RF	150	V
H2 Flow	0.0	mL/min	Energy Discrimination	5.0	V
3rd Gas Flow	0	%			

Meters

IF/BK Press	1.80E+2	Pa	Carrier Gas(BP)	2.92E+2	kPa
Water RF/WC/IF	1.24	L/min	Carrier Gas	0.76	L/min
Ar Gas Tank Press	6.02E+2	kPa			

Current Signal

[He]



Mass	Range	Count	Avg. Count	RSD [%]
59	5000	2770	2826.9	2.64
89	2000	1173	1200.7	3.96
51/59	1	0.000 %	0.084 %	65.06
75	20	0	0.2	253.33
78	20	1	0.5	142.60
Integration Time [sec]			0.10	

Plasma Parameters

RF Power	1550	W	Nebulizer Pump	0.10	rps
RF Matching	1.60	V	S/C Temp	2	℃
Smpl Depth	10.0	mm	Gas Switch	Dilution Gas	
Carrier Gas	0.76	L/min	Makeup/Dilution Gas	0.30	L/min
Option Gas	0.0	%			

Lenses Parameters

Extract 1	0.0	V	Cell Entrance	-36	V
Extract 2	-220.0	V	Cell Exit	-64	V
Omega Bias	-80	V	Deflect	4.0	V
Omega Lens	8.8	V	Plate Bias	-60	V

Cell Parameters

Use Gas	true		OctP Bias	-18.0	V
He Flow	4.9	mL/min	OctP RF	150	V
H2 Flow	0.0	mL/min	Energy Discrimination	5.0	V
3rd Gas Flow	0	%			

Meters

IF/BK Press	1.82E+2	Pa	Carrier Gas(BP)	2.92E+2	kPa
Water RF/WC/IF	1.25	L/min	Carrier Gas	0.76	L/min
Ar Gas Tank Press	6.03E+2	kPa			

Tune Report

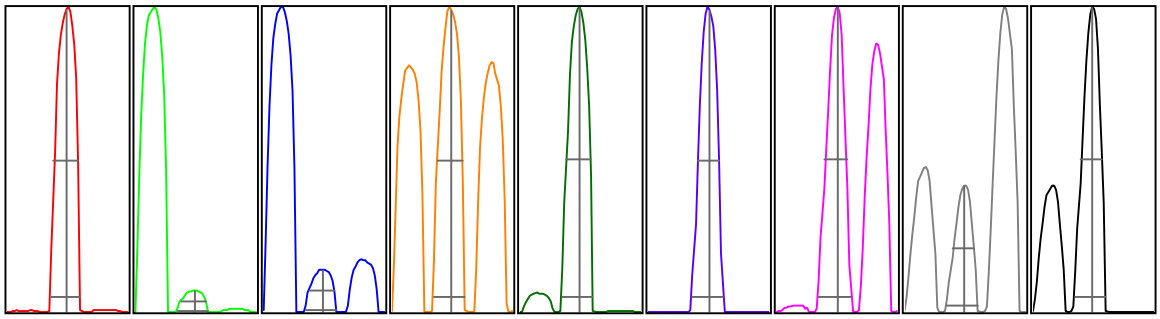
Batch Folder C:\Agilent\ICPMH\1\DATA\103114ICPMS8.b
Acq. Date-Time 2014-10-31 09:07
Report Comment
Instrument Name G8403A JP14080166

[No Gas]

Mass	RSD % (Actual)	RSD % (Required)	RSD % (Flag)
9	2.16	5.00	
24	0.58	5.00	
25	0.94	5.00	
26	1.00	5.00	
59	0.37	5.00	
115	0.71	5.00	
206	0.99	5.00	
207	0.44	5.00	
208	1.00	5.00	

Mass	Rep. 1 Count	Rep. 2 Count	Rep. 3 Count	Rep. 4 Count	Rep. 5 Count
9	4324	4196	4461	4326	4340
24	34762	35145	34930	35249	34854
25	4773	4867	4890	4857	4870
26	5902	5896	5923	5805	5966
59	95429	95818	95668	95545	94885
115	129113	129756	131447	130936	130265
206	22457	22653	22830	22990	22497
207	19590	19741	19665	19781	19794
208	47054	47610	47909	48325	47972

Integration Time [sec] 0.1



Mass	Peak Height	Axis (Actual)	Axis (Required)	Axis (Flag)	W-50 %	W-5 % (Actual)	W-5 % (Required)	W-5 % (Flag)
9	757.90	9.00	8.9 - 9.1		0.60	0.734	0.850	
24	5784.71	24.00	23.9 - 24.1		0.64	0.783	0.850	
25	800.43	25.00	24.9 - 25.1		0.64	0.780	0.850	
26	989.85	26.00	25.9 - 26.1		0.62	0.781	0.850	
59	16515.92	59.00	58.9 - 59.1		0.61	0.777	0.850	
115	24521.10	115.05	114.9 - 115.1		0.55	0.768	0.850	
206	4364.22	206.05	205.9 - 206.1		0.53	0.812	0.850	
207	3837.95	207.00	206.9 - 207.1		0.53	0.769	0.850	
208	9216.01	208.00	207.9 - 208.1		0.53	0.779	0.850	

Tune Report

Integration Time [sec] 0.1 **Acquisition Time [sec]** 212.5 **Y Axis** Linear

Tune Parameters
Plasma Paramters

RF Power	1550 W	Nebulizer Pump	0.10 rps
RF Matching	1.60 V	S/C Temp	2 ℃
Smpl Depth	10.0 mm	Gas Switch	Dilution Gas
Carrier Gas	0.76 L/min	Makeup/Dilution Gas	0.30 L/min
Option Gas	0.0 %		

Lenses Parameters

Extract 1	0.0 V	Cell Entrance	-30 V
Extract 2	-220.0 V	Cell Exit	-52 V
Omega Bias	-80 V	Deflect	15.4 V
Omega Lens	8.8 V	Plate Bias	-40 V

Cell Parameters

Use Gas	false	OctP Bias	-8.0 V
He Flow	0.0 mL/min	OctP RF	150 V
H2 Flow	0.0 mL/min	Energy Discrimination	5.0 V
3rd Gas Flow	0 %		

Calibration Blank Report

Sample Name	CALBLK 14J31924
File Name	001CALB.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\103114ICPMS8.b
Acq Time	2014-10-31 12:57:44
Sample Type	CalBlk
Total Dilution	1.0000
Comment	---
ISTD Ref FileName	001CALB.d
Sample QC Pass/Fial	Pass
ISTD QC Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD	Tune Mode	CPS	CPS RSD
Na	23	45	He	15781.96	1.83
Mg	24	45	He	70.00	14.29
Al	27	45	He	33.33	62.45
K	39	45	He	6184.75	5.92
Ca	43	45	He	9.33	57.16
V	51	45	He	33.33	34.64
Cr	52	45	He	1560.11	7.05
Mn	55	72	He	56.67	61.97
Fe	56	72	He	6034.69	7.14
Co	59	72	He	16.67	34.64
Ni	60	72	He	123.33	12.39
Cu	63	72	He	150.00	6.67
Zn	66	72	He	113.33	26.96
As	75	72	He	2.67	50.06
Se	78	72	He	5.67	66.81
Sr	88	72	He	100.00	30.00
Mo	95	72	He	6.67	86.60
Ag	107	103	He	3.33	173.21
Cd	111	103	He	2.00	173.21
Sn	118	103	He	30.00	33.33
Sb	121	103	He	80.00	21.65
Tl	205	175	He	23.33	24.74
Pb	208	175	He	63.33	24.12
U	238	175	He	3.33	173.21

QC ISTD Table

Name	Mass	Tune Mode	CPS	CPS RSD
Sc (No He)	45	No Gas	1658922.21	3.34
Sc	45	He	18476.15	1.92
Ge	72	He	20144.15	1.16
Rh	103	He	799753.79	0.82
Lu	175	He	351585.43	0.22

Calibration Blank Report

Sample Name	CALBLK 14J31924
File Name	002CALB.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\103114ICPMS8.b
Acq Time	2014-10-31 12:59:22
Sample Type	CalBlk
Total Dilution	1.0000
Comment	---
ISTD Ref FileName	002CALB.d
Sample QC Pass/Fial	Pass
ISTD QC Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD	Tune Mode	CPS	CPS RSD
Na	23	45	He	16295.84	2.52
Mg	24	45	He	50.00	20.00
Al	27	45	He	13.33	114.56
K	39	45	He	6094.71	3.89
Ca	43	45	He	4.89	103.28
V	51	45	He	30.00	66.67
Cr	52	45	He	1573.44	11.31
Mn	55	72	He	63.33	32.87
Fe	56	72	He	5100.98	4.79
Co	59	72	He	36.67	15.75
Ni	60	72	He	106.67	30.14
Cu	63	72	He	173.33	18.55
Zn	66	72	He	146.67	25.81
As	75	72	He	1.78	43.54
Se	78	72	He	4.67	44.61
Sr	88	72	He	63.33	24.12
Ag	107	103	He	6.67	86.60
Sn	118	103	He	23.33	49.49
Sb	121	103	He	96.67	11.95
Tl	205	175	He	13.33	43.30
Pb	208	175	He	73.33	43.83

QC ISTD Table

Name	Mass	Tune Mode	CPS	CPS RSD
Sc (No He)	45	No Gas	1630245.08	2.74
Sc	45	He	18475.02	1.02
Ge	72	He	20319.98	0.80
Rh	103	He	806457.85	0.97
Lu	175	He	359260.16	0.70

Calibration Standard Report

Sample Name	STD1 14J31925
File Name	003CALS.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\103114ICPMS8.b
Acq Time	2014-10-31 13:00:57
Sample Type	CalStd
Total Dilution	1.0000
Comment	---
ISTD Ref FileName	002CALB.d
Sample QC Pass/Fial	Pass
ISTD QC Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD	Tune Mode	CPS	CPS RSD
Be	9	45	He	3.67	68.63
Na	23	45	He	24220.08	1.21
Mg	24	45	He	3653.84	7.51
Al	27	45	He	136.67	15.24
K	39	45	He	8332.52	1.87
Ca	43	45	He	16.89	16.43
Ti	47	45	He	26.67	43.30
V	51	45	He	696.70	8.77
Cr	52	45	He	2466.92	7.36
Mn	55	72	He	380.01	21.05
Fe	56	72	He	11501.43	1.56
Co	59	72	He	2010.18	8.19
Ni	60	72	He	693.36	7.26
Cu	63	72	He	2166.88	3.76
Zn	66	72	He	403.34	12.23
As	75	72	He	118.67	14.08
Se	78	72	He	10.33	49.66
Sr	88	72	He	360.01	13.89
Mo	95	72	He	666.69	17.06
Ag	107	103	He	2780.33	4.72
Cd	111	103	He	268.67	7.15
Sn	118	103	He	476.69	10.56
Sb	121	103	He	633.36	14.67
Ba	137	103	He	210.01	20.76
Tl	205	175	He	4867.65	7.78
Pb	208	175	He	6467.41	1.01
U	238	175	He	6321.65	4.44

QC ISTD Table

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Sc (No He)	45	No Gas	1561843.05	4.43	1630245.08	95.8	60	120	
Sc	45	He	18425.01	1.67	18475.0233333333	99.73	60	120	
Ge	72	He	20240.99	1.80	20319.9766666667	99.61	60	120	
Rh	103	He	805154.83	1.51	806457.853333333	99.84	60	120	

Calibration Standard Report

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Lu	175	He	354721.23	2.15	359260.163333333	98.74	60	120	

Calibration Standard Report

Sample Name	STD2 14J31925
File Name	004CALS.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\103114ICPMS8.b
Acq Time	2014-10-31 13:02:49
Sample Type	CalStd
Total Dilution	1.0000
Comment	---
ISTD Ref FileName	002CALB.d
Sample QC Pass/Fial	Pass
ISTD QC Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD	Tune Mode	CPS	CPS RSD
Be	9	45	He	15.67	20.52
Na	23	45	He	28400.77	1.52
Mg	24	45	He	5987.98	9.70
Al	27	45	He	133.33	4.33
K	39	45	He	9856.82	6.90
Ca	43	45	He	22.22	35.17
Ti	47	45	He	13.33	114.56
V	51	45	He	1136.73	17.71
Cr	52	45	He	3220.41	8.28
Mn	55	72	He	556.69	9.89
Fe	56	72	He	16916.86	3.32
Co	59	72	He	3423.80	3.98
Ni	60	72	He	1070.06	4.28
Cu	63	72	He	3233.77	3.17
Zn	66	72	He	1356.76	16.32
As	75	72	He	194.22	16.48
Se	78	72	He	10.33	40.29
Sr	88	72	He	590.02	21.64
Mo	95	72	He	1130.07	18.65
Ag	107	103	He	4240.72	6.89
Cd	111	103	He	428.01	9.01
Sn	118	103	He	700.03	4.29
Sb	121	103	He	950.05	11.09
Ba	137	103	He	316.68	11.96
Tl	205	175	He	7879.17	10.41
Pb	208	175	He	10158.46	8.43
U	238	175	He	9997.46	11.54

QC ISTD Table

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Sc (No He)	45	No Gas	1548173.05	5.09	1630245.08	94.97	60	120	
Sc	45	He	17229.08	0.47	18475.0233333333	93.26	60	120	
Ge	72	He	18665.51	2.30	20319.9766666667	91.86	60	120	
Rh	103	He	754928.19	1.61	806457.853333333	93.61	60	120	

Calibration Standard Report

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Lu	175	He	335102.90	1.24	359260.163333333	93.28	60	120	

Calibration Standard Report

Sample Name	STD3 14J31925
File Name	005CALS.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\103114ICPMS8.b
Acq Time	2014-10-31 13:04:24
Sample Type	CalStd
Total Dilution	1.0000
Comment	---
ISTD Ref FileName	002CALB.d
Sample QC Pass/Fial	Pass
ISTD QC Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD	Tune Mode	CPS	CPS RSD
Be	9	45	He	132.00	1.52
Na	23	45	He	174352.43	1.54
Mg	24	45	He	72115.42	0.62
Al	27	45	He	1703.46	5.79
K	39	45	He	50126.09	1.09
Ca	43	45	He	169.33	1.57
Ti	47	45	He	273.34	14.79
V	51	45	He	13933.55	2.17
Cr	52	45	He	20344.51	0.39
Mn	55	72	He	5867.95	2.33
Fe	56	72	He	137535.37	1.01
Co	59	72	He	40744.51	3.13
Ni	60	72	He	12375.51	3.10
Cu	63	72	He	35647.74	1.88
Zn	66	72	He	3677.20	3.13
As	75	72	He	2250.85	3.30
Se	78	72	He	70.67	11.35
Sr	88	72	He	6081.38	0.87
Mo	95	72	He	13319.83	2.16
Ag	107	103	He	53492.19	1.01
Cd	111	103	He	5192.98	1.45
Sn	118	103	He	8756.27	3.23
Sb	121	103	He	12419.08	2.71
Ba	137	103	He	3360.48	1.19
Tl	205	175	He	97321.59	1.48
Pb	208	175	He	127227.04	1.93
U	238	175	He	126388.03	0.35

QC ISTD Table

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Sc (No He)	45	No Gas	1591251.33	2.55	1630245.08	97.61	60	120	
Sc	45	He	19009.04	1.03	18475.0233333333	102.89	60	120	
Ge	72	He	20609.27	0.60	20319.9766666667	101.42	60	120	
Rh	103	He	825600.93	0.10	806457.853333333	102.37	60	120	

Calibration Standard Report

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Lu	175	He	367273.18	0.84	359260.163333333	102.23	60	120	

Calibration Standard Report

Sample Name	STD4 14J31925
File Name	006CALS.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\103114ICPMS8.b
Acq Time	2014-10-31 13:05:59
Sample Type	CalStd
Total Dilution	1.0000
Comment	---
ISTD Ref FileName	002CALB.d
Sample QC Pass/Fial	Pass
ISTD QC Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD	Tune Mode	CPS	CPS RSD
Be	9	45	He	669.68	6.53
Na	23	45	He	820250.56	0.31
Mg	24	45	He	365153.64	1.10
Al	27	45	He	8639.32	1.47
K	39	45	He	226832.60	1.00
Ca	43	45	He	802.25	3.69
Ti	47	45	He	1246.75	9.40
V	51	45	He	70473.77	1.54
Cr	52	45	He	96411.58	0.37
Mn	55	72	He	30161.69	0.78
Fe	56	72	He	674982.36	1.05
Co	59	72	He	202100.36	0.23
Ni	60	72	He	60884.67	0.62
Cu	63	72	He	177978.48	0.63
Zn	66	72	He	17417.46	2.22
As	75	72	He	11600.69	0.32
Se	78	72	He	304.67	2.46
Sr	88	72	He	29240.48	1.28
Mo	95	72	He	67152.92	1.01
Ag	107	103	He	271127.09	1.50
Cd	111	103	He	25875.85	1.80
Sn	118	103	He	45551.65	1.33
Sb	121	103	He	59772.06	1.24
Ba	137	103	He	18108.83	2.22
Tl	205	175	He	493595.79	0.62
Pb	208	175	He	632434.86	0.41
U	238	175	He	634106.58	0.59

QC ISTD Table

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Sc (No He)	45	No Gas	1484665.50	3.08	1630245.08	91.07	60	120	
Sc	45	He	19005.72	0.87	18475.0233333333	102.87	60	120	
Ge	72	He	20639.31	0.92	20319.9766666667	101.57	60	120	
Rh	103	He	818580.98	0.31	806457.853333333	101.5	60	120	

Calibration Standard Report

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Lu	175	He	372297.20	0.32	359260.163333333	103.63	60	120	

Calibration Standard Report

Sample Name	STD5 14J31925
File Name	007CALS.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\103114ICPMS8.b
Acq Time	2014-10-31 13:07:34
Sample Type	CalStd
Total Dilution	1.0000
Comment	---
ISTD Ref FileName	002CALB.d
Sample QC Pass/Fial	Pass
ISTD QC Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD	Tune Mode	CPS	CPS RSD
Be	9	45	He	1381.40	0.65
Na	23	45	He	1660378.62	1.46
Mg	24	45	He	723205.87	0.92
Al	27	45	He	16516.12	5.11
K	39	45	He	447193.57	1.10
Ca	43	45	He	1576.53	2.58
Ti	47	45	He	2320.23	9.00
V	51	45	He	140624.62	0.81
Cr	52	45	He	191275.40	0.39
Mn	55	72	He	59652.90	1.29
Fe	56	72	He	1364357.48	0.32
Co	59	72	He	401353.59	0.53
Ni	60	72	He	118704.70	1.10
Cu	63	72	He	349353.82	0.19
Zn	66	72	He	34521.67	0.73
As	75	72	He	23030.88	0.77
Se	78	72	He	634.35	2.89
Sr	88	72	He	59859.78	1.44
Mo	95	72	He	135884.65	0.67
Ag	107	103	He	537383.10	0.93
Cd	111	103	He	51540.41	0.77
Sn	118	103	He	90033.63	0.77
Sb	121	103	He	118344.07	0.79
Ba	137	103	He	35589.76	2.56
Tl	205	175	He	978860.74	0.72
Pb	208	175	He	1258702.86	0.48
U	238	175	He	1267338.86	0.79

QC ISTD Table

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Sc (No He)	45	No Gas	1596937.06	1.09	1630245.08	97.96	60	120	
Sc	45	He	18680.86	0.62	18475.0233333333	101.11	60	120	
Ge	72	He	20602.61	1.47	20319.9766666667	101.39	60	120	
Rh	103	He	817117.51	1.12	806457.853333333	101.32	60	120	

Calibration Standard Report

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Lu	175	He	368624.26	0.10	359260.163333333	102.61	60	120	

Calibration Standard Report

Sample Name	STD6 14J31925
File Name	008CALS.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\103114ICPMS8.b
Acq Time	2014-10-31 13:09:08
Sample Type	CalStd
Total Dilution	1.0000
Comment	---
ISTD Ref FileName	002CALB.d
Sample QC Pass/Fial	Pass
ISTD QC Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD	Tune Mode	CPS	CPS RSD
Be	9	45	He	2739.59	2.50
Na	23	45	He	3247597.14	0.82
Mg	24	45	He	1474313.68	0.46
Al	27	45	He	33130.88	2.37
K	39	45	He	883724.96	0.35
Ca	43	45	He	3127.01	0.46
Ti	47	45	He	5097.64	5.20
V	51	45	He	280201.69	1.20
Cr	52	45	He	377708.94	0.59
Mn	55	72	He	119183.37	1.16
Fe	56	72	He	2717646.73	1.21
Co	59	72	He	800558.74	0.88
Ni	60	72	He	234976.47	1.29
Cu	63	72	He	688351.29	0.40
Zn	66	72	He	67655.46	1.13
As	75	72	He	46060.24	0.32
Se	78	72	He	1215.72	4.23
Sr	88	72	He	119183.70	0.53
Mo	95	72	He	268966.42	0.20
Ag	107	103	He	1029946.44	3.18
Cd	111	103	He	102252.00	0.36
Sn	118	103	He	178335.59	1.30
Sb	121	103	He	235774.59	1.01
Ba	137	103	He	71623.05	1.64
Tl	205	175	He	2022374.92	1.93
Pb	208	175	He	2532844.04	0.78
U	238	175	He	2686906.73	0.52

QC ISTD Table

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Sc (No He)	45	No Gas	1637941.49	4.34	1630245.08	100.47	60	120	
Sc	45	He	18992.39	1.15	18475.0233333333	102.8	60	120	
Ge	72	He	20466.84	0.46	20319.9766666667	100.72	60	120	
Rh	103	He	812163.53	0.97	806457.853333333	100.71	60	120	

Calibration Standard Report

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Lu	175	He	374770.08	0.51	359260.163333333	104.32	60	120	

Initial Calibration Verification (ICV) Report

Sample Name	ICV 14J31927
File Name	009_ICV.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\103114ICPMS8.b
Acq Time	2014-10-31 13:10:40
Sample Type	ICV
Total Dilution	1.0000
Comment	---
ISTD Ref FileName	002CALB.d
Sample QC Pass/Fial	Fail
ISTD QC Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD	Tune Mode	Conc.	Conc. RSD	CPS	ExpValue	% Rec	%QC Low	%QC High	QC Flag
Be	9	45	He	0.103	5.88	1402.74	0.9	11.41	10	10	
Na	23	45	He	1.007	1.41	179297.83	0.9	111.89	1000	1000	ICV Main CR1 Failed
Mg	24	45	He	1.017	3.11	74483.81	0.9	113.03	1000	1000	ICV Main CR1 Failed
Al	27	45	He	1.026	2.36	16980.01	0.9	114.04	100	100	
K	39	45	He	1.017	4.17	50744.67	0.9	112.98	1000	1000	ICV Main CR1 Failed
Ca	43	45	He	1.866	4.75	296.00	0.9	207.34	1000	1000	ICV Main CR1 Failed
Ti	47	45	He	0.105	10.23	2610.27	0.9	11.63	10	10	
V	51	45	He	0.100	1.62	140341.46	0.9	11.15	10	10	
Cr	52	45	He	0.102	2.29	192883.03	0.9	11.32	10	10	
Mn	55	72	He	0.099	0.62	60074.47	0.9	10.99	10	10	
Fe	56	72	He	0.981	0.65	1359680.29	0.9	109	100	100	
Co	59	72	He	0.101	0.42	413716.91	0.9	11.27	10	10	
Ni	60	72	He	0.101	1.66	121363.05	0.9	11.23	10	10	
Cu	63	72	He	0.102	0.86	357510.01	0.9	11.28	10	10	
Zn	66	72	He	0.100	1.23	34825.78	0.9	11.16	10	10	
As	75	72	He	0.100	1.91	23385.24	0.9	11.08	10	10	
Se	78	72	He	0.102	4.44	635.68	0.9	11.29	10	10	
Sr	88	72	He	0.099	1.41	60174.38	0.9	11.01	10	10	
Mo	95	72	He	0.101	1.45	138137.34	0.9	11.19	10	10	
Ag	107	103	He	0.103	0.38	548243.18	0.9	11.48	10	10	
Cd	111	103	He	0.101	0.41	52804.40	0.9	11.23	10	10	
Sn	118	103	He	0.103	1.11	94217.74	0.9	11.48	10	10	
Sb	121	103	He	0.100	0.44	120308.46	0.9	11.1	10	10	
Ba	137	103	He	0.102	2.26	37247.44	0.9	11.34	10	10	
Tl	205	175	He	0.101	0.83	1023505.82	0.9	11.25	10	10	
Pb	208	175	He	0.104	1.52	1325863.04	0.9	11.56	10	10	
U	238	175	He	0.141	2.22	1324573.99	0.9	15.67	10	10	ICV Main CR1 Failed

QC ISTD Table

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Sc (No He)	45	No Gas	1620692.53	1.97	1630245.08	99.41	60	120	
Sc	45	He	18873.32	0.99	18475.0233333333	102.16	60	120	

Initial Calibration Verification (ICV) Report

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Ge	72	He	20875.24	0.81	20319.9766666667	102.73	60	120	
Rh	103	He	829465.43	0.34	806457.853333333	102.85	60	120	
Lu	175	He	376218.73	2.00	359260.163333333	104.72	60	120	

Initial Calibration Blank (ICB) Report

Sample Name	ICB 14J31924
File Name	011_ICB.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\103114ICPMS8.b
Acq Time	2014-10-31 13:15:00
Sample Type	ICB
Total Dilution	1.0000
Comment	---
ISTD Ref FileName	002CALB.d
Sample QC Pass/Fial	Pass
ISTD QC Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD	Tune Mode	Conc.	Conc. RSD	CPS	Limit	QC Flag
Be	9	45	He	0.000	173.21	0.33	0.00075	
Na	23	45	He	-0.008	-47.35	15224.75	0.75	
Mg	24	45	He	0.000	17.22	86.67	0.75	
Al	27	45	He	0.000	265.23	20.00	0.0375	
K	39	45	He	-0.008	-102.97	5811.28	0.75	
Ca	43	45	He	-0.015	-1.18	2.67	0.75	
Ti	47	45	He	0.000	NaN	0.00	0.0075	
V	51	45	He	0.000	-288.61	26.67	0.0015	
Cr	52	45	He	0.000	-460.97	1566.78	0.00075	
Mn	55	72	He	0.000	327.93	73.33	0.0015	
Fe	56	72	He	0.000	-219.62	4907.60	0.0375	
Co	59	72	He	0.000	-102.62	20.00	0.00075	
Ni	60	72	He	0.000	-77.40	83.33	0.00075	
Cu	63	72	He	0.000	-444.97	163.34	0.0015	
Zn	66	72	He	0.000	-147.23	126.67	0.0075	
As	75	72	He	0.000	113.10	3.55	0.00075	
Se	78	72	He	0.000	4097.68	4.67	0.00075	
Sr	88	72	He	0.000	42.80	90.00	0.0075	
Mo	95	72	He	0.000	173.21	10.00	0.0015	
Ag	107	103	He	0.000	29.45	760.04	0.000375	
Cd	111	103	He	0.000	166.30	8.00	0.000375	
Sn	118	103	He	0.000	61.64	40.00	0.00075	
Sb	121	103	He	0.000	56.30	233.34	0.00075	
Ba	137	103	He	0.000	NaN	0.00	0.0015	
Tl	205	175	He	0.000	78.51	60.00	0.00075	
Pb	208	175	He	0.000	20.12	266.67	0.00075	
U	238	175	He	0.000	75.03	46.67	0.0075	

QC ISTD Table

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Sc (No He)	45	No Gas	1655855.81	2.54	1630245.08	101.57	60	120	
Sc	45	He	18736.49	0.99	18475.0233333333	101.42	60	120	
Ge	72	He	20121.93	1.90	20319.9766666667	99.03	60	120	
Rh	103	He	822963.95	0.33	806457.853333333	102.05	60	120	

Initial Calibration Blank (ICB) Report

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Lu	175	He	374329.47	0.34	359260.163333333	104.19	60	120	

Low Level Initial Calibration Verification(LLICV) Report

Sample Name	LLICV 14J31931
File Name	012LICV.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\103114ICPMS8.b
Acq Time	2014-10-31 13:16:25
Sample Type	LLICV
Total Dilution	1.0000
Comment	---
ISTD Ref FileName	002CALB.d
Sample QC Pass/Fial	Pass
ISTD QC Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD	Tune Mode	Conc.	Conc. RSD	CPS	ExpValue	% Rec	%QC Low	%QC High	QC Flag
Be	9	45	He	0.001	30.35	14.00	0.001	103.86	70	130	
V	51	45	He	0.002	4.10	2840.33	0.002	102.05	70	130	
Cr	52	45	He	0.001	1.93	3690.53	0.001	113.88	70	130	
Mn	55	72	He	0.002	7.93	1246.75	0.002	98.19	70	130	
Co	59	72	He	0.001	3.43	4150.67	0.001	101.62	70	130	
Ni	60	72	He	0.001	2.35	1473.44	0.001	114.63	70	130	
Cu	63	72	He	0.001	3.49	3987.30	0.001	109.14	70	130	
Zn	66	72	He	0.010	4.88	3620.52	0.01	101.31	70	130	
As	75	72	He	0.001	4.13	228.89	0.001	97.58	70	130	
Se	78	72	He	0.001	51.98	10.33	0.001	90.38	70	130	
Mo	95	72	He	0.002	2.72	2820.33	0.002	103.59	70	130	
Ag	107	103	He	0.001	9.45	3010.38	0.0005	113.73	70	130	
Cd	111	103	He	0.001	9.67	264.67	0.0005	101.53	70	130	
Sn	118	103	He	0.001	6.83	986.72	0.001	105.93	70	130	
Sb	121	103	He	0.001	19.52	1313.42	0.001	101.27	70	130	
Ba	137	103	He	0.002	18.45	670.03	0.002	92.32	70	130	
Tl	205	175	He	0.001	4.84	9833.84	0.001	98.1	70	130	
Pb	208	175	He	0.001	1.31	13289.56	0.001	104.75	70	130	

QC ISTD Table

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Sc (No He)	45	No Gas	1612099.66	2.68	1630245.08	98.89	60	120	
Sc	45	He	18595.22	1.80	18475.0233333333	100.65	60	120	
Ge	72	He	20710.53	0.37	20319.9766666667	101.92	60	120	
Rh	103	He	826275.09	1.67	806457.853333333	102.46	60	120	
Lu	175	He	372444.94	0.62	359260.163333333	103.67	60	120	

Interference Check Solution A (ICS-A) Report

Sample Name	ICSA 14J31929
File Name	015ICSA.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\103114ICPMS8.b
Acq Time	2014-10-31 13:24:45
Sample Type	ICSA
Total Dilution	1.0000
Comment	---
ISTD Ref FileName	002CALB.d
Sample QC Pass/Fial	Pass
ISTD QC Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD	Tune Mode	Conc.	Conc. RSD	CPS	ExpValue	%QC Low	%QC High	QC Flag
Na	23	45	He	93.340	1.73	14228121.04	0.8	10000	10000	
Mg	24	45	He	92.876	0.79	6407509.49	0.8	10000	10000	
Al	27	45	He	97.149	0.54	1514127.48	0.8	10000	10000	
K	39	45	He	95.509	1.34	3948855.36	0.8	10000	10000	
Ca	43	45	He	86.206	0.03	12682.83	0.8	10000	10000	
Ti	47	45	He	1.955	0.15	45966.10	0.8	200	200	
Fe	56	72	He	91.067	1.70	118634974.90	0.8	10000	10000	
Mo	95	72	He	1.968	0.59	2548121.47	0.8	200	200	

QC ISTD Table

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Sc (No He)	45	No Gas	1549651.33	2.73	1630245.08	95.06	60	120	
Sc	45	He	17793.07	1.56	18475.0233333333	96.31	60	120	
Ge	72	He	19698.00	1.53	20319.9766666667	96.94	60	120	
Rh	103	He	737675.46	1.07	806457.853333333	91.47	60	120	
Lu	175	He	349484.00	1.77	359260.163333333	97.28	60	120	

Interference Check Solution AB (ICS-AB) Report

Sample Name	ICSAB 14J31930
File Name	016ICSB.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\103114ICPMS8.b
Acq Time	2014-10-31 13:26:09
Sample Type	ICSB
Total Dilution	1.0000
Comment	---
ISTD Ref FileName	002CALB.d
Sample QC Pass/Fial	Pass
ISTD QC Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD	Tune Mode	Conc.	Conc. RSD	CPS	ExpValue	%QC Low	%QC High	QC Flag

QC ISTD Table

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Sc (No He)	45	No Gas	1529789.98	3.51	1630245.08	93.84	60	120	
Sc	45	He	17563.93	1.94	18475.0233333333	95.07	60	120	
Ge	72	He	19265.17	1.68	20319.9766666667	94.81	60	120	
Rh	103	He	731545.66	0.53	806457.853333333	90.71	60	120	
Lu	175	He	341989.57	0.23	359260.163333333	95.19	60	120	

Continuing Calibration Verification (CCV) Report

Sample Name	CCV
File Name	134_CCV.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\103114ICPMS8.b
Acq Time	2014-10-31 16:29:08
Sample Type	CCV
Total Dilution	1.0000
Comment	---
ISTD Ref FileName	002CALB.d
Sample QC Pass/Fial	Fail
ISTD QC Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD	Tune Mode	Conc.	Conc. RSD	CPS	ExpValue	% Rec	%QC Low	%QC High	QC Flag
Be	9	45	He	0.100	3.54	1353.73	0.9	11.15	10	10	
Na	23	45	He	9.985	1.92	1609904.04	0.9	1109.49	1000	1000	
Mg	24	45	He	9.743	0.92	704430.56	0.9	1082.56	1000	1000	
Al	27	45	He	0.990	2.46	16175.79	0.9	109.96	100	100	
K	39	45	He	9.720	0.96	426643.94	0.9	1079.95	1000	1000	
Ca	43	45	He	9.994	1.63	1544.97	0.9	1110.44	1000	1000	
Ti	47	45	He	0.105	4.38	2590.28	0.9	11.68	10	10	
V	51	45	He	0.099	1.91	136553.62	0.9	10.99	10	10	
Cr	52	45	He	0.097	1.40	182190.49	0.9	10.81	10	10	
Mn	55	72	He	0.097	2.14	58267.36	0.9	10.77	10	10	
Fe	56	72	He	0.984	0.42	1350808.00	0.9	109.37	100	100	
Co	59	72	He	0.099	0.67	400825.57	0.9	11.03	10	10	
Ni	60	72	He	0.099	0.70	117491.16	0.9	10.98	10	10	
Cu	63	72	He	0.099	1.05	346280.58	0.9	11.04	10	10	
Zn	66	72	He	0.100	1.35	34257.86	0.9	11.08	10	10	
As	75	72	He	0.096	1.21	22258.12	0.9	10.65	10	10	
Se	78	72	He	0.096	5.32	593.35	0.9	10.64	10	10	
Sr	88	72	He	0.099	1.86	59223.52	0.9	10.95	10	10	
Mo	95	72	He	0.103	1.69	139490.92	0.9	11.41	10	10	
Ag	107	103	He	0.101	0.17	553839.95	0.9	11.22	10	10	
Cd	111	103	He	0.097	1.36	52420.40	0.9	10.79	10	10	
Sn	118	103	He	0.098	1.89	92795.43	0.9	10.94	10	10	
Sb	121	103	He	0.099	0.89	122695.23	0.9	10.95	10	10	
Ba	137	103	He	0.101	0.96	38022.97	0.9	11.2	10	10	
Tl	205	175	He	0.101	1.23	1129887.30	0.9	11.27	10	10	
Pb	208	175	He	0.103	1.29	1450532.11	0.9	11.48	10	10	
U	238	175	He	0.147	0.68	1517019.04	0.9	16.29	10	10	CCV Main CR1 Failed

QC ISTD Table

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Sc (No He)	45	No Gas	1789188.67	2.55	1630245.08	109.75	60	120	
Sc	45	He	18644.16	0.23	18475.0233333333	100.92	60	120	

Continuing Calibration Verification (CCV) Report

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Ge	72	He	20668.25	1.33	20319.9766666667	101.71	60	120	
Rh	103	He	857254.29	0.26	806457.853333333	106.3	60	120	
Lu	175	He	414611.32	0.65	359260.163333333	115.41	60	120	

Continuing Calibration Blank (CCB) Report

Sample Name	CCB
File Name	135_CCB.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\103114ICPMS8.b
Acq Time	2014-10-31 16:30:36
Sample Type	CCB
Total Dilution	1.0000
Comment	---
ISTD Ref FileName	002CALB.d
Sample QC Pass/Fial	Pass
ISTD QC Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD	Tune Mode	Conc.	Conc. RSD	CPS	Limit	QC Flag
Be	9	45	He	0.000	101.36	1.00	0.00075	
Na	23	45	He	0.083	8.81	27929.91	0.75	
Mg	24	45	He	0.016	22.47	1143.40	0.75	
Al	27	45	He	0.001	178.23	26.67	0.0375	
K	39	45	He	-0.009	-117.73	5411.13	0.75	
Ca	43	45	He	0.032	147.66	9.33	0.75	
Ti	47	45	He	0.000	NaN	0.00	0.0075	
V	51	45	He	0.000	62.83	133.33	0.0015	
Cr	52	45	He	0.000	-298.34	1463.44	0.00075	
Mn	55	72	He	0.000	97.96	166.67	0.0015	
Fe	56	72	He	0.003	24.13	8505.98	0.0375	
Co	59	72	He	0.000	21.87	276.68	0.00075	
Ni	60	72	He	0.000	27.02	210.01	0.00075	
Cu	63	72	He	0.000	1.43	540.02	0.0015	
Zn	66	72	He	0.000	114.49	233.34	0.0075	
As	75	72	He	0.000	13.46	16.89	0.00075	
Se	78	72	He	0.000	-708.16	4.22	0.00075	
Sr	88	72	He	0.000	55.57	283.34	0.0075	
Mo	95	72	He	0.000	26.88	116.67	0.0015	
Ag	107	103	He	0.000	6.56	446.68	0.000375	
Cd	111	103	He	0.000	13.11	48.67	0.000375	
Sn	118	103	He	0.000	72.93	93.33	0.00075	
Sb	121	103	He	0.000	16.99	243.34	0.00075	
Ba	137	103	He	0.000	32.59	30.00	0.0015	
Tl	205	175	He	0.000	7.23	600.02	0.00075	
Pb	208	175	He	0.000	7.73	1413.39	0.00075	
U	238	175	He	0.000	10.88	1066.73	0.0075	

QC ISTD Table

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Sc (No He)	45	No Gas	1681126.28	3.22	1630245.08	103.12	60	120	
Sc	45	He	17538.33	2.02	18475.0233333333	94.93	60	120	
Ge	72	He	20429.05	1.17	20319.9766666667	100.54	60	120	
Rh	103	He	838143.22	0.86	806457.853333333	103.93	60	120	

Continuing Calibration Blank (CCB) Report

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Lu	175	He	400860.13	1.52	359260.163333333	111.58	60	120	

Low Level Continuing Calibration Verification(LLCCV) Report

Sample Name	LLCCV
File Name	136LCCV.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\103114ICPMS8.b
Acq Time	2014-10-31 16:33:47
Sample Type	LLCCV
Total Dilution	1.0000
Comment	---
ISTD Ref FileName	002CALB.d
Sample QC Pass/Fial	Fail
ISTD QC Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD	Tune Mode	Conc.	Conc. RSD	CPS	ExpValue	% Rec	%QC Low	%QC High	QC Flag
Be	9	45	He	0.001	39.68	12.00	0.001	94.88	70	130	
V	51	45	He	0.002	4.48	2543.60	0.002	96.81	70	130	
Cr	52	45	He	0.001	4.67	2873.67	0.001	79.13	70	130	
Mn	55	72	He	0.002	9.79	1433.43	0.002	116.7	70	130	
Co	59	72	He	0.001	3.09	4053.95	0.001	101.87	70	130	
Ni	60	72	He	0.001	17.32	1260.07	0.001	99.48	70	130	
Cu	63	72	He	0.001	6.87	3837.24	0.001	107.78	70	130	
Zn	66	72	He	0.010	2.34	3373.78	0.01	96.67	70	130	
As	75	72	He	0.001	10.18	232.89	0.001	101.81	70	130	
Se	78	72	He	0.001	34.84	12.44	0.001	130.3	70	130	LLCCV Main CR1 Failed
Mo	95	72	He	0.002	11.28	2910.36	0.002	109.69	70	130	
Ag	107	103	He	0.000	8.11	2686.98	0.0005	99.55	70	130	
Cd	111	103	He	0.001	1.48	270.00	0.0005	101.66	70	130	
Sn	118	103	He	0.001	4.42	966.72	0.001	101.9	70	130	
Sb	121	103	He	0.001	7.70	1253.42	0.001	94.53	70	130	
Ba	137	103	He	0.002	4.87	723.37	0.002	97.72	70	130	
Tl	205	175	He	0.001	1.24	11164.93	0.001	102.76	70	130	
Pb	208	175	He	0.001	1.91	15383.75	0.001	111.92	70	130	

QC ISTD Table

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Sc (No He)	45	No Gas	1703650.24	1.85	1630245.08	104.5	60	120	
Sc	45	He	17538.36	2.42	18475.0233333333	94.93	60	120	
Ge	72	He	20184.23	1.47	20319.9766666667	99.33	60	120	
Rh	103	He	841153.32	1.53	806457.853333333	104.3	60	120	
Lu	175	He	403746.70	1.28	359260.163333333	112.38	60	120	

Sample Report

Sample Name	BLANK WG751220
File Name	137SMPL.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\103114ICPMS8.b
Acq Time	2014-10-31 16:35:16
Sample Type	Sample
Total Dilution	1.1111
Comment	---
ISTD Ref FileName	002CALB.d
Sample QC Pass/Fial	Pass
ISTD QC Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD	Tune Mode	Conc.	Conc. RSD	CPS	LDR	QC Flag
Be	9	45	He	0.000	192.45	0.33	5	
Na	23	45	He	0.085	11.26	24941.26	90	
Mg	24	45	He	0.005	23.57	303.34	90	
Al	27	45	He	0.005	50.67	73.33	90	
K	39	45	He	-0.008	-11.63	5100.98	90	
Ca	43	45	He	0.020	214.87	6.67	90	
Ti	47	45	He	0.001	128.61	13.33	5	
V	51	45	He	0.000	915.78	30.00	5	
Cr	52	45	He	0.000	23.96	1980.17	5	
Mn	55	72	He	0.000	28.91	233.34	5	
Fe	56	72	He	0.009	7.76	14307.29	90	
Co	59	72	He	0.000	50.52	86.67	5	
Ni	60	72	He	0.001	14.36	560.02	5	
Cu	63	72	He	0.000	8.57	920.05	5	
Zn	66	72	He	0.002	10.84	566.69	5	
As	75	72	He	0.000	81.28	6.22	5	
Se	78	72	He	0.000	488.71	4.44	5	
Sr	88	72	He	0.000	20.78	163.33	5	
Mo	95	72	He	0.000	53.89	40.00	5	
Ag	107	103	He	0.000	24.88	56.67	1	
Cd	111	103	He	0.000	31.74	4.67	5	
Sn	118	103	He	0.000	20.66	103.33	2	
Sb	121	103	He	0.000	-53.83	50.00	1	
Ba	137	103	He	0.000	48.76	60.00	2	
Tl	205	175	He	0.000	50.62	113.33	5	
Pb	208	175	He	0.000	2.27	1280.06	5	
U	238	175	He	0.000	27.43	40.00	5	

QC ISTD Table

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Sc (No He)	45	No Gas	1476222.32	2.74	1630245.08	90.55	60	120	
Sc	45	He	16269.11	1.65	18475.0233333333	88.06	60	120	
Ge	72	He	17925.68	1.76	20319.9766666667	88.22	60	120	
Rh	103	He	759695.67	0.50	806457.853333333	94.2	60	120	

Sample Report

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Lu	175	He	369008.25	0.32	359260.163333333	102.71	60	120	

Sample Report

Sample Name	LCS WG751220
File Name	138SMPL.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\103114ICPMS8.b
Acq Time	2014-10-31 16:36:46
Sample Type	Sample
Total Dilution	1.1111
Comment	---
ISTD Ref FileName	002CALB.d
Sample QC Pass/Fial	Pass
ISTD QC Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD	Tune Mode	Conc.	Conc. RSD	CPS	LDR	QC Flag
Be	9	45	He	0.053	1.57	563.01	5	
Na	23	45	He	0.634	1.03	94523.17	90	
Mg	24	45	He	0.484	3.63	27729.64	90	
Al	27	45	He	0.058	3.69	766.70	90	
K	39	45	He	0.464	2.17	21289.22	90	
Ca	43	45	He	0.971	8.28	122.67	90	
Ti	47	45	He	0.046	12.92	900.05	5	
V	51	45	He	0.050	1.40	55198.27	5	
Cr	52	45	He	0.048	0.95	72293.16	5	
Mn	55	72	He	0.049	3.08	23038.67	5	
Fe	56	72	He	0.061	4.93	70210.45	90	
Co	59	72	He	0.050	4.19	158591.87	5	
Ni	60	72	He	0.050	2.97	46622.15	5	
Cu	63	72	He	0.051	2.60	138955.13	5	
Zn	66	72	He	0.057	29.95	15522.61	5	
As	75	72	He	0.047	2.39	8592.36	5	
Se	78	72	He	0.046	7.28	226.67	5	
Sr	88	72	He	0.048	2.82	22842.11	5	
Mo	95	72	He	0.051	4.68	54013.79	5	
Ag	107	103	He	0.050	0.69	218123.75	1	
Cd	111	103	He	0.048	1.12	20493.67	5	
Sn	118	103	He	0.048	2.80	36170.65	2	
Sb	121	103	He	0.049	3.03	48635.53	1	
Ba	137	103	He	0.047	2.32	14167.55	2	
Tl	205	175	He	0.052	0.14	462292.83	5	
Pb	208	175	He	0.053	0.21	600163.14	5	
U	238	175	He	0.000	100.09	23.33	5	

QC ISTD Table

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Sc (No He)	45	No Gas	1518661.75	1.43	1630245.08	93.16	60	120	
Sc	45	He	16398.13	1.77	18475.0233333333	88.76	60	120	
Ge	72	He	18056.97	3.26	20319.9766666667	88.86	60	120	
Rh	103	He	757835.12	2.33	806457.853333333	93.97	60	120	

Sample Report

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Lu	175	He	370151.91	2.50	359260.163333333	103.03	60	120	

Sample Report

Sample Name	LCSD WG751220
File Name	139SMPL.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\103114ICPMS8.b
Acq Time	2014-10-31 16:38:13
Sample Type	Sample
Total Dilution	1.1111
Comment	---
ISTD Ref FileName	002CALB.d
Sample QC Pass/Fial	Pass
ISTD QC Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD	Tune Mode	Conc.	Conc. RSD	CPS	LDR	QC Flag
Be	9	45	He	0.050	4.51	543.01	5	
Na	23	45	He	0.555	0.70	86250.05	90	
Mg	24	45	He	0.470	1.81	27439.06	90	
Al	27	45	He	0.051	1.76	680.03	90	
K	39	45	He	0.469	4.01	21899.94	90	
Ca	43	45	He	0.937	11.64	120.89	90	
Ti	47	45	He	0.048	4.87	953.38	5	
V	51	45	He	0.049	1.67	54094.10	5	
Cr	52	45	He	0.047	2.42	72125.08	5	
Mn	55	72	He	0.045	3.70	21883.40	5	
Fe	56	72	He	0.055	2.26	65250.09	90	
Co	59	72	He	0.048	1.87	158193.99	5	
Ni	60	72	He	0.048	3.39	46291.06	5	
Cu	63	72	He	0.049	3.50	137422.75	5	
Zn	66	72	He	0.046	4.74	12999.38	5	
As	75	72	He	0.045	3.35	8539.44	5	
Se	78	72	He	0.047	7.49	238.89	5	
Sr	88	72	He	0.047	5.36	22885.40	5	
Mo	95	72	He	0.049	4.47	53437.83	5	
Ag	107	103	He	0.049	1.17	217133.29	1	
Cd	111	103	He	0.047	1.54	20533.72	5	
Sn	118	103	He	0.048	0.54	36451.31	2	
Sb	121	103	He	0.048	1.85	48471.66	1	
Ba	137	103	He	0.048	2.90	14618.00	2	
Tl	205	175	He	0.050	1.27	456439.84	5	
Pb	208	175	He	0.051	2.06	585031.57	5	
U	238	175	He	0.000	192.45	6.67	5	

QC ISTD Table

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Sc (No He)	45	No Gas	1498859.72	6.15	1630245.08	91.94	60	120	
Sc	45	He	16718.50	1.04	18475.0233333333	90.49	60	120	
Ge	72	He	18592.07	1.25	20319.9766666667	91.5	60	120	
Rh	103	He	766685.48	0.27	806457.853333333	95.07	60	120	

Sample Report

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Lu	175	He	379329.85	0.71	359260.163333333	105.59	60	120	

Sample Report

Sample Name	L729800-01 WG751220
File Name	140SMPL.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\103114ICPMS8.b
Acq Time	2014-10-31 16:39:41
Sample Type	Sample
Total Dilution	5.5556
Comment	---
ISTD Ref FileName	002CALB.d
Sample QC Pass/Fial	Fail
ISTD QC Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD	Tune Mode	Conc.	Conc. RSD	CPS	LDR	QC Flag
Be	9	45	He	0.001	505.43	1.67	5	
Na	23	45	He	2063.242	10.21	55671615.83	90	>LDR
Mg	24	45	He	522.340	8.91	6383900.94	90	>LDR
Al	27	45	He	4.480	34.25	12372.01	90	
K	39	45	He	9.904	9.61	78208.36	90	
Ca	43	45	He	1089.094	10.11	28375.39	90	>LDR
Ti	47	45	He	0.050	102.20	210.01	5	
V	51	45	He	0.021	27.87	4840.90	5	
Cr	52	45	He	0.025	6.33	9209.72	5	
Mn	55	72	He	0.581	21.95	59425.53	5	
Fe	56	72	He	5.417	11.39	1265539.69	90	
Co	59	72	He	0.007	43.18	4520.80	5	
Ni	60	72	He	0.014	48.30	2997.04	5	
Cu	63	72	He	0.015	22.00	8816.17	5	
Zn	66	72	He	0.071	26.73	4254.04	5	
As	75	72	He	0.005	9.51	216.45	5	
Se	78	72	He	0.013	59.39	17.78	5	
Sr	88	72	He	16.004	9.33	1636107.32	5	
Mo	95	72	He	0.033	36.63	7608.89	5	
Ag	107	103	He	0.000	102.17	410.01	1	
Cd	111	103	He	0.001	57.05	69.33	5	
Sn	118	103	He	0.002	7.96	253.34	2	
Sb	121	103	He	0.001	138.53	203.34	1	
Ba	137	103	He	0.080	20.71	4684.20	2	
Tl	205	175	He	0.000	124.76	270.01	5	
Pb	208	175	He	0.015	6.50	32816.80	5	
U	238	175	He	0.008	12.64	13747.60	5	

QC ISTD Table

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Sc (No He)	45	No Gas	1694432.27	2.91	1630245.08	103.94	60	120	
Sc	45	He	17513.89	2.29	18475.0233333333	94.8	60	120	
Ge	72	He	19553.38	2.43	20319.9766666667	96.23	60	120	
Rh	103	He	739994.86	1.91	806457.853333333	91.76	60	120	

Sample Report

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Lu	175	He	368708.49	1.80	359260.163333333	102.63	60	120	

Sample Report

Sample Name	SD L729800-01 WG751220
File Name	141SMPL.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\103114ICPMS8.b
Acq Time	2014-10-31 16:41:09
Sample Type	Sample
Total Dilution	27.7778
Comment	---
ISTD Ref FileName	002CALB.d
Sample QC Pass/Fial	Pass
ISTD QC Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD	Tune Mode	Conc.	Conc. RSD	CPS	LDR	QC Flag
Be	9	45	He	0.002	2734.78	1.00	5	
Na	23	45	He	1998.613	64.41	11147575.66	90	
Mg	24	45	He	511.058	89.85	1289608.78	90	
Al	27	45	He	4.346	81.64	2490.25	90	
K	39	45	He	8.503	164.26	18795.65	90	
Ca	43	45	He	1025.919	100.59	5521.94	90	
Ti	47	45	He	0.038	1209.40	33.33	5	
V	51	45	He	0.019	231.28	966.71	5	
Cr	52	45	He	0.020	731.06	2813.65	5	
Mn	55	72	He	0.561	38.08	12055.23	5	
Fe	56	72	He	5.138	35.93	254874.81	90	
Co	59	72	He	0.006	241.00	903.38	5	
Ni	60	72	He	0.015	285.59	746.70	5	
Cu	63	72	He	0.015	224.63	2070.19	5	
Zn	66	72	He	0.054	373.42	806.70	5	
As	75	72	He	0.004	682.04	38.67	5	
Se	78	72	He	0.012	1827.44	7.33	5	
Sr	88	72	He	14.454	56.23	308614.13	5	
Mo	95	72	He	0.033	152.91	1590.12	5	
Ag	107	103	He	0.001	122.38	133.33	1	
Cd	111	103	He	0.000	2001.28	8.00	5	
Sn	118	103	He	0.002	314.26	73.33	2	
Sb	121	103	He	0.001	6070.91	123.34	1	
Ba	137	103	He	0.068	214.21	863.38	2	
Tl	205	175	He	0.000	1411.60	93.33	5	
Pb	208	175	He	0.015	59.10	7004.20	5	
U	238	175	He	0.008	111.27	2643.66	5	

QC ISTD Table

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Sc (No He)	45	No Gas	1666163.72	2.04	1630245.08	102.2	60	120	
Sc	45	He	18082.35	2.37	18475.0233333333	97.87	60	120	
Ge	72	He	20416.76	1.50	20319.9766666667	100.48	60	120	
Rh	103	He	805557.88	0.62	806457.853333333	99.89	60	120	

Sample Report

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Lu	175	He	387928.51	0.56	359260.163333333	107.98	60	120	

Sample Report

Sample Name	MS L729800-01 WG751220
File Name	142SMPL.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\103114ICPMS8.b
Acq Time	2014-10-31 16:42:37
Sample Type	Sample
Total Dilution	5.5556
Comment	---
ISTD Ref FileName	002CALB.d
Sample QC Pass/Fial	Fail
ISTD QC Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD	Tune Mode	Conc.	Conc. RSD	CPS	LDR	QC Flag
Be	9	45	He	0.050	23.53	112.67	5	
Na	23	45	He	1976.942	7.53	52706839.21	90	>LDR
Mg	24	45	He	501.546	8.96	6056073.66	90	>LDR
Al	27	45	He	4.669	4.99	12748.99	90	
K	39	45	He	9.856	15.95	76918.10	90	
Ca	43	45	He	1042.560	7.31	26839.18	90	>LDR
Ti	47	45	He	0.122	66.28	503.35	5	
V	51	45	He	0.072	10.21	16696.47	5	
Cr	52	45	He	0.073	23.12	24103.57	5	
Mn	55	72	He	0.616	13.87	60921.08	5	
Fe	56	72	He	5.668	8.23	1278575.45	90	
Co	59	72	He	0.055	7.83	36770.49	5	
Ni	60	72	He	0.063	12.40	12445.53	5	
Cu	63	72	He	0.062	13.40	35574.18	5	
Zn	66	72	He	0.107	31.62	6174.78	5	
As	75	72	He	0.055	19.29	2101.05	5	
Se	78	72	He	0.058	94.45	62.67	5	
Sr	88	72	He	15.112	14.14	1491369.30	5	
Mo	95	72	He	0.084	2.59	18809.44	5	
Ag	107	103	He	0.051	11.44	42501.47	1	
Cd	111	103	He	0.050	8.06	4067.27	5	
Sn	118	103	He	0.051	7.78	7338.71	2	
Sb	121	103	He	0.051	26.09	9720.20	1	
Ba	137	103	He	0.128	42.13	7325.41	2	
Tl	205	175	He	0.049	19.24	83849.59	5	
Pb	208	175	He	0.063	7.30	136008.25	5	
U	238	175	He	0.008	18.45	13000.09	5	

QC ISTD Table

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Sc (No He)	45	No Gas	1571683.93	3.65	1630245.08	96.41	60	120	
Sc	45	He	17302.49	1.57	18475.0233333333	93.65	60	120	
Ge	72	He	18879.12	1.56	20319.9766666667	92.91	60	120	
Rh	103	He	722144.65	1.13	806457.853333333	89.55	60	120	

Sample Report

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Lu	175	He	352266.86	0.69	359260.163333333	98.05	60	120	

Sample Report

Sample Name	MSD L729800-01 WG751220
File Name	143SMPL.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\103114ICPMS8.b
Acq Time	2014-10-31 16:44:04
Sample Type	Sample
Total Dilution	5.5556
Comment	---
ISTD Ref FileName	002CALB.d
Sample QC Pass/Fial	Fail
ISTD QC Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD	Tune Mode	Conc.	Conc. RSD	CPS	LDR	QC Flag
Be	9	45	He	0.048	55.78	108.67	5	
Na	23	45	He	1983.826	4.66	53178250.87	90	>LDR
Mg	24	45	He	500.805	6.98	6079865.53	90	>LDR
Al	27	45	He	5.014	19.87	13773.29	90	
K	39	45	He	10.118	14.77	79240.86	90	
Ca	43	45	He	1041.920	8.28	26965.20	90	>LDR
Ti	47	45	He	0.155	35.00	640.02	5	
V	51	45	He	0.074	8.99	17270.51	5	
Cr	52	45	He	0.071	31.67	23689.62	5	
Mn	55	72	He	0.632	8.57	61865.60	5	
Fe	56	72	He	6.022	7.04	1344152.64	90	
Co	59	72	He	0.056	1.27	37127.93	5	
Ni	60	72	He	0.063	8.77	12198.67	5	
Cu	63	72	He	0.064	17.79	36610.12	5	
Zn	66	72	He	0.115	9.88	6514.92	5	
As	75	72	He	0.053	11.43	2020.15	5	
Se	78	72	He	0.060	25.24	64.00	5	
Sr	88	72	He	15.278	1.92	1492595.50	5	
Mo	95	72	He	0.085	15.70	18849.53	5	
Ag	107	103	He	0.051	9.02	42247.42	1	
Cd	111	103	He	0.050	9.09	4100.62	5	
Sn	118	103	He	0.052	12.67	7465.47	2	
Sb	121	103	He	0.051	25.40	9626.85	1	
Ba	137	103	He	0.135	11.33	7688.93	2	
Tl	205	175	He	0.050	3.75	82970.46	5	
Pb	208	175	He	0.065	12.69	135321.69	5	
U	238	175	He	0.008	5.25	12412.86	5	

QC ISTD Table

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Sc (No He)	45	No Gas	1614514.61	1.48	1630245.08	99.04	60	120	
Sc	45	He	17395.96	2.23	18475.0233333333	94.16	60	120	
Ge	72	He	18684.43	1.88	20319.9766666667	91.95	60	120	
Rh	103	He	716864.39	0.12	806457.853333333	88.89	60	120	

Sample Report

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Lu	175	He	344008.42	0.94	359260.163333333	95.75	60	120	

Continuing Calibration Verification (CCV) Report

Sample Name	CCV
File Name	144_CCV.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\103114ICPMS8.b
Acq Time	2014-10-31 16:45:30
Sample Type	CCV
Total Dilution	1.0000
Comment	---
ISTD Ref FileName	002CALB.d
Sample QC Pass/Fial	Fail
ISTD QC Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD	Tune Mode	Conc.	Conc. RSD	CPS	ExpValue	% Rec	%QC Low	%QC High	QC Flag
Be	9	45	He	0.107	3.55	1403.07	0.9	11.94	10	10	
Na	23	45	He	10.626	2.54	1656583.57	0.9	1180.63	1000	1000	
Mg	24	45	He	10.138	0.65	709269.36	0.9	1126.45	1000	1000	
Al	27	45	He	1.002	3.49	15848.70	0.9	111.35	100	100	
K	39	45	He	9.858	0.76	418655.20	0.9	1095.37	1000	1000	
Ca	43	45	He	10.167	2.48	1520.97	0.9	1129.69	1000	1000	
Ti	47	45	He	0.105	9.96	2510.26	0.9	11.7	10	10	
V	51	45	He	0.100	0.98	134271.68	0.9	11.16	10	10	
Cr	52	45	He	0.101	0.27	183341.92	0.9	11.25	10	10	
Mn	55	72	He	0.097	2.03	57156.50	0.9	10.83	10	10	
Fe	56	72	He	0.986	1.91	1319515.16	0.9	109.59	100	100	
Co	59	72	He	0.100	1.58	393474.29	0.9	11.1	10	10	
Ni	60	72	He	0.098	1.80	113674.25	0.9	10.89	10	10	
Cu	63	72	He	0.100	1.88	339518.95	0.9	11.1	10	10	
Zn	66	72	He	0.096	0.93	32179.58	0.9	10.68	10	10	
As	75	72	He	0.096	2.50	21752.90	0.9	10.67	10	10	
Se	78	72	He	0.096	1.66	579.35	0.9	10.65	10	10	
Sr	88	72	He	0.097	2.59	57058.15	0.9	10.82	10	10	
Mo	95	72	He	0.103	0.45	135983.80	0.9	11.41	10	10	
Ag	107	103	He	0.103	0.93	542491.48	0.9	11.46	10	10	
Cd	111	103	He	0.098	1.66	50956.30	0.9	10.93	10	10	
Sn	118	103	He	0.099	1.29	89825.43	0.9	11.04	10	10	
Sb	121	103	He	0.100	1.30	118828.10	0.9	11.06	10	10	
Ba	137	103	He	0.102	1.92	36990.12	0.9	11.36	10	10	
Tl	205	175	He	0.103	1.59	1084528.71	0.9	11.41	10	10	
Pb	208	175	He	0.105	0.42	1394560.99	0.9	11.65	10	10	
U	238	175	He	0.148	1.42	1447470.92	0.9	16.4	10	10	CCV Main CR1 Failed

QC ISTD Table

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Sc (No He)	45	No Gas	1687861.33	1.67	1630245.08	103.53	60	120	
Sc	45	He	18041.18	0.40	18475.0233333333	97.65	60	120	

Continuing Calibration Verification (CCV) Report

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Ge	72	He	20151.98	1.30	20319.9766666667	99.17	60	120	
Rh	103	He	822405.35	1.68	806457.853333333	101.98	60	120	
Lu	175	He	392825.66	1.32	359260.163333333	109.34	60	120	

Continuing Calibration Blank (CCB) Report

Sample Name	CCB
File Name	145_CCB.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\103114ICPMS8.b
Acq Time	2014-10-31 16:46:57
Sample Type	CCB
Total Dilution	1.0000
Comment	---
ISTD Ref FileName	002CALB.d
Sample QC Pass/Fial	Pass
ISTD QC Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD	Tune Mode	Conc.	Conc. RSD	CPS	Limit	QC Flag
Be	9	45	He	0.000	41.76	1.33	0.00075	
Na	23	45	He	0.156	6.52	39011.56	0.75	
Mg	24	45	He	0.012	7.48	853.37	0.75	
Al	27	45	He	0.004	29.81	70.00	0.0375	
K	39	45	He	-0.010	-12.66	5397.75	0.75	
Ca	43	45	He	0.026	21.41	8.44	0.75	
Ti	47	45	He	0.000	99.13	10.00	0.0075	
V	51	45	He	0.000	15.84	153.33	0.0015	
Cr	52	45	He	0.000	-52.89	1386.76	0.00075	
Mn	55	72	He	0.000	565.31	66.67	0.0015	
Fe	56	72	He	0.001	25.90	6044.69	0.0375	
Co	59	72	He	0.000	47.98	250.00	0.00075	
Ni	60	72	He	0.000	4.10	200.00	0.00075	
Cu	63	72	He	0.000	31.03	530.02	0.0015	
Zn	66	72	He	0.000	73.58	200.01	0.0075	
As	75	72	He	0.000	56.98	15.11	0.00075	
Se	78	72	He	0.000	1355.66	4.67	0.00075	
Sr	88	72	He	0.000	40.68	173.34	0.0075	
Mo	95	72	He	0.000	23.27	83.33	0.0015	
Ag	107	103	He	0.000	5.47	436.69	0.000375	
Cd	111	103	He	0.000	50.74	34.67	0.000375	
Sn	118	103	He	0.000	64.01	86.67	0.00075	
Sb	121	103	He	0.000	16.13	233.34	0.00075	
Ba	137	103	He	0.000	33.91	30.00	0.0015	
Tl	205	175	He	0.000	7.35	500.02	0.00075	
Pb	208	175	He	0.000	9.63	1343.38	0.00075	
U	238	175	He	0.000	0.10	1056.73	0.0075	

QC ISTD Table

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Sc (No He)	45	No Gas	1714387.94	0.97	1630245.08	105.16	60	120	
Sc	45	He	17611.77	1.40	18475.0233333333	95.33	60	120	
Ge	72	He	19656.84	1.98	20319.9766666667	96.74	60	120	
Rh	103	He	819815.87	0.62	806457.853333333	101.66	60	120	

Continuing Calibration Blank (CCB) Report

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Lu	175	He	390012.65	1.52	359260.163333333	108.56	60	120	

Sample Report

Sample Name	L729602-01 WG751220
File Name	146SMPL.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\103114ICPMS8.b
Acq Time	2014-10-31 16:48:25
Sample Type	Sample
Total Dilution	1.1111
Comment	---
ISTD Ref FileName	002CALB.d
Sample QC Pass/Fial	Fail
ISTD QC Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD	Tune Mode	Conc.	Conc. RSD	CPS	LDR	QC Flag
Be	9	45	He	0.000	110.98	1.00	5	
Na	23	45	He	4.229	0.71	548434.33	90	
Mg	24	45	He	14.066	0.61	804597.15	90	
Al	27	45	He	0.025	17.32	330.01	90	
K	39	45	He	3.384	1.05	121218.42	90	
Ca	43	45	He	6.445	9.95	789.80	90	
Ti	47	45	He	0.001	76.31	16.67	5	
V	51	45	He	0.002	9.09	1706.80	5	
Cr	52	45	He	0.001	5.28	2383.58	5	
Mn	55	72	He	18.765	1.51	9085764.03	5	>LDR
Fe	56	72	He	20.466	0.77	22553196.33	90	
Co	59	72	He	0.034	1.66	111638.24	5	
Ni	60	72	He	0.002	5.84	1943.50	5	
Cu	63	72	He	0.002	4.80	4550.81	5	
Zn	66	72	He	0.003	10.05	866.71	5	
As	75	72	He	0.002	7.23	292.89	5	
Se	78	72	He	0.002	41.66	12.67	5	
Sr	88	72	He	0.170	1.66	82197.37	5	
Mo	95	72	He	0.000	9.45	123.33	5	
Ag	107	103	He	0.000	55.95	86.67	1	
Cd	111	103	He	0.000	33.50	14.00	5	
Sn	118	103	He	0.000	56.97	196.67	2	
Sb	121	103	He	0.000	152.84	143.34	1	
Ba	137	103	He	0.442	0.72	129747.55	2	
Tl	205	175	He	0.000	6.97	3063.75	5	
Pb	208	175	He	0.000	7.76	4817.12	5	
U	238	175	He	0.000	18.16	690.03	5	

QC ISTD Table

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Sc (No He)	45	No Gas	1499288.67	2.87	1630245.08	91.97	60	120	
Sc	45	He	16390.34	0.82	18475.0233333333	88.72	60	120	
Ge	72	He	18509.75	1.77	20319.9766666667	91.09	60	120	
Rh	103	He	742095.64	0.30	806457.853333333	92.02	60	120	

Sample Report

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Lu	175	He	366886.81	0.21	359260.163333333	102.12	60	120	

Sample Report

Sample Name	L729602-02 WG751220
File Name	147SMPL.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\103114ICPMS8.b
Acq Time	2014-10-31 16:49:53
Sample Type	Sample
Total Dilution	1.1111
Comment	---
ISTD Ref FileName	002CALB.d
Sample QC Pass/Fial	Pass
ISTD QC Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD	Tune Mode	Conc.	Conc. RSD	CPS	LDR	QC Flag
Be	9	45	He	0.000	99.14	2.33	5	
Na	23	45	He	3.191	1.06	427338.50	90	
Mg	24	45	He	5.711	1.17	334513.00	90	
Al	27	45	He	0.176	20.41	2333.60	90	
K	39	45	He	1.690	2.32	64773.19	90	
Ca	43	45	He	16.881	2.18	2111.71	90	
Ti	47	45	He	0.016	27.54	323.34	5	
V	51	45	He	0.003	7.64	3217.09	5	
Cr	52	45	He	0.001	20.98	2480.26	5	
Mn	55	72	He	1.807	0.64	899242.98	5	
Fe	56	72	He	1.617	0.94	1835571.79	90	
Co	59	72	He	0.001	4.10	4820.91	5	
Ni	60	72	He	0.001	4.08	1213.41	5	
Cu	63	72	He	0.001	3.76	1746.81	5	
Zn	66	72	He	0.005	13.09	1500.10	5	
As	75	72	He	0.000	27.86	42.67	5	
Se	78	72	He	0.001	33.32	7.11	5	
Sr	88	72	He	0.232	0.59	115336.41	5	
Mo	95	72	He	0.000	17.85	163.33	5	
Ag	107	103	He	0.000	30.24	70.00	1	
Cd	111	103	He	0.000	25.36	40.67	5	
Sn	118	103	He	0.000	22.59	203.34	2	
Sb	121	103	He	0.000	25.45	153.33	1	
Ba	137	103	He	0.080	1.68	23807.67	2	
Tl	205	175	He	0.000	22.68	206.67	5	
Pb	208	175	He	0.000	10.80	3293.57	5	
U	238	175	He	0.000	4.54	1856.84	5	

QC ISTD Table

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Sc (No He)	45	No Gas	1553341.96	2.01	1630245.08	95.28	60	120	
Sc	45	He	16783.00	1.05	18475.0233333333	90.84	60	120	
Ge	72	He	19023.76	0.71	20319.9766666667	93.62	60	120	
Rh	103	He	753838.51	0.77	806457.853333333	93.48	60	120	

Sample Report

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Lu	175	He	368660.11	0.72	359260.163333333	102.62	60	120	

Sample Report

Sample Name	L729602-03 WG751220
File Name	148SMPL.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\103114ICPMS8.b
Acq Time	2014-10-31 16:51:21
Sample Type	Sample
Total Dilution	1.1111
Comment	---
ISTD Ref FileName	002CALB.d
Sample QC Pass/Fial	Pass
ISTD QC Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD	Tune Mode	Conc.	Conc. RSD	CPS	LDR	QC Flag
Be	9	45	He	0.000	111.83	1.00	5	
Na	23	45	He	9.174	1.98	1180386.67	90	
Mg	24	45	He	10.066	1.83	579632.53	90	
Al	27	45	He	0.030	19.52	403.35	90	
K	39	45	He	2.708	1.56	98761.49	90	
Ca	43	45	He	28.397	1.16	3489.76	90	
Ti	47	45	He	0.002	123.29	36.67	5	
V	51	45	He	0.002	8.87	1923.50	5	
Cr	52	45	He	0.001	26.80	2290.22	5	
Mn	55	72	He	5.133	2.71	2455768.35	5	
Fe	56	72	He	0.199	2.67	220818.19	90	
Co	59	72	He	0.004	5.77	12252.05	5	
Ni	60	72	He	0.010	5.53	9800.17	5	
Cu	63	72	He	0.016	3.77	45365.15	5	
Zn	66	72	He	0.021	6.28	5864.62	5	
As	75	72	He	0.000	35.32	24.89	5	
Se	78	72	He	0.000	-561.32	3.78	5	
Sr	88	72	He	0.392	1.54	187721.23	5	
Mo	95	72	He	0.001	10.48	1176.74	5	
Ag	107	103	He	0.000	44.03	50.00	1	
Cd	111	103	He	0.000	10.49	88.67	5	
Sn	118	103	He	0.001	21.79	766.70	2	
Sb	121	103	He	0.000	44.63	183.34	1	
Ba	137	103	He	0.205	1.19	59478.94	2	
Tl	205	175	He	0.000	11.90	393.35	5	
Pb	208	175	He	0.000	4.61	2420.13	5	
U	238	175	He	0.001	3.73	4184.09	5	

QC ISTD Table

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Sc (No He)	45	No Gas	1523060.55	2.15	1630245.08	93.43	60	120	
Sc	45	He	16499.36	1.14	18475.0233333333	89.31	60	120	
Ge	72	He	18292.81	2.30	20319.9766666667	90.02	60	120	
Rh	103	He	733172.72	0.32	806457.853333333	90.91	60	120	

Sample Report

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Lu	175	He	360077.60	1.15	359260.163333333	100.23	60	120	

Sample Report

Sample Name	L729602-04 WG751220
File Name	149SMPL.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\103114ICPMS8.b
Acq Time	2014-10-31 16:52:48
Sample Type	Sample
Total Dilution	1.1111
Comment	---
ISTD Ref FileName	002CALB.d
Sample QC Pass/Fial	Pass
ISTD QC Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD	Tune Mode	Conc.	Conc. RSD	CPS	LDR	QC Flag
Be	9	45	He	0.000	96.25	0.67	5	
Na	23	45	He	14.710	1.59	1962844.66	90	
Mg	24	45	He	11.372	2.32	682124.18	90	
Al	27	45	He	4.154	2.51	56297.39	90	
K	39	45	He	3.197	2.00	120435.37	90	
Ca	43	45	He	29.740	4.28	3805.84	90	
Ti	47	45	He	0.005	11.66	110.00	5	
V	51	45	He	0.007	3.48	7852.25	5	
Cr	52	45	He	0.002	3.49	4040.63	5	
Mn	55	72	He	0.771	2.82	371495.85	5	
Fe	56	72	He	8.114	2.61	8897147.58	90	
Co	59	72	He	0.021	2.85	68421.71	5	
Ni	60	72	He	0.014	4.17	13669.99	5	
Cu	63	72	He	0.012	4.71	32610.57	5	
Zn	66	72	He	0.019	10.17	5327.73	5	
As	75	72	He	0.000	30.35	49.78	5	
Se	78	72	He	0.004	36.73	21.55	5	
Sr	88	72	He	0.430	2.11	207052.61	5	
Mo	95	72	He	0.000	2.60	30.00	5	
Ag	107	103	He	0.000	13.87	203.34	1	
Cd	111	103	He	0.000	26.71	41.33	5	
Sn	118	103	He	0.000	29.35	140.00	2	
Sb	121	103	He	0.000	65.64	120.00	1	
Ba	137	103	He	0.197	1.76	57299.35	2	
Tl	205	175	He	0.000	16.26	300.01	5	
Pb	208	175	He	0.000	3.46	3303.56	5	
U	238	175	He	0.000	19.93	343.35	5	

QC ISTD Table

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Sc (No He)	45	No Gas	1575217.43	1.01	1630245.08	96.62	60	120	
Sc	45	He	17191.26	2.04	18475.0233333333	93.05	60	120	
Ge	72	He	18416.30	2.36	20319.9766666667	90.63	60	120	
Rh	103	He	732955.20	1.03	806457.853333333	90.89	60	120	

Sample Report

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Lu	175	He	361104.37	0.58	359260.163333333	100.51	60	120	

Sample Report

Sample Name	L729602-05 WG751220
File Name	150SMPL.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\103114ICPMS8.b
Acq Time	2014-10-31 16:54:16
Sample Type	Sample
Total Dilution	1.1111
Comment	---
ISTD Ref FileName	002CALB.d
Sample QC Pass/Fial	Fail
ISTD QC Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD	Tune Mode	Conc.	Conc. RSD	CPS	LDR	QC Flag
Be	9	45	He	0.000	2.25	1.00	5	
Na	23	45	He	13.036	2.67	1661250.18	90	
Mg	24	45	He	7.565	2.24	433039.58	90	
Al	27	45	He	0.017	26.39	230.01	90	
K	39	45	He	3.614	2.40	129181.85	90	
Ca	43	45	He	34.410	2.12	4203.28	90	
Ti	47	45	He	0.000	192.45	6.67	5	
V	51	45	He	0.001	9.76	576.69	5	
Cr	52	45	He	0.000	21.30	2053.52	5	
Mn	55	72	He	6.348	0.47	3056811.83	5	>LDR
Fe	56	72	He	4.609	0.79	5054108.36	90	
Co	59	72	He	0.005	1.80	17353.96	5	
Ni	60	72	He	0.003	8.79	2897.02	5	
Cu	63	72	He	0.003	1.99	8339.23	5	
Zn	66	72	He	0.006	3.45	1686.79	5	
As	75	72	He	0.003	3.33	488.46	5	
Se	78	72	He	0.000	295.35	4.67	5	
Sr	88	72	He	0.411	0.68	197958.08	5	
Mo	95	72	He	0.000	26.76	540.02	5	
Ag	107	103	He	0.000	73.59	60.00	1	
Cd	111	103	He	0.000	13.94	132.00	5	
Sn	118	103	He	0.001	14.95	403.34	2	
Sb	121	103	He	0.000	113.56	176.67	1	
Ba	137	103	He	0.012	0.51	3383.82	2	
Tl	205	175	He	0.000	13.49	310.01	5	
Pb	208	175	He	0.000	4.54	2416.79	5	
U	238	175	He	0.058	0.54	469140.33	5	

QC ISTD Table

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Sc (No He)	45	No Gas	1512475.60	1.85	1630245.08	92.78	60	120	
Sc	45	He	16404.78	2.01	18475.0233333333	88.79	60	120	
Ge	72	He	18405.16	0.33	20319.9766666667	90.58	60	120	
Rh	103	He	741013.37	0.62	806457.853333333	91.88	60	120	

Sample Report

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Lu	175	He	359850.76	1.41	359260.163333333	100.16	60	120	

Sample Report

Sample Name	L729602-06 WG751220
File Name	151SMPL.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\103114ICPMS8.b
Acq Time	2014-10-31 16:55:44
Sample Type	Sample
Total Dilution	1.1111
Comment	---
ISTD Ref FileName	002CALB.d
Sample QC Pass/Fial	Fail
ISTD QC Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD	Tune Mode	Conc.	Conc. RSD	CPS	LDR	QC Flag
Be	9	45	He	0.000	77.10	1.67	5	
Na	23	45	He	168.007	0.69	21855944.67	90	>LDR
Mg	24	45	He	21.906	2.02	1290166.73	90	
Al	27	45	He	0.052	15.19	710.03	90	
K	39	45	He	4.434	0.87	161827.02	90	
Ca	43	45	He	72.607	2.37	9119.29	90	
Ti	47	45	He	0.003	66.62	53.33	5	
V	51	45	He	0.001	18.17	1270.08	5	
Cr	52	45	He	0.001	14.12	2483.61	5	
Mn	55	72	He	8.647	1.78	4168370.98	5	>LDR
Fe	56	72	He	18.443	2.69	20233145.53	90	
Co	59	72	He	0.020	2.78	64855.31	5	
Ni	60	72	He	0.012	3.19	11411.30	5	
Cu	63	72	He	0.001	10.37	2406.91	5	
Zn	66	72	He	0.002	16.88	743.37	5	
As	75	72	He	0.002	8.48	404.45	5	
Se	78	72	He	0.000	240.37	5.33	5	
Sr	88	72	He	1.196	2.26	576220.49	5	
Mo	95	72	He	0.000	28.77	263.34	5	
Ag	107	103	He	0.000	35.60	23.33	1	
Cd	111	103	He	0.000	81.48	6.00	5	
Sn	118	103	He	0.007	6.36	5327.78	2	
Sb	121	103	He	0.000	8.69	446.68	1	
Ba	137	103	He	0.151	3.55	42836.94	2	
Tl	205	175	He	0.000	92.65	66.67	5	
Pb	208	175	He	0.000	4.87	1980.09	5	
U	238	175	He	0.000	11.32	960.06	5	

QC ISTD Table

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Sc (No He)	45	No Gas	1472058.21	0.26	1630245.08	90.3	60	120	
Sc	45	He	16876.46	0.30	18475.0233333333	91.35	60	120	
Ge	72	He	18429.64	1.73	20319.9766666667	90.7	60	120	
Rh	103	He	716455.93	1.03	806457.853333333	88.84	60	120	

Sample Report

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Lu	175	He	349257.04	0.80	359260.163333333	97.22	60	120	

Sample Report

Sample Name	L729602-07 WG751220
File Name	152SMPL.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\103114ICPMS8.b
Acq Time	2014-10-31 16:57:12
Sample Type	Sample
Total Dilution	1.1111
Comment	---
ISTD Ref FileName	002CALB.d
Sample QC Pass/Fial	Fail
ISTD QC Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD	Tune Mode	Conc.	Conc. RSD	CPS	LDR	QC Flag
Be	9	45	He	0.000	192.45	0.33	5	
Na	23	45	He	164.450	0.39	21507896.34	90	>LDR
Mg	24	45	He	23.518	0.26	1392503.00	90	
Al	27	45	He	0.034	2.92	473.36	90	
K	39	45	He	4.348	1.00	159635.76	90	
Ca	43	45	He	79.416	0.75	10026.56	90	
Ti	47	45	He	0.001	49.58	26.67	5	
V	51	45	He	0.001	4.43	1073.39	5	
Cr	52	45	He	0.001	17.47	2596.95	5	
Mn	55	72	He	9.689	2.23	4770714.51	5	>LDR
Fe	56	72	He	17.153	1.85	19223149.30	90	
Co	59	72	He	0.026	2.55	87078.29	5	
Ni	60	72	He	0.011	3.58	10937.64	5	
Cu	63	72	He	0.001	4.99	1806.81	5	
Zn	66	72	He	0.001	36.80	470.02	5	
As	75	72	He	0.002	6.39	452.45	5	
Se	78	72	He	0.001	73.86	7.78	5	
Sr	88	72	He	1.257	2.74	618629.49	5	
Mo	95	72	He	0.000	13.99	420.01	5	
Ag	107	103	He	0.000	77.52	30.00	1	
Cd	111	103	He	0.000	52.60	8.00	5	
Sn	118	103	He	0.008	3.66	5621.24	2	
Sb	121	103	He	0.000	16.33	230.01	1	
Ba	137	103	He	0.164	1.89	46351.66	2	
Tl	205	175	He	0.000	104.45	66.67	5	
Pb	208	175	He	0.000	7.71	1473.40	5	
U	238	175	He	0.000	24.89	483.35	5	

QC ISTD Table

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Sc (No He)	45	No Gas	1524869.51	1.30	1630245.08	93.54	60	120	
Sc	45	He	16965.48	2.49	18475.0233333333	91.83	60	120	
Ge	72	He	18823.50	1.78	20319.9766666667	92.64	60	120	
Rh	103	He	713792.20	1.57	806457.853333333	88.51	60	120	

Sample Report

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Lu	175	He	348466.49	0.43	359260.163333333	97	60	120	

Sample Report

Sample Name	L729753-01 WG751220
File Name	153SMPL.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\103114ICPMS8.b
Acq Time	2014-10-31 16:58:40
Sample Type	Sample
Total Dilution	1.1111
Comment	---
ISTD Ref FileName	002CALB.d
Sample QC Pass/Fial	Fail
ISTD QC Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD	Tune Mode	Conc.	Conc. RSD	CPS	LDR	QC Flag
Be	9	45	He	0.000	NaN	0.00	5	
Na	23	45	He	196.453	2.93	25903653.78	90	>LDR
Mg	24	45	He	81.479	2.05	4865436.07	90	
Al	27	45	He	0.060	21.37	823.37	90	
K	39	45	He	1.923	3.75	74331.91	90	
Ca	43	45	He	349.976	2.59	44543.88	90	>LDR
Ti	47	45	He	0.000	96.30	6.67	5	
V	51	45	He	0.002	11.72	2370.24	5	
Cr	52	45	He	0.001	8.72	3187.07	5	
Mn	55	72	He	0.030	2.41	14617.59	5	
Fe	56	72	He	0.059	3.37	71363.48	90	
Co	59	72	He	0.001	2.65	3287.10	5	
Ni	60	72	He	0.001	4.82	1356.75	5	
Cu	63	72	He	0.000	20.91	1046.72	5	
Zn	66	72	He	0.003	20.39	970.05	5	
As	75	72	He	0.000	7.62	80.45	5	
Se	78	72	He	0.000	394.85	5.11	5	
Sr	88	72	He	1.792	1.49	882934.47	5	
Mo	95	72	He	0.000	20.99	306.68	5	
Ag	107	103	He	0.000	28.26	53.33	1	
Cd	111	103	He	0.000	14.69	9.33	5	
Sn	118	103	He	0.001	12.27	400.01	2	
Sb	121	103	He	0.000	-11.17	26.67	1	
Ba	137	103	He	2.453	1.04	681371.34	2	>LDR
Tl	205	175	He	0.000	20.02	230.01	5	
Pb	208	175	He	0.000	12.60	2113.46	5	
U	238	175	He	0.006	2.99	48839.60	5	

QC ISTD Table

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Sc (No He)	45	No Gas	1529957.48	0.76	1630245.08	93.85	60	120	
Sc	45	He	17114.53	2.90	18475.0233333333	92.64	60	120	
Ge	72	He	18845.77	1.21	20319.9766666667	92.75	60	120	
Rh	103	He	701441.35	1.37	806457.853333333	86.98	60	120	

Sample Report

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Lu	175	He	348771.16	1.46	359260.163333333	97.08	60	120	

Sample Report

Sample Name	L729753-02 WG751220
File Name	154SMPL.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\103114ICPMS8.b
Acq Time	2014-10-31 17:00:07
Sample Type	Sample
Total Dilution	1.1111
Comment	---
ISTD Ref FileName	002CALB.d
Sample QC Pass/Fial	Fail
ISTD QC Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD	Tune Mode	Conc.	Conc. RSD	CPS	LDR	QC Flag
Be	9	45	He	0.000	110.84	1.00	5	
Na	23	45	He	1051.734	2.51	140402361.24	90	>LDR
Mg	24	45	He	107.276	0.15	6488912.82	90	>LDR
Al	27	45	He	0.096	13.84	1316.76	90	
K	39	45	He	1.700	2.08	67244.18	90	
Ca	43	45	He	290.634	0.51	37476.20	90	>LDR
Ti	47	45	He	0.001	2.05	30.00	5	
V	51	45	He	0.000	31.62	393.35	5	
Cr	52	45	He	0.001	5.89	2626.95	5	
Mn	55	72	He	0.419	2.43	201908.49	5	
Fe	56	72	He	3.634	1.19	3984994.42	90	
Co	59	72	He	0.002	3.02	8055.73	5	
Ni	60	72	He	0.001	7.12	1243.41	5	
Cu	63	72	He	0.001	5.08	1943.50	5	
Zn	66	72	He	0.004	6.66	1356.75	5	
As	75	72	He	0.050	0.86	9328.83	5	
Se	78	72	He	0.000	75.34	5.78	5	
Sr	88	72	He	6.998	1.39	3366751.51	5	>LDR
Mo	95	72	He	0.002	12.85	1776.81	5	
Ag	107	103	He	0.000	56.69	46.67	1	
Cd	111	103	He	0.000	19.35	7.33	5	
Sn	118	103	He	0.000	14.19	193.34	2	
Sb	121	103	He	0.000	-334.75	70.00	1	
Ba	137	103	He	3.110	0.11	811069.39	2	>LDR
Tl	205	175	He	0.000	65.03	53.33	5	
Pb	208	175	He	0.000	3.32	4723.76	5	
U	238	175	He	0.001	2.13	8346.21	5	

QC ISTD Table

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Sc (No He)	45	No Gas	1523484.35	1.25	1630245.08	93.45	60	120	
Sc	45	He	17332.55	1.86	18475.0233333333	93.82	60	120	
Ge	72	He	18402.96	0.78	20319.9766666667	90.57	60	120	
Rh	103	He	658690.85	0.52	806457.853333333	81.68	60	120	

Sample Report

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Lu	175	He	319369.12	1.92	359260.163333333	88.9	60	120	

Sample Report

Sample Name	L729753-03 WG751220
File Name	155SMPL.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\103114ICPMS8.b
Acq Time	2014-10-31 17:01:35
Sample Type	Sample
Total Dilution	1.1111
Comment	---
ISTD Ref FileName	002CALB.d
Sample QC Pass/Fial	Fail
ISTD QC Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD	Tune Mode	Conc.	Conc. RSD	CPS	LDR	QC Flag
Be	9	45	He	0.000	125.87	1.33	5	
Na	23	45	He	1000.899	1.90	134945061.32	90	>LDR
Mg	24	45	He	58.917	0.94	3598580.36	90	
Al	27	45	He	0.020	33.42	283.34	90	
K	39	45	He	2.154	1.15	84513.16	90	
Ca	43	45	He	374.684	0.91	48784.85	90	>LDR
Ti	47	45	He	0.000	109.84	10.00	5	
V	51	45	He	0.000	75.92	66.67	5	
Cr	52	45	He	0.001	21.40	2573.61	5	
Mn	55	72	He	3.165	3.29	1508762.53	5	
Fe	56	72	He	3.862	1.44	4194051.08	90	
Co	59	72	He	0.003	4.73	9529.98	5	
Ni	60	72	He	0.001	15.99	796.71	5	
Cu	63	72	He	0.000	18.06	1083.40	5	
Zn	66	72	He	0.003	22.67	846.71	5	
As	75	72	He	0.057	2.97	10562.56	5	
Se	78	72	He	0.000	333.00	4.44	5	
Sr	88	72	He	13.661	1.60	6508396.78	5	>LDR
Mo	95	72	He	0.001	3.14	1223.41	5	
Ag	107	103	He	0.000	67.98	46.67	1	
Cd	111	103	He	0.000	14.88	38.67	5	
Sn	118	103	He	0.000	25.64	180.00	2	
Sb	121	103	He	0.000	93.83	120.00	1	
Ba	137	103	He	2.976	0.93	771327.46	2	>LDR
Tl	205	175	He	0.000	75.93	70.00	5	
Pb	208	175	He	0.001	2.94	7844.40	5	
U	238	175	He	0.001	3.37	4951.04	5	

QC ISTD Table

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Sc (No He)	45	No Gas	1441190.24	0.34	1630245.08	88.4	60	120	
Sc	45	He	17502.77	1.76	18475.0233333333	94.74	60	120	
Ge	72	He	18226.05	1.62	20319.9766666667	89.7	60	120	
Rh	103	He	654576.34	0.87	806457.853333333	81.17	60	120	

Sample Report

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Lu	175	He	302596.52	1.48	359260.163333333	84.23	60	120	

Continuing Calibration Verification (CCV) Report

Sample Name	CCV
File Name	156_CCV.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\103114ICPMS8.b
Acq Time	2014-10-31 17:03:02
Sample Type	CCV
Total Dilution	1.0000
Comment	---
ISTD Ref FileName	002CALB.d
Sample QC Pass/Fial	Fail
ISTD QC Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD	Tune Mode	Conc.	Conc. RSD	CPS	ExpValue	% Rec	%QC Low	%QC High	QC Flag
Be	9	45	He	0.099	4.09	1411.73	0.9	11	10	10	
Na	23	45	He	10.545	0.70	1795696.07	0.9	1171.69	1000	1000	
Mg	24	45	He	9.945	0.27	759827.15	0.9	1104.94	1000	1000	
Al	27	45	He	0.999	0.62	17256.91	0.9	111	100	100	
K	39	45	He	9.810	0.85	455032.02	0.9	1089.99	1000	1000	
Ca	43	45	He	9.929	7.04	1622.31	0.9	1103.19	1000	1000	
Ti	47	45	He	0.102	2.16	2663.61	0.9	11.36	10	10	
V	51	45	He	0.097	0.58	142257.35	0.9	10.83	10	10	
Cr	52	45	He	0.098	1.00	193110.62	0.9	10.85	10	10	
Mn	55	72	He	0.099	2.20	61601.00	0.9	11.03	10	10	
Fe	56	72	He	0.975	1.28	1380862.95	0.9	108.33	100	100	
Co	59	72	He	0.098	1.53	410366.27	0.9	10.94	10	10	
Ni	60	72	He	0.098	2.49	119776.80	0.9	10.84	10	10	
Cu	63	72	He	0.097	2.09	350696.75	0.9	10.83	10	10	
Zn	66	72	He	0.098	2.36	34702.23	0.9	10.88	10	10	
As	75	72	He	0.096	2.20	23089.20	0.9	10.7	10	10	
Se	78	72	He	0.094	4.66	603.57	0.9	10.48	10	10	
Sr	88	72	He	0.097	1.59	60204.39	0.9	10.78	10	10	
Mo	95	72	He	0.098	1.77	137350.02	0.9	10.89	10	10	
Ag	107	103	He	0.102	0.72	534067.43	0.9	11.32	10	10	
Cd	111	103	He	0.098	0.44	50459.11	0.9	10.87	10	10	
Sn	118	103	He	0.099	2.06	89107.64	0.9	11	10	10	
Sb	121	103	He	0.098	0.30	116498.67	0.9	10.89	10	10	
Ba	137	103	He	0.099	1.96	35496.14	0.9	10.95	10	10	
Tl	205	175	He	0.099	1.35	956902.61	0.9	11.01	10	10	
Pb	208	175	He	0.100	1.46	1219993.85	0.9	11.14	10	10	
U	238	175	He	0.137	0.78	1226702.27	0.9	15.19	10	10	CCV Main CR1 Failed

QC ISTD Table

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Sc (No He)	45	No Gas	1748454.82	2.68	1630245.08	107.25	60	120	
Sc	45	He	19703.32	1.10	18475.0233333333	106.65	60	120	

Continuing Calibration Verification (CCV) Report

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Ge	72	He	21332.54	2.06	20319.9766666667	104.98	60	120	
Rh	103	He	818988.32	0.56	806457.853333333	101.55	60	120	
Lu	175	He	359391.78	0.37	359260.163333333	100.04	60	120	

Continuing Calibration Blank (CCB) Report

Sample Name	CCB
File Name	157_CCB.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\103114ICPMS8.b
Acq Time	2014-10-31 17:04:28
Sample Type	CCB
Total Dilution	1.0000
Comment	---
ISTD Ref FileName	002CALB.d
Sample QC Pass/Fial	Pass
ISTD QC Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD	Tune Mode	Conc.	Conc. RSD	CPS	Limit	QC Flag
Be	9	45	He	0.000	86.60	0.67	0.00075	
Na	23	45	He	0.330	8.19	66793.82	0.75	
Mg	24	45	He	0.013	4.28	953.38	0.75	
Al	27	45	He	0.002	37.98	40.00	0.0375	
K	39	45	He	-0.007	-28.94	5647.84	0.75	
Ca	43	45	He	0.031	126.37	9.33	0.75	
Ti	47	45	He	0.000	173.21	3.33	0.0075	
V	51	45	He	0.000	28.04	150.00	0.0015	
Cr	52	45	He	0.000	135.44	1613.45	0.00075	
Mn	55	72	He	0.000	34.25	233.34	0.0015	
Fe	56	72	He	0.001	4.01	6561.59	0.0375	
Co	59	72	He	0.000	31.03	273.34	0.00075	
Ni	60	72	He	0.000	22.07	190.01	0.00075	
Cu	63	72	He	0.000	20.40	483.35	0.0015	
Zn	66	72	He	0.000	89.17	190.01	0.0075	
As	75	72	He	0.000	20.98	20.00	0.00075	
Se	78	72	He	0.000	2340.25	4.67	0.00075	
Sr	88	72	He	0.001	7.10	390.01	0.0075	
Mo	95	72	He	0.000	15.33	93.33	0.0015	
Ag	107	103	He	0.000	12.95	413.35	0.000375	
Cd	111	103	He	0.000	19.89	44.00	0.000375	
Sn	118	103	He	0.000	47.48	103.33	0.00075	
Sb	121	103	He	0.000	20.53	236.68	0.00075	
Ba	137	103	He	0.000	56.64	80.00	0.0015	
Tl	205	175	He	0.000	14.60	610.03	0.00075	
Pb	208	175	He	0.000	10.18	1070.04	0.00075	
U	238	175	He	0.000	1.17	1046.73	0.0075	

QC ISTD Table

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Sc (No He)	45	No Gas	1618709.09	1.16	1630245.08	99.29	60	120	
Sc	45	He	18013.37	0.72	18475.0233333333	97.5	60	120	
Ge	72	He	19907.18	1.83	20319.9766666667	97.97	60	120	
Rh	103	He	783225.20	0.66	806457.853333333	97.12	60	120	

Continuing Calibration Blank (CCB) Report

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Lu	175	He	344892.17	0.43	359260.163333333	96	60	120	

Sample Report

Sample Name	L729753-04 WG751220
File Name	158SMPL.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\103114ICPMS8.b
Acq Time	2014-10-31 17:05:55
Sample Type	Sample
Total Dilution	1.1111
Comment	---
ISTD Ref FileName	002CALB.d
Sample QC Pass/Fial	Fail
ISTD QC Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD	Tune Mode	Conc.	Conc. RSD	CPS	LDR	QC Flag
Be	9	45	He	0.000	192.45	0.33	5	
Na	23	45	He	484.333	3.17	62151144.07	90	>LDR
Mg	24	45	He	206.972	3.06	12029772.74	90	>LDR
Al	27	45	He	0.046	13.18	613.38	90	
K	39	45	He	1.367	3.71	53059.56	90	
Ca	43	45	He	570.918	1.46	70754.81	90	>LDR
Ti	47	45	He	0.002	37.37	36.67	5	
V	51	45	He	0.001	10.32	1636.79	5	
Cr	52	45	He	0.001	11.24	2406.91	5	
Mn	55	72	He	1.317	0.87	609739.90	5	
Fe	56	72	He	0.045	1.19	51582.56	90	
Co	59	72	He	0.007	2.07	20321.24	5	
Ni	60	72	He	0.003	6.50	2980.36	5	
Cu	63	72	He	0.001	5.64	2133.53	5	
Zn	66	72	He	0.004	10.65	1226.74	5	
As	75	72	He	0.000	12.05	79.11	5	
Se	78	72	He	0.001	54.83	7.78	5	
Sr	88	72	He	5.034	1.84	2328338.09	5	
Mo	95	72	He	0.000	13.97	303.34	5	
Ag	107	103	He	0.000	21.97	86.67	1	
Cd	111	103	He	0.000	19.48	59.33	5	
Sn	118	103	He	0.000	19.08	276.68	2	
Sb	121	103	He	0.000	69.95	140.00	1	
Ba	137	103	He	4.097	1.28	1058226.05	2	>LDR
Tl	205	175	He	0.000	19.95	210.01	5	
Pb	208	175	He	0.000	3.52	3146.88	5	
U	238	175	He	0.011	2.20	77002.46	5	

QC ISTD Table

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Sc (No He)	45	No Gas	1414886.54	1.30	1630245.08	86.79	60	120	
Sc	45	He	16661.77	2.47	18475.0233333333	90.19	60	120	
Ge	72	He	17696.54	1.87	20319.9766666667	87.09	60	120	
Rh	103	He	652400.20	1.03	806457.853333333	80.9	60	120	

Sample Report

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Lu	175	He	317663.72	0.22	359260.163333333	88.42	60	120	

Sample Report

Sample Name	L729753-05 WG751220
File Name	159SMPL.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\103114ICPMS8.b
Acq Time	2014-10-31 17:07:23
Sample Type	Sample
Total Dilution	1.1111
Comment	---
ISTD Ref FileName	002CALB.d
Sample QC Pass/Fial	Fail
ISTD QC Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD	Tune Mode	Conc.	Conc. RSD	CPS	LDR	QC Flag
Be	9	45	He	0.000	96.23	0.67	5	
Na	23	45	He	285.518	1.09	37220008.61	90	>LDR
Mg	24	45	He	133.701	0.62	7893309.68	90	>LDR
Al	27	45	He	0.090	7.88	1210.08	90	
K	39	45	He	1.807	1.68	69420.93	90	
Ca	43	45	He	420.854	2.14	52961.46	90	>LDR
Ti	47	45	He	0.001	73.14	23.33	5	
V	51	45	He	0.001	11.36	1096.73	5	
Cr	52	45	He	0.001	24.64	2566.93	5	
Mn	55	72	He	0.470	0.99	221089.24	5	
Fe	56	72	He	0.533	0.41	574861.37	90	
Co	59	72	He	0.003	0.48	9633.34	5	
Ni	60	72	He	0.002	14.84	1546.77	5	
Cu	63	72	He	0.000	6.92	1500.11	5	
Zn	66	72	He	0.004	5.63	1126.73	5	
As	75	72	He	0.002	3.53	415.12	5	
Se	78	72	He	0.000	209.10	4.89	5	
Sr	88	72	He	3.970	1.23	1867015.02	5	
Mo	95	72	He	0.001	3.87	620.03	5	
Ag	107	103	He	0.000	46.31	30.00	1	
Cd	111	103	He	0.000	82.92	4.67	5	
Sn	118	103	He	0.000	13.60	283.34	2	
Sb	121	103	He	0.000	-43.84	66.67	1	
Ba	137	103	He	3.967	1.78	1062581.96	2	>LDR
Tl	205	175	He	0.000	52.83	76.67	5	
Pb	208	175	He	0.000	10.87	2656.84	5	
U	238	175	He	0.004	5.33	30837.24	5	

QC ISTD Table

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Sc (No He)	45	No Gas	1491626.07	3.50	1630245.08	91.5	60	120	
Sc	45	He	16916.51	0.60	18475.0233333333	91.56	60	120	
Ge	72	He	17987.98	0.87	20319.9766666667	88.52	60	120	
Rh	103	He	676552.96	1.37	806457.853333333	83.89	60	120	

Sample Report

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Lu	175	He	325655.77	0.42	359260.163333333	90.65	60	120	

Sample Report

Sample Name	L729753-06 WG751220
File Name	160SMPL.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\103114ICPMS8.b
Acq Time	2014-10-31 17:08:49
Sample Type	Sample
Total Dilution	1.1111
Comment	---
ISTD Ref FileName	002CALB.d
Sample QC Pass/Fial	Pass
ISTD QC Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD	Tune Mode	Conc.	Conc. RSD	CPS	LDR	QC Flag
Be	9	45	He	0.001	40.07	8.00	5	
Na	23	45	He	89.229	2.11	11647918.58	90	
Mg	24	45	He	1.796	3.28	106111.84	90	
Al	27	45	He	1.992	3.50	26587.49	90	
K	39	45	He	4.957	2.42	180785.36	90	
Ca	43	45	He	12.044	5.33	1520.08	90	
Ti	47	45	He	0.003	99.65	50.00	5	
V	51	45	He	0.006	7.15	6348.17	5	
Cr	52	45	He	0.001	17.81	3707.20	5	
Mn	55	72	He	0.139	2.70	68026.11	5	
Fe	56	72	He	1.847	1.57	2064633.61	90	
Co	59	72	He	0.003	3.76	9393.16	5	
Ni	60	72	He	0.004	7.47	3670.53	5	
Cu	63	72	He	0.005	3.02	13169.55	5	
Zn	66	72	He	0.011	5.68	3283.77	5	
As	75	72	He	0.003	3.63	517.79	5	
Se	78	72	He	0.001	63.44	8.45	5	
Sr	88	72	He	0.417	1.53	204285.16	5	
Mo	95	72	He	0.000	21.62	206.67	5	
Ag	107	103	He	0.000	134.94	26.67	1	
Cd	111	103	He	0.000	33.31	14.67	5	
Sn	118	103	He	0.000	10.50	146.67	2	
Sb	121	103	He	0.000	58.96	170.00	1	
Ba	137	103	He	0.195	1.78	55853.90	2	
Tl	205	175	He	0.000	26.39	310.01	5	
Pb	208	175	He	0.006	2.07	61594.52	5	
U	238	175	He	0.000	7.04	2356.93	5	

QC ISTD Table

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Sc (No He)	45	No Gas	1490946.44	7.91	1630245.08	91.46	60	120	
Sc	45	He	16929.84	2.57	18475.0233333333	91.64	60	120	
Ge	72	He	18738.93	0.98	20319.9766666667	92.22	60	120	
Rh	103	He	725232.51	0.50	806457.853333333	89.93	60	120	

Sample Report

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Lu	175	He	339624.95	0.86	359260.163333333	94.53	60	120	

Sample Report

Sample Name	L729798-02 WG751220
File Name	161SMPL.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\103114ICPMS8.b
Acq Time	2014-10-31 17:10:18
Sample Type	Sample
Total Dilution	5.5556
Comment	---
ISTD Ref FileName	002CALB.d
Sample QC Pass/Fial	Fail
ISTD QC Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD	Tune Mode	Conc.	Conc. RSD	CPS	LDR	QC Flag
Be	9	45	He	0.002	189.00	3.67	5	
Na	23	45	He	1533.467	12.58	40927082.72	90	>LDR
Mg	24	45	He	427.812	9.29	5171367.21	90	
Al	27	45	He	9.004	19.41	24600.79	90	
K	39	45	He	9.748	22.65	76201.31	90	
Ca	43	45	He	1248.012	7.45	32167.66	90	>LDR
Ti	47	45	He	0.072	47.72	296.68	5	
V	51	45	He	0.071	12.20	16442.83	5	
Cr	52	45	He	0.086	10.69	28224.43	5	
Mn	55	72	He	1.320	8.24	127554.35	5	
Fe	56	72	He	15.248	10.60	3355599.33	90	
Co	59	72	He	0.019	17.48	12512.27	5	
Ni	60	72	He	0.032	19.22	6298.16	5	
Cu	63	72	He	0.043	15.67	24320.82	5	
Zn	66	72	He	0.223	25.70	12392.19	5	
As	75	72	He	0.013	43.54	472.90	5	
Se	78	72	He	0.021	59.32	24.67	5	
Sr	88	72	He	11.047	11.88	1066168.94	5	
Mo	95	72	He	0.039	11.44	8512.69	5	
Ag	107	103	He	0.000	254.98	73.33	1	
Cd	111	103	He	0.002	118.43	150.67	5	
Sn	118	103	He	0.001	157.52	203.34	2	
Sb	121	103	He	0.000	509.16	136.67	1	
Ba	137	103	He	0.135	19.50	7335.40	2	
Tl	205	175	He	0.000	48.24	186.67	5	
Pb	208	175	He	0.042	2.61	80839.33	5	
U	238	175	He	0.013	8.28	17986.07	5	

QC ISTD Table

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Sc (No He)	45	No Gas	1563052.89	0.71	1630245.08	95.88	60	120	
Sc	45	He	17322.53	2.25	18475.0233333333	93.76	60	120	
Ge	72	He	18461.91	1.82	20319.9766666667	90.86	60	120	
Rh	103	He	687603.71	0.92	806457.853333333	85.26	60	120	

Sample Report

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Lu	175	He	316587.07	0.40	359260.163333333	88.12	60	120	

Sample Report

Sample Name	L729798-04 WG751220
File Name	162SMPL.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\103114ICPMS8.b
Acq Time	2014-10-31 17:11:44
Sample Type	Sample
Total Dilution	5.5556
Comment	---
ISTD Ref FileName	002CALB.d
Sample QC Pass/Fial	Fail
ISTD QC Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD	Tune Mode	Conc.	Conc. RSD	CPS	LDR	QC Flag
Be	9	45	He	0.008	95.30	19.00	5	
Na	23	45	He	1505.038	11.40	41262891.88	90	>LDR
Mg	24	45	He	453.960	8.20	5637340.96	90	
Al	27	45	He	20.030	16.15	56210.39	90	
K	39	45	He	11.708	9.41	92863.00	90	
Ca	43	45	He	1929.279	12.26	51065.93	90	>LDR
Ti	47	45	He	0.077	112.83	323.34	5	
V	51	45	He	0.235	8.04	55673.49	5	
Cr	52	45	He	0.283	13.97	91624.29	5	
Mn	55	72	He	3.764	7.05	377604.31	5	
Fe	56	72	He	38.345	7.00	8756611.95	90	
Co	59	72	He	0.052	12.81	34972.65	5	
Ni	60	72	He	0.071	8.25	14203.87	5	
Cu	63	72	He	0.071	8.56	41192.40	5	
Zn	66	72	He	0.221	12.73	12732.44	5	
As	75	72	He	0.028	15.22	1095.60	5	
Se	78	72	He	0.052	18.42	57.33	5	
Sr	88	72	He	13.750	4.47	1378335.08	5	
Mo	95	72	He	0.054	18.66	12272.24	5	
Ag	107	103	He	0.000	237.95	76.67	1	
Cd	111	103	He	0.004	27.34	346.68	5	
Sn	118	103	He	0.002	116.05	246.68	2	
Sb	121	103	He	0.000	364.20	130.00	1	
Ba	137	103	He	0.228	7.17	12756.14	2	
Tl	205	175	He	0.000	172.06	176.67	5	
Pb	208	175	He	0.090	0.62	184659.15	5	
U	238	175	He	0.021	18.75	31682.57	5	

QC ISTD Table

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Sc (No He)	45	No Gas	1574946.02	2.14	1630245.08	96.61	60	120	
Sc	45	He	17794.22	2.23	18475.0233333333	96.32	60	120	
Ge	72	He	19170.62	0.13	20319.9766666667	94.34	60	120	
Rh	103	He	707028.09	0.31	806457.853333333	87.67	60	120	

Sample Report

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Lu	175	He	337394.21	1.17	359260.163333333	93.91	60	120	

Sample Report

Sample Name	L729798-06 WG751220
File Name	163SMPL.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\103114ICPMS8.b
Acq Time	2014-10-31 17:13:11
Sample Type	Sample
Total Dilution	5.5556
Comment	---
ISTD Ref FileName	002CALB.d
Sample QC Pass/Fial	Fail
ISTD QC Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD	Tune Mode	Conc.	Conc. RSD	CPS	LDR	QC Flag
Be	9	45	He	0.005	356.54	11.00	5	
Na	23	45	He	1384.836	18.46	39708107.74	90	>LDR
Mg	24	45	He	431.013	18.53	5596774.92	90	
Al	27	45	He	13.892	26.31	40749.93	90	
K	39	45	He	10.522	18.88	87906.39	90	
Ca	43	45	He	3599.709	12.83	99664.53	90	>LDR
Ti	47	45	He	0.095	30.91	420.02	5	
V	51	45	He	0.163	24.79	40496.65	5	
Cr	52	45	He	0.070	20.38	24811.46	5	
Mn	55	72	He	4.854	9.91	492705.78	5	
Fe	56	72	He	9.361	13.29	2166325.91	90	
Co	59	72	He	0.033	16.32	22347.56	5	
Ni	60	72	He	0.033	22.56	6678.29	5	
Cu	63	72	He	0.027	18.71	16299.42	5	
Zn	66	72	He	0.087	9.49	5174.37	5	
As	75	72	He	0.023	13.14	912.92	5	
Se	78	72	He	0.074	71.05	81.78	5	
Sr	88	72	He	19.245	17.12	1951562.11	5	
Mo	95	72	He	0.008	32.03	1883.49	5	
Ag	107	103	He	0.000	308.74	60.00	1	
Cd	111	103	He	0.007	45.78	526.68	5	
Sn	118	103	He	0.001	145.54	160.00	2	
Sb	121	103	He	0.000	654.55	116.67	1	
Ba	137	103	He	0.404	6.60	22612.24	2	
Tl	205	175	He	0.000	114.91	293.34	5	
Pb	208	175	He	0.085	3.35	181664.39	5	
U	238	175	He	0.025	2.82	38812.11	5	

QC ISTD Table

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Sc (No He)	45	No Gas	1650573.05	1.89	1630245.08	101.25	60	120	
Sc	45	He	18617.45	3.35	18475.0233333333	100.77	60	120	
Ge	72	He	19398.69	1.60	20319.9766666667	95.47	60	120	
Rh	103	He	707406.87	0.32	806457.853333333	87.72	60	120	

Sample Report

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Lu	175	He	350671.33	0.59	359260.163333333	97.61	60	120	

Sample Report

Sample Name	L729753-01 WG751220
File Name	164SMPL.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\103114ICPMS8.b
Acq Time	2014-10-31 17:20:37
Sample Type	Sample
Total Dilution	5.5556
Comment	---
ISTD Ref FileName	002CALB.d
Sample QC Pass/Fial	Pass
ISTD QC Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD	Tune Mode	Conc.	Conc. RSD	CPS	LDR	QC Flag
Be	9	45	He	0.000	NaN	0.00	5	
Na	23	45	He	204.913	14.76	5797391.37	90	
Mg	24	45	He	85.785	11.61	1096584.64	90	
Al	27	45	He	0.063	188.39	193.34	90	
K	39	45	He	1.814	10.12	19917.14	90	
Ca	43	45	He	357.239	17.06	9737.47	90	
Ti	47	45	He	0.002	8.00	10.00	5	
V	51	45	He	0.002	68.83	613.36	5	
Cr	52	45	He	0.000	148.56	1690.14	5	
Mn	55	72	He	0.029	24.42	3040.38	5	
Fe	56	72	He	0.054	6.77	17781.83	90	
Co	59	72	He	0.001	84.58	736.70	5	
Ni	60	72	He	0.001	97.27	396.68	5	
Cu	63	72	He	0.000	130.17	390.01	5	
Zn	66	72	He	0.002	182.82	256.68	5	
As	75	72	He	0.000	164.52	18.67	5	
Se	78	72	He	-0.001	-409.97	3.11	5	
Sr	88	72	He	1.892	8.63	197340.73	5	
Mo	95	72	He	0.000	205.21	100.00	5	
Ag	107	103	He	0.000	1268.49	13.33	1	
Cd	111	103	He	0.000	828.80	2.00	5	
Sn	118	103	He	0.000	125.87	70.00	2	
Sb	121	103	He	0.000	-504.01	63.33	1	
Ba	137	103	He	2.468	4.40	156993.47	2	
Tl	205	175	He	0.000	153.58	106.67	5	
Pb	208	175	He	0.000	46.55	630.01	5	
U	238	175	He	0.007	15.14	11915.68	5	

QC ISTD Table

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Sc (No He)	45	No Gas	1676454.77	1.26	1630245.08	102.83	60	120	
Sc	45	He	18317.07	1.44	18475.0233333333	99.15	60	120	
Ge	72	He	19950.58	2.22	20319.9766666667	98.18	60	120	
Rh	103	He	803268.27	1.11	806457.853333333	99.6	60	120	

Sample Report

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Lu	175	He	396225.81	0.28	359260.163333333	110.29	60	120	

Sample Report

Sample Name	L729753-02 WG751220
File Name	165SMPL.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\103114ICPMS8.b
Acq Time	2014-10-31 17:22:04
Sample Type	Sample
Total Dilution	5.5556
Comment	---
ISTD Ref FileName	002CALB.d
Sample QC Pass/Fial	Fail
ISTD QC Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD	Tune Mode	Conc.	Conc. RSD	CPS	LDR	QC Flag
Be	9	45	He	0.000	962.25	0.33	5	
Na	23	45	He	1087.094	11.12	30807242.04	90	>LDR
Mg	24	45	He	113.740	1.87	1459890.08	90	
Al	27	45	He	0.078	78.99	240.01	90	
K	39	45	He	1.662	22.65	18825.73	90	
Ca	43	45	He	294.961	13.91	8073.35	90	
Ti	47	45	He	0.000	NaN	0.00	5	
V	51	45	He	0.000	252.70	123.33	5	
Cr	52	45	He	0.000	2624.36	1586.78	5	
Mn	55	72	He	0.419	18.69	44174.22	5	
Fe	56	72	He	3.682	10.66	888248.16	90	
Co	59	72	He	0.003	66.69	2003.51	5	
Ni	60	72	He	0.001	136.28	386.68	5	
Cu	63	72	He	0.001	83.67	673.36	5	
Zn	66	72	He	0.004	227.71	370.01	5	
As	75	72	He	0.051	20.50	2094.83	5	
Se	78	72	He	0.001	885.15	6.22	5	
Sr	88	72	He	7.020	6.96	739492.02	5	
Mo	95	72	He	0.002	120.83	443.35	5	
Ag	107	103	He	0.000	835.85	16.67	1	
Cd	111	103	He	0.000	60179.59	0.67	5	
Sn	118	103	He	0.000	157.44	63.33	2	
Sb	121	103	He	0.000	933.29	113.33	1	
Ba	137	103	He	3.076	3.85	193136.85	2	
Tl	205	175	He	0.000	1531.89	16.67	5	
Pb	208	175	He	0.001	50.72	1396.73	5	
U	238	175	He	0.001	55.69	2373.60	5	

QC ISTD Table

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Sc (No He)	45	No Gas	1639578.15	3.12	1630245.08	100.57	60	120	
Sc	45	He	18389.38	1.97	18475.0233333333	99.54	60	120	
Ge	72	He	20148.62	1.69	20319.9766666667	99.16	60	120	
Rh	103	He	792854.08	0.24	806457.853333333	98.31	60	120	

Sample Report

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Lu	175	He	391804.24	0.57	359260.163333333	109.06	60	120	

Sample Report

Sample Name	L729753-03 WG751220
File Name	166SMPL.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\103114ICPMS8.b
Acq Time	2014-10-31 17:23:31
Sample Type	Sample
Total Dilution	5.5556
Comment	---
ISTD Ref FileName	002CALB.d
Sample QC Pass/Fial	Fail
ISTD QC Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD	Tune Mode	Conc.	Conc. RSD	CPS	LDR	QC Flag
Be	9	45	He	0.000	NaN	0.00	5	
Na	23	45	He	1054.848	16.28	30069205.39	90	>LDR
Mg	24	45	He	62.444	11.67	806087.38	90	
Al	27	45	He	0.045	443.64	143.35	90	
K	39	45	He	2.228	17.97	23312.10	90	
Ca	43	45	He	392.130	6.80	10795.09	90	
Ti	47	45	He	0.001	962.25	3.33	5	
V	51	45	He	0.000	183.35	63.33	5	
Cr	52	45	He	0.000	-1290.20	1513.44	5	
Mn	55	72	He	3.150	9.25	328592.85	5	
Fe	56	72	He	4.016	8.42	958106.03	90	
Co	59	72	He	0.003	34.52	2080.18	5	
Ni	60	72	He	0.001	77.42	330.01	5	
Cu	63	72	He	0.000	114.98	446.68	5	
Zn	66	72	He	0.001	224.54	230.01	5	
As	75	72	He	0.060	11.49	2439.32	5	
Se	78	72	He	0.001	1805.83	5.33	5	
Sr	88	72	He	14.211	8.58	1481203.31	5	
Mo	95	72	He	0.001	75.49	273.34	5	
Ag	107	103	He	0.000	1573.57	10.00	1	
Cd	111	103	He	0.000	308.78	16.67	5	
Sn	118	103	He	0.000	475.10	36.67	2	
Sb	121	103	He	0.000	-384.46	70.00	1	
Ba	137	103	He	3.048	13.25	189712.65	2	
Tl	205	175	He	0.000	1373.32	16.67	5	
Pb	208	175	He	0.001	36.30	2323.47	5	
U	238	175	He	0.001	31.86	1316.76	5	

QC ISTD Table

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Sc (No He)	45	No Gas	1652617.53	4.30	1630245.08	101.37	60	120	
Sc	45	He	18497.30	1.40	18475.0233333333	100.12	60	120	
Ge	72	He	19937.22	1.80	20319.9766666667	98.12	60	120	
Rh	103	He	786002.83	0.96	806457.853333333	97.46	60	120	

Sample Report

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Lu	175	He	385370.23	0.42	359260.163333333	107.27	60	120	

Sample Report

Sample Name	L729753-04 WG751220
File Name	167SMPL.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\103114ICPMS8.b
Acq Time	2014-10-31 17:24:59
Sample Type	Sample
Total Dilution	5.5556
Comment	---
ISTD Ref FileName	002CALB.d
Sample QC Pass/Fial	Fail
ISTD QC Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD	Tune Mode	Conc.	Conc. RSD	CPS	LDR	QC Flag
Be	9	45	He	0.000	NaN	0.00	5	
Na	23	45	He	501.719	6.87	14465367.70	90	>LDR
Mg	24	45	He	217.496	7.24	2837890.27	90	
Al	27	45	He	0.042	200.30	136.67	90	
K	39	45	He	1.357	14.23	16756.41	90	
Ca	43	45	He	581.305	8.13	16170.69	90	>LDR
Ti	47	45	He	0.001	962.25	6.67	5	
V	51	45	He	0.001	165.47	386.68	5	
Cr	52	45	He	0.000	-3659.64	1580.12	5	
Mn	55	72	He	1.332	2.86	143383.54	5	
Fe	56	72	He	0.043	11.64	15612.32	90	
Co	59	72	He	0.007	32.80	4927.58	5	
Ni	60	72	He	0.003	56.68	806.71	5	
Cu	63	72	He	0.001	88.30	756.70	5	
Zn	66	72	He	0.003	141.92	330.01	5	
As	75	72	He	0.000	66.56	16.89	5	
Se	78	72	He	0.001	81.24	5.33	5	
Sr	88	72	He	4.967	4.99	533940.17	5	
Mo	95	72	He	0.000	357.96	40.00	5	
Ag	107	103	He	0.000	513.09	23.33	1	
Cd	111	103	He	0.000	76.87	19.33	5	
Sn	118	103	He	0.000	209.65	86.67	2	
Sb	121	103	He	0.000	-280.05	83.33	1	
Ba	137	103	He	4.132	8.21	258861.64	2	
Tl	205	175	He	0.000	988.97	20.00	5	
Pb	208	175	He	0.000	44.45	946.71	5	
U	238	175	He	0.012	15.72	20603.37	5	

QC ISTD Table

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Sc (No He)	45	No Gas	1653513.99	0.81	1630245.08	101.43	60	120	
Sc	45	He	18695.36	1.87	18475.0233333333	101.19	60	120	
Ge	72	He	20560.30	1.66	20319.9766666667	101.18	60	120	
Rh	103	He	791246.19	1.48	806457.853333333	98.11	60	120	

Sample Report

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Lu	175	He	387140.62	0.27	359260.163333333	107.76	60	120	

Continuing Calibration Verification (CCV) Report

Sample Name	CCV
File Name	168_CCV.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\103114ICPMS8.b
Acq Time	2014-10-31 17:27:18
Sample Type	CCV
Total Dilution	1.0000
Comment	---
ISTD Ref FileName	002CALB.d
Sample QC Pass/Fial	Fail
ISTD QC Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD	Tune Mode	Conc.	Conc. RSD	CPS	ExpValue	% Rec	%QC Low	%QC High	QC Flag
Be	9	45	He	0.102	1.76	1407.74	0.9	11.29	10	10	
Na	23	45	He	10.275	0.83	1700412.58	0.9	1141.67	1000	1000	
Mg	24	45	He	9.988	1.06	741429.94	0.9	1109.75	1000	1000	
Al	27	45	He	1.011	2.46	16963.32	0.9	112.3	100	100	
K	39	45	He	9.980	0.22	449640.73	0.9	1108.89	1000	1000	
Ca	43	45	He	10.036	0.94	1592.98	0.9	1115.09	1000	1000	
Ti	47	45	He	0.103	5.99	2600.29	0.9	11.42	10	10	
V	51	45	He	0.100	0.81	141224.00	0.9	11.07	10	10	
Cr	52	45	He	0.100	0.93	192004.78	0.9	11.1	10	10	
Mn	55	72	He	0.098	0.98	60777.41	0.9	10.92	10	10	
Fe	56	72	He	0.984	0.59	1389120.19	0.9	109.35	100	100	
Co	59	72	He	0.099	0.41	411248.21	0.9	11	10	10	
Ni	60	72	He	0.098	1.29	120216.75	0.9	10.92	10	10	
Cu	63	72	He	0.099	0.34	353427.26	0.9	10.95	10	10	
Zn	66	72	He	0.098	1.45	34615.22	0.9	10.89	10	10	
As	75	72	He	0.096	0.25	23046.04	0.9	10.72	10	10	
Se	78	72	He	0.098	2.78	625.57	0.9	10.9	10	10	
Sr	88	72	He	0.099	1.63	61188.82	0.9	11	10	10	
Mo	95	72	He	0.101	1.27	141735.94	0.9	11.27	10	10	
Ag	107	103	He	0.104	0.59	562722.22	0.9	11.55	10	10	
Cd	111	103	He	0.101	1.31	53642.25	0.9	11.18	10	10	
Sn	118	103	He	0.103	2.26	95503.36	0.9	11.41	10	10	
Sb	121	103	He	0.104	0.97	127279.07	0.9	11.51	10	10	
Ba	137	103	He	0.103	1.28	38317.15	0.9	11.44	10	10	
Tl	205	175	He	0.100	0.48	1112940.90	0.9	11.14	10	10	
Pb	208	175	He	0.103	0.34	1443494.24	0.9	11.46	10	10	
U	238	175	He	0.146	0.09	1503072.74	0.9	16.19	10	10	CCV Main CR1 Failed

QC ISTD Table

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Sc (No He)	45	No Gas	1745629.04	2.36	1630245.08	107.08	60	120	
Sc	45	He	19143.67	0.76	18475.0233333333	103.62	60	120	

Continuing Calibration Verification (CCV) Report

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Ge	72	He	21257.98	1.13	20319.9766666667	104.62	60	120	
Rh	103	He	846110.20	0.65	806457.853333333	104.92	60	120	
Lu	175	He	413172.13	0.41	359260.163333333	115.01	60	120	

Continuing Calibration Blank (CCB) Report

Sample Name	CCB
File Name	169_CCB.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\103114ICPMS8.b
Acq Time	2014-10-31 17:31:51
Sample Type	CCB
Total Dilution	1.0000
Comment	---
ISTD Ref FileName	002CALB.d
Sample QC Pass/Fial	Pass
ISTD QC Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD	Tune Mode	Conc.	Conc. RSD	CPS	Limit	QC Flag
Be	9	45	He	0.000	173.21	0.67	0.00075	
Na	23	45	He	0.076	5.49	27893.13	0.75	
Mg	24	45	He	0.005	12.30	423.34	0.75	
Al	27	45	He	0.002	136.23	43.33	0.0375	
K	39	45	He	-0.007	-42.36	5677.89	0.75	
Ca	43	45	He	0.018	154.50	7.56	0.75	
Ti	47	45	He	0.000	NaN	0.00	0.0075	
V	51	45	He	0.000	43.34	63.33	0.0015	
Cr	52	45	He	0.000	-4.41	1256.74	0.00075	
Mn	55	72	He	0.000	74.19	90.00	0.0015	
Fe	56	72	He	0.000	175.48	5301.16	0.0375	
Co	59	72	He	0.000	36.63	123.33	0.00075	
Ni	60	72	He	0.000	87.97	150.00	0.00075	
Cu	63	72	He	0.000	41.47	353.34	0.0015	
Zn	66	72	He	0.000	40.36	206.67	0.0075	
As	75	72	He	0.000	76.94	8.00	0.00075	
Se	78	72	He	0.000	257.72	5.78	0.00075	
Sr	88	72	He	0.000	29.44	176.67	0.0075	
Mo	95	72	He	0.000	20.83	50.00	0.0015	
Ag	107	103	He	0.000	22.04	170.00	0.000375	
Cd	111	103	He	0.000	15.95	14.67	0.000375	
Sn	118	103	He	0.000	16.72	56.67	0.00075	
Sb	121	103	He	0.000	81.74	143.34	0.00075	
Ba	137	103	He	0.000	88.78	30.00	0.0015	
Tl	205	175	He	0.000	32.46	256.68	0.00075	
Pb	208	175	He	0.000	1.32	520.01	0.00075	
U	238	175	He	0.000	3.14	366.68	0.0075	

QC ISTD Table

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Sc (No He)	45	No Gas	1692786.54	0.80	1630245.08	103.84	60	120	
Sc	45	He	18158.01	1.37	18475.0233333333	98.28	60	120	
Ge	72	He	20519.13	0.89	20319.9766666667	100.98	60	120	
Rh	103	He	828918.14	0.62	806457.853333333	102.79	60	120	

Continuing Calibration Blank (CCB) Report

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Lu	175	He	396255.96	0.82	359260.163333333	110.3	60	120	

Sample Report

Sample Name	L729753-05 WG751220
File Name	170SMPL.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\103114ICPMS8.b
Acq Time	2014-10-31 17:33:19
Sample Type	Sample
Total Dilution	5.5556
Comment	---
ISTD Ref FileName	002CALB.d
Sample QC Pass/Fial	Pass
ISTD QC Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD	Tune Mode	Conc.	Conc. RSD	CPS	LDR	QC Flag
Be	9	45	He	0.000	962.25	0.67	5	
Na	23	45	He	307.196	4.95	8554217.58	90	
Mg	24	45	He	145.645	4.61	1834009.97	90	
Al	27	45	He	0.080	129.51	240.01	90	
K	39	45	He	1.907	15.15	20320.98	90	
Ca	43	45	He	454.532	5.63	12204.64	90	
Ti	47	45	He	0.000	NaN	0.00	5	
V	51	45	He	0.001	74.78	276.68	5	
Cr	52	45	He	0.000	-15698.03	1533.44	5	
Mn	55	72	He	0.485	15.83	51167.02	5	
Fe	56	72	He	0.571	35.10	141722.72	90	
Co	59	72	He	0.003	79.28	2250.22	5	
Ni	60	72	He	0.002	135.77	546.69	5	
Cu	63	72	He	0.001	100.48	566.69	5	
Zn	66	72	He	0.003	221.94	313.34	5	
As	75	72	He	0.002	27.21	93.33	5	
Se	78	72	He	-0.001	-479.31	3.33	5	
Sr	88	72	He	4.043	6.85	425446.41	5	
Mo	95	72	He	0.001	242.68	133.33	5	
Ag	107	103	He	0.000	276.37	56.67	1	
Cd	111	103	He	0.000	383.10	6.67	5	
Sn	118	103	He	0.000	210.85	76.67	2	
Sb	121	103	He	0.000	-513.41	53.33	1	
Ba	137	103	He	4.248	2.23	264381.27	2	
Tl	205	175	He	0.000	395.09	46.67	5	
Pb	208	175	He	0.000	85.26	693.35	5	
U	238	175	He	0.005	38.48	8176.06	5	

QC ISTD Table

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Sc (No He)	45	No Gas	1609346.12	1.26	1630245.08	98.72	60	120	
Sc	45	He	18042.29	1.58	18475.0233333333	97.66	60	120	
Ge	72	He	20127.49	1.47	20319.9766666667	99.05	60	120	
Rh	103	He	785926.37	0.47	806457.853333333	97.45	60	120	

Sample Report

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Lu	175	He	388341.66	1.09	359260.163333333	108.09	60	120	

Continuing Calibration Verification (CCV) Report

Sample Name	CCV
File Name	171_CCV.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\103114ICPMS8.b
Acq Time	2014-10-31 17:34:46
Sample Type	CCV
Total Dilution	1.0000
Comment	---
ISTD Ref FileName	002CALB.d
Sample QC Pass/Fial	Fail
ISTD QC Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD	Tune Mode	Conc.	Conc. RSD	CPS	ExpValue	% Rec	%QC Low	%QC High	QC Flag
Be	9	45	He	0.098	0.53	1352.06	0.9	10.88	10	10	
Na	23	45	He	9.842	1.02	1623642.16	0.9	1093.58	1000	1000	
Mg	24	45	He	9.638	0.96	712864.15	0.9	1070.84	1000	1000	
Al	27	45	He	0.975	2.42	16305.83	0.9	108.35	100	100	
K	39	45	He	9.694	0.92	435332.66	0.9	1077.08	1000	1000	
Ca	43	45	He	9.727	2.98	1538.31	0.9	1080.73	1000	1000	
Ti	47	45	He	0.103	6.75	2590.29	0.9	11.42	10	10	
V	51	45	He	0.098	0.88	138047.10	0.9	10.85	10	10	
Cr	52	45	He	0.097	0.74	184955.15	0.9	10.73	10	10	
Mn	55	72	He	0.095	1.93	58695.25	0.9	10.59	10	10	
Fe	56	72	He	0.948	1.78	1331517.69	0.9	105.32	100	100	
Co	59	72	He	0.096	2.28	398435.07	0.9	10.71	10	10	
Ni	60	72	He	0.096	2.49	116617.73	0.9	10.65	10	10	
Cu	63	72	He	0.096	3.07	343786.38	0.9	10.71	10	10	
Zn	66	72	He	0.095	2.70	33405.72	0.9	10.56	10	10	
As	75	72	He	0.094	2.27	22430.83	0.9	10.49	10	10	
Se	78	72	He	0.092	3.55	586.90	0.9	10.27	10	10	
Sr	88	72	He	0.097	0.69	59421.33	0.9	10.73	10	10	
Mo	95	72	He	0.098	3.64	136787.74	0.9	10.93	10	10	
Ag	107	103	He	0.101	0.47	540002.58	0.9	11.27	10	10	
Cd	111	103	He	0.099	1.35	51746.51	0.9	10.97	10	10	
Sn	118	103	He	0.101	1.11	92483.07	0.9	11.23	10	10	
Sb	121	103	He	0.100	0.75	121094.31	0.9	11.13	10	10	
Ba	137	103	He	0.104	1.72	38213.33	0.9	11.6	10	10	
Tl	205	175	He	0.099	0.68	1088511.36	0.9	11.05	10	10	
Pb	208	175	He	0.102	0.16	1402130.40	0.9	11.3	10	10	
U	238	175	He	0.144	0.46	1459070.76	0.9	15.95	10	10	CCV Main CR1 Failed

QC ISTD Table

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Sc (No He)	45	No Gas	1737688.52	2.68	1630245.08	106.59	60	120	
Sc	45	He	19074.69	0.75	18475.0233333333	103.25	60	120	

Continuing Calibration Verification (CCV) Report

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Ge	72	He	21156.72	1.97	20319.9766666667	104.12	60	120	
Rh	103	He	832268.42	0.19	806457.853333333	103.2	60	120	
Lu	175	He	407146.62	0.79	359260.163333333	113.33	60	120	

Continuing Calibration Blank (CCB) Report

Sample Name	CCB
File Name	172_CCB.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\103114ICPMS8.b
Acq Time	2014-10-31 17:36:14
Sample Type	CCB
Total Dilution	1.0000
Comment	---
ISTD Ref FileName	002CALB.d
Sample QC Pass/Fial	Pass
ISTD QC Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD	Tune Mode	Conc.	Conc. RSD	CPS	Limit	QC Flag
Be	9	45	He	0.000	57.20	2.67	0.00075	
Na	23	45	He	0.059	2.34	25869.67	0.75	
Mg	24	45	He	0.010	2.98	763.37	0.75	
Al	27	45	He	0.001	90.33	36.67	0.0375	
K	39	45	He	-0.003	-139.78	6024.67	0.75	
Ca	43	45	He	0.031	62.71	9.78	0.75	
Ti	47	45	He	0.000	99.68	10.00	0.0075	
V	51	45	He	0.000	6.61	113.33	0.0015	
Cr	52	45	He	0.000	-78.22	1473.43	0.00075	
Mn	55	72	He	0.000	30.20	120.00	0.0015	
Fe	56	72	He	0.001	20.21	6271.49	0.0375	
Co	59	72	He	0.000	29.11	283.34	0.00075	
Ni	60	72	He	0.000	83.31	166.67	0.00075	
Cu	63	72	He	0.000	2.74	506.68	0.0015	
Zn	66	72	He	0.000	38.07	246.67	0.0075	
As	75	72	He	0.000	18.08	17.33	0.00075	
Se	78	72	He	0.000	787.78	4.89	0.00075	
Sr	88	72	He	0.000	39.74	140.00	0.0075	
Mo	95	72	He	0.000	15.16	126.67	0.0015	
Ag	107	103	He	0.000	15.56	443.35	0.000375	
Cd	111	103	He	0.000	23.84	48.67	0.000375	
Sn	118	103	He	0.000	41.35	93.33	0.00075	
Sb	121	103	He	0.000	79.11	196.67	0.00075	
Ba	137	103	He	0.000	10.59	56.67	0.0015	
Tl	205	175	He	0.000	1.64	716.70	0.00075	
Pb	208	175	He	0.000	6.22	1433.40	0.00075	
U	238	175	He	0.000	9.67	1170.08	0.0075	

QC ISTD Table

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Sc (No He)	45	No Gas	1681103.83	0.94	1630245.08	103.12	60	120	
Sc	45	He	18656.38	0.55	18475.0233333333	100.98	60	120	
Ge	72	He	20192.02	1.32	20319.9766666667	99.37	60	120	
Rh	103	He	833351.97	0.48	806457.853333333	103.33	60	120	

Continuing Calibration Blank (CCB) Report

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Lu	175	He	395159.84	1.61	359260.163333333	109.99	60	120	

Low Level Continuing Calibration Verification(LLCCV) Report

Sample Name	LLCCV
File Name	173LCCV.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\103114ICPMS8.b
Acq Time	2014-10-31 17:37:39
Sample Type	LLCCV
Total Dilution	1.0000
Comment	---
ISTD Ref FileName	002CALB.d
Sample QC Pass/Fial	Fail
ISTD QC Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD	Tune Mode	Conc.	Conc. RSD	CPS	ExpValue	% Rec	%QC Low	%QC High	QC Flag
Be	9	45	He	0.001	35.61	19.00	0.001	142.46	70	130	LLCCV Main CR1 Failed
V	51	45	He	0.002	10.40	2766.98	0.002	100.2	70	130	
Cr	52	45	He	0.001	10.83	3073.71	0.001	81.71	70	130	
Mn	55	72	He	0.002	9.01	1210.08	0.002	95.91	70	130	
Co	59	72	He	0.001	5.29	4043.96	0.001	99.77	70	130	
Ni	60	72	He	0.001	7.84	1366.75	0.001	106.46	70	130	
Cu	63	72	He	0.001	9.64	3907.27	0.001	107.78	70	130	
Zn	66	72	He	0.010	2.35	3620.52	0.01	102.1	70	130	
As	75	72	He	0.001	5.61	227.56	0.001	97.71	70	130	
Se	78	72	He	0.001	101.70	8.67	0.001	64.73	70	130	LLCCV Main CR1 Failed
Mo	95	72	He	0.002	2.63	2756.99	0.002	102.01	70	130	
Ag	107	103	He	0.001	5.68	2907.02	0.0005	109.5	70	130	
Cd	111	103	He	0.000	7.18	237.33	0.0005	90.79	70	130	
Sn	118	103	He	0.001	20.76	810.04	0.001	86.44	70	130	
Sb	121	103	He	0.001	5.69	1350.09	0.001	104.19	70	130	
Ba	137	103	He	0.002	9.33	816.71	0.002	112.17	70	130	
Tl	205	175	He	0.001	3.59	10814.66	0.001	101.97	70	130	
Pb	208	175	He	0.001	2.42	14756.90	0.001	109.94	70	130	

QC ISTD Table

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Sc (No He)	45	No Gas	1685892.63	2.91	1630245.08	103.41	60	120	
Sc	45	He	18461.70	1.92	18475.0233333333	99.93	60	120	
Ge	72	He	20561.46	1.89	20319.9766666667	101.19	60	120	
Rh	103	He	827734.91	0.45	806457.853333333	102.64	60	120	
Lu	175	He	394287.65	2.24	359260.163333333	109.75	60	120	

Continuing Calibration Verification (CCV) Report

Sample Name	CCV
File Name	182_CCV.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\103114ICPMS8.b
Acq Time	2014-10-31 17:50:54
Sample Type	CCV
Total Dilution	1.0000
Comment	---
ISTD Ref FileName	002CALB.d
Sample QC Pass/Fial	Fail
ISTD QC Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD	Tune Mode	Conc.	Conc. RSD	CPS	ExpValue	% Rec	%QC Low	%QC High	QC Flag
Be	9	45	He	0.104	3.42	1442.07	0.9	11.6	10	10	
Na	23	45	He	9.998	2.42	1650243.05	0.9	1110.85	1000	1000	
Mg	24	45	He	9.884	3.11	731597.91	0.9	1098.27	1000	1000	
Al	27	45	He	0.961	3.62	16075.66	0.9	106.75	100	100	
K	39	45	He	9.809	2.14	440783.35	0.9	1089.89	1000	1000	
Ca	43	45	He	9.867	1.12	1562.31	0.9	1096.35	1000	1000	
Ti	47	45	He	0.104	2.94	2633.61	0.9	11.6	10	10	
V	51	45	He	0.100	2.46	140731.92	0.9	11.06	10	10	
Cr	52	45	He	0.099	1.61	188861.29	0.9	10.95	10	10	
Mn	55	72	He	0.097	0.90	59582.51	0.9	10.8	10	10	
Fe	56	72	He	0.984	0.94	1375579.87	0.9	109.29	100	100	
Co	59	72	He	0.100	1.13	411602.64	0.9	11.11	10	10	
Ni	60	72	He	0.100	1.28	121268.25	0.9	11.12	10	10	
Cu	63	72	He	0.100	1.43	355790.46	0.9	11.13	10	10	
Zn	66	72	He	0.097	1.90	33926.92	0.9	10.77	10	10	
As	75	72	He	0.097	0.78	23013.10	0.9	10.8	10	10	
Se	78	72	He	0.101	4.54	639.13	0.9	11.25	10	10	
Sr	88	72	He	0.098	1.36	60328.28	0.9	10.94	10	10	
Mo	95	72	He	0.103	1.56	142809.24	0.9	11.46	10	10	
Ag	107	103	He	0.104	0.37	568511.67	0.9	11.56	10	10	
Cd	111	103	He	0.100	0.62	53621.51	0.9	11.08	10	10	
Sn	118	103	He	0.102	1.73	95902.79	0.9	11.35	10	10	
Sb	121	103	He	0.102	0.56	126626.78	0.9	11.35	10	10	
Ba	137	103	He	0.101	1.27	38116.67	0.9	11.28	10	10	
Tl	205	175	He	0.103	0.69	1139231.02	0.9	11.4	10	10	
Pb	208	175	He	0.105	0.69	1467660.42	0.9	11.65	10	10	
U	238	175	He	0.148	0.58	1530090.03	0.9	16.48	10	10	CCV Main CR1 Failed

QC ISTD Table

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Sc (No He)	45	No Gas	1804783.67	0.91	1630245.08	110.71	60	120	
Sc	45	He	19094.71	2.15	18475.0233333333	103.35	60	120	

Continuing Calibration Verification (CCV) Report

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Ge	72	He	21064.39	1.34	20319.9766666667	103.66	60	120	
Rh	103	He	853649.81	0.71	806457.853333333	105.85	60	120	
Lu	175	He	413291.75	0.74	359260.163333333	115.04	60	120	

Continuing Calibration Blank (CCB) Report

Sample Name	CCB
File Name	183_CCB.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\103114ICPMS8.b
Acq Time	2014-10-31 17:52:21
Sample Type	CCB
Total Dilution	1.0000
Comment	---
ISTD Ref FileName	002CALB.d
Sample QC Pass/Fial	Pass
ISTD QC Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD	Tune Mode	Conc.	Conc. RSD	CPS	Limit	QC Flag
Be	9	45	He	0.000	100.83	1.00	0.00075	
Na	23	45	He	0.039	19.20	22677.59	0.75	
Mg	24	45	He	0.007	18.18	566.69	0.75	
Al	27	45	He	0.001	78.41	33.33	0.0375	
K	39	45	He	-0.011	-29.80	5661.18	0.75	
Ca	43	45	He	0.034	86.52	10.22	0.75	
Ti	47	45	He	0.001	115.21	13.33	0.0075	
V	51	45	He	0.000	23.36	126.67	0.0015	
Cr	52	45	He	0.000	-22.66	1300.08	0.00075	
Mn	55	72	He	0.000	12.23	116.67	0.0015	
Fe	56	72	He	0.001	16.28	6188.07	0.0375	
Co	59	72	He	0.000	16.77	233.34	0.00075	
Ni	60	72	He	0.000	35.51	236.67	0.00075	
Cu	63	72	He	0.000	9.97	643.36	0.0015	
Zn	66	72	He	0.000	103.10	196.67	0.0075	
As	75	72	He	0.000	13.00	22.66	0.00075	
Se	78	72	He	0.000	283.43	5.78	0.00075	
Sr	88	72	He	0.000	50.48	173.34	0.0075	
Mo	95	72	He	0.000	71.48	133.34	0.0015	
Ag	107	103	He	0.000	7.91	443.35	0.000375	
Cd	111	103	He	0.000	27.33	41.33	0.000375	
Sn	118	103	He	0.000	24.72	130.00	0.00075	
Sb	121	103	He	0.000	31.74	210.01	0.00075	
Ba	137	103	He	0.000	16.64	33.33	0.0015	
Tl	205	175	He	0.000	8.56	606.69	0.00075	
Pb	208	175	He	0.000	4.50	1343.39	0.00075	
U	238	175	He	0.000	20.99	1133.40	0.0075	

QC ISTD Table

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Sc (No He)	45	No Gas	1675693.36	2.44	1630245.08	102.79	60	120	
Sc	45	He	18609.69	1.27	18475.0233333333	100.73	60	120	
Ge	72	He	20505.80	1.79	20319.9766666667	100.91	60	120	
Rh	103	He	837700.38	0.65	806457.853333333	103.87	60	120	

Continuing Calibration Blank (CCB) Report

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Lu	175	He	395427.93	1.72	359260.163333333	110.07	60	120	

Low Level Continuing Calibration Verification(LLCCV) Report

Sample Name	LLCCV
File Name	205LCCV.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\103114ICPMS8.b
Acq Time	2014-10-31 18:24:22
Sample Type	LLCCV
Total Dilution	1.0000
Comment	---
ISTD Ref FileName	002CALB.d
Sample QC Pass/Fial	Fail
ISTD QC Pass/Fail	Fail

QC Analyte Table

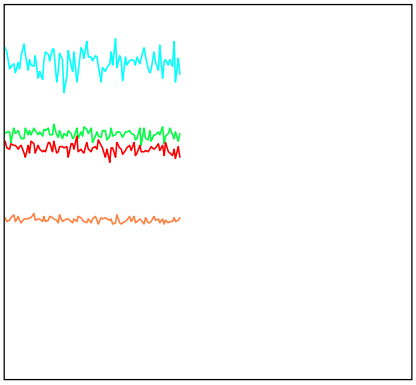
Name	Mass	ISTD	Tune Mode	Conc.	Conc. RSD	CPS	ExpValue	% Rec	%QC Low	%QC High	QC Flag
Be	9	45	He	0.001	52.49	17.67	0.001	129.55	70	130	
V	51	45	He	0.002	6.63	2726.97	0.002	96.22	70	130	
Cr	52	45	He	0.001	5.56	2826.99	0.001	64.68	70	130	LLCCV Main CR1 Failed
Mn	55	72	He	0.002	3.63	1176.74	0.002	89.81	70	130	
Co	59	72	He	0.001	4.57	4230.68	0.001	100.82	70	130	
Ni	60	72	He	0.001	10.35	1470.10	0.001	111.11	70	130	
Cu	63	72	He	0.001	5.12	3907.27	0.001	103.81	70	130	
Zn	66	72	He	0.010	5.41	3600.53	0.01	97.91	70	130	
As	75	72	He	0.001	5.01	240.00	0.001	99.6	70	130	
Se	78	72	He	0.001	40.44	9.78	0.001	77.26	70	130	
Mo	95	72	He	0.002	1.38	2750.31	0.002	98.32	70	130	
Ag	107	103	He	0.001	3.64	2930.37	0.0005	105.39	70	130	
Cd	111	103	He	0.001	10.07	283.33	0.0005	103.56	70	130	
Sn	118	103	He	0.001	11.13	960.05	0.001	98.2	70	130	
Sb	121	103	He	0.001	5.38	1323.42	0.001	96.97	70	130	
Ba	137	103	He	0.002	9.24	773.37	0.002	101.45	70	130	
Tl	205	175	He	0.001	0.93	11858.85	0.001	102.06	70	130	
Pb	208	175	He	0.001	3.22	16237.65	0.001	110.44	70	130	

QC ISTD Table

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Sc (No He)	45	No Gas	1809766.43	1.29	1630245.08	111.01	60	120	
Sc	45	He	18913.40	1.19	18475.0233333333	102.37	60	120	
Ge	72	He	21276.92	1.48	20319.9766666667	104.71	60	120	
Rh	103	He	866923.68	1.28	806457.853333333	107.5	60	120	
Lu	175	He	431676.10	1.83	359260.163333333	120.16	60	120	ISTD Failed

Current Signal

[No Gas]



Mass	Range	Count	Avg. Count	RSD [%]
7	2000	1636	1696.1	3.36
59	20000	13158	13115.7	1.75
89	50000	21539	21257.0	1.56
205	20000	11891	12312.8	2.07
156/140	1	0.603 %	0.652 %	9.72
70/140	5	2.165 %	1.941 %	6.76
103	500	146	189.6	9.00
Integration Time [sec]		0.10		

Plasma Parameters

RF Power	1550	W	Nebulizer Pump	0.10	rps
RF Matching	1.60	V	S/C Temp	2	℃
Smpl Depth	10.0	mm	Gas Switch	Dilution Gas	
Carrier Gas	0.70	L/min	Makeup/Dilution Gas	0.35	L/min
Option Gas	0.0	%			

Lenses Parameters

Extract 1	0.0	V	Cell Entrance	-30	V
Extract 2	-200.0	V	Cell Exit	-52	V
Omega Bias	-80	V	Deflect	15.4	V
Omega Lens	8.8	V	Plate Bias	-40	V

Cell Parameters

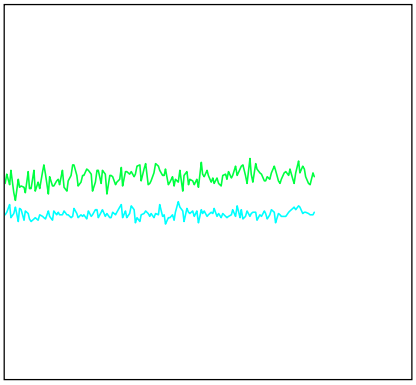
Use Gas	false		OctP Bias	-8.0	V
He Flow	5.0	mL/min	OctP RF	150	V
H2 Flow	0.0	mL/min	Energy Discrimination	5.0	V
3rd Gas Flow	0	%			

Meters

IF/BK Press	1.71E+2	Pa	S/C Temp (L)	2.0	℃
Water RF/WC/IF	1.41	L/min	Carrier Gas(BP)	2.64E+2	kPa
Ar Gas Tank Press	6.01E+2	kPa			

Current Signal

[He]



Mass	Range	Count	Avg. Count	RSD [%]
59	5000	2233	2202.5	2.53
89	2000	1084	1079.7	3.91
51/59	1	0.179 %	0.173 %	52.23
75	20	0	0.2	247.45
78	20	1	0.7	138.72
Integration Time [sec]			0.10	

Plasma Parameters

RF Power	1550	W	Nebulizer Pump	0.10	rps
RF Matching	1.60	V	S/C Temp	2	℃
Smpl Depth	10.0	mm	Gas Switch	Dilution Gas	
Carrier Gas	0.70	L/min	Makeup/Dilution Gas	0.35	L/min
Option Gas	0.0	%			

Lenses Parameters

Extract 1	0.0	V	Cell Entrance	-36	V
Extract 2	-200.0	V	Cell Exit	-64	V
Omega Bias	-80	V	Deflect	4.0	V
Omega Lens	8.8	V	Plate Bias	-60	V

Cell Parameters

Use Gas	true		OctP Bias	-18.0	V
He Flow	4.8	mL/min	OctP RF	150	V
H2 Flow	0.0	mL/min	Energy Discrimination	5.0	V
3rd Gas Flow	0	%			

Meters

IF/BK Press	1.72E+2	Pa	S/C Temp (L)	1.9	℃
Water RF/WC/IF	1.40	L/min	Carrier Gas(BP)	2.63E+2	kPa
Ar Gas Tank Press	6.01E+2	kPa			

Tune Report

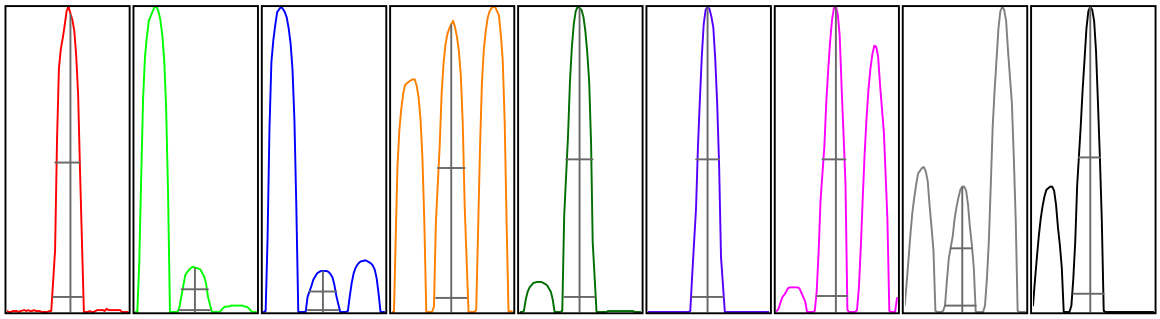
Batch Folder C:\Agilent\ICPMH\1\DATA\110514ICPMS8.b
Acq. Date-Time 2014-11-05 11:04
Report Comment
Instrument Name G8403A JP14080166

[No Gas]

Mass	RSD % (Actual)	RSD % (Required)	RSD % (Flag)
9	2.05	5.00	
24	1.31	5.00	
25	1.21	5.00	
26	2.30	5.00	
59	0.54	5.00	
115	2.36	5.00	
206	1.79	5.00	
207	2.11	5.00	
208	1.86	5.00	

Mass	Rep. 1 Count	Rep. 2 Count	Rep. 3 Count	Rep. 4 Count	Rep. 5 Count
9	4042	4225	4179	4247	4246
24	31913	32251	32776	32931	32738
25	4506	4542	4535	4649	4580
26	5443	5442	5475	5733	5607
59	77878	77634	77280	77668	76808
115	100893	103558	105638	106986	106297
206	19197	19322	19656	19939	19968
207	16785	16935	17266	17562	17592
208	39958	40820	41513	41636	41812

Integration Time [sec] 0.1



Mass	Peak Height	Axis (Actual)	Axis (Required)	Axis (Flag)	W-50 %	W-5 % (Actual)	W-5 % (Required)	W-5 % (Flag)
9	726.89	9.10	8.9 - 9.1		0.60	0.733	0.850	
24	5334.62	24.00	23.9 - 24.1		0.63	0.772	0.850	
25	725.14	25.00	24.9 - 25.1		0.65	0.787	0.850	
26	902.39	26.00	25.9 - 26.1		0.64	0.788	0.850	
59	13061.37	59.00	58.9 - 59.1		0.62	0.782	0.850	
115	19797.36	115.00	114.9 - 115.1		0.56	0.767	0.850	
206	3813.01	206.00	205.9 - 206.1		0.54	0.758	0.850	
207	3323.04	206.95	206.9 - 207.1		0.54	0.741	0.850	
208	8046.87	207.95	207.9 - 208.1		0.53	0.768	0.850	

Tune Report

Integration Time [sec] 0.1 **Acquisition Time [sec]** 212.5 **Y Axis** Linear

Tune Parameters
Plasma Paramters

RF Power	1550 W	Nebulizer Pump	0.10 rps
RF Matching	1.60 V	S/C Temp	2 ℃
Smpl Depth	10.0 mm	Gas Switch	Dilution Gas
Carrier Gas	0.70 L/min	Makeup/Dilution Gas	0.35 L/min
Option Gas	0.0 %		

Lenses Parameters

Extract 1	0.0 V	Cell Entrance	-30 V
Extract 2	-200.0 V	Cell Exit	-52 V
Omega Bias	-80 V	Deflect	15.4 V
Omega Lens	8.8 V	Plate Bias	-40 V

Cell Parameters

Use Gas	false	OctP Bias	-8.0 V
He Flow	0.0 mL/min	OctP RF	150 V
H2 Flow	0.0 mL/min	Energy Discrimination	5.0 V
3rd Gas Flow	0 %		

Calibration Blank Report

Sample Name	CALBLK 14K05174
File Name	001CALB.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\110514ICPMS8.b
Acq Time	2014-11-05 12:31:21
Sample Type	CalBlk
Total Dilution	1.0000
Comment	---
ISTD Ref FileName	001CALB.d
Sample QC Pass/Fial	Pass
ISTD QC Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD	Tune Mode	CPS	CPS RSD
B	11	45	No Gas	158.67	13.36
Na	23	45	He	10754.12	3.99
Mg	24	45	He	50.00	52.92
Al	27	45	He	33.33	17.32
K	39	45	He	9019.62	3.56
Ca	43	45	He	16.67	24.25
Ti	47	45	He	3.33	173.21
V	51	45	He	40.00	43.30
Cr	52	45	He	1196.74	10.91
Mn	55	72	He	33.33	17.32
Fe	56	72	He	8042.37	3.46
Co	59	72	He	30.00	88.19
Ni	60	72	He	100.00	30.00
Cu	63	72	He	123.33	9.36
Zn	66	72	He	183.34	16.67
As	75	72	He	2.67	50.06
Se	78	72	He	8.00	12.50
Sr	88	72	He	63.33	32.87
Cd	111	103	He	2.67	86.60
Sn	118	103	He	50.00	52.92
Sb	121	103	He	223.34	14.39
Ba	137	103	He	3.33	173.21
Tl	205	175	He	23.33	89.21
Pb	208	175	He	83.33	59.19
U	238	175	He	3.33	173.21

QC ISTD Table

Name	Mass	Tune Mode	CPS	CPS RSD
Sc (No He)	45	No Gas	1212748.71	0.45
Sc	45	He	17761.95	1.47
Ge	72	He	18778.99	1.99
Rh	103	He	671398.35	0.52
Lu	175	He	342288.19	1.37

Calibration Blank Report

Sample Name	CALBLK 14K05174
File Name	002CALB.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\110514ICPMS8.b
Acq Time	2014-11-05 12:33:02
Sample Type	CalBlk
Total Dilution	1.0000
Comment	---
ISTD Ref FileName	002CALB.d
Sample QC Pass/Fial	Pass
ISTD QC Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD	Tune Mode	CPS	CPS RSD
B	11	45	No Gas	175.33	6.49
Na	23	45	He	10844.17	4.91
Mg	24	45	He	60.00	76.38
Al	27	45	He	20.00	86.60
K	39	45	He	8972.89	3.89
Ca	43	45	He	11.67	17.84
Ti	47	45	He	3.33	173.21
V	51	45	He	23.33	49.49
Cr	52	45	He	1056.72	3.94
Mn	55	72	He	46.67	44.61
Fe	56	72	He	6124.74	4.03
Co	59	72	He	10.00	0.00
Ni	60	72	He	86.67	13.32
Cu	63	72	He	110.00	18.18
Zn	66	72	He	230.01	15.68
As	75	72	He	2.67	50.06
Se	78	72	He	8.67	24.02
Sr	88	72	He	70.00	14.29
Mo	95	72	He	3.33	173.21
Cd	111	103	He	3.33	91.65
Sn	118	103	He	23.33	24.74
Sb	121	103	He	193.34	11.95
Tl	205	175	He	26.67	21.65
Pb	208	175	He	70.00	24.74
U	238	175	He	3.33	173.21

QC ISTD Table

Name	Mass	Tune Mode	CPS	CPS RSD
Sc (No He)	45	No Gas	1215719.93	0.81
Sc	45	He	15722.95	3.06
Ge	72	He	17393.94	3.34
Rh	103	He	615588.42	1.93
Lu	175	He	313501.62	2.89

Calibration Standard Report

Sample Name	STD1 14K05175
File Name	003CALS.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\110514ICPMS8.b
Acq Time	2014-11-05 12:34:42
Sample Type	CalStd
Total Dilution	1.0000
Comment	---
ISTD Ref FileName	002CALB.d
Sample QC Pass/Fial	Pass
ISTD QC Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD	Tune Mode	CPS	CPS RSD
B	11	45	No Gas	473.34	10.08
Be	9	45	He	7.33	47.89
Na	23	45	He	18254.83	0.78
Mg	24	45	He	3697.20	4.19
Al	27	45	He	116.67	13.09
K	39	45	He	11057.70	1.29
Ca	43	45	He	18.67	13.48
Ti	47	45	He	13.33	43.30
V	51	45	He	686.70	3.66
Cr	52	45	He	2216.88	2.27
Mn	55	72	He	346.68	8.81
Fe	56	72	He	28815.64	2.04
Co	59	72	He	1813.48	9.87
Ni	60	72	He	613.35	8.21
Cu	63	72	He	1840.15	11.45
Zn	66	72	He	386.68	1.49
As	75	72	He	115.11	15.73
Se	78	72	He	11.00	24.05
Sr	88	72	He	356.68	18.03
Mo	95	72	He	610.02	16.15
Ag	107	103	He	2483.61	6.29
Cd	111	103	He	242.00	18.41
Sn	118	103	He	503.36	9.80
Sb	121	103	He	946.72	2.66
Ba	137	103	He	186.67	11.15
Tl	205	175	He	4294.12	2.56
Pb	208	175	He	5803.97	7.75
U	238	175	He	5608.02	2.09

QC ISTD Table

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Sc (No He)	45	No Gas	1236534.64	0.37	1215719.92666667	101.71	60	120	
Sc	45	He	17879.88	1.66	15722.9533333333	113.72	60	120	
Ge	72	He	19051.56	1.68	17393.9433333333	109.53	60	120	

Calibration Standard Report

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Rh	103	He	688062.05	1.52	615588.416666667	111.77	60	120	
Lu	175	He	350953.19	0.78	313501.616666667	111.95	60	120	

Calibration Blank Report

Sample Name	CALBLK 14K05174
File Name	004CALB.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\110514ICPMS8.b
Acq Time	2014-11-05 12:36:41
Sample Type	CalBlk
Total Dilution	1.0000
Comment	---
ISTD Ref FileName	004CALB.d
Sample QC Pass/Fial	Pass
ISTD QC Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD	Tune Mode	CPS	CPS RSD
B	11	45	No Gas	215.33	5.68
Na	23	45	He	11387.94	4.53
Mg	24	45	He	63.33	24.12
Al	27	45	He	43.33	13.32
K	39	45	He	8809.50	2.77
Ca	43	45	He	14.33	44.85
V	51	45	He	36.67	41.66
Cr	52	45	He	1113.40	11.72
Mn	55	72	He	36.67	103.25
Fe	56	72	He	6441.53	3.64
Co	59	72	He	36.67	56.77
Ni	60	72	He	106.67	39.03
Cu	63	72	He	146.67	14.19
Zn	66	72	He	210.00	17.17
As	75	72	He	3.11	137.84
Se	78	72	He	8.00	33.07
Sr	88	72	He	86.67	17.63
Mo	95	72	He	6.67	86.60
Ag	107	103	He	6.67	173.21
Cd	111	103	He	2.67	86.60
Sn	118	103	He	33.33	69.28
Sb	121	103	He	183.34	41.30
Ba	137	103	He	3.33	173.21
Tl	205	175	He	36.67	41.66
Pb	208	175	He	110.00	32.78
U	238	175	He	3.33	173.21

QC ISTD Table

Name	Mass	Tune Mode	CPS	CPS RSD
Sc (No He)	45	No Gas	1212885.92	0.67
Sc	45	He	17808.68	2.39
Ge	72	He	19508.85	1.76
Rh	103	He	685031.89	0.53
Lu	175	He	351241.55	0.51

Calibration Standard Report

Sample Name	STD1 14K05175
File Name	005CALS.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\110514ICPMS8.b
Acq Time	2014-11-05 12:38:22
Sample Type	CalStd
Total Dilution	1.0000
Comment	---
ISTD Ref FileName	004CALB.d
Sample QC Pass/Fial	Pass
ISTD QC Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD	Tune Mode	CPS	CPS RSD
B	11	45	No Gas	563.34	6.45
Be	9	45	He	4.33	35.25
Na	23	45	He	18214.75	1.65
Mg	24	45	He	3683.85	5.49
Al	27	45	He	93.33	16.37
K	39	45	He	11227.77	4.46
Ca	43	45	He	23.33	17.84
Ti	47	45	He	13.33	43.30
V	51	45	He	616.70	19.21
Cr	52	45	He	2003.50	8.07
Mn	55	72	He	336.68	12.00
Fe	56	72	He	27202.58	2.21
Co	59	72	He	1866.82	3.44
Ni	60	72	He	640.03	5.63
Cu	63	72	He	1710.14	3.26
Zn	66	72	He	350.01	31.82
As	75	72	He	98.67	14.62
Se	78	72	He	11.33	45.28
Sr	88	72	He	393.34	5.29
Mo	95	72	He	643.36	14.94
Ag	107	103	He	2343.59	3.97
Cd	111	103	He	266.67	4.58
Sn	118	103	He	513.36	18.10
Sb	121	103	He	706.70	2.95
Ba	137	103	He	230.01	8.70
Tl	205	175	He	4244.10	7.90
Pb	208	175	He	5853.94	6.08
U	238	175	He	5527.94	7.50

QC ISTD Table

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Sc (No He)	45	No Gas	1207229.67	0.17	1212885.92	99.53	60	120	
Sc	45	He	17690.74	1.37	17808.6766666667	99.34	60	120	
Ge	72	He	19068.28	0.09	19508.8466666667	97.74	60	120	

Calibration Standard Report

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Rh	103	He	680767.54	0.42	685031.89	99.38	60	120	
Lu	175	He	349141.62	0.89	351241.546666667	99.4	60	120	

Calibration Standard Report

Sample Name	STD2 14K05175
File Name	006CALS.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\110514ICPMS8.b
Acq Time	2014-11-05 12:40:01
Sample Type	CalStd
Total Dilution	1.0000
Comment	---
ISTD Ref FileName	004CALB.d
Sample QC Pass/Fial	Pass
ISTD QC Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD	Tune Mode	CPS	CPS RSD
B	11	45	No Gas	857.36	4.79
Be	9	45	He	11.33	48.60
Na	23	45	He	25265.22	0.89
Mg	24	45	He	6851.69	1.25
Al	27	45	He	173.34	16.66
K	39	45	He	13706.61	0.58
Ca	43	45	He	25.00	21.17
Ti	47	45	He	26.67	43.30
V	51	45	He	1246.74	4.04
Cr	52	45	He	2740.30	2.63
Mn	55	72	He	666.69	12.93
Fe	56	72	He	21139.06	3.83
Co	59	72	He	3777.22	0.85
Ni	60	72	He	1126.73	2.71
Cu	63	72	He	3260.42	3.77
Zn	66	72	He	493.35	12.22
As	75	72	He	208.45	5.94
Se	78	72	He	14.67	20.83
Sr	88	72	He	686.70	9.36
Mo	95	72	He	1146.73	10.03
Ag	107	103	He	4650.84	1.97
Cd	111	103	He	486.68	7.54
Sn	118	103	He	933.38	16.26
Sb	121	103	He	1316.76	5.06
Ba	137	103	He	430.01	9.30
Tl	205	175	He	8943.17	0.97
Pb	208	175	He	11058.76	1.58
U	238	175	He	11008.22	5.26

QC ISTD Table

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Sc (No He)	45	No Gas	1215008.00	1.08	1212885.92	100.17	60	120	
Sc	45	He	17837.58	0.46	17808.6766666667	100.16	60	120	
Ge	72	He	19275.20	2.27	19508.8466666667	98.8	60	120	

Calibration Standard Report

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Rh	103	He	683539.63	0.66	685031.89	99.78	60	120	
Lu	175	He	348526.66	0.79	351241.546666667	99.23	60	120	

Calibration Standard Report

Sample Name	STD3 14K05175
File Name	007CALS.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\110514ICPMS8.b
Acq Time	2014-11-05 12:41:41
Sample Type	CalStd
Total Dilution	1.0000
Comment	---
ISTD Ref FileName	004CALB.d
Sample QC Pass/Fial	Pass
ISTD QC Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD	Tune Mode	CPS	CPS RSD
B	11	45	No Gas	6570.79	2.60
Be	9	45	He	112.33	11.13
Na	23	45	He	152905.34	0.47
Mg	24	45	He	68153.42	3.57
Al	27	45	He	1690.13	13.92
K	39	45	He	53591.38	0.15
Ca	43	45	He	157.67	12.51
Ti	47	45	He	290.01	18.25
V	51	45	He	12318.70	1.61
Cr	52	45	He	17607.68	1.03
Mn	55	72	He	5671.23	3.19
Fe	56	72	He	149154.65	2.68
Co	59	72	He	33759.84	1.36
Ni	60	72	He	10233.80	4.74
Cu	63	72	He	29550.62	1.78
Zn	66	72	He	3413.81	6.15
As	75	72	He	2059.27	2.33
Se	78	72	He	72.00	9.11
Sr	88	72	He	5841.32	3.14
Mo	95	72	He	11334.75	3.09
Ag	107	103	He	45480.58	2.46
Cd	111	103	He	4626.11	4.64
Sn	118	103	He	8889.69	7.25
Sb	121	103	He	11318.12	5.55
Ba	137	103	He	3513.84	4.28
Tl	205	175	He	83413.01	1.92
Pb	208	175	He	108048.06	1.73
U	238	175	He	105532.51	2.86

QC ISTD Table

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Sc (No He)	45	No Gas	1238913.94	1.17	1212885.92	102.15	60	120	
Sc	45	He	17957.74	3.06	17808.6766666667	100.84	60	120	
Ge	72	He	19575.60	1.23	19508.8466666667	100.34	60	120	

Calibration Standard Report

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Rh	103	He	685927.78	0.80	685031.89	100.13	60	120	
Lu	175	He	352770.69	0.75	351241.546666667	100.44	60	120	

Calibration Standard Report

Sample Name	STD4 14K05175
File Name	008CALS.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\110514ICPMS8.b
Acq Time	2014-11-05 12:45:14
Sample Type	CalStd
Total Dilution	1.0000
Comment	---
ISTD Ref FileName	004CALB.d
Sample QC Pass/Fial	Pass
ISTD QC Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD	Tune Mode	CPS	CPS RSD
B	11	45	No Gas	32179.83	0.79
Be	9	45	He	585.34	7.62
Na	23	45	He	705140.64	4.19
Mg	24	45	He	325598.46	5.34
Al	27	45	He	8382.52	6.71
K	39	45	He	222966.41	3.39
Ca	43	45	He	763.69	5.23
Ti	47	45	He	1130.07	32.53
V	51	45	He	59719.59	6.29
Cr	52	45	He	78947.76	5.81
Mn	55	72	He	27286.14	3.56
Fe	56	72	He	577260.19	6.98
Co	59	72	He	163659.41	5.29
Ni	60	72	He	48003.58	5.96
Cu	63	72	He	141309.08	6.21
Zn	66	72	He	14971.42	7.75
As	75	72	He	9989.27	4.27
Se	78	72	He	318.67	4.72
Sr	88	72	He	28929.94	6.63
Mo	95	72	He	55907.63	6.16
Ag	107	103	He	219772.41	3.96
Cd	111	103	He	22490.79	6.13
Sn	118	103	He	41328.47	5.37
Sb	121	103	He	56096.88	3.66
Ba	137	103	He	17204.42	6.47
Tl	205	175	He	407952.23	3.99
Pb	208	175	He	522838.66	4.60
U	238	175	He	508839.82	6.05

QC ISTD Table

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Sc (No He)	45	No Gas	1249662.40	1.22	1212885.92	103.03	60	120	
Sc	45	He	18289.25	0.35	17808.6766666667	102.7	60	120	
Ge	72	He	19201.75	0.57	19508.8466666667	98.43	60	120	

Calibration Standard Report

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Rh	103	He	690598.71	0.79	685031.89	100.81	60	120	
Lu	175	He	355524.15	1.49	351241.546666667	101.22	60	120	

Calibration Standard Report

Sample Name	STD5 14K05175
File Name	009CALS.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\110514ICPMS8.b
Acq Time	2014-11-05 12:46:55
Sample Type	CalStd
Total Dilution	1.0000
Comment	---
ISTD Ref FileName	004CALB.d
Sample QC Pass/Fial	Pass
ISTD QC Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD	Tune Mode	CPS	CPS RSD
B	11	45	No Gas	66231.01	0.63
Be	9	45	He	1124.04	2.85
Na	23	45	He	1466371.18	1.20
Mg	24	45	He	674115.02	1.32
Al	27	45	He	16876.53	0.50
K	39	45	He	455321.97	1.02
Ca	43	45	He	1561.75	5.23
Ti	47	45	He	2276.89	10.85
V	51	45	He	121541.76	2.23
Cr	52	45	He	163563.00	2.75
Mn	55	72	He	56429.93	2.53
Fe	56	72	He	1216677.90	2.65
Co	59	72	He	335894.81	1.21
Ni	60	72	He	98433.81	0.18
Cu	63	72	He	289275.45	2.35
Zn	66	72	He	31344.38	1.80
As	75	72	He	20969.96	2.32
Se	78	72	He	659.02	3.72
Sr	88	72	He	59946.75	2.13
Mo	95	72	He	116437.36	2.95
Ag	107	103	He	453288.64	0.93
Cd	111	103	He	47126.28	1.86
Sn	118	103	He	85994.88	2.77
Sb	121	103	He	115729.38	1.63
Ba	137	103	He	36391.84	4.21
Tl	205	175	He	849078.97	0.23
Pb	208	175	He	1089933.70	1.04
U	238	175	He	1068310.24	1.74

QC ISTD Table

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Sc (No He)	45	No Gas	1246754.38	0.52	1212885.92	102.79	60	120	
Sc	45	He	18160.20	1.17	17808.6766666667	101.97	60	120	
Ge	72	He	19507.74	1.14	19508.8466666667	99.99	60	120	

Calibration Standard Report

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Rh	103	He	689422.65	0.69	685031.89	100.64	60	120	
Lu	175	He	358212.95	1.31	351241.546666667	101.98	60	120	

Calibration Standard Report

Sample Name	STD6 14K05175
File Name	010CALS.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\110514ICPMS8.b
Acq Time	2014-11-05 12:48:32
Sample Type	CalStd
Total Dilution	1.0000
Comment	---
ISTD Ref FileName	004CALB.d
Sample QC Pass/Fial	Pass
ISTD QC Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD	Tune Mode	CPS	CPS RSD
B	11	45	No Gas	138317.98	1.29
Be	9	45	He	2363.19	3.15
Na	23	45	He	2972685.48	0.97
Mg	24	45	He	1419469.67	1.74
Al	27	45	He	35726.84	0.97
K	39	45	He	931522.90	0.80
Ca	43	45	He	3297.71	1.00
Ti	47	45	He	5121.01	1.92
V	51	45	He	259910.97	0.63
Cr	52	45	He	341255.97	1.86
Mn	55	72	He	118471.80	1.38
Fe	56	72	He	2525586.58	1.87
Co	59	72	He	702141.37	1.51
Ni	60	72	He	205450.27	1.10
Cu	63	72	He	602745.36	1.51
Zn	66	72	He	63108.22	0.81
As	75	72	He	43964.42	1.18
Se	78	72	He	1404.74	3.72
Sr	88	72	He	125919.22	2.40
Mo	95	72	He	245922.31	1.16
Ag	107	103	He	940258.40	0.85
Cd	111	103	He	97834.73	1.59
Sn	118	103	He	181273.05	1.44
Sb	121	103	He	237070.21	0.51
Ba	137	103	He	76556.36	0.49
Tl	205	175	He	1763503.98	1.05
Pb	208	175	He	2264064.52	2.06
U	238	175	He	2356088.04	2.03

QC ISTD Table

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Sc (No He)	45	No Gas	1259598.34	1.86	1212885.92	103.85	60	120	
Sc	45	He	18487.28	0.56	17808.6766666667	103.81	60	120	
Ge	72	He	19200.69	1.06	19508.8466666667	98.42	60	120	

Calibration Standard Report

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Rh	103	He	687701.53	0.29	685031.89	100.39	60	120	
Lu	175	He	364538.16	0.51	351241.546666667	103.79	60	120	

Calibration Standard Report

Sample Name	STD6 14K05175
File Name	011CALS.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\110514ICPMS8.b
Acq Time	2014-11-05 12:53:34
Sample Type	CalStd
Total Dilution	1.0000
Comment	---
ISTD Ref FileName	004CALB.d
Sample QC Pass/Fial	Pass
ISTD QC Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD	Tune Mode	CPS	CPS RSD
B	11	45	No Gas	131142.50	0.60
Be	9	45	He	2273.17	4.01
Na	23	45	He	2823853.81	0.15
Mg	24	45	He	1368759.88	1.41
Al	27	45	He	34965.00	1.50
K	39	45	He	894360.07	0.78
Ca	43	45	He	3213.69	2.39
Ti	47	45	He	4864.24	1.57
V	51	45	He	248282.86	0.90
Cr	52	45	He	330444.21	1.29
Mn	55	72	He	113837.96	1.08
Fe	56	72	He	2434291.68	1.70
Co	59	72	He	670596.92	0.62
Ni	60	72	He	195684.32	1.56
Cu	63	72	He	571975.82	0.66
Zn	66	72	He	60647.92	1.19
As	75	72	He	41961.07	0.39
Se	78	72	He	1305.40	3.15
Sr	88	72	He	119288.34	0.58
Mo	95	72	He	236220.67	0.16
Ag	107	103	He	908380.90	0.60
Cd	111	103	He	93542.34	1.28
Sn	118	103	He	171514.76	0.54
Sb	121	103	He	228822.99	0.34
Ba	137	103	He	73519.90	1.30
Tl	205	175	He	1685268.41	0.66
Pb	208	175	He	2163354.46	1.13
U	238	175	He	2260272.73	1.42

QC ISTD Table

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Sc (No He)	45	No Gas	1275871.49	2.27	1212885.92	105.19	60	120	
Sc	45	He	18453.90	1.58	17808.6766666667	103.62	60	120	
Ge	72	He	19641.28	1.00	19508.8466666667	100.68	60	120	

Calibration Standard Report

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Rh	103	He	697975.77	0.29	685031.89	101.89	60	120	
Lu	175	He	368138.89	0.70	351241.546666667	104.81	60	120	

Initial Calibration Verification (ICV) Report

Sample Name	ICV 14K05178
File Name	012_ICV.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\110514ICPMS8.b
Acq Time	2014-11-05 12:55:45
Sample Type	ICV
Total Dilution	1.0000
Comment	---
ISTD Ref FileName	004CALB.d
Sample QC Pass/Fial	Pass
ISTD QC Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD	Tune Mode	Conc.	Conc. RSD	CPS	ExpValue	% Rec	%QC Low	%QC High	QC Flag
B	11	45	No Gas	0.105	0.44	68199.14	0.9	11.69	10	10	
Be	9	45	He	0.106	4.39	1182.72	0.9	11.75	10	10	
Na	23	45	He	10.585	2.29	1486939.72	0.9	1176.16	1000	1000	
Mg	24	45	He	10.284	2.01	689877.07	0.9	1142.72	1000	1000	
Al	27	45	He	1.026	3.57	17533.99	0.9	113.99	100	100	
K	39	45	He	10.354	1.66	460514.15	0.9	1150.41	1000	1000	
Ca	43	45	He	10.166	1.58	1602.09	0.9	1129.6	1000	1000	
Ti	47	45	He	0.106	10.09	2510.26	0.9	11.83	10	10	
V	51	45	He	0.104	1.36	126435.95	0.9	11.55	10	10	
Cr	52	45	He	0.104	0.88	169587.34	0.9	11.6	10	10	
Mn	55	72	He	0.104	1.13	58333.87	0.9	11.54	10	10	
Fe	56	72	He	1.009	1.11	1214881.49	0.9	112.1	100	100	
Co	59	72	He	0.104	2.10	346020.67	0.9	11.59	10	10	
Ni	60	72	He	0.105	2.66	101383.65	0.9	11.63	10	10	
Cu	63	72	He	0.103	0.76	292517.41	0.9	11.46	10	10	
Zn	66	72	He	0.104	0.60	31364.42	0.9	11.52	10	10	
As	75	72	He	0.103	0.55	21380.80	0.9	11.47	10	10	
Se	78	72	He	0.110	1.36	712.02	0.9	12.2	10	10	
Sr	88	72	He	0.104	0.86	61547.04	0.9	11.58	10	10	
Mo	95	72	He	0.103	1.74	119485.37	0.9	11.42	10	10	
Ag	107	103	He	0.102	0.74	462398.86	0.9	11.38	10	10	
Cd	111	103	He	0.103	1.55	47937.04	0.9	11.44	10	10	
Sn	118	103	He	0.104	1.44	88597.68	0.9	11.54	10	10	
Sb	121	103	He	0.100	0.36	114267.13	0.9	11.12	10	10	
Ba	137	103	He	0.101	0.43	36762.82	0.9	11.21	10	10	
Tl	205	175	He	0.102	0.66	857666.58	0.9	11.37	10	10	
Pb	208	175	He	0.102	0.19	1098246.40	0.9	11.35	10	10	
U	238	175	He	0.098	0.62	1088266.88	0.9	10.93	10	10	

QC ISTD Table

Initial Calibration Verification (ICV) Report

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Sc (No He)	45	No Gas	1251974.43	0.76	1212885.92	103.22	60	120	
Sc	45	He	18120.15	1.72	17808.6766666667	101.75	60	120	
Ge	72	He	19397.56	1.79	19508.8466666667	99.43	60	120	
Rh	103	He	693097.86	1.03	685031.89	101.18	60	120	
Lu	175	He	363532.29	0.47	351241.546666667	103.5	60	120	

Initial Calibration Blank (ICB) Report

Sample Name	ICB 14K05174
File Name	013_ICB.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\110514ICPMS8.b
Acq Time	2014-11-05 12:57:12
Sample Type	ICB
Total Dilution	1.0000
Comment	---
ISTD Ref FileName	004CALB.d
Sample QC Pass/Fial	Pass
ISTD QC Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD	Tune Mode	Conc.	Conc. RSD	CPS	Limit	QC Flag
B	11	45	No Gas	0.008	3.25	5501.69	0.015	
Be	9	45	He	0.000	-78865.50	0.33	0.00075	
Na	23	45	He	0.000	-1425.97	11417.89	0.75	
Mg	24	45	He	0.003	24.11	256.67	0.75	
Al	27	45	He	-0.001	-1.58	20.00	0.0375	
K	39	45	He	0.006	4.47	9122.97	0.75	
Ca	43	45	He	0.008	211.35	15.67	0.75	
Ti	47	45	He	0.000	173.21	6.67	0.0075	
V	51	45	He	0.000	77.22	76.67	0.0015	
Cr	52	45	He	0.000	284.76	1190.07	0.00075	
Mn	55	72	He	0.000	136.04	53.33	0.0015	
Fe	56	72	He	0.000	115.16	6561.62	0.0375	
Co	59	72	He	0.000	31.42	100.00	0.00075	
Ni	60	72	He	0.000	85.58	156.67	0.00075	
Cu	63	72	He	0.000	45.58	270.01	0.0015	
Zn	66	72	He	0.000	-871.29	200.01	0.0075	
As	75	72	He	0.000	50.26	12.00	0.00075	
Se	78	72	He	0.000	75.62	9.00	0.00075	
Sr	88	72	He	0.000	145.39	93.33	0.0075	
Mo	95	72	He	0.000	139.27	43.33	0.0015	
Ag	107	103	He	0.000	29.29	230.01	0.000375	
Cd	111	103	He	0.000	40.67	30.00	0.000375	
Sn	118	103	He	0.000	10.37	130.00	0.00075	
Sb	121	103	He	0.001	7.80	826.71	0.00075	
Ba	137	103	He	0.000	174.41	6.67	0.0015	
Tl	205	175	He	0.000	40.70	353.35	0.00075	
Pb	208	175	He	0.000	19.76	613.35	0.00075	
U	238	175	He	0.000	37.12	293.34	0.0075	

QC ISTD Table

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Sc (No He)	45	No Gas	1217290.50	0.67	1212885.92	100.36	60	120	
Sc	45	He	17903.21	1.88	17808.6766666667	100.53	60	120	

Initial Calibration Blank (ICB) Report

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Ge	72	He	18783.44	1.20	19508.8466666667	96.28	60	120	
Rh	103	He	688585.49	0.10	685031.89	100.52	60	120	
Lu	175	He	353894.25	1.16	351241.546666667	100.76	60	120	

Low Level Initial Calibration Verification(LLICV) Report

Sample Name	LLICV 14K05179
File Name	014LICV.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\110514ICPMS8.b
Acq Time	2014-11-05 12:58:40
Sample Type	LLICV
Total Dilution	1.0000
Comment	---
ISTD Ref FileName	004CALB.d
Sample QC Pass/Fial	Fail
ISTD QC Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD	Tune Mode	Conc.	Conc. RSD	CPS	ExpValue	% Rec	%QC Low	%QC High	QC Flag
Be	9	45	He	0.001	34.87	8.00	0.001	69.95	70	130	LLICV Main CR1 Failed
V	51	45	He	0.002	11.01	2606.94	0.002	107.58	70	130	
Cr	52	45	He	0.001	4.36	2706.96	0.001	100.67	70	130	
Mn	55	72	He	0.002	15.75	1293.41	0.002	113.39	70	130	
Co	59	72	He	0.001	4.04	3337.12	0.001	100.57	70	130	
Ni	60	72	He	0.001	13.31	1266.76	0.001	121.31	70	130	
Cu	63	72	He	0.001	6.25	3157.08	0.001	107.38	70	130	
Zn	66	72	He	0.011	6.84	3467.15	0.01	109.57	70	130	
As	75	72	He	0.001	9.35	192.00	0.001	92.26	70	130	
Se	78	72	He	0.001	56.71	14.00	0.001	95.73	70	130	
Mo	95	72	He	0.002	12.18	2326.90	0.002	100.94	70	130	
Ag	107	103	He	0.001	10.46	2423.59	0.0005	107.19	70	130	
Cd	111	103	He	0.001	12.21	243.33	0.0005	103.56	70	130	
Sn	118	103	He	0.001	12.86	1013.39	0.001	114.97	70	130	
Sb	121	103	He	0.001	1.86	1563.44	0.001	121.11	70	130	
Ba	137	103	He	0.002	9.86	650.03	0.002	88.93	70	130	
Tl	205	175	He	0.001	1.27	8352.80	0.001	101.21	70	130	
Pb	208	175	He	0.001	1.29	11305.45	0.001	106.15	70	130	

QC ISTD Table

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Sc (No He)	45	No Gas	1223519.85	1.11	1212885.92	100.88	60	120	
Sc	45	He	17790.87	0.62	17808.6766666667	99.9	60	120	
Ge	72	He	19191.75	1.34	19508.8466666667	98.37	60	120	
Rh	103	He	692019.34	1.17	685031.89	101.02	60	120	
Lu	175	He	356490.18	0.54	351241.546666667	101.49	60	120	

Low Level Initial Calibration Verification(LLICV) Report

Sample Name	LLICV 14K05179
File Name	015LICV.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\110514ICPMS8.b
Acq Time	2014-11-05 13:00:09
Sample Type	LLICV
Total Dilution	1.0000
Comment	---
ISTD Ref FileName	004CALB.d
Sample QC Pass/Fial	Pass
ISTD QC Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD	Tune Mode	Conc.	Conc. RSD	CPS	ExpValue	% Rec	%QC Low	%QC High	QC Flag
Be	9	45	He	0.001	1.61	12.00	0.001	106.41	70	130	
V	51	45	He	0.002	9.84	2536.92	0.002	104.84	70	130	
Cr	52	45	He	0.001	21.72	2806.99	0.001	107.24	70	130	
Mn	55	72	He	0.002	4.68	1176.74	0.002	102.28	70	130	
Co	59	72	He	0.001	5.46	3160.41	0.001	94.87	70	130	
Ni	60	72	He	0.001	3.29	1260.07	0.001	120.03	70	130	
Cu	63	72	He	0.001	2.70	3323.77	0.001	112.89	70	130	
Zn	66	72	He	0.011	5.87	3400.47	0.01	106.98	70	130	
As	75	72	He	0.001	7.40	206.67	0.001	98.89	70	130	
Se	78	72	He	0.001	19.74	14.67	0.001	105.9	70	130	
Mo	95	72	He	0.002	5.42	2323.57	0.002	100.28	70	130	
Ag	107	103	He	0.001	10.68	2376.92	0.0005	106.13	70	130	
Cd	111	103	He	0.001	13.22	256.67	0.0005	110.29	70	130	
Sn	118	103	He	0.001	7.27	836.71	0.001	95.2	70	130	
Sb	121	103	He	0.001	16.32	1533.45	0.001	119.74	70	130	
Ba	137	103	He	0.002	14.80	796.71	0.002	110.08	70	130	
Tl	205	175	He	0.001	4.52	8429.51	0.001	102.58	70	130	
Pb	208	175	He	0.001	1.82	11335.46	0.001	106.87	70	130	

QC ISTD Table

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Sc (No He)	45	No Gas	1214961.78	1.50	1212885.92	100.17	60	120	
Sc	45	He	17771.94	1.57	17808.6766666667	99.79	60	120	
Ge	72	He	19267.40	1.15	19508.8466666667	98.76	60	120	
Rh	103	He	685815.98	0.30	685031.89	100.11	60	120	
Lu	175	He	355061.96	0.76	351241.546666667	101.09	60	120	

Interference Check Solution A (ICS-A) Report

Sample Name	ICSA 14K05180
File Name	016ICSA.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\110514ICPMS8.b
Acq Time	2014-11-05 13:01:37
Sample Type	ICSA
Total Dilution	1.0000
Comment	---
ISTD Ref FileName	004CALB.d
Sample QC Pass/Fial	Pass
ISTD QC Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD	Tune Mode	Conc.	Conc. RSD	CPS	ExpValue	%QC Low	%QC High	QC Flag
Na	23	45	He	98.035	0.87	12921246.06	0.8	10000	10000	
Mg	24	45	He	96.738	0.83	6131107.61	0.8	10000	10000	
Al	27	45	He	101.974	1.28	1642696.38	0.8	10000	10000	
K	39	45	He	100.666	1.80	4156725.88	0.8	10000	10000	
Ca	43	45	He	90.599	0.60	13377.10	0.8	10000	10000	
Ti	47	45	He	2.044	1.17	45564.77	0.8	200	200	
Fe	56	72	He	91.894	1.73	108209185.05	0.8	10000	10000	
Mo	95	72	He	1.976	2.37	2258725.49	0.8	200	200	

QC ISTD Table

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Sc (No He)	45	No Gas	1193437.33	1.34	1212885.92	98.4	60	120	
Sc	45	He	17117.82	0.66	17808.6766666667	96.12	60	120	
Ge	72	He	19069.38	1.41	19508.8466666667	97.75	60	120	
Rh	103	He	636187.67	0.58	685031.89	92.87	60	120	
Lu	175	He	350211.94	0.23	351241.546666667	99.71	60	120	

Interference Check Solution AB (ICS-AB) Report

Sample Name	ICSAB 14K05181
File Name	017ICSB.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\110514ICPMS8.b
Acq Time	2014-11-05 13:03:04
Sample Type	ICSB
Total Dilution	1.0000
Comment	---
ISTD Ref FileName	004CALB.d
Sample QC Pass/Fial	Pass
ISTD QC Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD	Tune Mode	Conc.	Conc. RSD	CPS	ExpValue	%QC Low	%QC High	QC Flag

QC ISTD Table

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Sc (No He)	45	No Gas	1166489.90	0.89	1212885.92	96.17	60	120	
Sc	45	He	17126.75	2.45	17808.6766666667	96.17	60	120	
Ge	72	He	18511.95	0.44	19508.8466666667	94.89	60	120	
Rh	103	He	630013.96	0.25	685031.89	91.97	60	120	
Lu	175	He	337723.15	0.34	351241.546666667	96.15	60	120	

Sample Report

Sample Name	BLANK WG751220
File Name	020SMPL.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\110514ICPMS8.b
Acq Time	2014-11-05 13:07:29
Sample Type	Sample
Total Dilution	1.1111
Comment	---
ISTD Ref FileName	004CALB.d
Sample QC Pass/Fial	Pass
ISTD QC Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD	Tune Mode	Conc.	Conc. RSD	CPS	LDR	QC Flag
B	11	45	No Gas	0.002	7.05	1276.06	5	
Be	9	45	He	0.000	0.00	0.00	5	
Na	23	45	He	0.046	5.18	14217.05	90	
Mg	24	45	He	0.005	15.34	310.01	90	
Al	27	45	He	0.005	47.86	103.33	90	
K	39	45	He	0.013	124.19	7782.15	90	
Ca	43	45	He	0.000	12387.17	12.00	90	
Ti	47	45	He	0.001	126.41	13.33	5	
V	51	45	He	0.000	-652.09	26.67	5	
Cr	52	45	He	0.001	3.33	1986.83	5	
Mn	55	72	He	0.000	68.60	216.67	5	
Fe	56	72	He	0.011	0.68	14927.92	90	
Co	59	72	He	0.000	24.39	320.01	5	
Ni	60	72	He	0.000	47.24	356.68	5	
Cu	63	72	He	0.000	11.55	756.70	5	
Zn	66	72	He	0.002	15.02	543.35	5	
As	75	72	He	0.000	62.95	6.22	5	
Se	78	72	He	0.000	199.22	8.67	5	
Sr	88	72	He	0.000	386.97	90.00	5	
Mo	95	72	He	0.000	11.42	63.33	5	
Ag	107	103	He	0.000	45.15	30.00	1	
Cd	111	103	He	0.000	60.37	6.00	5	
Sn	118	103	He	0.000	45.18	106.67	2	
Sb	121	103	He	0.000	-4.89	33.33	1	
Ba	137	103	He	0.000	19.47	36.67	2	
Tl	205	175	He	0.000	97.15	86.67	5	
Pb	208	175	He	0.000	14.60	870.03	5	
U	238	175	He	0.000	71.09	26.67	5	

QC ISTD Table

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Sc (No He)	45	No Gas	1016755.09	1.18	1212885.92	83.83	60	120	
Sc	45	He	14887.62	1.08	17808.6766666667	83.6	60	120	
Ge	72	He	16322.67	0.48	19508.8466666667	83.67	60	120	

Sample Report

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Rh	103	He	600758.61	0.85	685031.89	87.7	60	120	
Lu	175	He	302488.32	1.33	351241.546666667	86.12	60	120	

Sample Report

Sample Name	LCS WG751220
File Name	021SMPL.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\110514ICPMS8.b
Acq Time	2014-11-05 13:08:58
Sample Type	Sample
Total Dilution	1.1111
Comment	---
ISTD Ref FileName	004CALB.d
Sample QC Pass/Fial	Pass
ISTD QC Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD	Tune Mode	Conc.	Conc. RSD	CPS	LDR	QC Flag
B	11	45	No Gas	0.050	2.02	24458.62	5	
Be	9	45	He	0.047	7.96	396.68	5	
Na	23	45	He	0.639	1.81	77408.24	90	
Mg	24	45	He	0.490	1.31	25001.45	90	
Al	27	45	He	0.056	11.39	763.37	90	
K	39	45	He	0.515	2.50	24634.38	90	
Ca	43	45	He	0.858	33.25	114.00	90	
Ti	47	45	He	0.051	6.27	910.05	5	
V	51	45	He	0.053	0.97	48848.92	5	
Cr	52	45	He	0.052	2.13	64553.02	5	
Mn	55	72	He	0.050	4.27	21940.22	5	
Fe	56	72	He	0.073	1.39	73505.91	90	
Co	59	72	He	0.052	0.82	134817.40	5	
Ni	60	72	He	0.051	1.06	38357.84	5	
Cu	63	72	He	0.053	1.29	115583.28	5	
Zn	66	72	He	0.050	3.13	11905.11	5	
As	75	72	He	0.050	0.45	8039.60	5	
Se	78	72	He	0.048	10.82	247.67	5	
Sr	88	72	He	0.050	2.18	23035.69	5	
Mo	95	72	He	0.050	1.99	44928.38	5	
Ag	107	103	He	0.047	0.89	167239.07	1	
Cd	111	103	He	0.049	1.56	17916.80	5	
Sn	118	103	He	0.049	4.17	32438.18	2	
Sb	121	103	He	0.050	3.74	44812.44	1	
Ba	137	103	He	0.048	1.81	13687.00	2	
Tl	205	175	He	0.051	0.36	328213.74	5	
Pb	208	175	He	0.052	0.86	423837.67	5	
U	238	175	He	0.000	1639.93	3.33	5	

QC ISTD Table

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Sc (No He)	45	No Gas	1040212.41	0.68	1212885.92	85.76	60	120	
Sc	45	He	15290.26	0.18	17808.6766666667	85.86	60	120	
Ge	72	He	16701.97	0.38	19508.8466666667	85.61	60	120	

Sample Report

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Rh	103	He	601544.61	0.37	685031.89	87.81	60	120	
Lu	175	He	307217.45	0.79	351241.546666667	87.47	60	120	

Sample Report

Sample Name	LCSD WG751220
File Name	022SMPL.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\110514ICPMS8.b
Acq Time	2014-11-05 13:10:27
Sample Type	Sample
Total Dilution	1.1111
Comment	---
ISTD Ref FileName	004CALB.d
Sample QC Pass/Fial	Pass
ISTD QC Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD	Tune Mode	Conc.	Conc. RSD	CPS	LDR	QC Flag
B	11	45	No Gas	0.051	2.36	25193.81	5	
Be	9	45	He	0.049	1.56	433.68	5	
Na	23	45	He	0.568	1.36	72118.24	90	
Mg	24	45	He	0.493	1.30	25973.07	90	
Al	27	45	He	0.052	13.51	726.69	90	
K	39	45	He	0.515	2.14	25375.65	90	
Ca	43	45	He	0.887	14.02	121.00	90	
Ti	47	45	He	0.053	18.72	976.71	5	
V	51	45	He	0.052	3.82	49263.68	5	
Cr	52	45	He	0.051	3.94	65229.66	5	
Mn	55	72	He	0.051	5.01	22527.87	5	
Fe	56	72	He	0.057	1.97	58846.34	90	
Co	59	72	He	0.053	3.53	137122.28	5	
Ni	60	72	He	0.051	2.75	38631.89	5	
Cu	63	72	He	0.052	2.91	116594.81	5	
Zn	66	72	He	0.051	4.96	12091.96	5	
As	75	72	He	0.050	3.08	8175.23	5	
Se	78	72	He	0.046	7.13	239.67	5	
Sr	88	72	He	0.050	2.15	23132.47	5	
Mo	95	72	He	0.050	1.35	45824.58	5	
Ag	107	103	He	0.049	0.84	172883.10	1	
Cd	111	103	He	0.050	1.12	18242.56	5	
Sn	118	103	He	0.050	3.25	33721.19	2	
Sb	121	103	He	0.051	1.95	46023.24	1	
Ba	137	103	He	0.049	1.10	14210.87	2	
Tl	205	175	He	0.053	0.31	335055.31	5	
Pb	208	175	He	0.053	0.70	430634.91	5	
U	238	175	He	0.000	1557.53	3.33	5	

QC ISTD Table

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Sc (No He)	45	No Gas	1051035.22	0.32	1212885.92	86.66	60	120	
Sc	45	He	15762.96	2.06	17808.6766666667	88.51	60	120	
Ge	72	He	16904.46	2.66	19508.8466666667	86.65	60	120	

Sample Report

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Rh	103	He	607806.75	0.43	685031.89	88.73	60	120	
Lu	175	He	307529.97	0.42	351241.546666667	87.56	60	120	

Sample Report

Sample Name	L729800-01 WG751220
File Name	023SMPL.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\110514ICPMS8.b
Acq Time	2014-11-05 13:11:55
Sample Type	Sample
Total Dilution	5.5556
Comment	---
ISTD Ref FileName	004CALB.d
Sample QC Pass/Fial	Fail
ISTD QC Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD	Tune Mode	Conc.	Conc. RSD	CPS	LDR	QC Flag
B	11	45	No Gas	0.273	5.45	30168.97	5	
Be	9	45	He	0.001	335.16	2.00	5	
Na	23	45	He	2060.530	1.07	50630799.25	90	>LDR
Mg	24	45	He	514.792	10.73	6085816.16	90	>LDR
Al	27	45	He	4.903	5.59	14774.25	90	
K	39	45	He	10.149	11.44	86786.10	90	
Ca	43	45	He	1096.871	9.63	30192.66	90	>LDR
Ti	47	45	He	0.077	31.51	320.01	5	
V	51	45	He	0.022	27.12	4730.86	5	
Cr	52	45	He	0.026	10.57	8555.98	5	
Mn	55	72	He	0.620	3.70	60077.81	5	
Fe	56	72	He	6.124	3.77	1271411.28	90	
Co	59	72	He	0.007	33.26	4157.34	5	
Ni	60	72	He	0.016	8.44	2713.63	5	
Cu	63	72	He	0.015	34.15	7485.41	5	
Zn	66	72	He	0.076	42.83	4117.34	5	
As	75	72	He	0.005	73.21	196.00	5	
Se	78	72	He	0.022	137.25	32.00	5	
Sr	88	72	He	17.069	12.32	1735501.33	5	
Mo	95	72	He	0.034	17.83	6818.42	5	
Ag	107	103	He	0.000	169.69	310.01	1	
Cd	111	103	He	0.001	128.62	47.33	5	
Sn	118	103	He	0.001	144.07	230.01	2	
Sb	121	103	He	0.001	165.51	293.34	1	
Ba	137	103	He	0.082	20.57	4894.30	2	
Tl	205	175	He	0.000	104.59	263.34	5	
Pb	208	175	He	0.014	21.92	25876.96	5	
U	238	175	He	0.005	8.81	10070.77	5	

QC ISTD Table

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Sc (No He)	45	No Gas	1181504.04	0.30	1212885.92	97.41	60	120	
Sc	45	He	17739.68	0.81	17808.6766666667	99.61	60	120	
Ge	72	He	18585.43	0.51	19508.8466666667	95.27	60	120	

Sample Report

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Rh	103	He	632689.12	1.11	685031.89	92.36	60	120	
Lu	175	He	343199.09	1.49	351241.546666667	97.71	60	120	

Sample Report

Sample Name	SD L729800-01 WG751220
File Name	024SMPL.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\110514ICPMS8.b
Acq Time	2014-11-05 13:13:23
Sample Type	Sample
Total Dilution	27.7778
Comment	---
ISTD Ref FileName	004CALB.d
Sample QC Pass/Fial	Pass
ISTD QC Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD	Tune Mode	Conc.	Conc. RSD	CPS	LDR	QC Flag
B	11	45	No Gas	0.309	38.93	7276.45	5	
Be	9	45	He	0.002	4136.44	1.00	5	
Na	23	45	He	2102.142	31.27	10497431.51	90	
Mg	24	45	He	553.401	19.70	1328682.61	90	
Al	27	45	He	5.188	48.77	3210.40	90	
K	39	45	He	10.025	77.92	24557.58	90	
Ca	43	45	He	1087.662	53.02	6090.60	90	
Ti	47	45	He	0.063	1343.98	53.33	5	
V	51	45	He	0.022	222.37	980.05	5	
Cr	52	45	He	0.023	569.75	2456.93	5	
Mn	55	72	He	0.604	76.67	12198.67	5	
Fe	56	72	He	6.027	48.52	265507.81	90	
Co	59	72	He	0.007	93.40	863.37	5	
Ni	60	72	He	0.016	66.53	660.03	5	
Cu	63	72	He	0.017	187.75	1916.83	5	
Zn	66	72	He	0.060	152.67	860.05	5	
As	75	72	He	0.005	900.02	38.22	5	
Se	78	72	He	0.016	3796.33	11.67	5	
Sr	88	72	He	15.884	72.22	336140.55	5	
Mo	95	72	He	0.032	83.52	1326.75	5	
Ag	107	103	He	0.000	1052.73	73.33	1	
Cd	111	103	He	0.000	1710.11	9.33	5	
Sn	118	103	He	0.002	1657.25	86.67	2	
Sb	121	103	He	0.001	1699.10	233.34	1	
Ba	137	103	He	0.080	231.91	1023.39	2	
Tl	205	175	He	0.000	543.25	93.33	5	
Pb	208	175	He	0.014	99.28	5453.89	5	
U	238	175	He	0.006	123.71	2313.59	5	

QC ISTD Table

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Sc (No He)	45	No Gas	1228987.35	0.88	1212885.92	101.33	60	120	
Sc	45	He	18012.23	1.42	17808.6766666667	101.14	60	120	
Ge	72	He	19341.99	1.88	19508.8466666667	99.14	60	120	

Sample Report

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Rh	103	He	672996.71	0.28	685031.89	98.24	60	120	
Lu	175	He	350047.15	0.62	351241.546666667	99.66	60	120	

Sample Report

Sample Name	MS L729800-01 WG751220
File Name	025SMPL.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\110514ICPMS8.b
Acq Time	2014-11-05 13:14:51
Sample Type	Sample
Total Dilution	5.5556
Comment	---
ISTD Ref FileName	004CALB.d
Sample QC Pass/Fial	Fail
ISTD QC Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD	Tune Mode	Conc.	Conc. RSD	CPS	LDR	QC Flag
B	11	45	No Gas	0.330	5.23	35918.95	5	
Be	9	45	He	0.052	64.76	99.67	5	
Na	23	45	He	2119.971	7.33	50707324.25	90	>LDR
Mg	24	45	He	531.593	6.22	6117928.24	90	>LDR
Al	27	45	He	5.569	16.34	16329.23	90	
K	39	45	He	11.021	7.36	91014.65	90	
Ca	43	45	He	1122.667	8.53	30083.09	90	>LDR
Ti	47	45	He	0.129	62.55	523.35	5	
V	51	45	He	0.076	9.50	15975.65	5	
Cr	52	45	He	0.079	11.07	22951.70	5	
Mn	55	72	He	0.691	7.37	65163.25	5	
Fe	56	72	He	6.609	9.02	1336026.96	90	
Co	59	72	He	0.061	3.91	34210.69	5	
Ni	60	72	He	0.068	17.50	11091.07	5	
Cu	63	72	He	0.069	8.87	32968.04	5	
Zn	66	72	He	0.123	20.18	6418.19	5	
As	75	72	He	0.061	10.80	2122.83	5	
Se	78	72	He	0.078	3.86	92.00	5	
Sr	88	72	He	17.350	4.18	1718556.28	5	
Mo	95	72	He	0.091	6.67	17697.99	5	
Ag	107	103	He	0.053	20.53	38670.54	1	
Cd	111	103	He	0.054	22.74	4076.61	5	
Sn	118	103	He	0.057	46.18	7775.64	2	
Sb	121	103	He	0.057	19.39	10627.57	1	
Ba	137	103	He	0.137	17.93	8045.86	2	
Tl	205	175	He	0.053	5.13	72780.95	5	
Pb	208	175	He	0.068	3.92	120918.61	5	
U	238	175	He	0.006	16.28	10120.85	5	

QC ISTD Table

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Sc (No He)	45	No Gas	1165433.11	0.52	1212885.92	96.09	60	120	
Sc	45	He	17270.25	1.24	17808.6766666667	96.98	60	120	
Ge	72	He	18103.68	0.73	19508.8466666667	92.8	60	120	

Sample Report

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Rh	103	He	618704.00	0.44	685031.89	90.32	60	120	
Lu	175	He	331883.90	0.26	351241.546666667	94.49	60	120	

Sample Report

Sample Name	MSD L729800-01 WG751220
File Name	026SMPL.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\110514ICPMS8.b
Acq Time	2014-11-05 13:16:20
Sample Type	Sample
Total Dilution	5.5556
Comment	---
ISTD Ref FileName	004CALB.d
Sample QC Pass/Fial	Fail
ISTD QC Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD	Tune Mode	Conc.	Conc. RSD	CPS	LDR	QC Flag
B	11	45	No Gas	0.326	8.43	35981.75	5	
Be	9	45	He	0.055	53.18	105.00	5	
Na	23	45	He	2106.384	9.88	50094269.26	90	>LDR
Mg	24	45	He	527.856	11.03	6040006.37	90	>LDR
Al	27	45	He	5.959	8.85	17373.82	90	
K	39	45	He	10.856	14.59	89261.04	90	
Ca	43	45	He	1098.556	9.14	29269.46	90	>LDR
Ti	47	45	He	0.120	24.55	483.35	5	
V	51	45	He	0.078	31.36	16259.35	5	
Cr	52	45	He	0.076	3.89	22067.01	5	
Mn	55	72	He	0.661	6.66	62886.43	5	
Fe	56	72	He	7.014	3.23	1429958.52	90	
Co	59	72	He	0.060	9.70	33636.05	5	
Ni	60	72	He	0.067	32.72	11027.73	5	
Cu	63	72	He	0.067	13.82	32406.66	5	
Zn	66	72	He	0.124	32.33	6501.57	5	
As	75	72	He	0.060	8.87	2092.16	5	
Se	78	72	He	0.061	113.59	73.67	5	
Sr	88	72	He	16.618	4.24	1660261.27	5	
Mo	95	72	He	0.088	12.22	17414.26	5	
Ag	107	103	He	0.051	2.52	37202.96	1	
Cd	111	103	He	0.053	12.41	3965.24	5	
Sn	118	103	He	0.053	10.36	7312.04	2	
Sb	121	103	He	0.054	9.69	10137.20	1	
Ba	137	103	He	0.146	27.63	8559.48	2	
Tl	205	175	He	0.052	7.55	71694.89	5	
Pb	208	175	He	0.066	3.17	116453.95	5	
U	238	175	He	0.006	6.01	10244.26	5	

QC ISTD Table

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Sc (No He)	45	No Gas	1179815.71	0.25	1212885.92	97.27	60	120	
Sc	45	He	17172.37	1.37	17808.6766666667	96.43	60	120	
Ge	72	He	18262.77	1.97	19508.8466666667	93.61	60	120	

Sample Report

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Rh	103	He	618829.96	0.37	685031.89	90.34	60	120	
Lu	175	He	331913.04	0.36	351241.546666667	94.5	60	120	

Sample Report

Sample Name	L729753-01 WG751220
File Name	027SMPL.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\110514ICPMS8.b
Acq Time	2014-11-05 13:17:47
Sample Type	Sample
Total Dilution	1.1111
Comment	---
ISTD Ref FileName	004CALB.d
Sample QC Pass/Fial	Fail
ISTD QC Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD	Tune Mode	Conc.	Conc. RSD	CPS	LDR	QC Flag
B	11	45	No Gas	0.105	1.90	53049.57	5	
Be	9	45	He	0.000	64.73	2.00	5	
Na	23	45	He	209.735	1.18	23203700.49	90	>LDR
Mg	24	45	He	85.433	1.42	4546547.85	90	
Al	27	45	He	0.053	19.50	756.70	90	
K	39	45	He	1.991	1.83	76787.55	90	
Ca	43	45	He	363.950	1.59	45088.37	90	>LDR
Ti	47	45	He	0.001	38.37	16.67	5	
V	51	45	He	0.002	9.35	1883.48	5	
Cr	52	45	He	0.001	10.40	2543.61	5	
Mn	55	72	He	0.029	3.31	12592.37	5	
Fe	56	72	He	0.043	6.87	46004.80	90	
Co	59	72	He	0.001	7.93	2846.99	5	
Ni	60	72	He	0.001	8.83	1060.06	5	
Cu	63	72	He	0.000	7.53	746.70	5	
Zn	66	72	He	0.003	8.00	833.37	5	
As	75	72	He	0.000	7.65	74.22	5	
Se	78	72	He	0.000	130.02	8.67	5	
Sr	88	72	He	1.918	0.25	882553.89	5	
Mo	95	72	He	0.000	26.24	270.01	5	
Ag	107	103	He	0.000	33.83	93.33	1	
Cd	111	103	He	0.000	54.85	14.67	5	
Sn	118	103	He	0.000	33.32	263.34	2	
Sb	121	103	He	0.000	-29.51	90.00	1	
Ba	137	103	He	2.413	0.35	673937.91	2	>LDR
Tl	205	175	He	0.000	12.21	253.34	5	
Pb	208	175	He	0.000	5.41	1763.41	5	
U	238	175	He	0.004	2.83	38584.55	5	

QC ISTD Table

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Sc (No He)	45	No Gas	1080329.73	0.15	1212885.92	89.07	60	120	
Sc	45	He	15970.98	0.30	17808.6766666667	89.68	60	120	
Ge	72	He	16824.34	1.07	19508.8466666667	86.24	60	120	

Sample Report

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Rh	103	He	590628.43	1.62	685031.89	86.22	60	120	
Lu	175	He	322949.41	1.76	351241.546666667	91.95	60	120	

Sample Report

Sample Name	L729753-02 WG751220
File Name	028SMPL.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\110514ICPMS8.b
Acq Time	2014-11-05 13:21:49
Sample Type	Sample
Total Dilution	1.1111
Comment	---
ISTD Ref FileName	004CALB.d
Sample QC Pass/Fial	Fail
ISTD QC Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD	Tune Mode	Conc.	Conc. RSD	CPS	LDR	QC Flag
B	11	45	No Gas	0.397	1.18	203289.27	5	
Be	9	45	He	0.000	0.00	0.00	5	
Na	23	45	He	1122.370	2.48	125442914.79	90	>LDR
Mg	24	45	He	112.594	0.77	6057563.24	90	>LDR
Al	27	45	He	0.099	11.37	1393.42	90	
K	39	45	He	1.782	2.29	70315.09	90	
Ca	43	45	He	305.484	3.22	38244.40	90	>LDR
Ti	47	45	He	0.000	192.45	3.33	5	
V	51	45	He	0.000	39.67	443.35	5	
Cr	52	45	He	0.001	6.42	2256.89	5	
Mn	55	72	He	0.434	2.60	195237.13	5	
Fe	56	72	He	3.830	2.42	3684651.09	90	
Co	59	72	He	0.003	3.39	6801.72	5	
Ni	60	72	He	0.001	30.11	876.71	5	
Cu	63	72	He	0.001	9.32	1443.44	5	
Zn	66	72	He	0.004	13.75	1220.08	5	
As	75	72	He	0.054	1.70	8940.12	5	
Se	78	72	He	0.000	78.90	8.67	5	
Sr	88	72	He	7.360	1.17	3480153.60	5	>LDR
Mo	95	72	He	0.002	1.27	1650.13	5	
Ag	107	103	He	0.000	32.50	40.00	1	
Cd	111	103	He	0.000	75.57	10.00	5	
Sn	118	103	He	0.000	41.56	113.33	2	
Sb	121	103	He	0.000	146.89	190.00	1	
Ba	137	103	He	3.092	0.74	855564.26	2	>LDR
Tl	205	175	He	0.000	64.49	83.33	5	
Pb	208	175	He	0.000	2.76	4070.33	5	
U	238	175	He	0.001	6.88	7525.67	5	

QC ISTD Table

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Sc (No He)	45	No Gas	1101841.13	1.96	1212885.92	90.84	60	120	
Sc	45	He	16147.87	3.21	17808.6766666667	90.67	60	120	
Ge	72	He	17284.90	0.74	19508.8466666667	88.6	60	120	

Sample Report

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Rh	103	He	585153.58	0.35	685031.89	85.42	60	120	
Lu	175	He	325562.37	0.36	351241.546666667	92.69	60	120	

Sample Report

Sample Name	L729753-03 WG751220
File Name	029SMPL.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\110514ICPMS8.b
Acq Time	2014-11-05 13:23:19
Sample Type	Sample
Total Dilution	1.1111
Comment	---
ISTD Ref FileName	004CALB.d
Sample QC Pass/Fial	Fail
ISTD QC Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD	Tune Mode	Conc.	Conc. RSD	CPS	LDR	QC Flag
B	11	45	No Gas	0.404	1.34	213904.89	5	
Be	9	45	He	0.000	60.52	1.33	5	
Na	23	45	He	1046.048	1.61	121718941.52	90	>LDR
Mg	24	45	He	62.264	1.93	3486205.89	90	
Al	27	45	He	0.019	32.80	316.67	90	
K	39	45	He	2.293	3.38	91769.56	90	
Ca	43	45	He	393.455	1.19	51286.57	90	>LDR
Ti	47	45	He	0.001	46.52	13.33	5	
V	51	45	He	0.000	68.41	103.33	5	
Cr	52	45	He	0.001	5.46	1950.17	5	
Mn	55	72	He	3.328	0.86	1516287.01	5	
Fe	56	72	He	4.103	0.50	3996583.07	90	
Co	59	72	He	0.003	3.25	8502.62	5	
Ni	60	72	He	0.001	22.56	740.03	5	
Cu	63	72	He	0.000	21.93	966.72	5	
Zn	66	72	He	0.003	2.16	826.71	5	
As	75	72	He	0.062	1.45	10357.52	5	
Se	78	72	He	0.001	97.41	11.33	5	
Sr	88	72	He	14.569	0.29	6973829.27	5	>LDR
Mo	95	72	He	0.001	1.64	1176.74	5	
Ag	107	103	He	0.000	82.13	46.67	1	
Cd	111	103	He	0.000	20.17	42.00	5	
Sn	118	103	He	0.000	40.52	113.33	2	
Sb	121	103	He	0.000	58.77	213.34	1	
Ba	137	103	He	3.019	0.85	849581.79	2	>LDR
Tl	205	175	He	0.000	98.39	96.67	5	
Pb	208	175	He	0.001	5.93	7450.99	5	
U	238	175	He	0.000	6.55	4334.14	5	

QC ISTD Table

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Sc (No He)	45	No Gas	1139719.80	0.93	1212885.92	93.97	60	120	
Sc	45	He	16805.25	1.29	17808.6766666667	94.37	60	120	
Ge	72	He	17498.48	1.12	19508.8466666667	89.7	60	120	

Sample Report

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Rh	103	He	595091.57	1.19	685031.89	86.87	60	120	
Lu	175	He	330957.02	0.81	351241.546666667	94.22	60	120	

Sample Report

Sample Name	L729753-04 WG751220
File Name	030SMPL.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\110514ICPMS8.b
Acq Time	2014-11-05 13:24:49
Sample Type	Sample
Total Dilution	1.1111
Comment	---
ISTD Ref FileName	004CALB.d
Sample QC Pass/Fial	Fail
ISTD QC Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD	Tune Mode	Conc.	Conc. RSD	CPS	LDR	QC Flag
B	11	45	No Gas	0.135	1.19	72079.75	5	
Be	9	45	He	0.000	162.01	1.00	5	
Na	23	45	He	511.691	2.17	60500805.77	90	>LDR
Mg	24	45	He	216.450	1.16	12314531.90	90	>LDR
Al	27	45	He	0.036	16.67	566.69	90	
K	39	45	He	1.464	2.23	62620.54	90	
Ca	43	45	He	600.984	1.04	79588.67	90	>LDR
Ti	47	45	He	0.002	84.41	33.33	5	
V	51	45	He	0.002	7.75	1626.79	5	
Cr	52	45	He	0.001	11.51	2166.87	5	
Mn	55	72	He	1.434	1.98	653494.19	5	
Fe	56	72	He	0.047	2.95	51545.21	90	
Co	59	72	He	0.007	3.36	18892.65	5	
Ni	60	72	He	0.003	7.60	2423.58	5	
Cu	63	72	He	0.001	6.42	1713.46	5	
Zn	66	72	He	0.003	13.31	966.72	5	
As	75	72	He	0.001	15.80	95.11	5	
Se	78	72	He	0.000	503.48	8.00	5	
Sr	88	72	He	5.347	1.06	2560313.56	5	
Mo	95	72	He	0.000	12.54	280.01	5	
Ag	107	103	He	0.000	58.07	73.33	1	
Cd	111	103	He	0.000	11.62	51.33	5	
Sn	118	103	He	0.000	0.46	250.01	2	
Sb	121	103	He	0.000	371.13	166.67	1	
Ba	137	103	He	4.179	0.13	1174027.17	2	>LDR
Tl	205	175	He	0.000	39.50	153.34	5	
Pb	208	175	He	0.000	6.53	2740.16	5	
U	238	175	He	0.008	1.85	68950.89	5	

QC ISTD Table

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Sc (No He)	45	No Gas	1147177.30	1.17	1212885.92	94.58	60	120	
Sc	45	He	17074.47	0.63	17808.6766666667	95.88	60	120	
Ge	72	He	17506.26	1.73	19508.8466666667	89.73	60	120	

Sample Report

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Rh	103	He	594029.89	0.37	685031.89	86.72	60	120	
Lu	175	He	326733.12	1.19	351241.546666667	93.02	60	120	

Sample Report

Sample Name	L729753-05 WG751220
File Name	031SMPL.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\110514ICPMS8.b
Acq Time	2014-11-05 13:26:17
Sample Type	Sample
Total Dilution	1.1111
Comment	---
ISTD Ref FileName	004CALB.d
Sample QC Pass/Fial	Fail
ISTD QC Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD	Tune Mode	Conc.	Conc. RSD	CPS	LDR	QC Flag
B	11	45	No Gas	0.113	1.07	60395.15	5	
Be	9	45	He	0.000	181.92	0.67	5	
Na	23	45	He	299.087	3.41	35805651.97	90	>LDR
Mg	24	45	He	138.460	2.87	7975265.30	90	>LDR
Al	27	45	He	0.086	7.47	1306.75	90	
K	39	45	He	1.885	2.94	79170.40	90	
Ca	43	45	He	435.036	3.74	58324.10	90	>LDR
Ti	47	45	He	0.001	85.45	26.67	5	
V	51	45	He	0.001	12.03	1043.39	5	
Cr	52	45	He	0.001	31.29	2190.20	5	
Mn	55	72	He	0.500	0.82	230820.38	5	
Fe	56	72	He	0.577	0.66	574048.64	90	
Co	59	72	He	0.003	1.42	9369.85	5	
Ni	60	72	He	0.002	9.70	1393.43	5	
Cu	63	72	He	0.000	6.18	1220.07	5	
Zn	66	72	He	0.004	11.48	1140.07	5	
As	75	72	He	0.002	11.25	424.01	5	
Se	78	72	He	0.000	128.12	8.67	5	
Sr	88	72	He	4.196	2.25	2032596.06	5	
Mo	95	72	He	0.001	26.10	540.02	5	
Ag	107	103	He	0.000	79.79	30.00	1	
Cd	111	103	He	0.000	136.49	7.33	5	
Sn	118	103	He	0.000	30.78	290.01	2	
Sb	121	103	He	0.000	-44.68	86.67	1	
Ba	137	103	He	4.050	0.91	1161672.88	2	>LDR
Tl	205	175	He	0.000	72.52	106.67	5	
Pb	208	175	He	0.000	13.80	2083.44	5	
U	238	175	He	0.003	2.23	26901.76	5	

QC ISTD Table

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Sc (No He)	45	No Gas	1148167.43	0.81	1212885.92	94.66	60	120	
Sc	45	He	17292.48	2.25	17808.6766666667	97.1	60	120	
Ge	72	He	17712.09	1.14	19508.8466666667	90.79	60	120	

Sample Report

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Rh	103	He	606563.21	0.09	685031.89	88.55	60	120	
Lu	175	He	329495.55	0.89	351241.546666667	93.81	60	120	

Sample Report

Sample Name	L729753-06 WG751220
File Name	032SMPL.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\110514ICPMS8.b
Acq Time	2014-11-05 13:27:45
Sample Type	Sample
Total Dilution	1.1111
Comment	---
ISTD Ref FileName	004CALB.d
Sample QC Pass/Fial	Pass
ISTD QC Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD	Tune Mode	Conc.	Conc. RSD	CPS	LDR	QC Flag
B	11	45	No Gas	0.375	0.72	202653.52	5	
Be	9	45	He	0.001	88.10	7.67	5	
Na	23	45	He	91.304	1.69	10696374.42	90	
Mg	24	45	He	1.838	2.61	103570.49	90	
Al	27	45	He	2.014	1.70	28872.00	90	
K	39	45	He	5.020	0.46	192199.85	90	
Ca	43	45	He	12.219	2.21	1615.09	90	
Ti	47	45	He	0.002	28.70	43.33	5	
V	51	45	He	0.006	6.45	5804.60	5	
Cr	52	45	He	0.002	6.46	3227.08	5	
Mn	55	72	He	0.149	2.05	69848.12	5	
Fe	56	72	He	1.923	0.93	1924312.89	90	
Co	59	72	He	0.003	4.29	8149.11	5	
Ni	60	72	He	0.004	5.78	3290.44	5	
Cu	63	72	He	0.005	4.56	11474.72	5	
Zn	66	72	He	0.011	7.79	3037.04	5	
As	75	72	He	0.003	1.08	534.23	5	
Se	78	72	He	0.002	54.91	17.67	5	
Sr	88	72	He	0.436	0.07	213952.37	5	
Mo	95	72	He	0.000	23.57	173.34	5	
Ag	107	103	He	0.000	31.67	26.67	1	
Cd	111	103	He	0.000	217.02	6.00	5	
Sn	118	103	He	0.000	20.17	116.67	2	
Sb	121	103	He	0.000	-2666.91	166.67	1	
Ba	137	103	He	0.193	2.63	57608.00	2	
Tl	205	175	He	0.000	11.81	130.00	5	
Pb	208	175	He	0.006	0.17	52936.16	5	
U	238	175	He	0.000	9.38	1983.53	5	

QC ISTD Table

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Sc (No He)	45	No Gas	1160462.74	0.70	1212885.92	95.68	60	120	
Sc	45	He	16904.25	1.21	17808.6766666667	94.92	60	120	
Ge	72	He	17952.39	0.26	19508.8466666667	92.02	60	120	

Sample Report

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Rh	103	He	631040.13	0.43	685031.89	92.12	60	120	
Lu	175	He	331482.11	0.46	351241.546666667	94.37	60	120	

Sample Report

Sample Name	L729798-02 WG751220
File Name	033SMPL.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\110514ICPMS8.b
Acq Time	2014-11-05 13:29:12
Sample Type	Sample
Total Dilution	5.5556
Comment	---
ISTD Ref FileName	004CALB.d
Sample QC Pass/Fial	Fail
ISTD QC Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD	Tune Mode	Conc.	Conc. RSD	CPS	LDR	QC Flag
B	11	45	No Gas	0.800	1.91	92093.14	5	
Be	9	45	He	0.004	250.63	7.33	5	
Na	23	45	He	1628.507	3.70	40042058.57	90	>LDR
Mg	24	45	He	449.700	3.99	5319714.72	90	
Al	27	45	He	10.109	1.94	30438.34	90	
K	39	45	He	10.432	12.65	89036.37	90	
Ca	43	45	He	1297.751	5.71	35742.38	90	>LDR
Ti	47	45	He	0.068	45.80	283.34	5	
V	51	45	He	0.076	1.37	16419.46	5	
Cr	52	45	He	0.091	4.87	26918.58	5	
Mn	55	72	He	1.387	8.93	136400.47	5	
Fe	56	72	He	16.282	9.89	3423885.58	90	
Co	59	72	He	0.020	11.34	11448.03	5	
Ni	60	72	He	0.035	45.94	6001.33	5	
Cu	63	72	He	0.044	16.21	21940.43	5	
Zn	66	72	He	0.232	29.71	12412.19	5	
As	75	72	He	0.012	61.66	445.79	5	
Se	78	72	He	0.018	64.66	28.00	5	
Sr	88	72	He	11.632	9.85	1201746.00	5	
Mo	95	72	He	0.039	49.88	8012.41	5	
Ag	107	103	He	0.000	221.02	86.67	1	
Cd	111	103	He	0.002	96.22	123.33	5	
Sn	118	103	He	0.001	92.39	200.00	2	
Sb	121	103	He	0.000	810.06	190.00	1	
Ba	137	103	He	0.137	8.68	8296.01	2	
Tl	205	175	He	0.000	269.55	146.67	5	
Pb	208	175	He	0.042	7.89	75052.66	5	
U	238	175	He	0.009	21.56	16103.60	5	

QC ISTD Table

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Sc (No He)	45	No Gas	1236490.29	1.34	1212885.92	101.95	60	120	
Sc	45	He	17750.80	1.05	17808.6766666667	99.68	60	120	
Ge	72	He	18886.91	2.03	19508.8466666667	96.81	60	120	

Sample Report

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Rh	103	He	639292.02	1.65	685031.89	93.32	60	120	
Lu	175	He	334476.58	1.73	351241.546666667	95.23	60	120	

Sample Report

Sample Name	L729798-04 WG751220
File Name	034SMPL.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\110514ICPMS8.b
Acq Time	2014-11-05 13:30:40
Sample Type	Sample
Total Dilution	5.5556
Comment	---
ISTD Ref FileName	004CALB.d
Sample QC Pass/Fial	Fail
ISTD QC Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD	Tune Mode	Conc.	Conc. RSD	CPS	LDR	QC Flag
B	11	45	No Gas	0.754	10.39	86776.99	5	
Be	9	45	He	0.007	187.01	14.00	5	
Na	23	45	He	1574.903	3.15	39005950.25	90	>LDR
Mg	24	45	He	468.164	2.66	5578463.87	90	
Al	27	45	He	21.010	5.79	63670.52	90	
K	39	45	He	12.221	6.33	103530.31	90	
Ca	43	45	He	1988.040	4.47	55144.54	90	>LDR
Ti	47	45	He	0.072	174.27	303.34	5	
V	51	45	He	0.250	8.53	54030.33	5	
Cr	52	45	He	0.298	6.10	86650.74	5	
Mn	55	72	He	4.004	21.63	388597.47	5	
Fe	56	72	He	40.909	20.95	8481033.00	90	
Co	59	72	He	0.055	26.33	31521.33	5	
Ni	60	72	He	0.077	4.75	12959.37	5	
Cu	63	72	He	0.077	26.16	37793.38	5	
Zn	66	72	He	0.229	14.37	12115.29	5	
As	75	72	He	0.031	46.45	1096.49	5	
Se	78	72	He	0.045	20.90	58.00	5	
Sr	88	72	He	14.594	24.56	1487770.08	5	
Mo	95	72	He	0.056	12.66	11341.39	5	
Ag	107	103	He	0.000	111.05	83.33	1	
Cd	111	103	He	0.004	71.74	330.01	5	
Sn	118	103	He	0.001	106.18	176.67	2	
Sb	121	103	He	0.000	1353.24	193.34	1	
Ba	137	103	He	0.236	10.71	14027.37	2	
Tl	205	175	He	0.000	34.34	203.34	5	
Pb	208	175	He	0.093	7.72	165145.67	5	
U	238	175	He	0.015	13.04	27623.23	5	

QC ISTD Table

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Sc (No He)	45	No Gas	1236169.28	1.26	1212885.92	101.92	60	120	
Sc	45	He	17879.86	0.88	17808.6766666667	100.4	60	120	
Ge	72	He	18654.39	3.88	19508.8466666667	95.62	60	120	

Sample Report

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Rh	103	He	629196.14	1.63	685031.89	91.85	60	120	
Lu	175	He	331586.38	0.64	351241.546666667	94.4	60	120	

Sample Report

Sample Name	L729798-06 WG751220
File Name	035SMPL.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\110514ICPMS8.b
Acq Time	2014-11-05 13:32:23
Sample Type	Sample
Total Dilution	5.5556
Comment	---
ISTD Ref FileName	004CALB.d
Sample QC Pass/Fial	Fail
ISTD QC Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD	Tune Mode	Conc.	Conc. RSD	CPS	LDR	QC Flag
B	11	45	No Gas	0.568	3.38	65484.37	5	
Be	9	45	He	0.008	204.40	16.00	5	
Na	23	45	He	1632.232	17.51	40305807.73	90	>LDR
Mg	24	45	He	510.941	13.35	6070601.37	90	>LDR
Al	27	45	He	16.855	16.13	50937.97	90	
K	39	45	He	12.321	14.50	104003.54	90	
Ca	43	45	He	4226.343	13.42	116876.27	90	>LDR
Ti	47	45	He	0.113	80.38	473.35	5	
V	51	45	He	0.197	22.95	42422.19	5	
Cr	52	45	He	0.085	13.19	25309.05	5	
Mn	55	72	He	5.712	5.47	546896.64	5	
Fe	56	72	He	12.104	6.77	2479473.82	90	
Co	59	72	He	0.039	8.27	21826.89	5	
Ni	60	72	He	0.038	33.29	6444.89	5	
Cu	63	72	He	0.033	18.32	15935.69	5	
Zn	66	72	He	0.107	27.40	5704.56	5	
As	75	72	He	0.027	30.51	946.26	5	
Se	78	72	He	0.078	43.38	92.67	5	
Sr	88	72	He	21.896	11.33	2202290.33	5	
Mo	95	72	He	0.010	19.99	1910.17	5	
Ag	107	103	He	0.000	290.30	83.33	1	
Cd	111	103	He	0.007	69.38	543.35	5	
Sn	118	103	He	0.002	95.17	266.68	2	
Sb	121	103	He	0.001	425.86	256.68	1	
Ba	137	103	He	0.441	16.20	25437.27	2	
Tl	205	175	He	0.000	123.82	240.01	5	
Pb	208	175	He	0.099	9.42	175015.80	5	
U	238	175	He	0.020	7.20	36665.79	5	

QC ISTD Table

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Sc (No He)	45	No Gas	1236381.08	1.57	1212885.92	101.94	60	120	
Sc	45	He	17832.00	1.47	17808.6766666667	100.13	60	120	
Ge	72	He	18382.92	0.51	19508.8466666667	94.23	60	120	

Sample Report

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Rh	103	He	610345.17	0.45	685031.89	89.1	60	120	
Lu	175	He	332643.59	0.74	351241.546666667	94.71	60	120	

Continuing Calibration Verification (CCV) Report

Sample Name	CCV 14K05175
File Name	036_CCV.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\110514ICPMS8.b
Acq Time	2014-11-05 13:33:58
Sample Type	CCV
Total Dilution	1.0000
Comment	---
ISTD Ref FileName	004CALB.d
Sample QC Pass/Fial	Fail
ISTD QC Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD	Tune Mode	Conc.	Conc. RSD	CPS	ExpValue	% Rec	%QC Low	%QC High	QC Flag
B	11	45	No Gas	0.100	2.70	65374.00	0.9	11.14	10	10	
Be	9	45	He	0.109	3.14	1175.05	0.9	12.1	10	10	
Na	23	45	He	11.238	1.20	1522126.64	0.9	1248.68	1000	1000	CCV Main CR1 Failed
Mg	24	45	He	10.591	2.34	685311.03	0.9	1176.76	1000	1000	
Al	27	45	He	0.979	4.99	16142.44	0.9	108.77	100	100	
K	39	45	He	10.162	0.40	436143.79	0.9	1129.06	1000	1000	
Ca	43	45	He	10.551	2.66	1602.76	0.9	1172.29	1000	1000	
Ti	47	45	He	0.104	8.18	2363.56	0.9	11.54	10	10	
V	51	45	He	0.105	0.67	122724.43	0.9	11.62	10	10	
Cr	52	45	He	0.107	1.04	167057.59	0.9	11.84	10	10	
Mn	55	72	He	0.103	0.43	57386.94	0.9	11.5	10	10	
Fe	56	72	He	1.042	1.48	1238216.88	0.9	115.73	100	100	
Co	59	72	He	0.105	1.40	342927.85	0.9	11.64	10	10	
Ni	60	72	He	0.105	1.49	100531.05	0.9	11.67	10	10	
Cu	63	72	He	0.105	0.40	295011.38	0.9	11.7	10	10	
Zn	66	72	He	0.102	0.49	30355.61	0.9	11.29	10	10	
As	75	72	He	0.101	2.33	20656.63	0.9	11.22	10	10	
Se	78	72	He	0.097	6.96	624.68	0.9	10.83	10	10	
Sr	88	72	He	0.101	1.21	58644.74	0.9	11.18	10	10	
Mo	95	72	He	0.103	0.42	118368.69	0.9	11.45	10	10	
Ag	107	103	He	0.102	0.16	462201.32	0.9	11.38	10	10	
Cd	111	103	He	0.101	1.36	47115.61	0.9	11.25	10	10	
Sn	118	103	He	0.101	2.19	86286.82	0.9	11.24	10	10	
Sb	121	103	He	0.099	1.16	113152.46	0.9	11.02	10	10	
Ba	137	103	He	0.097	1.06	35342.29	0.9	10.78	10	10	
Tl	205	175	He	0.107	0.86	876165.15	0.9	11.84	10	10	
Pb	208	175	He	0.107	0.19	1130840.01	0.9	11.9	10	10	
U	238	175	He	0.103	1.11	1120549.98	0.9	11.47	10	10	

QC ISTD Table

Continuing Calibration Verification (CCV) Report

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Sc (No He)	45	No Gas	1258915.58	2.69	1212885.92	103.8	60	120	
Sc	45	He	17476.05	0.25	17808.6766666667	98.13	60	120	
Ge	72	He	19153.95	1.52	19508.8466666667	98.18	60	120	
Rh	103	He	692852.96	0.78	685031.89	101.14	60	120	
Lu	175	He	356750.91	0.54	351241.546666667	101.57	60	120	

Continuing Calibration Blank (CCB) Report

Sample Name	CCB 14K05174
File Name	037_CCB.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\110514ICPMS8.b
Acq Time	2014-11-05 13:35:26
Sample Type	CCB
Total Dilution	1.0000
Comment	---
ISTD Ref FileName	004CALB.d
Sample QC Pass/Fial	Pass
ISTD QC Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD	Tune Mode	Conc.	Conc. RSD	CPS	Limit	QC Flag
B	11	45	No Gas	0.008	0.83	5527.04	0.015	
Be	9	45	He	0.000	2330.56	0.33	0.00075	
Na	23	45	He	0.159	3.95	31690.79	0.75	
Mg	24	45	He	0.020	6.05	1290.08	0.75	
Al	27	45	He	0.003	66.25	86.67	0.0375	
K	39	45	He	-0.001	-260.40	8355.89	0.75	
Ca	43	45	He	0.080	47.76	25.33	0.75	
Ti	47	45	He	0.000	99.65	10.00	0.0075	
V	51	45	He	0.000	28.68	130.00	0.0015	
Cr	52	45	He	0.000	65.75	1216.74	0.00075	
Mn	55	72	He	0.000	34.34	163.34	0.0015	
Fe	56	72	He	0.001	4.22	7565.42	0.0375	
Co	59	72	He	0.000	23.06	130.00	0.00075	
Ni	60	72	He	0.000	40.27	130.00	0.00075	
Cu	63	72	He	0.000	29.09	420.02	0.0015	
Zn	66	72	He	0.000	104.13	246.68	0.0075	
As	75	72	He	0.000	40.33	10.22	0.00075	
Se	78	72	He	0.000	-123.08	4.67	0.00075	
Sr	88	72	He	0.000	1.34	333.34	0.0075	
Mo	95	72	He	0.000	58.12	70.00	0.0015	
Ag	107	103	He	0.000	56.74	180.00	0.000375	
Cd	111	103	He	0.000	38.04	22.00	0.000375	
Sn	118	103	He	0.000	44.78	110.00	0.00075	
Sb	121	103	He	0.000	17.55	413.35	0.00075	
Ba	137	103	He	0.000	89.16	26.67	0.0015	
Tl	205	175	He	0.000	33.89	333.34	0.00075	
Pb	208	175	He	0.000	5.03	786.70	0.00075	
U	238	175	He	0.000	6.69	456.69	0.0075	

QC ISTD Table

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Sc (No He)	45	No Gas	1218714.49	1.68	1212885.92	100.48	60	120	
Sc	45	He	17001.06	0.83	17808.6766666667	95.47	60	120	

Continuing Calibration Blank (CCB) Report

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Ge	72	He	18578.72	1.52	19508.8466666667	95.23	60	120	
Rh	103	He	690382.18	0.61	685031.89	100.78	60	120	
Lu	175	He	355400.01	0.44	351241.546666667	101.18	60	120	

Low Level Continuing Calibration Verification(LLCCV) Report

Sample Name	LLCCV 14K05179
File Name	038LCCV.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\110514ICPMS8.b
Acq Time	2014-11-05 13:36:54
Sample Type	LLCCV
Total Dilution	1.0000
Comment	---
ISTD Ref FileName	004CALB.d
Sample QC Pass/Fial	Pass
ISTD QC Pass/Fail	Pass

QC Analyte Table

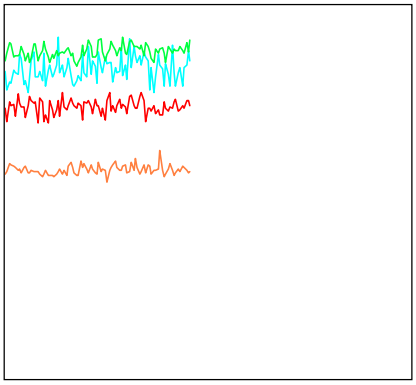
Name	Mass	ISTD	Tune Mode	Conc.	Conc. RSD	CPS	ExpValue	% Rec	%QC Low	%QC High	QC Flag
Be	9	45	He	0.001	18.31	10.67	0.001	99.14	70	130	
V	51	45	He	0.002	9.71	2270.22	0.002	98.57	70	130	
Cr	52	45	He	0.001	7.16	2817.00	0.001	117.21	70	130	
Mn	55	72	He	0.002	16.79	1090.07	0.002	98.28	70	130	
Co	59	72	He	0.001	5.02	3280.44	0.001	102.19	70	130	
Ni	60	72	He	0.001	8.01	1233.40	0.001	122.02	70	130	
Cu	63	72	He	0.001	0.53	3413.79	0.001	120.58	70	130	
Zn	66	72	He	0.011	2.17	3257.10	0.01	106.21	70	130	
As	75	72	He	0.001	4.12	201.34	0.001	100.03	70	130	
Se	78	72	He	0.001	34.83	13.33	0.001	92.44	70	130	
Mo	95	72	He	0.002	8.92	2330.23	0.002	104.31	70	130	
Ag	107	103	He	0.000	2.18	2173.54	0.0005	96.28	70	130	
Cd	111	103	He	0.000	7.09	228.67	0.0005	97.32	70	130	
Sn	118	103	He	0.001	4.22	1010.06	0.001	114.81	70	130	
Sb	121	103	He	0.001	7.37	1366.76	0.001	103.96	70	130	
Ba	137	103	He	0.002	14.96	660.03	0.002	90.44	70	130	
Tl	205	175	He	0.001	4.69	8526.29	0.001	104.25	70	130	
Pb	208	175	He	0.001	3.27	11805.67	0.001	111.88	70	130	

QC ISTD Table

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Sc (No He)	45	No Gas	1222728.81	0.49	1212885.92	100.81	60	120	
Sc	45	He	16885.35	1.70	17808.6766666667	94.82	60	120	
Ge	72	He	18576.49	1.76	19508.8466666667	95.22	60	120	
Rh	103	He	691137.38	0.56	685031.89	100.89	60	120	
Lu	175	He	353434.69	1.14	351241.546666667	100.62	60	120	

Current Signal

[No Gas]



Mass	Range	Count	Avg. Count	RSD [%]
7	2000	1705	1660.1	4.00
59	20000	18185	17559.3	1.99
89	50000	27769	27968.4	2.28
205	20000	14627	14568.6	2.61
156/140	1	0.625 %	0.642 %	8.13
70/140	5	1.667 %	1.773 %	7.46
103	2000	940	1204.7	16.45
Integration Time [sec]		0.10		

Plasma Parameters

RF Power	1550	W	Nebulizer Pump	0.10	rps
RF Matching	1.60	V	S/C Temp	2	℃
Smpl Depth	10.0	mm	Gas Switch	Dilution Gas	
Carrier Gas	0.76	L/min	Makeup/Dilution Gas	0.30	L/min
Option Gas	0.0	%			

Lenses Parameters

Extract 1	0.0	V	Cell Entrance	-30	V
Extract 2	-220.0	V	Cell Exit	-52	V
Omega Bias	-80	V	Deflect	15.4	V
Omega Lens	8.8	V	Plate Bias	-40	V

Cell Parameters

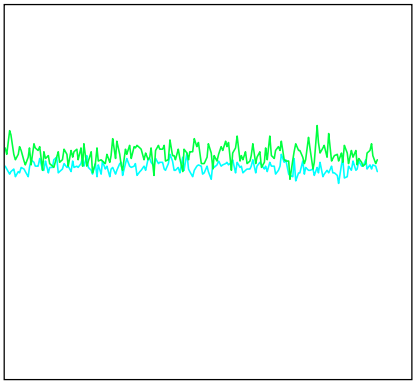
Use Gas	false		OctP Bias	-8.0	V
He Flow	5.0	mL/min	OctP RF	150	V
H2 Flow	0.0	mL/min	Energy Discrimination	5.0	V
3rd Gas Flow	0	%			

Meters

IF/BK Press	1.80E+2	Pa	Carrier Gas(BP)	2.92E+2	kPa
Water RF/WC/IF	1.24	L/min	Carrier Gas	0.76	L/min
Ar Gas Tank Press	6.02E+2	kPa			

Current Signal

[He]



Mass	Range	Count	Avg. Count	RSD [%]
59	5000	2770	2826.9	2.64
89	2000	1173	1200.7	3.96
51/59	1	0.000 %	0.084 %	65.06
75	20	0	0.2	253.33
78	20	1	0.5	142.60
Integration Time [sec]			0.10	

Plasma Parameters

RF Power	1550	W	Nebulizer Pump	0.10	rps
RF Matching	1.60	V	S/C Temp	2	℃
Smpl Depth	10.0	mm	Gas Switch	Dilution Gas	
Carrier Gas	0.76	L/min	Makeup/Dilution Gas	0.30	L/min
Option Gas	0.0	%			

Lenses Parameters

Extract 1	0.0	V	Cell Entrance	-36	V
Extract 2	-220.0	V	Cell Exit	-64	V
Omega Bias	-80	V	Deflect	4.0	V
Omega Lens	8.8	V	Plate Bias	-60	V

Cell Parameters

Use Gas	true		OctP Bias	-18.0	V
He Flow	4.9	mL/min	OctP RF	150	V
H2 Flow	0.0	mL/min	Energy Discrimination	5.0	V
3rd Gas Flow	0	%			

Meters

IF/BK Press	1.82E+2	Pa	Carrier Gas(BP)	2.92E+2	kPa
Water RF/WC/IF	1.25	L/min	Carrier Gas	0.76	L/min
Ar Gas Tank Press	6.03E+2	kPa			

Tune Report

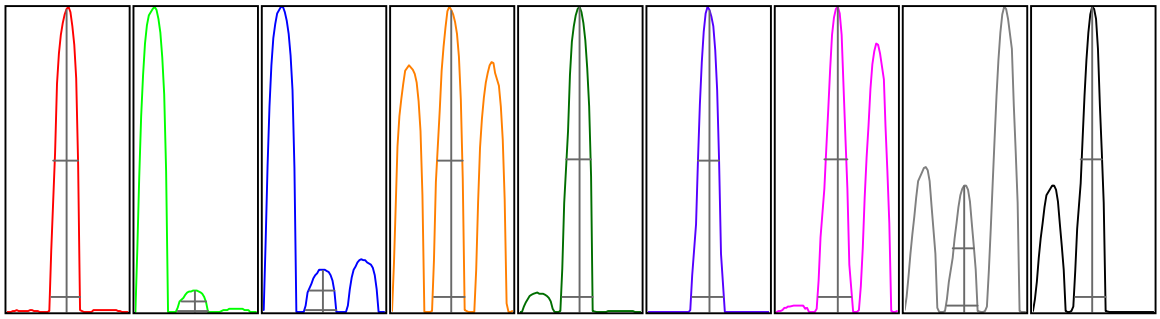
Batch Folder	C:\Agilent\ICPMH\1\DATA\103114ICPMS8.b
Acq. Date-Time	2014-10-31 09:07
Report Comment	
Instrument Name	G8403A JP14080166

[No Gas]

Mass	RSD % (Actual)	RSD % (Required)	RSD % (Flag)
9	2.16	5.00	
24	0.58	5.00	
25	0.94	5.00	
26	1.00	5.00	
59	0.37	5.00	
115	0.71	5.00	
206	0.99	5.00	
207	0.44	5.00	
208	1.00	5.00	

Mass	Rep. 1 Count	Rep. 2 Count	Rep. 3 Count	Rep. 4 Count	Rep. 5 Count
9	4324	4196	4461	4326	4340
24	34762	35145	34930	35249	34854
25	4773	4867	4890	4857	4870
26	5902	5896	5923	5805	5966
59	95429	95818	95668	95545	94885
115	129113	129756	131447	130936	130265
206	22457	22653	22830	22990	22497
207	19590	19741	19665	19781	19794
208	47054	47610	47909	48325	47972

Integration Time [sec] 0.1



Mass	Peak Height	Axis (Actual)	Axis (Required)	Axis (Flag)	W-50 %	W-5 % (Actual)	W-5 % (Required)	W-5 % (Flag)
9	757.90	9.00	8.9 - 9.1		0.60	0.734	0.850	
24	5784.71	24.00	23.9 - 24.1		0.64	0.783	0.850	
25	800.43	25.00	24.9 - 25.1		0.64	0.780	0.850	
26	989.85	26.00	25.9 - 26.1		0.62	0.781	0.850	
59	16515.92	59.00	58.9 - 59.1		0.61	0.777	0.850	
115	24521.10	115.05	114.9 - 115.1		0.55	0.768	0.850	
206	4364.22	206.05	205.9 - 206.1		0.53	0.812	0.850	
207	3837.95	207.00	206.9 - 207.1		0.53	0.769	0.850	
208	9216.01	208.00	207.9 - 208.1		0.53	0.779	0.850	

Tune Report

Integration Time [sec] 0.1 **Acquisition Time [sec]** 212.5 **Y Axis** Linear

Tune Parameters
Plasma Paramters

RF Power	1550 W	Nebulizer Pump	0.10 rps
RF Matching	1.60 V	S/C Temp	2 ℃
Smpl Depth	10.0 mm	Gas Switch	Dilution Gas
Carrier Gas	0.76 L/min	Makeup/Dilution Gas	0.30 L/min
Option Gas	0.0 %		

Lenses Parameters

Extract 1	0.0 V	Cell Entrance	-30 V
Extract 2	-220.0 V	Cell Exit	-52 V
Omega Bias	-80 V	Deflect	15.4 V
Omega Lens	8.8 V	Plate Bias	-40 V

Cell Parameters

Use Gas	false	OctP Bias	-8.0 V
He Flow	0.0 mL/min	OctP RF	150 V
H2 Flow	0.0 mL/min	Energy Discrimination	5.0 V
3rd Gas Flow	0 %		

Calibration Blank Report

Sample Name	CALBLK 14J31924
File Name	001CALB.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\103114ICPMS8.b
Acq Time	2014-10-31 12:57:44
Sample Type	CalBlk
Total Dilution	1.0000
Comment	---
ISTD Ref FileName	001CALB.d
Sample QC Pass/Fial	Pass
ISTD QC Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD	Tune Mode	CPS	CPS RSD
Na	23	45	He	15781.96	1.83
Mg	24	45	He	70.00	14.29
Al	27	45	He	33.33	62.45
K	39	45	He	6184.75	5.92
Ca	43	45	He	9.33	57.16
V	51	45	He	33.33	34.64
Cr	52	45	He	1560.11	7.05
Mn	55	72	He	56.67	61.97
Fe	56	72	He	6034.69	7.14
Co	59	72	He	16.67	34.64
Ni	60	72	He	123.33	12.39
Cu	63	72	He	150.00	6.67
Zn	66	72	He	113.33	26.96
As	75	72	He	2.67	50.06
Se	78	72	He	5.67	66.81
Sr	88	72	He	100.00	30.00
Mo	95	72	He	6.67	86.60
Ag	107	103	He	3.33	173.21
Cd	111	103	He	2.00	173.21
Sn	118	103	He	30.00	33.33
Sb	121	103	He	80.00	21.65
Tl	205	175	He	23.33	24.74
Pb	208	175	He	63.33	24.12
U	238	175	He	3.33	173.21

QC ISTD Table

Name	Mass	Tune Mode	CPS	CPS RSD
Sc (No He)	45	No Gas	1658922.21	3.34
Sc	45	He	18476.15	1.92
Ge	72	He	20144.15	1.16
Rh	103	He	799753.79	0.82
Lu	175	He	351585.43	0.22

Calibration Blank Report

Sample Name	CALBLK 14J31924
File Name	002CALB.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\103114ICPMS8.b
Acq Time	2014-10-31 12:59:22
Sample Type	CalBlk
Total Dilution	1.0000
Comment	---
ISTD Ref FileName	002CALB.d
Sample QC Pass/Fial	Pass
ISTD QC Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD	Tune Mode	CPS	CPS RSD
Na	23	45	He	16295.84	2.52
Mg	24	45	He	50.00	20.00
Al	27	45	He	13.33	114.56
K	39	45	He	6094.71	3.89
Ca	43	45	He	4.89	103.28
V	51	45	He	30.00	66.67
Cr	52	45	He	1573.44	11.31
Mn	55	72	He	63.33	32.87
Fe	56	72	He	5100.98	4.79
Co	59	72	He	36.67	15.75
Ni	60	72	He	106.67	30.14
Cu	63	72	He	173.33	18.55
Zn	66	72	He	146.67	25.81
As	75	72	He	1.78	43.54
Se	78	72	He	4.67	44.61
Sr	88	72	He	63.33	24.12
Ag	107	103	He	6.67	86.60
Sn	118	103	He	23.33	49.49
Sb	121	103	He	96.67	11.95
Tl	205	175	He	13.33	43.30
Pb	208	175	He	73.33	43.83

QC ISTD Table

Name	Mass	Tune Mode	CPS	CPS RSD
Sc (No He)	45	No Gas	1630245.08	2.74
Sc	45	He	18475.02	1.02
Ge	72	He	20319.98	0.80
Rh	103	He	806457.85	0.97
Lu	175	He	359260.16	0.70

Calibration Standard Report

Sample Name	STD1 14J31925
File Name	003CALS.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\103114ICPMS8.b
Acq Time	2014-10-31 13:00:57
Sample Type	CalStd
Total Dilution	1.0000
Comment	---
ISTD Ref FileName	002CALB.d
Sample QC Pass/Fial	Pass
ISTD QC Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD	Tune Mode	CPS	CPS RSD
Be	9	45	He	3.67	68.63
Na	23	45	He	24220.08	1.21
Mg	24	45	He	3653.84	7.51
Al	27	45	He	136.67	15.24
K	39	45	He	8332.52	1.87
Ca	43	45	He	16.89	16.43
Ti	47	45	He	26.67	43.30
V	51	45	He	696.70	8.77
Cr	52	45	He	2466.92	7.36
Mn	55	72	He	380.01	21.05
Fe	56	72	He	11501.43	1.56
Co	59	72	He	2010.18	8.19
Ni	60	72	He	693.36	7.26
Cu	63	72	He	2166.88	3.76
Zn	66	72	He	403.34	12.23
As	75	72	He	118.67	14.08
Se	78	72	He	10.33	49.66
Sr	88	72	He	360.01	13.89
Mo	95	72	He	666.69	17.06
Ag	107	103	He	2780.33	4.72
Cd	111	103	He	268.67	7.15
Sn	118	103	He	476.69	10.56
Sb	121	103	He	633.36	14.67
Ba	137	103	He	210.01	20.76
Tl	205	175	He	4867.65	7.78
Pb	208	175	He	6467.41	1.01
U	238	175	He	6321.65	4.44

QC ISTD Table

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Sc (No He)	45	No Gas	1561843.05	4.43	1630245.08	95.8	60	120	
Sc	45	He	18425.01	1.67	18475.0233333333	99.73	60	120	
Ge	72	He	20240.99	1.80	20319.9766666667	99.61	60	120	
Rh	103	He	805154.83	1.51	806457.853333333	99.84	60	120	

Calibration Standard Report

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Lu	175	He	354721.23	2.15	359260.163333333	98.74	60	120	

Calibration Standard Report

Sample Name	STD2 14J31925
File Name	004CALS.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\103114ICPMS8.b
Acq Time	2014-10-31 13:02:49
Sample Type	CalStd
Total Dilution	1.0000
Comment	---
ISTD Ref FileName	002CALB.d
Sample QC Pass/Fial	Pass
ISTD QC Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD	Tune Mode	CPS	CPS RSD
Be	9	45	He	15.67	20.52
Na	23	45	He	28400.77	1.52
Mg	24	45	He	5987.98	9.70
Al	27	45	He	133.33	4.33
K	39	45	He	9856.82	6.90
Ca	43	45	He	22.22	35.17
Ti	47	45	He	13.33	114.56
V	51	45	He	1136.73	17.71
Cr	52	45	He	3220.41	8.28
Mn	55	72	He	556.69	9.89
Fe	56	72	He	16916.86	3.32
Co	59	72	He	3423.80	3.98
Ni	60	72	He	1070.06	4.28
Cu	63	72	He	3233.77	3.17
Zn	66	72	He	1356.76	16.32
As	75	72	He	194.22	16.48
Se	78	72	He	10.33	40.29
Sr	88	72	He	590.02	21.64
Mo	95	72	He	1130.07	18.65
Ag	107	103	He	4240.72	6.89
Cd	111	103	He	428.01	9.01
Sn	118	103	He	700.03	4.29
Sb	121	103	He	950.05	11.09
Ba	137	103	He	316.68	11.96
Tl	205	175	He	7879.17	10.41
Pb	208	175	He	10158.46	8.43
U	238	175	He	9997.46	11.54

QC ISTD Table

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Sc (No He)	45	No Gas	1548173.05	5.09	1630245.08	94.97	60	120	
Sc	45	He	17229.08	0.47	18475.0233333333	93.26	60	120	
Ge	72	He	18665.51	2.30	20319.9766666667	91.86	60	120	
Rh	103	He	754928.19	1.61	806457.853333333	93.61	60	120	

Calibration Standard Report

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Lu	175	He	335102.90	1.24	359260.163333333	93.28	60	120	

Calibration Standard Report

Sample Name	STD3 14J31925
File Name	005CALS.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\103114ICPMS8.b
Acq Time	2014-10-31 13:04:24
Sample Type	CalStd
Total Dilution	1.0000
Comment	---
ISTD Ref FileName	002CALB.d
Sample QC Pass/Fial	Pass
ISTD QC Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD	Tune Mode	CPS	CPS RSD
Be	9	45	He	132.00	1.52
Na	23	45	He	174352.43	1.54
Mg	24	45	He	72115.42	0.62
Al	27	45	He	1703.46	5.79
K	39	45	He	50126.09	1.09
Ca	43	45	He	169.33	1.57
Ti	47	45	He	273.34	14.79
V	51	45	He	13933.55	2.17
Cr	52	45	He	20344.51	0.39
Mn	55	72	He	5867.95	2.33
Fe	56	72	He	137535.37	1.01
Co	59	72	He	40744.51	3.13
Ni	60	72	He	12375.51	3.10
Cu	63	72	He	35647.74	1.88
Zn	66	72	He	3677.20	3.13
As	75	72	He	2250.85	3.30
Se	78	72	He	70.67	11.35
Sr	88	72	He	6081.38	0.87
Mo	95	72	He	13319.83	2.16
Ag	107	103	He	53492.19	1.01
Cd	111	103	He	5192.98	1.45
Sn	118	103	He	8756.27	3.23
Sb	121	103	He	12419.08	2.71
Ba	137	103	He	3360.48	1.19
Tl	205	175	He	97321.59	1.48
Pb	208	175	He	127227.04	1.93
U	238	175	He	126388.03	0.35

QC ISTD Table

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Sc (No He)	45	No Gas	1591251.33	2.55	1630245.08	97.61	60	120	
Sc	45	He	19009.04	1.03	18475.0233333333	102.89	60	120	
Ge	72	He	20609.27	0.60	20319.9766666667	101.42	60	120	
Rh	103	He	825600.93	0.10	806457.853333333	102.37	60	120	

Calibration Standard Report

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Lu	175	He	367273.18	0.84	359260.163333333	102.23	60	120	

Calibration Standard Report

Sample Name	STD4 14J31925
File Name	006CALS.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\103114ICPMS8.b
Acq Time	2014-10-31 13:05:59
Sample Type	CalStd
Total Dilution	1.0000
Comment	---
ISTD Ref FileName	002CALB.d
Sample QC Pass/Fial	Pass
ISTD QC Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD	Tune Mode	CPS	CPS RSD
Be	9	45	He	669.68	6.53
Na	23	45	He	820250.56	0.31
Mg	24	45	He	365153.64	1.10
Al	27	45	He	8639.32	1.47
K	39	45	He	226832.60	1.00
Ca	43	45	He	802.25	3.69
Ti	47	45	He	1246.75	9.40
V	51	45	He	70473.77	1.54
Cr	52	45	He	96411.58	0.37
Mn	55	72	He	30161.69	0.78
Fe	56	72	He	674982.36	1.05
Co	59	72	He	202100.36	0.23
Ni	60	72	He	60884.67	0.62
Cu	63	72	He	177978.48	0.63
Zn	66	72	He	17417.46	2.22
As	75	72	He	11600.69	0.32
Se	78	72	He	304.67	2.46
Sr	88	72	He	29240.48	1.28
Mo	95	72	He	67152.92	1.01
Ag	107	103	He	271127.09	1.50
Cd	111	103	He	25875.85	1.80
Sn	118	103	He	45551.65	1.33
Sb	121	103	He	59772.06	1.24
Ba	137	103	He	18108.83	2.22
Tl	205	175	He	493595.79	0.62
Pb	208	175	He	632434.86	0.41
U	238	175	He	634106.58	0.59

QC ISTD Table

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Sc (No He)	45	No Gas	1484665.50	3.08	1630245.08	91.07	60	120	
Sc	45	He	19005.72	0.87	18475.0233333333	102.87	60	120	
Ge	72	He	20639.31	0.92	20319.9766666667	101.57	60	120	
Rh	103	He	818580.98	0.31	806457.853333333	101.5	60	120	

Calibration Standard Report

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Lu	175	He	372297.20	0.32	359260.163333333	103.63	60	120	

Calibration Standard Report

Sample Name	STD5 14J31925
File Name	007CALS.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\103114ICPMS8.b
Acq Time	2014-10-31 13:07:34
Sample Type	CalStd
Total Dilution	1.0000
Comment	---
ISTD Ref FileName	002CALB.d
Sample QC Pass/Fial	Pass
ISTD QC Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD	Tune Mode	CPS	CPS RSD
Be	9	45	He	1381.40	0.65
Na	23	45	He	1660378.62	1.46
Mg	24	45	He	723205.87	0.92
Al	27	45	He	16516.12	5.11
K	39	45	He	447193.57	1.10
Ca	43	45	He	1576.53	2.58
Ti	47	45	He	2320.23	9.00
V	51	45	He	140624.62	0.81
Cr	52	45	He	191275.40	0.39
Mn	55	72	He	59652.90	1.29
Fe	56	72	He	1364357.48	0.32
Co	59	72	He	401353.59	0.53
Ni	60	72	He	118704.70	1.10
Cu	63	72	He	349353.82	0.19
Zn	66	72	He	34521.67	0.73
As	75	72	He	23030.88	0.77
Se	78	72	He	634.35	2.89
Sr	88	72	He	59859.78	1.44
Mo	95	72	He	135884.65	0.67
Ag	107	103	He	537383.10	0.93
Cd	111	103	He	51540.41	0.77
Sn	118	103	He	90033.63	0.77
Sb	121	103	He	118344.07	0.79
Ba	137	103	He	35589.76	2.56
Tl	205	175	He	978860.74	0.72
Pb	208	175	He	1258702.86	0.48
U	238	175	He	1267338.86	0.79

QC ISTD Table

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Sc (No He)	45	No Gas	1596937.06	1.09	1630245.08	97.96	60	120	
Sc	45	He	18680.86	0.62	18475.0233333333	101.11	60	120	
Ge	72	He	20602.61	1.47	20319.9766666667	101.39	60	120	
Rh	103	He	817117.51	1.12	806457.853333333	101.32	60	120	

Calibration Standard Report

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Lu	175	He	368624.26	0.10	359260.163333333	102.61	60	120	

Calibration Standard Report

Sample Name	STD6 14J31925
File Name	008CALS.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\103114ICPMS8.b
Acq Time	2014-10-31 13:09:08
Sample Type	CalStd
Total Dilution	1.0000
Comment	---
ISTD Ref FileName	002CALB.d
Sample QC Pass/Fial	Pass
ISTD QC Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD	Tune Mode	CPS	CPS RSD
Be	9	45	He	2739.59	2.50
Na	23	45	He	3247597.14	0.82
Mg	24	45	He	1474313.68	0.46
Al	27	45	He	33130.88	2.37
K	39	45	He	883724.96	0.35
Ca	43	45	He	3127.01	0.46
Ti	47	45	He	5097.64	5.20
V	51	45	He	280201.69	1.20
Cr	52	45	He	377708.94	0.59
Mn	55	72	He	119183.37	1.16
Fe	56	72	He	2717646.73	1.21
Co	59	72	He	800558.74	0.88
Ni	60	72	He	234976.47	1.29
Cu	63	72	He	688351.29	0.40
Zn	66	72	He	67655.46	1.13
As	75	72	He	46060.24	0.32
Se	78	72	He	1215.72	4.23
Sr	88	72	He	119183.70	0.53
Mo	95	72	He	268966.42	0.20
Ag	107	103	He	1029946.44	3.18
Cd	111	103	He	102252.00	0.36
Sn	118	103	He	178335.59	1.30
Sb	121	103	He	235774.59	1.01
Ba	137	103	He	71623.05	1.64
Tl	205	175	He	2022374.92	1.93
Pb	208	175	He	2532844.04	0.78
U	238	175	He	2686906.73	0.52

QC ISTD Table

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Sc (No He)	45	No Gas	1637941.49	4.34	1630245.08	100.47	60	120	
Sc	45	He	18992.39	1.15	18475.0233333333	102.8	60	120	
Ge	72	He	20466.84	0.46	20319.9766666667	100.72	60	120	
Rh	103	He	812163.53	0.97	806457.853333333	100.71	60	120	

Calibration Standard Report

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Lu	175	He	374770.08	0.51	359260.163333333	104.32	60	120	

Initial Calibration Verification (ICV) Report

Sample Name	ICV 14J31927
File Name	009_ICV.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\103114ICPMS8.b
Acq Time	2014-10-31 13:10:40
Sample Type	ICV
Total Dilution	1.0000
Comment	---
ISTD Ref FileName	002CALB.d
Sample QC Pass/Fial	Fail
ISTD QC Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD	Tune Mode	Conc.	Conc. RSD	CPS	ExpValue	% Rec	%QC Low	%QC High	QC Flag
Be	9	45	He	0.103	5.88	1402.74	0.9	11.41	10	10	
Na	23	45	He	1.007	1.41	179297.83	0.9	111.89	1000	1000	ICV Main CR1 Failed
Mg	24	45	He	1.017	3.11	74483.81	0.9	113.03	1000	1000	ICV Main CR1 Failed
Al	27	45	He	1.026	2.36	16980.01	0.9	114.04	100	100	
K	39	45	He	1.017	4.17	50744.67	0.9	112.98	1000	1000	ICV Main CR1 Failed
Ca	43	45	He	1.866	4.75	296.00	0.9	207.34	1000	1000	ICV Main CR1 Failed
Ti	47	45	He	0.105	10.23	2610.27	0.9	11.63	10	10	
V	51	45	He	0.100	1.62	140341.46	0.9	11.15	10	10	
Cr	52	45	He	0.102	2.29	192883.03	0.9	11.32	10	10	
Mn	55	72	He	0.099	0.62	60074.47	0.9	10.99	10	10	
Fe	56	72	He	0.981	0.65	1359680.29	0.9	109	100	100	
Co	59	72	He	0.101	0.42	413716.91	0.9	11.27	10	10	
Ni	60	72	He	0.101	1.66	121363.05	0.9	11.23	10	10	
Cu	63	72	He	0.102	0.86	357510.01	0.9	11.28	10	10	
Zn	66	72	He	0.100	1.23	34825.78	0.9	11.16	10	10	
As	75	72	He	0.100	1.91	23385.24	0.9	11.08	10	10	
Se	78	72	He	0.102	4.44	635.68	0.9	11.29	10	10	
Sr	88	72	He	0.099	1.41	60174.38	0.9	11.01	10	10	
Mo	95	72	He	0.101	1.45	138137.34	0.9	11.19	10	10	
Ag	107	103	He	0.103	0.38	548243.18	0.9	11.48	10	10	
Cd	111	103	He	0.101	0.41	52804.40	0.9	11.23	10	10	
Sn	118	103	He	0.103	1.11	94217.74	0.9	11.48	10	10	
Sb	121	103	He	0.100	0.44	120308.46	0.9	11.1	10	10	
Ba	137	103	He	0.102	2.26	37247.44	0.9	11.34	10	10	
Tl	205	175	He	0.101	0.83	1023505.82	0.9	11.25	10	10	
Pb	208	175	He	0.104	1.52	1325863.04	0.9	11.56	10	10	
U	238	175	He	0.141	2.22	1324573.99	0.9	15.67	10	10	ICV Main CR1 Failed

QC ISTD Table

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Sc (No He)	45	No Gas	1620692.53	1.97	1630245.08	99.41	60	120	
Sc	45	He	18873.32	0.99	18475.0233333333	102.16	60	120	

Initial Calibration Verification (ICV) Report

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Ge	72	He	20875.24	0.81	20319.9766666667	102.73	60	120	
Rh	103	He	829465.43	0.34	806457.853333333	102.85	60	120	
Lu	175	He	376218.73	2.00	359260.163333333	104.72	60	120	

Initial Calibration Blank (ICB) Report

Sample Name	ICB 14J31924
File Name	011_ICB.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\103114ICPMS8.b
Acq Time	2014-10-31 13:15:00
Sample Type	ICB
Total Dilution	1.0000
Comment	---
ISTD Ref FileName	002CALB.d
Sample QC Pass/Fial	Pass
ISTD QC Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD	Tune Mode	Conc.	Conc. RSD	CPS	Limit	QC Flag
Be	9	45	He	0.000	173.21	0.33	0.00075	
Na	23	45	He	-0.008	-47.35	15224.75	0.75	
Mg	24	45	He	0.000	17.22	86.67	0.75	
Al	27	45	He	0.000	265.23	20.00	0.0375	
K	39	45	He	-0.008	-102.97	5811.28	0.75	
Ca	43	45	He	-0.015	-1.18	2.67	0.75	
Ti	47	45	He	0.000	NaN	0.00	0.0075	
V	51	45	He	0.000	-288.61	26.67	0.0015	
Cr	52	45	He	0.000	-460.97	1566.78	0.00075	
Mn	55	72	He	0.000	327.93	73.33	0.0015	
Fe	56	72	He	0.000	-219.62	4907.60	0.0375	
Co	59	72	He	0.000	-102.62	20.00	0.00075	
Ni	60	72	He	0.000	-77.40	83.33	0.00075	
Cu	63	72	He	0.000	-444.97	163.34	0.0015	
Zn	66	72	He	0.000	-147.23	126.67	0.0075	
As	75	72	He	0.000	113.10	3.55	0.00075	
Se	78	72	He	0.000	4097.68	4.67	0.00075	
Sr	88	72	He	0.000	42.80	90.00	0.0075	
Mo	95	72	He	0.000	173.21	10.00	0.0015	
Ag	107	103	He	0.000	29.45	760.04	0.000375	
Cd	111	103	He	0.000	166.30	8.00	0.000375	
Sn	118	103	He	0.000	61.64	40.00	0.00075	
Sb	121	103	He	0.000	56.30	233.34	0.00075	
Ba	137	103	He	0.000	NaN	0.00	0.0015	
Tl	205	175	He	0.000	78.51	60.00	0.00075	
Pb	208	175	He	0.000	20.12	266.67	0.00075	
U	238	175	He	0.000	75.03	46.67	0.0075	

QC ISTD Table

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Sc (No He)	45	No Gas	1655855.81	2.54	1630245.08	101.57	60	120	
Sc	45	He	18736.49	0.99	18475.0233333333	101.42	60	120	
Ge	72	He	20121.93	1.90	20319.9766666667	99.03	60	120	
Rh	103	He	822963.95	0.33	806457.853333333	102.05	60	120	

Initial Calibration Blank (ICB) Report

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Lu	175	He	374329.47	0.34	359260.163333333	104.19	60	120	

Low Level Initial Calibration Verification(LLICV) Report

Sample Name	LLICV 14J31931
File Name	012LICV.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\103114ICPMS8.b
Acq Time	2014-10-31 13:16:25
Sample Type	LLICV
Total Dilution	1.0000
Comment	---
ISTD Ref FileName	002CALB.d
Sample QC Pass/Fial	Pass
ISTD QC Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD	Tune Mode	Conc.	Conc. RSD	CPS	ExpValue	% Rec	%QC Low	%QC High	QC Flag
Be	9	45	He	0.001	30.35	14.00	0.001	103.86	70	130	
V	51	45	He	0.002	4.10	2840.33	0.002	102.05	70	130	
Cr	52	45	He	0.001	1.93	3690.53	0.001	113.88	70	130	
Mn	55	72	He	0.002	7.93	1246.75	0.002	98.19	70	130	
Co	59	72	He	0.001	3.43	4150.67	0.001	101.62	70	130	
Ni	60	72	He	0.001	2.35	1473.44	0.001	114.63	70	130	
Cu	63	72	He	0.001	3.49	3987.30	0.001	109.14	70	130	
Zn	66	72	He	0.010	4.88	3620.52	0.01	101.31	70	130	
As	75	72	He	0.001	4.13	228.89	0.001	97.58	70	130	
Se	78	72	He	0.001	51.98	10.33	0.001	90.38	70	130	
Mo	95	72	He	0.002	2.72	2820.33	0.002	103.59	70	130	
Ag	107	103	He	0.001	9.45	3010.38	0.0005	113.73	70	130	
Cd	111	103	He	0.001	9.67	264.67	0.0005	101.53	70	130	
Sn	118	103	He	0.001	6.83	986.72	0.001	105.93	70	130	
Sb	121	103	He	0.001	19.52	1313.42	0.001	101.27	70	130	
Ba	137	103	He	0.002	18.45	670.03	0.002	92.32	70	130	
Tl	205	175	He	0.001	4.84	9833.84	0.001	98.1	70	130	
Pb	208	175	He	0.001	1.31	13289.56	0.001	104.75	70	130	

QC ISTD Table

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Sc (No He)	45	No Gas	1612099.66	2.68	1630245.08	98.89	60	120	
Sc	45	He	18595.22	1.80	18475.0233333333	100.65	60	120	
Ge	72	He	20710.53	0.37	20319.9766666667	101.92	60	120	
Rh	103	He	826275.09	1.67	806457.853333333	102.46	60	120	
Lu	175	He	372444.94	0.62	359260.163333333	103.67	60	120	

Interference Check Solution A (ICS-A) Report

Sample Name	ICSA 14J31929
File Name	015ICSA.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\103114ICPMS8.b
Acq Time	2014-10-31 13:24:45
Sample Type	ICSA
Total Dilution	1.0000
Comment	---
ISTD Ref FileName	002CALB.d
Sample QC Pass/Fial	Pass
ISTD QC Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD	Tune Mode	Conc.	Conc. RSD	CPS	ExpValue	%QC Low	%QC High	QC Flag
Na	23	45	He	93.340	1.73	14228121.04	0.8	10000	10000	
Mg	24	45	He	92.876	0.79	6407509.49	0.8	10000	10000	
Al	27	45	He	97.149	0.54	1514127.48	0.8	10000	10000	
K	39	45	He	95.509	1.34	3948855.36	0.8	10000	10000	
Ca	43	45	He	86.206	0.03	12682.83	0.8	10000	10000	
Ti	47	45	He	1.955	0.15	45966.10	0.8	200	200	
Fe	56	72	He	91.067	1.70	118634974.90	0.8	10000	10000	
Mo	95	72	He	1.968	0.59	2548121.47	0.8	200	200	

QC ISTD Table

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Sc (No He)	45	No Gas	1549651.33	2.73	1630245.08	95.06	60	120	
Sc	45	He	17793.07	1.56	18475.0233333333	96.31	60	120	
Ge	72	He	19698.00	1.53	20319.9766666667	96.94	60	120	
Rh	103	He	737675.46	1.07	806457.853333333	91.47	60	120	
Lu	175	He	349484.00	1.77	359260.163333333	97.28	60	120	

Interference Check Solution AB (ICS-AB) Report

Sample Name	ICSAB 14J31930
File Name	016ICSB.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\103114ICPMS8.b
Acq Time	2014-10-31 13:26:09
Sample Type	ICSB
Total Dilution	1.0000
Comment	---
ISTD Ref FileName	002CALB.d
Sample QC Pass/Fial	Pass
ISTD QC Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD	Tune Mode	Conc.	Conc. RSD	CPS	ExpValue	%QC Low	%QC High	QC Flag

QC ISTD Table

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Sc (No He)	45	No Gas	1529789.98	3.51	1630245.08	93.84	60	120	
Sc	45	He	17563.93	1.94	18475.0233333333	95.07	60	120	
Ge	72	He	19265.17	1.68	20319.9766666667	94.81	60	120	
Rh	103	He	731545.66	0.53	806457.853333333	90.71	60	120	
Lu	175	He	341989.57	0.23	359260.163333333	95.19	60	120	

Continuing Calibration Verification (CCV) Report

Sample Name	CCV
File Name	085_CCV.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\103114ICPMS8.b
Acq Time	2014-10-31 15:14:22
Sample Type	CCV
Total Dilution	1.0000
Comment	---
ISTD Ref FileName	002CALB.d
Sample QC Pass/Fial	Fail
ISTD QC Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD	Tune Mode	Conc.	Conc. RSD	CPS	ExpValue	% Rec	%QC Low	%QC High	QC Flag
Be	9	45	He	0.100	2.83	1202.38	0.9	11.13	10	10	
Na	23	45	He	9.866	1.72	1414536.59	0.9	1096.21	1000	1000	
Mg	24	45	He	9.653	1.63	620615.53	0.9	1072.6	1000	1000	
Al	27	45	He	0.957	2.96	13903.45	0.9	106.29	100	100	
K	39	45	He	9.695	1.23	378414.74	0.9	1077.18	1000	1000	
Ca	43	45	He	9.722	2.89	1336.51	0.9	1080.26	1000	1000	
Ti	47	45	He	0.088	4.55	1926.82	0.9	9.77	10	10	CCV Main CR1 Failed
V	51	45	He	0.100	1.32	122418.82	0.9	11.08	10	10	
Cr	52	45	He	0.101	1.28	167732.45	0.9	11.2	10	10	
Mn	55	72	He	0.096	2.07	51431.50	0.9	10.64	10	10	
Fe	56	72	He	0.988	1.95	1210519.70	0.9	109.8	100	100	
Co	59	72	He	0.100	1.93	358961.25	0.9	11.06	10	10	
Ni	60	72	He	0.100	1.68	106245.06	0.9	11.12	10	10	
Cu	63	72	He	0.102	2.19	316784.98	0.9	11.31	10	10	
Zn	66	72	He	0.098	0.28	30061.80	0.9	10.9	10	10	
As	75	72	He	0.097	1.47	20064.67	0.9	10.75	10	10	
Se	78	72	He	0.095	4.87	525.12	0.9	10.55	10	10	
Sr	88	72	He	0.096	1.63	51282.85	0.9	10.62	10	10	
Mo	95	72	He	0.103	1.32	124606.51	0.9	11.42	10	10	
Ag	107	103	He	0.102	0.74	495361.67	0.9	11.28	10	10	
Cd	111	103	He	0.096	1.09	46188.57	0.9	10.69	10	10	
Sn	118	103	He	0.096	0.76	80043.14	0.9	10.61	10	10	
Sb	121	103	He	0.096	0.25	106533.25	0.9	10.69	10	10	
Ba	137	103	He	0.095	1.83	32001.06	0.9	10.6	10	10	
Tl	205	175	He	0.102	0.41	959540.85	0.9	11.33	10	10	
Pb	208	175	He	0.103	0.39	1216118.97	0.9	11.4	10	10	
U	238	175	He	0.142	0.64	1239295.76	0.9	15.76	10	10	CCV Main CR1 Failed

QC ISTD Table

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Sc (No He)	45	No Gas	1528729.87	0.70	1630245.08	93.77	60	120	
Sc	45	He	16579.45	0.71	18475.0233333333	89.74	60	120	

Continuing Calibration Verification (CCV) Report

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Ge	72	He	18451.91	1.46	20319.9766666667	90.81	60	120	
Rh	103	He	762297.15	0.85	806457.853333333	94.52	60	120	
Lu	175	He	349969.50	1.12	359260.163333333	97.41	60	120	

Continuing Calibration Blank (CCB) Report

Sample Name	CCB
File Name	086_CCB.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\103114ICPMS8.b
Acq Time	2014-10-31 15:15:50
Sample Type	CCB
Total Dilution	1.0000
Comment	---
ISTD Ref FileName	002CALB.d
Sample QC Pass/Fial	Pass
ISTD QC Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD	Tune Mode	Conc.	Conc. RSD	CPS	Limit	QC Flag
Be	9	45	He	0.000	173.21	0.33	0.00075	
Na	23	45	He	0.056	8.51	22170.27	0.75	
Mg	24	45	He	0.005	47.38	336.68	0.75	
Al	27	45	He	0.002	33.93	40.00	0.0375	
K	39	45	He	-0.003	-170.18	5261.02	0.75	
Ca	43	45	He	0.011	48.04	5.78	0.75	
Ti	47	45	He	0.000	NaN	0.00	0.0075	
V	51	45	He	0.000	84.38	86.67	0.0015	
Cr	52	45	He	0.000	9.72	1556.77	0.00075	
Mn	55	72	He	0.000	74.10	140.00	0.0015	
Fe	56	72	He	0.002	17.33	6538.25	0.0375	
Co	59	72	He	0.000	21.50	170.00	0.00075	
Ni	60	72	He	0.000	186.20	113.33	0.00075	
Cu	63	72	He	0.000	17.48	526.69	0.0015	
Zn	66	72	He	0.000	50.44	186.67	0.0075	
As	75	72	He	0.000	41.20	22.67	0.00075	
Se	78	72	He	0.000	-680.78	4.00	0.00075	
Sr	88	72	He	0.000	101.69	110.00	0.0075	
Mo	95	72	He	0.000	66.97	56.67	0.0015	
Ag	107	103	He	0.000	13.32	356.68	0.000375	
Cd	111	103	He	0.000	22.53	32.00	0.000375	
Sn	118	103	He	0.000	96.71	50.00	0.00075	
Sb	121	103	He	0.000	52.61	190.01	0.00075	
Ba	137	103	He	0.000	23.91	40.00	0.0015	
Tl	205	175	He	0.000	18.88	556.69	0.00075	
Pb	208	175	He	0.000	17.47	1393.39	0.00075	
U	238	175	He	0.000	23.52	476.69	0.0075	

QC ISTD Table

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Sc (No He)	45	No Gas	1465075.55	1.14	1630245.08	89.87	60	120	
Sc	45	He	16334.73	1.12	18475.0233333333	88.42	60	120	
Ge	72	He	18545.35	1.37	20319.9766666667	91.27	60	120	
Rh	103	He	768080.82	1.15	806457.853333333	95.24	60	120	

Continuing Calibration Blank (CCB) Report

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Lu	175	He	341834.36	0.79	359260.163333333	95.15	60	120	

Low Level Continuing Calibration Verification(LLCCV) Report

Sample Name	LLCCV
File Name	087LCCV.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\103114ICPMS8.b
Acq Time	2014-10-31 15:17:17
Sample Type	LLCCV
Total Dilution	1.0000
Comment	---
ISTD Ref FileName	002CALB.d
Sample QC Pass/Fial	Pass
ISTD QC Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD	Tune Mode	Conc.	Conc. RSD	CPS	ExpValue	% Rec	%QC Low	%QC High	QC Flag
Be	9	45	He	0.001	34.25	11.33	0.001	95.41	70	130	
V	51	45	He	0.002	2.15	2523.60	0.002	102.48	70	130	
Cr	52	45	He	0.001	11.28	3080.37	0.001	102.54	70	130	
Mn	55	72	He	0.002	16.42	1170.07	0.002	105.31	70	130	
Co	59	72	He	0.001	9.43	3660.53	0.001	102.15	70	130	
Ni	60	72	He	0.001	7.97	1223.41	0.001	107.98	70	130	
Cu	63	72	He	0.001	2.53	3623.87	0.001	113.15	70	130	
Zn	66	72	He	0.011	4.41	3407.12	0.01	108.94	70	130	
As	75	72	He	0.001	5.83	221.34	0.001	107.54	70	130	
Se	78	72	He	0.001	59.42	9.56	0.001	99.41	70	130	
Mo	95	72	He	0.002	2.17	2463.59	0.002	103.05	70	130	
Ag	107	103	He	0.001	4.68	2643.63	0.0005	107.82	70	130	
Cd	111	103	He	0.001	10.35	258.00	0.0005	106.84	70	130	
Sn	118	103	He	0.001	7.60	913.38	0.001	106.05	70	130	
Sb	121	103	He	0.001	7.37	1213.41	0.001	101.12	70	130	
Ba	137	103	He	0.002	5.93	646.70	0.002	96.11	70	130	
Tl	205	175	He	0.001	4.11	9713.76	0.001	106.22	70	130	
Pb	208	175	He	0.001	3.23	13906.52	0.001	120.26	70	130	

QC ISTD Table

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Sc (No He)	45	No Gas	1471109.30	2.40	1630245.08	90.24	60	120	
Sc	45	He	16450.40	1.29	18475.0233333333	89.04	60	120	
Ge	72	He	18186.00	1.56	20319.9766666667	89.5	60	120	
Rh	103	He	764637.90	0.50	806457.853333333	94.81	60	120	
Lu	175	He	339792.00	1.11	359260.163333333	94.58	60	120	

Sample Report

Sample Name	BLANK WG751906
File Name	088SMPL.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\103114ICPMS8.b
Acq Time	2014-10-31 15:18:44
Sample Type	Sample
Total Dilution	1.1111
Comment	---
ISTD Ref FileName	002CALB.d
Sample QC Pass/Fial	Pass
ISTD QC Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD	Tune Mode	Conc.	Conc. RSD	CPS	LDR	QC Flag
Be	9	45	He	0.000	192.45	0.67	5	
Na	23	45	He	0.095	1.28	25121.56	90	
Mg	24	45	He	0.001	41.79	123.33	90	
Al	27	45	He	0.002	28.21	33.33	90	
K	39	45	He	-0.001	-550.99	5107.65	90	
Ca	43	45	He	0.018	174.53	6.22	90	
Ti	47	45	He	0.000	NaN	0.00	5	
V	51	45	He	0.000	-202.97	20.00	5	
Cr	52	45	He	0.001	8.28	2393.57	5	
Mn	55	72	He	0.000	85.82	90.00	5	
Fe	56	72	He	0.007	5.51	11277.88	90	
Co	59	72	He	0.000	59.83	100.00	5	
Ni	60	72	He	0.000	9.12	226.68	5	
Cu	63	72	He	0.000	9.16	850.04	5	
Zn	66	72	He	0.000	35.38	220.00	5	
As	75	72	He	0.000	71.42	10.22	5	
Se	78	72	He	0.000	756.66	4.22	5	
Sr	88	72	He	0.000	144.58	100.00	5	
Mo	95	72	He	0.000	20.37	60.00	5	
Ag	107	103	He	0.000	25.82	73.33	1	
Cd	111	103	He	0.000	63.04	12.67	5	
Sn	118	103	He	0.000	61.37	100.00	2	
Sb	121	103	He	0.000	-39.52	66.67	1	
Ba	137	103	He	0.000	65.25	53.33	2	
Tl	205	175	He	0.000	26.34	173.34	5	
Pb	208	175	He	0.000	11.85	1683.41	5	
U	238	175	He	0.000	55.14	23.33	5	

QC ISTD Table

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Sc (No He)	45	No Gas	1368491.96	1.22	1630245.08	83.94	60	120	
Sc	45	He	15548.31	0.78	18475.0233333333	84.16	60	120	
Ge	72	He	17237.04	2.60	20319.9766666667	84.83	60	120	
Rh	103	He	713538.35	1.57	806457.853333333	88.48	60	120	

Sample Report

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Lu	175	He	320456.08	0.28	359260.163333333	89.2	60	120	

Sample Report

Sample Name	LCS WG751906
File Name	089SMPL.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\103114ICPMS8.b
Acq Time	2014-10-31 15:20:11
Sample Type	Sample
Total Dilution	1.1111
Comment	---
ISTD Ref FileName	002CALB.d
Sample QC Pass/Fial	Pass
ISTD QC Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD	Tune Mode	Conc.	Conc. RSD	CPS	LDR	QC Flag
Be	9	45	He	0.050	9.66	502.68	5	
Na	23	45	He	0.537	4.32	77985.56	90	
Mg	24	45	He	0.484	1.21	26277.29	90	
Al	27	45	He	0.046	11.85	580.02	90	
K	39	45	He	0.507	3.32	21579.69	90	
Ca	43	45	He	0.958	18.02	115.11	90	
Ti	47	45	He	0.050	19.23	930.05	5	
V	51	45	He	0.051	3.66	53067.87	5	
Cr	52	45	He	0.051	2.64	72401.62	5	
Mn	55	72	He	0.048	3.31	22287.82	5	
Fe	56	72	He	0.055	1.47	61761.12	90	
Co	59	72	He	0.051	0.79	157663.84	5	
Ni	60	72	He	0.049	1.71	44975.35	5	
Cu	63	72	He	0.050	1.14	134677.33	5	
Zn	66	72	He	0.047	0.41	12432.28	5	
As	75	72	He	0.045	3.10	8111.66	5	
Se	78	72	He	0.043	1.88	208.22	5	
Sr	88	72	He	0.047	1.68	21735.85	5	
Mo	95	72	He	0.051	1.84	53009.52	5	
Ag	107	103	He	0.049	1.62	206485.33	1	
Cd	111	103	He	0.047	4.94	19547.80	5	
Sn	118	103	He	0.048	6.14	34237.69	2	
Sb	121	103	He	0.049	4.19	46170.79	1	
Ba	137	103	He	0.048	6.11	13737.29	2	
Tl	205	175	He	0.051	0.76	401191.18	5	
Pb	208	175	He	0.052	0.61	516449.31	5	
U	238	175	He	0.000	3.60	10.00	5	

QC ISTD Table

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Sc (No He)	45	No Gas	1436510.03	1.15	1630245.08	88.12	60	120	
Sc	45	He	15542.78	2.00	18475.0233333333	84.13	60	120	
Ge	72	He	17636.57	3.23	20319.9766666667	86.79	60	120	
Rh	103	He	727463.79	5.86	806457.853333333	90.2	60	120	

Sample Report

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Lu	175	He	325692.10	3.28	359260.163333333	90.66	60	120	

Sample Report

Sample Name	LCSD WG751906
File Name	090SMPL.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\103114ICPMS8.b
Acq Time	2014-10-31 15:21:55
Sample Type	Sample
Total Dilution	1.1111
Comment	---
ISTD Ref FileName	002CALB.d
Sample QC Pass/Fial	Pass
ISTD QC Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD	Tune Mode	Conc.	Conc. RSD	CPS	LDR	QC Flag
Be	9	45	He	0.046	2.11	481.68	5	
Na	23	45	He	0.542	2.75	80745.90	90	
Mg	24	45	He	0.475	2.23	26510.78	90	
Al	27	45	He	0.061	8.24	773.36	90	
K	39	45	He	0.500	5.70	21940.09	90	
Ca	43	45	He	0.907	7.67	112.00	90	
Ti	47	45	He	0.056	16.87	1056.73	5	
V	51	45	He	0.051	3.42	54378.54	5	
Cr	52	45	He	0.050	1.20	73499.17	5	
Mn	55	72	He	0.048	2.91	22514.43	5	
Fe	56	72	He	0.055	3.52	62987.01	90	
Co	59	72	He	0.050	1.15	158763.90	5	
Ni	60	72	He	0.050	2.34	45979.99	5	
Cu	63	72	He	0.051	1.92	137820.48	5	
Zn	66	72	He	0.048	3.27	12936.03	5	
As	75	72	He	0.046	0.80	8315.76	5	
Se	78	72	He	0.047	5.86	230.45	5	
Sr	88	72	He	0.048	2.68	22438.07	5	
Mo	95	72	He	0.050	2.49	52521.13	5	
Ag	107	103	He	0.050	0.61	209226.70	1	
Cd	111	103	He	0.048	0.52	19785.99	5	
Sn	118	103	He	0.049	2.81	35091.43	2	
Sb	121	103	He	0.050	2.29	46866.06	1	
Ba	137	103	He	0.049	3.59	13917.24	2	
Tl	205	175	He	0.051	0.37	405191.93	5	
Pb	208	175	He	0.052	1.28	520582.61	5	
U	238	175	He	0.000	96.23	6.67	5	

QC ISTD Table

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Sc (No He)	45	No Gas	1415215.08	0.20	1630245.08	86.81	60	120	
Sc	45	He	15970.98	1.51	18475.0233333333	86.45	60	120	
Ge	72	He	17880.09	2.27	20319.9766666667	87.99	60	120	
Rh	103	He	719986.50	0.65	806457.853333333	89.28	60	120	

Sample Report

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Lu	175	He	330872.66	1.23	359260.163333333	92.1	60	120	

Sample Report

Sample Name	L729559-01 WG751906
File Name	091SMPL.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\103114ICPMS8.b
Acq Time	2014-10-31 15:23:23
Sample Type	Sample
Total Dilution	5.5556
Comment	---
ISTD Ref FileName	002CALB.d
Sample QC Pass/Fial	Fail
ISTD QC Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD	Tune Mode	Conc.	Conc. RSD	CPS	LDR	QC Flag
Be	9	45	He	0.000	549.64	1.00	5	
Na	23	45	He	655.654	10.25	15947743.93	90	>LDR
Mg	24	45	He	272.768	5.35	3003922.67	90	
Al	27	45	He	0.131	78.98	336.68	90	
K	39	45	He	17.547	14.89	120794.99	90	
Ca	43	45	He	692.090	9.05	16249.46	90	>LDR
Ti	47	45	He	0.004	224.25	13.33	5	
V	51	45	He	0.027	26.96	5671.20	5	
Cr	52	45	He	0.003	33.06	2203.54	5	
Mn	55	72	He	1.451	5.56	134341.77	5	
Fe	56	72	He	0.547	1.06	119678.58	90	
Co	59	72	He	0.008	12.03	4770.87	5	
Ni	60	72	He	0.045	17.67	8322.53	5	
Cu	63	72	He	0.009	9.37	4804.20	5	
Zn	66	72	He	0.096	44.39	5191.02	5	
As	75	72	He	0.003	56.10	112.44	5	
Se	78	72	He	0.004	203.64	8.22	5	
Sr	88	72	He	12.931	11.86	1195408.34	5	
Mo	95	72	He	0.046	37.79	9713.50	5	
Ag	107	103	He	0.001	27.60	413.34	1	
Cd	111	103	He	0.001	171.84	39.33	5	
Sn	118	103	He	0.002	100.44	346.68	2	
Sb	121	103	He	0.001	158.18	210.01	1	
Ba	137	103	He	0.038	82.27	2060.19	2	
Tl	205	175	He	0.000	90.06	486.69	5	
Pb	208	175	He	0.008	6.53	16417.85	5	
U	238	175	He	0.063	16.12	90687.29	5	

QC ISTD Table

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Sc (No He)	45	No Gas	1447430.92	3.45	1630245.08	88.79	60	120	
Sc	45	He	15779.68	2.93	18475.0233333333	85.41	60	120	
Ge	72	He	17686.52	2.72	20319.9766666667	87.04	60	120	
Rh	103	He	676987.93	0.92	806457.853333333	83.95	60	120	

Sample Report

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Lu	175	He	318919.90	1.68	359260.163333333	88.77	60	120	

Sample Report

Sample Name	SD L729559-01 WG751906
File Name	092SMPL.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\103114ICPMS8.b
Acq Time	2014-10-31 15:24:49
Sample Type	Sample
Total Dilution	27.7778
Comment	---
ISTD Ref FileName	002CALB.d
Sample QC Pass/Fial	Pass
ISTD QC Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD	Tune Mode	Conc.	Conc. RSD	CPS	LDR	QC Flag
Be	9	45	He	0.001	4811.25	0.33	5	
Na	23	45	He	671.037	49.85	3405046.62	90	
Mg	24	45	He	277.067	30.05	634319.33	90	
Al	27	45	He	0.428	243.47	233.34	90	
K	39	45	He	17.981	83.99	30044.51	90	
Ca	43	45	He	706.955	22.83	3454.19	90	
Ti	47	45	He	0.000	NaN	0.00	5	
V	51	45	He	0.028	232.04	1253.41	5	
Cr	52	45	He	0.013	537.91	2143.54	5	
Mn	55	72	He	1.529	148.96	28992.76	5	
Fe	56	72	He	0.834	87.57	40450.26	90	
Co	59	72	He	0.009	106.65	1183.40	5	
Ni	60	72	He	0.131	194.23	4994.27	5	
Cu	63	72	He	0.019	78.37	2283.55	5	
Zn	66	72	He	0.178	194.11	2043.51	5	
As	75	72	He	0.003	577.69	23.56	5	
Se	78	72	He	0.004	7739.30	4.89	5	
Sr	88	72	He	13.111	37.95	248081.14	5	
Mo	95	72	He	0.051	60.96	2190.19	5	
Ag	107	103	He	0.000	729.00	63.33	1	
Cd	111	103	He	0.001	1652.52	16.00	5	
Sn	118	103	He	0.004	1235.61	136.67	2	
Sb	121	103	He	-0.001	-1567.25	50.00	1	
Ba	137	103	He	0.051	90.76	573.36	2	
Tl	205	175	He	0.001	472.97	213.34	5	
Pb	208	175	He	0.018	42.69	7384.31	5	
U	238	175	He	0.064	34.43	19037.60	5	

QC ISTD Table

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Sc (No He)	45	No Gas	1354444.93	3.52	1630245.08	83.08	60	120	
Sc	45	He	16400.38	1.09	18475.0233333333	88.77	60	120	
Ge	72	He	18092.56	1.38	20319.9766666667	89.04	60	120	
Rh	103	He	716099.89	0.39	806457.853333333	88.8	60	120	

Sample Report

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Lu	175	He	330115.95	0.54	359260.163333333	91.89	60	120	

Sample Report

Sample Name	MS L729559-01 WG751906
File Name	093SMPL.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\103114ICPMS8.b
Acq Time	2014-10-31 15:26:16
Sample Type	Sample
Total Dilution	5.5556
Comment	---
ISTD Ref FileName	002CALB.d
Sample QC Pass/Fial	Fail
ISTD QC Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD	Tune Mode	Conc.	Conc. RSD	CPS	LDR	QC Flag
Be	9	45	He	0.054	65.49	113.00	5	
Na	23	45	He	646.605	19.06	15869697.26	90	>LDR
Mg	24	45	He	269.220	12.17	2991194.33	90	
Al	27	45	He	0.140	35.24	363.34	90	
K	39	45	He	17.819	16.44	123715.66	90	
Ca	43	45	He	692.586	24.30	16402.95	90	>LDR
Ti	47	45	He	0.047	258.85	176.67	5	
V	51	45	He	0.078	18.92	16492.93	5	
Cr	52	45	He	0.053	20.18	16519.65	5	
Mn	55	72	He	1.469	16.27	136845.65	5	
Fe	56	72	He	0.369	18.08	82669.86	90	
Co	59	72	He	0.057	10.89	35811.21	5	
Ni	60	72	He	0.080	16.21	14867.92	5	
Cu	63	72	He	0.052	19.33	28074.31	5	
Zn	66	72	He	0.095	20.54	5171.03	5	
As	75	72	He	0.050	24.30	1804.12	5	
Se	78	72	He	0.054	23.29	55.78	5	
Sr	88	72	He	12.709	14.40	1183054.43	5	
Mo	95	72	He	0.095	15.68	20077.91	5	
Ag	107	103	He	0.050	7.69	39950.59	1	
Cd	111	103	He	0.049	18.57	3849.21	5	
Sn	118	103	He	0.051	14.39	6978.55	2	
Sb	121	103	He	0.051	33.93	9189.86	1	
Ba	137	103	He	0.082	52.71	4474.15	2	
Tl	205	175	He	0.050	7.63	78091.56	5	
Pb	208	175	He	0.053	11.89	105029.85	5	
U	238	175	He	0.062	8.32	89724.32	5	

QC ISTD Table

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Sc (No He)	45	No Gas	1399998.37	3.37	1630245.08	85.88	60	120	
Sc	45	He	15920.96	1.40	18475.0233333333	86.18	60	120	
Ge	72	He	17802.20	0.23	20319.9766666667	87.61	60	120	
Rh	103	He	690141.97	2.05	806457.853333333	85.58	60	120	

Sample Report

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Lu	175	He	324370.83	1.83	359260.163333333	90.29	60	120	

Sample Report

Sample Name	MSD L729559-01 WG751906
File Name	094SMPL.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\103114ICPMS8.b
Acq Time	2014-10-31 15:27:44
Sample Type	Sample
Total Dilution	5.5556
Comment	---
ISTD Ref FileName	002CALB.d
Sample QC Pass/Fial	Fail
ISTD QC Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD	Tune Mode	Conc.	Conc. RSD	CPS	LDR	QC Flag
Be	9	45	He	0.052	44.69	108.33	5	
Na	23	45	He	668.218	12.52	16412837.26	90	>LDR
Mg	24	45	He	279.556	6.96	3108376.83	90	
Al	27	45	He	0.114	20.38	296.68	90	
K	39	45	He	18.654	14.22	129350.91	90	
Ca	43	45	He	703.294	11.48	16671.25	90	>LDR
Ti	47	45	He	0.045	143.44	170.00	5	
V	51	45	He	0.080	21.32	16916.71	5	
Cr	52	45	He	0.053	16.52	16609.73	5	
Mn	55	72	He	1.507	11.74	141129.59	5	
Fe	56	72	He	0.371	6.50	83454.27	90	
Co	59	72	He	0.059	5.67	36960.78	5	
Ni	60	72	He	0.073	14.50	13640.00	5	
Cu	63	72	He	0.053	12.51	28939.28	5	
Zn	66	72	He	0.075	19.25	4110.65	5	
As	75	72	He	0.051	9.79	1859.68	5	
Se	78	72	He	0.045	142.02	47.11	5	
Sr	88	72	He	13.019	7.71	1217822.01	5	
Mo	95	72	He	0.098	16.94	20825.62	5	
Ag	107	103	He	0.051	10.89	40689.38	1	
Cd	111	103	He	0.052	15.62	4044.60	5	
Sn	118	103	He	0.053	27.23	7185.30	2	
Sb	121	103	He	0.053	7.69	9616.80	1	
Ba	137	103	He	0.089	56.23	4874.27	2	
Tl	205	175	He	0.052	8.38	81551.57	5	
Pb	208	175	He	0.054	7.58	106073.32	5	
U	238	175	He	0.062	17.20	91006.69	5	

QC ISTD Table

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Sc (No He)	45	No Gas	1449063.68	3.09	1630245.08	88.89	60	120	
Sc	45	He	15932.08	1.61	18475.0233333333	86.24	60	120	
Ge	72	He	17888.99	0.11	20319.9766666667	88.04	60	120	
Rh	103	He	688527.99	0.41	806457.853333333	85.38	60	120	

Sample Report

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Lu	175	He	324242.02	0.86	359260.163333333	90.25	60	120	

Sample Report

Sample Name	L729561-01 WG751906
File Name	095SMPL.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\103114ICPMS8.b
Acq Time	2014-10-31 15:29:10
Sample Type	Sample
Total Dilution	5.5556
Comment	---
ISTD Ref FileName	002CALB.d
Sample QC Pass/Fial	Fail
ISTD QC Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD	Tune Mode	Conc.	Conc. RSD	CPS	LDR	QC Flag
Be	9	45	He	0.000	962.25	0.33	5	
Na	23	45	He	2489.315	12.39	62174027.40	90	>LDR
Mg	24	45	He	793.499	17.89	8975224.03	90	>LDR
Al	27	45	He	1.531	36.93	3920.60	90	
K	39	45	He	48.067	13.86	330737.59	90	
Ca	43	45	He	1173.559	14.93	28306.40	90	>LDR
Ti	47	45	He	0.022	185.00	83.33	5	
V	51	45	He	0.010	24.13	2193.54	5	
Cr	52	45	He	0.012	38.14	4730.85	5	
Mn	55	72	He	4.960	17.70	460557.68	5	
Fe	56	72	He	2.153	17.26	459256.84	90	
Co	59	72	He	0.020	16.85	12255.39	5	
Ni	60	72	He	0.056	21.53	10437.31	5	
Cu	63	72	He	0.010	22.23	5781.29	5	
Zn	66	72	He	0.073	27.15	3990.62	5	
As	75	72	He	0.002	45.84	79.55	5	
Se	78	72	He	0.008	145.20	11.78	5	
Sr	88	72	He	20.191	20.75	1873242.27	5	
Mo	95	72	He	0.109	2.58	22918.89	5	
Ag	107	103	He	0.000	114.72	223.34	1	
Cd	111	103	He	0.001	57.14	46.67	5	
Sn	118	103	He	0.002	159.22	286.68	2	
Sb	121	103	He	0.001	291.01	200.01	1	
Ba	137	103	He	0.064	4.75	3380.47	2	
Tl	205	175	He	0.000	212.40	260.00	5	
Pb	208	175	He	0.005	7.15	9938.36	5	
U	238	175	He	0.010	17.60	14638.56	5	

QC ISTD Table

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Sc (No He)	45	No Gas	1422741.80	1.90	1630245.08	87.27	60	120	
Sc	45	He	16215.72	3.28	18475.0233333333	87.77	60	120	
Ge	72	He	17751.05	1.92	20319.9766666667	87.36	60	120	
Rh	103	He	672182.07	1.42	806457.853333333	83.35	60	120	

Sample Report

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Lu	175	He	315736.85	0.53	359260.163333333	87.89	60	120	

Sample Report

Sample Name	L729561-03 WG751906
File Name	096SMPL.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\103114ICPMS8.b
Acq Time	2014-10-31 15:30:38
Sample Type	Sample
Total Dilution	5.5556
Comment	---
ISTD Ref FileName	002CALB.d
Sample QC Pass/Fial	Fail
ISTD QC Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD	Tune Mode	Conc.	Conc. RSD	CPS	LDR	QC Flag
Be	9	45	He	0.000	962.25	1.00	5	
Na	23	45	He	2294.631	18.13	58334384.13	90	>LDR
Mg	24	45	He	855.545	16.36	9851551.10	90	>LDR
Al	27	45	He	1.306	50.81	3417.12	90	
K	39	45	He	44.265	9.99	310521.79	90	
Ca	43	45	He	915.554	10.03	22480.75	90	>LDR
Ti	47	45	He	0.018	248.44	70.00	5	
V	51	45	He	0.014	51.83	3170.42	5	
Cr	52	45	He	0.005	75.76	2810.33	5	
Mn	55	72	He	2.920	2.02	281037.31	5	
Fe	56	72	He	1.348	11.61	299761.30	90	
Co	59	72	He	0.015	11.69	9873.53	5	
Ni	60	72	He	0.061	24.12	11748.27	5	
Cu	63	72	He	0.005	33.71	2776.98	5	
Zn	66	72	He	0.048	32.64	2750.31	5	
As	75	72	He	0.002	56.70	60.89	5	
Se	78	72	He	0.006	273.10	9.78	5	
Sr	88	72	He	16.090	2.86	1547361.12	5	
Mo	95	72	He	0.100	9.81	21803.74	5	
Ag	107	103	He	0.000	68.28	136.67	1	
Cd	111	103	He	0.000	171.32	17.33	5	
Sn	118	103	He	0.002	126.65	340.01	2	
Sb	121	103	He	0.000	340.09	146.67	1	
Ba	137	103	He	0.029	26.88	1506.78	2	
Tl	205	175	He	0.000	71.39	250.01	5	
Pb	208	175	He	0.003	18.37	6320.71	5	
U	238	175	He	0.079	9.47	110587.31	5	

QC ISTD Table

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Sc (No He)	45	No Gas	1429949.51	1.58	1630245.08	87.71	60	120	
Sc	45	He	16506.03	2.63	18475.0233333333	89.34	60	120	
Ge	72	He	18391.83	0.47	20319.9766666667	90.51	60	120	
Rh	103	He	666885.59	0.92	806457.853333333	82.69	60	120	

Sample Report

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Lu	175	He	311678.94	1.27	359260.163333333	86.76	60	120	

Sample Report

Sample Name	L729561-05 WG751906
File Name	097SMPL.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\103114ICPMS8.b
Acq Time	2014-10-31 15:32:04
Sample Type	Sample
Total Dilution	5.5556
Comment	---
ISTD Ref FileName	002CALB.d
Sample QC Pass/Fial	Fail
ISTD QC Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD	Tune Mode	Conc.	Conc. RSD	CPS	LDR	QC Flag
Be	9	45	He	0.001	642.48	1.33	5	
Na	23	45	He	1681.578	11.69	43100527.69	90	>LDR
Mg	24	45	He	675.181	4.60	7838302.80	90	>LDR
Al	27	45	He	0.110	79.68	300.01	90	
K	39	45	He	40.076	7.35	283892.16	90	
Ca	43	45	He	783.901	7.32	19401.27	90	>LDR
Ti	47	45	He	0.008	505.44	33.33	5	
V	51	45	He	0.005	66.00	1030.06	5	
Cr	52	45	He	0.003	170.63	2386.92	5	
Mn	55	72	He	7.557	4.34	685612.78	5	
Fe	56	72	He	1.325	8.76	277900.85	90	
Co	59	72	He	0.019	20.67	11861.71	5	
Ni	60	72	He	0.055	11.35	9883.56	5	
Cu	63	72	He	0.002	63.16	1443.43	5	
Zn	66	72	He	0.026	33.40	1470.10	5	
As	75	72	He	0.001	102.20	36.44	5	
Se	78	72	He	0.017	201.17	19.78	5	
Sr	88	72	He	17.518	12.50	1588078.26	5	
Mo	95	72	He	0.185	7.01	37877.87	5	
Ag	107	103	He	0.000	439.48	56.67	1	
Cd	111	103	He	0.000	595.56	8.00	5	
Sn	118	103	He	0.001	99.14	106.67	2	
Sb	121	103	He	0.001	304.81	173.34	1	
Ba	137	103	He	0.036	26.19	1910.17	2	
Tl	205	175	He	0.000	158.25	153.33	5	
Pb	208	175	He	0.002	22.54	3940.31	5	
U	238	175	He	0.043	2.79	59741.62	5	

QC ISTD Table

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Sc (No He)	45	No Gas	1459595.81	2.80	1630245.08	89.53	60	120	
Sc	45	He	16633.96	1.64	18475.0233333333	90.03	60	120	
Ge	72	He	17339.40	0.78	20319.9766666667	85.33	60	120	
Rh	103	He	671968.79	0.40	806457.853333333	83.32	60	120	

Sample Report

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Lu	175	He	310298.76	0.47	359260.163333333	86.37	60	120	

Sample Report

Sample Name	L729798-01 WG751906
File Name	098SMPL.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\103114ICPMS8.b
Acq Time	2014-10-31 15:33:30
Sample Type	Sample
Total Dilution	5.5556
Comment	---
ISTD Ref FileName	002CALB.d
Sample QC Pass/Fial	Fail
ISTD QC Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD	Tune Mode	Conc.	Conc. RSD	CPS	LDR	QC Flag
Be	9	45	He	0.000	962.25	0.67	5	
Na	23	45	He	1659.573	14.84	41304221.88	90	>LDR
Mg	24	45	He	446.817	13.31	5036677.53	90	
Al	27	45	He	0.151	118.07	396.68	90	
K	39	45	He	8.186	16.46	60548.21	90	
Ca	43	45	He	568.864	13.03	13673.05	90	>LDR
Ti	47	45	He	0.005	471.54	20.00	5	
V	51	45	He	0.003	97.19	706.70	5	
Cr	52	45	He	0.004	79.61	2403.57	5	
Mn	55	72	He	0.600	7.25	55723.94	5	
Fe	56	72	He	1.342	9.87	287815.48	90	
Co	59	72	He	0.006	30.80	3973.95	5	
Ni	60	72	He	0.038	23.73	7055.19	5	
Cu	63	72	He	0.002	21.96	1476.78	5	
Zn	66	72	He	0.040	21.92	2243.54	5	
As	75	72	He	0.001	155.84	37.33	5	
Se	78	72	He	0.011	317.56	14.67	5	
Sr	88	72	He	8.909	6.34	826529.62	5	
Mo	95	72	He	0.087	20.57	18302.11	5	
Ag	107	103	He	0.000	304.53	60.00	1	
Cd	111	103	He	0.000	381.72	10.67	5	
Sn	118	103	He	0.001	233.32	126.67	2	
Sb	121	103	He	0.000	1193.08	90.00	1	
Ba	137	103	He	0.045	47.30	2406.92	2	
Tl	205	175	He	0.000	64.61	106.67	5	
Pb	208	175	He	0.002	15.42	2986.86	5	
U	238	175	He	0.008	14.51	11535.33	5	

QC ISTD Table

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Sc (No He)	45	No Gas	1407706.07	3.18	1630245.08	86.35	60	120	
Sc	45	He	16154.51	1.89	18475.0233333333	87.44	60	120	
Ge	72	He	17745.44	2.21	20319.9766666667	87.33	60	120	
Rh	103	He	669906.03	1.34	806457.853333333	83.07	60	120	

Sample Report

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Lu	175	He	302495.47	0.42	359260.163333333	84.2	60	120	

Sample Report

Sample Name	L729798-03 WG751906
File Name	099SMPL.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\103114ICPMS8.b
Acq Time	2014-10-31 15:34:58
Sample Type	Sample
Total Dilution	5.5556
Comment	---
ISTD Ref FileName	002CALB.d
Sample QC Pass/Fial	Fail
ISTD QC Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD	Tune Mode	Conc.	Conc. RSD	CPS	LDR	QC Flag
Be	9	45	He	0.000	962.25	0.33	5	
Na	23	45	He	1635.617	4.47	40344267.73	90	>LDR
Mg	24	45	He	438.837	5.12	4902258.78	90	
Al	27	45	He	0.114	465.79	300.07	90	
K	39	45	He	8.125	5.73	59591.26	90	
Ca	43	45	He	564.050	4.12	13435.94	90	>LDR
Ti	47	45	He	0.000	NaN	0.00	5	
V	51	45	He	0.004	37.80	830.04	5	
Cr	52	45	He	0.003	42.77	2173.54	5	
Mn	55	72	He	0.469	9.81	43050.77	5	
Fe	56	72	He	0.092	11.61	23616.65	90	
Co	59	72	He	0.006	9.72	3973.95	5	
Ni	60	72	He	0.011	17.18	2153.53	5	
Cu	63	72	He	0.001	111.11	833.37	5	
Zn	66	72	He	0.020	86.07	1180.07	5	
As	75	72	He	0.001	95.19	28.89	5	
Se	78	72	He	0.009	180.38	12.89	5	
Sr	88	72	He	8.665	9.93	793343.92	5	
Mo	95	72	He	0.073	16.78	15155.00	5	
Ag	107	103	He	0.000	397.61	13.33	1	
Cd	111	103	He	0.000	160.45	11.33	5	
Sn	118	103	He	0.000	364.12	50.00	2	
Sb	121	103	He	0.000	-769.45	60.00	1	
Ba	137	103	He	0.054	33.08	2793.66	2	
Tl	205	175	He	0.000	136.45	73.33	5	
Pb	208	175	He	0.001	47.81	1053.38	5	
U	238	175	He	0.010	23.14	12826.65	5	

QC ISTD Table

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Sc (No He)	45	No Gas	1430069.82	1.21	1630245.08	87.72	60	120	
Sc	45	He	16005.50	0.93	18475.0233333333	86.63	60	120	
Ge	72	He	17511.82	1.23	20319.9766666667	86.18	60	120	
Rh	103	He	657836.66	0.76	806457.853333333	81.57	60	120	

Sample Report

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Lu	175	He	296361.24	1.60	359260.163333333	82.49	60	120	

Sample Report

Sample Name	L729798-05 WG751906
File Name	100SMPL.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\103114ICPMS8.b
Acq Time	2014-10-31 15:36:24
Sample Type	Sample
Total Dilution	5.5556
Comment	---
ISTD Ref FileName	002CALB.d
Sample QC Pass/Fial	Fail
ISTD QC Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD	Tune Mode	Conc.	Conc. RSD	CPS	LDR	QC Flag
Be	9	45	He	0.000	962.25	0.33	5	
Na	23	45	He	1507.674	7.20	37560951.94	90	>LDR
Mg	24	45	He	428.002	13.18	4828693.16	90	
Al	27	45	He	0.037	207.03	106.67	90	
K	39	45	He	7.975	9.10	59182.74	90	
Ca	43	45	He	788.820	4.04	18975.37	90	>LDR
Ti	47	45	He	0.002	481.17	6.67	5	
V	51	45	He	0.006	65.19	1320.09	5	
Cr	52	45	He	0.003	106.96	2313.56	5	
Mn	55	72	He	0.204	24.65	18745.78	5	
Fe	56	72	He	0.095	17.69	24274.43	90	
Co	59	72	He	0.004	15.87	2373.57	5	
Ni	60	72	He	0.005	122.15	1003.39	5	
Cu	63	72	He	0.002	52.63	950.05	5	
Zn	66	72	He	0.004	118.05	330.01	5	
As	75	72	He	0.001	55.52	40.00	5	
Se	78	72	He	0.010	39.06	13.33	5	
Sr	88	72	He	12.405	8.06	1137794.96	5	
Mo	95	72	He	0.045	14.74	9399.92	5	
Ag	107	103	He	0.000	425.85	40.00	1	
Cd	111	103	He	0.000	346.66	12.67	5	
Sn	118	103	He	0.000	314.63	80.00	2	
Sb	121	103	He	0.000	10.20	110.00	1	
Ba	137	103	He	0.021	66.33	1103.40	2	
Tl	205	175	He	0.000	202.88	53.33	5	
Pb	208	175	He	0.001	42.82	1373.39	5	
U	238	175	He	0.010	22.30	13063.51	5	

QC ISTD Table

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Sc (No He)	45	No Gas	1428591.18	2.67	1630245.08	87.63	60	120	
Sc	45	He	16165.66	0.86	18475.0233333333	87.5	60	120	
Ge	72	He	17542.99	1.37	20319.9766666667	86.33	60	120	
Rh	103	He	658582.70	0.52	806457.853333333	81.66	60	120	

Sample Report

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Lu	175	He	295847.18	0.81	359260.163333333	82.35	60	120	

Sample Report

Sample Name	L729800-02 WG751906
File Name	101SMPL.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\103114ICPMS8.b
Acq Time	2014-10-31 15:37:52
Sample Type	Sample
Total Dilution	5.5556
Comment	---
ISTD Ref FileName	002CALB.d
Sample QC Pass/Fial	Fail
ISTD QC Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD	Tune Mode	Conc.	Conc. RSD	CPS	LDR	QC Flag
Be	9	45	He	0.000	NaN	0.00	5	
Na	23	45	He	2148.889	5.94	52767589.21	90	>LDR
Mg	24	45	He	531.861	11.85	5914836.99	90	>LDR
Al	27	45	He	1.668	28.66	4200.70	90	
K	39	45	He	9.695	13.67	69776.45	90	
Ca	43	45	He	841.319	9.34	19948.24	90	>LDR
Ti	47	45	He	0.047	307.44	176.68	5	
V	51	45	He	0.008	59.76	1656.83	5	
Cr	52	45	He	0.007	27.14	3237.08	5	
Mn	55	72	He	0.423	8.46	37341.65	5	
Fe	56	72	He	1.473	8.72	299500.38	90	
Co	59	72	He	0.005	18.89	2706.96	5	
Ni	60	72	He	0.008	48.79	1540.11	5	
Cu	63	72	He	0.004	19.49	1970.17	5	
Zn	66	72	He	0.031	80.53	1686.79	5	
As	75	72	He	0.002	113.80	56.44	5	
Se	78	72	He	0.014	144.87	16.22	5	
Sr	88	72	He	14.914	4.34	1313086.54	5	
Mo	95	72	He	0.048	11.81	9600.08	5	
Ag	107	103	He	0.000	388.86	30.00	1	
Cd	111	103	He	0.000	303.17	12.67	5	
Sn	118	103	He	0.001	257.04	96.67	2	
Sb	121	103	He	0.000	93.20	136.67	1	
Ba	137	103	He	0.049	8.53	2500.27	2	
Tl	205	175	He	0.000	34.30	96.67	5	
Pb	208	175	He	0.002	22.28	4460.43	5	
U	238	175	He	0.007	36.13	9783.92	5	

QC ISTD Table

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Sc (No He)	45	No Gas	1418626.96	2.98	1630245.08	87.02	60	120	
Sc	45	He	15935.42	1.04	18475.0233333333	86.25	60	120	
Ge	72	He	16838.81	0.39	20319.9766666667	82.87	60	120	
Rh	103	He	647500.47	1.49	806457.853333333	80.29	60	120	

Sample Report

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Lu	175	He	291725.37	0.84	359260.163333333	81.2	60	120	

Sample Report

Sample Name	MS L729800-02 WG751906
File Name	102SMPL.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\103114ICPMS8.b
Acq Time	2014-10-31 15:39:19
Sample Type	Sample
Total Dilution	5.5556
Comment	---
ISTD Ref FileName	002CALB.d
Sample QC Pass/Fial	Fail
ISTD QC Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD	Tune Mode	Conc.	Conc. RSD	CPS	LDR	QC Flag
Be	9	45	He	0.053	56.05	111.33	5	
Na	23	45	He	2101.387	16.00	52200939.22	90	>LDR
Mg	24	45	He	514.955	6.85	5794587.83	90	>LDR
Al	27	45	He	1.428	129.65	3641.51	90	
K	39	45	He	9.872	5.57	71795.86	90	
Ca	43	45	He	825.702	10.05	19808.93	90	>LDR
Ti	47	45	He	0.066	76.27	253.34	5	
V	51	45	He	0.057	8.79	12178.68	5	
Cr	52	45	He	0.056	36.15	17397.33	5	
Mn	55	72	He	0.439	10.79	40406.72	5	
Fe	56	72	He	1.168	15.51	248764.53	90	
Co	59	72	He	0.054	9.54	33465.74	5	
Ni	60	72	He	0.053	24.40	9773.48	5	
Cu	63	72	He	0.052	13.80	27910.55	5	
Zn	66	72	He	0.072	33.26	3890.60	5	
As	75	72	He	0.050	11.97	1772.11	5	
Se	78	72	He	0.054	58.58	55.11	5	
Sr	88	72	He	14.218	3.35	1306807.27	5	
Mo	95	72	He	0.096	26.44	20027.90	5	
Ag	107	103	He	0.051	5.73	38446.44	1	
Cd	111	103	He	0.051	12.43	3734.51	5	
Sn	118	103	He	0.050	26.62	6481.63	2	
Sb	121	103	He	0.053	9.75	9023.07	1	
Ba	137	103	He	0.087	8.08	4484.14	2	
Tl	205	175	He	0.050	8.82	70304.12	5	
Pb	208	175	He	0.053	3.38	93583.16	5	
U	238	175	He	0.007	12.26	9723.81	5	

QC ISTD Table

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Sc (No He)	45	No Gas	1389393.94	3.35	1630245.08	85.23	60	120	
Sc	45	He	16123.39	1.34	18475.0233333333	87.27	60	120	
Ge	72	He	17577.47	0.97	20319.9766666667	86.5	60	120	
Rh	103	He	650519.98	0.27	806457.853333333	80.66	60	120	

Sample Report

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Lu	175	He	291678.92	0.33	359260.163333333	81.19	60	120	

Sample Report

Sample Name	MSD L729800-02 WG751906
File Name	103SMPL.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\103114ICPMS8.b
Acq Time	2014-10-31 15:40:46
Sample Type	Sample
Total Dilution	5.5556
Comment	---
ISTD Ref FileName	002CALB.d
Sample QC Pass/Fial	Fail
ISTD QC Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD	Tune Mode	Conc.	Conc. RSD	CPS	LDR	QC Flag
Be	9	45	He	0.046	66.98	94.67	5	
Na	23	45	He	2102.127	16.29	51634267.57	90	>LDR
Mg	24	45	He	526.848	12.42	5861669.91	90	>LDR
Al	27	45	He	2.131	33.23	5364.41	90	
K	39	45	He	10.276	9.56	73678.47	90	
Ca	43	45	He	831.702	15.16	19727.03	90	>LDR
Ti	47	45	He	0.108	46.72	410.02	5	
V	51	45	He	0.059	21.68	12662.39	5	
Cr	52	45	He	0.056	21.49	17263.86	5	
Mn	55	72	He	0.448	4.80	40236.34	5	
Fe	56	72	He	2.544	9.76	523392.41	90	
Co	59	72	He	0.055	7.70	33175.07	5	
Ni	60	72	He	0.057	26.56	10280.55	5	
Cu	63	72	He	0.053	7.37	27960.85	5	
Zn	66	72	He	0.079	25.07	4157.38	5	
As	75	72	He	0.051	34.46	1765.45	5	
Se	78	72	He	0.054	106.21	53.33	5	
Sr	88	72	He	14.405	6.00	1290750.19	5	
Mo	95	72	He	0.099	19.25	20144.69	5	
Ag	107	103	He	0.052	10.17	38312.73	1	
Cd	111	103	He	0.049	13.34	3540.46	5	
Sn	118	103	He	0.050	13.06	6288.21	2	
Sb	121	103	He	0.053	7.36	8852.96	1	
Ba	137	103	He	0.109	42.22	5507.88	2	
Tl	205	175	He	0.050	10.27	69010.66	5	
Pb	208	175	He	0.055	1.62	94694.97	5	
U	238	175	He	0.008	14.26	9703.85	5	

QC ISTD Table

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Sc (No He)	45	No Gas	1413977.84	1.15	1630245.08	86.73	60	120	
Sc	45	He	15944.31	1.79	18475.0233333333	86.3	60	120	
Ge	72	He	17136.95	0.91	20319.9766666667	84.34	60	120	
Rh	103	He	637012.20	0.29	806457.853333333	78.99	60	120	

Sample Report

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Lu	175	He	284386.83	0.75	359260.163333333	79.16	60	120	

Continuing Calibration Verification (CCV) Report

Sample Name	CCV
File Name	104_CCV.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\103114ICPMS8.b
Acq Time	2014-10-31 15:44:49
Sample Type	CCV
Total Dilution	1.0000
Comment	---
ISTD Ref FileName	002CALB.d
Sample QC Pass/Fial	Fail
ISTD QC Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD	Tune Mode	Conc.	Conc. RSD	CPS	ExpValue	% Rec	%QC Low	%QC High	QC Flag
Be	9	45	He	0.110	3.40	1443.07	0.9	12.21	10	10	
Na	23	45	He	10.457	3.73	1639304.45	0.9	1161.93	1000	1000	
Mg	24	45	He	10.166	3.95	714947.70	0.9	1129.55	1000	1000	
Al	27	45	He	1.022	5.07	16249.19	0.9	113.58	100	100	
K	39	45	He	9.765	3.69	416939.58	0.9	1085.02	1000	1000	
Ca	43	45	He	9.687	4.04	1456.97	0.9	1076.38	1000	1000	
Ti	47	45	He	0.097	3.97	2313.57	0.9	10.72	10	10	
V	51	45	He	0.100	3.99	133791.64	0.9	11.07	10	10	
Cr	52	45	He	0.100	2.62	181918.19	0.9	11.1	10	10	
Mn	55	72	He	0.098	2.48	56767.73	0.9	10.94	10	10	
Fe	56	72	He	1.008	1.48	1325599.46	0.9	112.01	100	100	
Co	59	72	He	0.101	1.76	390095.25	0.9	11.2	10	10	
Ni	60	72	He	0.101	0.79	114991.36	0.9	11.21	10	10	
Cu	63	72	He	0.102	1.21	342305.39	0.9	11.38	10	10	
Zn	66	72	He	0.100	1.36	32937.96	0.9	11.12	10	10	
As	75	72	He	0.098	1.52	21790.73	0.9	10.88	10	10	
Se	78	72	He	0.093	2.63	553.56	0.9	10.35	10	10	
Sr	88	72	He	0.096	2.48	55060.29	0.9	10.62	10	10	
Mo	95	72	He	0.103	0.68	133806.67	0.9	11.42	10	10	
Ag	107	103	He	0.103	0.98	530795.12	0.9	11.48	10	10	
Cd	111	103	He	0.098	1.20	49582.07	0.9	10.89	10	10	
Sn	118	103	He	0.099	1.58	87635.12	0.9	11.03	10	10	
Sb	121	103	He	0.099	0.81	115557.92	0.9	11.01	10	10	
Ba	137	103	He	0.100	2.55	35242.30	0.9	11.09	10	10	
Tl	205	175	He	0.103	0.69	1022349.59	0.9	11.45	10	10	
Pb	208	175	He	0.105	0.36	1313895.73	0.9	11.68	10	10	
U	238	175	He	0.147	0.70	1356907.85	0.9	16.37	10	10	CCV Main CR1 Failed

QC ISTD Table

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Sc (No He)	45	No Gas	1637322.47	3.89	1630245.08	100.43	60	120	
Sc	45	He	18150.19	3.16	18475.0233333333	98.24	60	120	

Continuing Calibration Verification (CCV) Report

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Ge	72	He	19810.40	2.09	20319.9766666667	97.49	60	120	
Rh	103	He	802933.40	0.90	806457.853333333	99.56	60	120	
Lu	175	He	369007.60	1.38	359260.163333333	102.71	60	120	

Continuing Calibration Blank (CCB) Report

Sample Name	CCB
File Name	105_CCB.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\103114ICPMS8.b
Acq Time	2014-10-31 15:46:18
Sample Type	CCB
Total Dilution	1.0000
Comment	---
ISTD Ref FileName	002CALB.d
Sample QC Pass/Fial	Pass
ISTD QC Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD	Tune Mode	Conc.	Conc. RSD	CPS	Limit	QC Flag
Be	9	45	He	0.000	1.80	1.00	0.00075	
Na	23	45	He	0.172	1.02	41301.23	0.75	
Mg	24	45	He	0.015	12.06	1043.39	0.75	
Al	27	45	He	0.001	205.33	26.67	0.0375	
K	39	45	He	-0.004	-70.28	5631.21	0.75	
Ca	43	45	He	0.026	57.27	8.45	0.75	
Ti	47	45	He	0.000	173.21	3.33	0.0075	
V	51	45	He	0.000	20.59	103.33	0.0015	
Cr	52	45	He	0.000	83.23	1600.12	0.00075	
Mn	55	72	He	0.000	122.05	93.33	0.0015	
Fe	56	72	He	0.001	56.09	5674.67	0.0375	
Co	59	72	He	0.000	15.99	263.34	0.00075	
Ni	60	72	He	0.000	36.26	213.34	0.00075	
Cu	63	72	He	0.000	25.72	470.02	0.0015	
Zn	66	72	He	0.000	60.18	216.67	0.0075	
As	75	72	He	0.000	38.37	12.44	0.00075	
Se	78	72	He	0.000	158.01	6.00	0.00075	
Sr	88	72	He	0.000	38.39	220.01	0.0075	
Mo	95	72	He	0.000	26.51	56.67	0.0015	
Ag	107	103	He	0.000	19.49	303.34	0.000375	
Cd	111	103	He	0.000	3.46	34.67	0.000375	
Sn	118	103	He	0.000	14.51	103.33	0.00075	
Sb	121	103	He	0.000	35.30	200.00	0.00075	
Ba	137	103	He	0.000	57.83	26.67	0.0015	
Tl	205	175	He	0.000	11.59	476.68	0.00075	
Pb	208	175	He	0.000	12.48	1033.38	0.00075	
U	238	175	He	0.000	10.75	650.03	0.0075	

QC ISTD Table

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Sc (No He)	45	No Gas	1620667.43	2.28	1630245.08	99.41	60	120	
Sc	45	He	17569.52	1.79	18475.0233333333	95.1	60	120	
Ge	72	He	19414.27	0.57	20319.9766666667	95.54	60	120	
Rh	103	He	800987.20	0.85	806457.853333333	99.32	60	120	

Continuing Calibration Blank (CCB) Report

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Lu	175	He	364456.22	0.90	359260.163333333	101.45	60	120	

Low Level Continuing Calibration Verification(LLCCV) Report

Sample Name	LLCCV
File Name	106LCCV.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\103114ICPMS8.b
Acq Time	2014-10-31 15:47:45
Sample Type	LLCCV
Total Dilution	1.0000
Comment	---
ISTD Ref FileName	002CALB.d
Sample QC Pass/Fial	Pass
ISTD QC Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD	Tune Mode	Conc.	Conc. RSD	CPS	ExpValue	% Rec	%QC Low	%QC High	QC Flag
Be	9	45	He	0.001	16.10	13.00	0.001	100.95	70	130	
V	51	45	He	0.002	4.76	2623.62	0.002	98.39	70	130	
Cr	52	45	He	0.001	7.34	3053.71	0.001	86.78	70	130	
Mn	55	72	He	0.002	10.22	1043.40	0.002	86.36	70	130	
Co	59	72	He	0.001	6.77	3887.25	0.001	100.88	70	130	
Ni	60	72	He	0.001	12.02	1246.75	0.001	101.79	70	130	
Cu	63	72	He	0.001	7.35	3810.58	0.001	110.45	70	130	
Zn	66	72	He	0.010	3.89	3327.12	0.01	98.53	70	130	
As	75	72	He	0.001	11.71	224.89	0.001	101.51	70	130	
Se	78	72	He	0.001	30.78	10.22	0.001	98.76	70	130	
Mo	95	72	He	0.002	6.17	2636.96	0.002	102.7	70	130	
Ag	107	103	He	0.001	5.84	2863.68	0.0005	111.1	70	130	
Cd	111	103	He	0.001	9.42	254.67	0.0005	100.26	70	130	
Sn	118	103	He	0.001	7.08	840.04	0.001	92.4	70	130	
Sb	121	103	He	0.001	16.25	1170.07	0.001	92.12	70	130	
Ba	137	103	He	0.002	16.11	650.02	0.002	91.89	70	130	
Tl	205	175	He	0.001	0.79	10074.08	0.001	101.78	70	130	
Pb	208	175	He	0.001	1.45	14073.27	0.001	112.38	70	130	

QC ISTD Table

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Sc (No He)	45	No Gas	1618126.44	3.05	1630245.08	99.26	60	120	
Sc	45	He	17806.47	0.85	18475.0233333333	96.38	60	120	
Ge	72	He	19550.04	2.02	20319.9766666667	96.21	60	120	
Rh	103	He	803969.60	0.80	806457.853333333	99.69	60	120	
Lu	175	He	367784.75	0.17	359260.163333333	102.37	60	120	

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: L729800

C10-C40 Oil Range by Method 8015
URS Corporation - Tucson AZ - 1088308

Project: Holloman AFB
Project No: 23446543.0053AA

Login No: L729800

Lab SampleID.	Client ID
L729800-01	H-TU904-GW03-NT01
L729800-02	H-TU904-GW03-ND01

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

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

Quality Control Summary
SDG: L729800
URS Corporation - Tucson AZ - 1088308

Test:	C10-C40 Oil Range by Method 8015		
Project No:	23446543.0053AA	Matrix:	Water - mg/L
Project:	Holloman AFB	EPA ID:	TN00003
Collection Date:	10/23/2014	**Analytic Batch:**	**WG751825**
Analysis Date:	10/31/2014	Analyst:	546
Instrument ID:	SVGC31	Prep Date:	10/30/2014
Sample Numbers:	L729800-01		

Workgroup: **WG751825**
Description: **Diesel and Oil Ranges by LVI by Method 8015 (GW)**

Sample Name	Collect Date	Prep Date	Analysis Date
L729800-01 1x	10/23/2014	10/30/2014	10/31/2014

Parameters in bold text are reported in this SDG

12065 Lebanon Rd
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Tax I.D 62-0814289
Est. 1970

Quality Control Summary
SDG: L729800
URS Corporation - Tucson AZ - 1088308

Test:	C10-C40 Oil Range by Method 8015		
Project No:	23446543.0053AA	Matrix:	Water - mg/L
Project:	Holloman AFB	EPA ID:	TN00003
Collection Date:	10/23/2014	**Analytic Batch:**	**WG751825**
Analysis Date:	10/31/2014	Analyst:	546
Instrument ID:	SVGC31	Prep Date:	10/30/2014
Sample Numbers:	L729800-01		

Method Blank Summary

Instrument	Client Sample ID	Lab Sample ID	File Name	Analysis Date	Analysis Time
SVGC31	Blank WG751825	Blank WG751825	1031_16.D	10/31/2014	4:19 PM
SVGC31	LCS WG751825	LCS WG751825	1031_17.D	10/31/2014	4:38 PM
SVGC31	LCSD WG751825	LCSD WG751825	1031_18.D	10/31/2014	4:56 PM
SVGC31	H-TU904-GW03-NT01	L729800-01	1031_19.D	10/31/2014	5:14 PM
SVGC31	MS WG751825	MS WG751825	1031_20.D	10/31/2014	5:33 PM
SVGC31	MSD WG751825	MSD WG751825	1031_21.D	10/31/2014	5:51 PM

Parameters in bold text are reported in this SDG

12065 Lebanon Rd
Mt. Juliet, TN 37122
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Tax I.D 62-0814289
Est. 1970

Quality Control Summary
SDG: L729800
URS Corporation - Tucson AZ - 1088308

Test:	C10-C40 Oil Range by Method 8015		
Project No:	23446543.0053AA	Matrix:	Water - mg/L
Project:	Holloman AFB	EPA ID:	TN00003
Collection Date:	10/23/2014	**Analytic Batch:**	**WG751825**
Analysis Date:	10/31/2014	Analyst:	546
Instrument ID:	SVGC31	Prep Date:	10/30/2014
Sample Numbers:	L729800-01		

Method Blank

Analyte	CAS	RDL	MDL	Qualifier
C10-C28 Diesel Range		< 0.100	< 0.0222	
C28-C40 Oil Range		< 0.100	< 0.0118	

Laboratory Control Sample (LCS)

Analyte	Dil	True Value	Found	% Rec	Control Limits	Qual
C10-C28 Diesel Range	1	1.5	1.5252	102	70 - 130	

Laboratory Control Sample Duplicate (LCSD)

Analyte	Dil	True Value	Found	% Rec	Control Limits	Qual
C10-C28 Diesel Range	1	1.5	1.6334	109	70 - 130	

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	1.5	1.5252	102	1.6334	109	70 - 130		6.85	20	

Parameters in bold text are reported in this SDG

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

Quality Control Summary
SDG: L729800
URS Corporation - Tucson AZ - 1088308

Test:	C10-C40 Oil Range by Method 8015		
Project No:	23446543.0053AA	Matrix:	Water - mg/L
Project:	Holloman AFB	EPA ID:	TN00003
Collection Date:	10/23/2014	**Analytic Batch:**	**WG751825**
Analysis Date:	10/31/2014	Analyst:	546
Instrument ID:	SVGC31	Prep Date:	10/30/2014
Sample Numbers:	L729800-01		

Matrix Spike / Matrix Spike Duplicate

L729800-01

Analyte	Dil	Spike Value	Sample	MS	% Rec	MSD	% Rec	Control Limits	% Rec Qual	RPD	Control Limits	RPD Qual
C10-C28 Diesel Range	1	1.5	0.3613	2.0329	111	2.1736	121	70 - 130		6.69	20	

Parameters in bold text are reported in this SDG

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

Quality Control Summary
SDG: L729800
URS Corporation - Tucson AZ - 1088308

Test:	C10-C40 Oil Range by Method 8015		
Project No:	23446543.0053AA	Matrix:	Water - mg/L
Project:	Holloman AFB	EPA ID:	TN00003
Collection Date:	10/23/2014	**Analytic Batch:**	**WG751825**
Analysis Date:	10/31/2014	Analyst:	546
Instrument ID:	SVGC31	Prep Date:	10/30/2014
Sample Numbers:	L729800-01		

Surrogate Summary

Laboratory Sample ID	Instrument	File ID	o-Terphenyl ppm	o-Terphenyl % Rec
L729800-01	SVGC31	1031_19	0.0214	107
BLANK WG751825	SVGC31	1031_16	0.0210	105
LCS WG751825	SVGC31	1031_17	0.0209	105
LCSD WG751825	SVGC31	1031_18	0.0213	106
MS WG751825	SVGC31	1031_20	0.0210	105
MSD WG751825	SVGC31	1031_21	0.0222	111

o-Terphenyl --O-TERPHENYL True Value: 0.02 ppm Limits: 50 - 150

Environmental Science Corporation
12065 Lebanon Rd., Mt. Juliet, TN 37122

ICV Or CCV Summary Report

Instrument ID	: SVGC31	Analysis Date	: 10/31/14 1226	ICal Method	: LVI DRO
Lab File ID	: 1031_03	Quant Method	: DR31J03N	ICal Protocol	: SW846

Parameter	Col	Response	Std. Conc	IS Conc.	IS Resp.	RF	% Rec	%Rec LL	%Rec HL
TPH (GC/FID) HIGH FRACTION		1.521094E+09	60	0	0	2.535157E +07	100	85	115
C12-C22 Hydrocarbons		1.541209E+07	60	0	0	256868.2	0	90	110
C10-C20 Hydrocarbons		1.541209E+07	60	0	0	256868.2	0		
C20-C34 Hydrocarbons		0	60	0	0	0	0		

Surrogate Parameter	Spike Amt	Surr Result	Surr Rec.	Low Limit	High Limit	Qualifier
o-terphenyl	0.4	0.3720228	93	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	: SVGC31	Analysis Date	: 10/31/14 1525	ICal Method	: LVI EPH
Lab File ID	: 1031_13	Quant Method	: LA31J29N	ICal Protocol	: SW846

Parameter	Col	Response	Std. Conc	IS Conc.	IS Resp.	RF	% Rec	%Rec LL	%Rec HL
C10-C28 Diesel Range		1.658499E+09	60	0	0	2.764165E +07	109		
C28-C40 Oil Range		2.970477E+07		0	0	0			

Surrogate Parameter	Spike Amt	Surr Result	Surr Rec.	Low Limit	High Limit	Qualifier
o-terphenyl	0.4	0.3742016	93.6	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	: SVGC31	Analysis Date	: 10/31/14 1543	ICal Method	: LVI EPH
Lab File ID	: 1031_14	Quant Method	: LA31J29N	ICal Protocol	: SW846

Parameter	Col	Response	Std. Conc	IS Conc.	IS Resp.	RF	% Rec	%Rec LL	%Rec HL
C10-C28 Diesel Range		5.900473E+08		0	0	0			
C28-C40 Oil Range		5.014679E+08	40	0	0	1.25367E+07	95.1		

Surrogate Parameter	Spike Amt	Surr Result	Surr Rec.	Low Limit	High Limit	Qualifier
o-terphenyl	0.4	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	: SVGC31	Analysis Date	: 10/31/14 1925	ICal Method	: LVI EPH
Lab File ID	: 1031_26	Quant Method	: LA31J29N	ICal Protocol	: SW846

Parameter	Col	Response	Std. Conc	IS Conc.	IS Resp.	RF	% Rec	%Rec LL	%Rec HL
C10-C28 Diesel Range		1.623711E+09	60	0	0	2.706185E +07	107		
C28-C40 Oil Range		2.784341E+07		0	0	0			

Surrogate Parameter	Spike Amt	Surr Result	Surr Rec.	Low Limit	High Limit	Qualifier
o-terphenyl	0.4	0.3817348	95.4	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	: SVGC31	Analysis Date	: 10/31/14 1944	ICal Method	: LVI EPH
Lab File ID	: 1031_27	Quant Method	: LA31J29N	ICal Protocol	: SW846

Parameter	Col	Response	Std. Conc	IS Conc.	IS Resp.	RF	% Rec	%Rec LL	%Rec HL
C10-C28 Diesel Range		5.9429E+08		0	0	0			
C28-C40 Oil Range		5.053862E+08	40	0	0	1.263466E +07	95.9		

Surrogate Parameter	Spike Amt	Surr Result	Surr Rec.	Low Limit	High Limit	Qualifier
o-terphenyl	0.4	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 LVI SVOCs Benchsheet

Batch #: WG751825

Analyst: CBL520 **Prep Start Date/Time:** 10/30/14 17:59:36 **Prep End Date/Time:** 10/30/14 21:08:21

Na2SO4: 14I15522 Amt. Used: 0.20 Exp. Date:03/15/15 **MeCl2:** 14J23413 Amt. Used: 2 Exp. Date:04/23/15 **NaCl:** 14J02395 Amt. Used: 5 Exp. Date:01/11/15

Hydrochloric Acid: 14H28676 Amt. Used: 0.20 Exp. Date:11/05/14 **Surrogate:** 14G19448 Amt. Used: 40 µL Exp. Date:01/03/15

LCS/MS Spike: 14J28699 Amt. Used: 40 µL Exp. Date:04/13/15

Sample Number	Qualifiers	Extracted Vol. (mL)	pH	Solvent Vol. (mL)	Emulsion	Final Volume(mL)	Extract Color	Sample Comments
BLANK		40	<2	2	No Emulsion	2	Colorless	
LCS		40	<2	2	No Emulsion	2	Colorless	DRO SPIKE
LCSD		40	<2	2	No Emulsion	2	Colorless	DRO SPIKE
MS(L729800-01)		40	<2	2	No Emulsion	2	Colorless	DRO SPIKE
MSD(L729800-01)		40	<2	2	No Emulsion	2	Colorless	DRO SPIKE
1. L729800-01		40	<2	2	No Emulsion	2	Colorless	K

Comments:

Reviewed By:JNS546 on 10/31/14 08:20:15

Environmental Science Corporation
12065 Lebanon Rd., Mt. Juliet, TN 37122

Injection Log

Instrument ID : SVGC31
Computer Name : SVCOMPBA
Released By : Jared N. Starkey
Date Released : 10/31/2014 3:40:52 PM
Run ID : 103114
Signature : _____

#	File ID	Sample ID	Method	WG	Product	Matrix	Account #	State	Dil.	Mult.	Injected	Misc.
1	1031_01	INSTBLK	DR31J03N						1	1	10/31/14 1151	" "
2	1031_02	LOC FL 68 PPM 14J20224	DR31J03N						1	1	10/31/14 1209	" "
3	1031_03	ICV DRO 60 PPM 14J18165	DR31J03N						1	1	10/31/14 1226	" "
4	1031_04	MECL2	DR31J03N						1	1	10/31/14 1244	" "
5	1031_05	BLANK	DR31J03N	WG751323	DROLVI	GW			1	0.05	10/31/14 1302	"water surr14G19448/spk14J28699"
6	1031_06	LCS	DR31J03N	WG751323	DROLVI	GW			1	0.05	10/31/14 1320	"water surr14G19448/spk14J28699"
7	1031_07	LCSD	DR31J03N	WG751323	DROLVI	GW			1	0.05	10/31/14 1338	"water surr14G19448/spk14J28699"
8	1031_08	L729989-01	DR31J03N	WG751323	DROLVI	GW	OXYGJCO	CO	1	0.05	10/31/14 1356	"water surr14G19448/spk14J28699"
9	1031_09	L729989-02	DR31J03N	WG751323	DROLVI	GW	OXYGJCO	CO	1	0.05	10/31/14 1413	"water surr14G19448/spk14J28699"
10	1031_10	L729989-03	DR31J03N	WG751323	DROLVI	GW	OXYGJCO	CO	1	0.05	10/31/14 1431	"water surr14G19448/spk14J28699"
11	1031_11	L729231-16	DR31J03N	WG750923	DRO	GW	BNSF6TRC	TX	20	1	10/31/14 1449	"water surr14G19448/spk14J28699"
12	1031_12	INSTBLK	DR31J03N						1	1	10/31/14 1507	" "
13	1031_13	CCV DRO 60 PPM 14J18165	DR31J03N						1	1	10/31/14 1525	" "

Environmental Science Corporation
12065 Lebanon Rd., Mt. Juliet, TN 37122

Injection Log

Instrument ID : SVGC31
Computer Name : SVCOMPBA
Released By : Jared N. Starkey
Date Released : 11/1/2014 10:34:50 AM
Run ID : 103114
Signature : _____

#	File ID	Sample ID	Method	WG	Product	Matrix	Account #	State	Dil.	Mult.	Injected	Misc.
1	1031_01	INSTBLK	DR31J03N						1	1	10/31/14 1151	" "
2	1031_02	LOC FL 68 PPM 14J20224	DR31J03N						1	1	10/31/14 1209	" "
3	1031_03	ICV DRO 60 PPM 14J18165	DR31J03N						1	1	10/31/14 1226	" "
4	1031_04	MECL2	DR31J03N						1	1	10/31/14 1244	" "
5	1031_05	BLANK	DR31J03N	WG751323	DROLVI	GW			1	0.05	10/31/14 1302	"water surr14G19448/spk14J28699"
6	1031_06	LCS	DR31J03N	WG751323	DROLVI	GW			1	0.05	10/31/14 1320	"water surr14G19448/spk14J28699"
7	1031_07	LCSD	DR31J03N	WG751323	DROLVI	GW			1	0.05	10/31/14 1338	"water surr14G19448/spk14J28699"
8	1031_08	L729989-01	DR31J03N	WG751323	DROLVI	GW	OXYGJCO	CO	1	0.05	10/31/14 1356	"water surr14G19448/spk14J28699"
9	1031_09	L729989-02	DR31J03N	WG751323	DROLVI	GW	OXYGJCO	CO	1	0.05	10/31/14 1413	"water surr14G19448/spk14J28699"
10	1031_10	L729989-03	DR31J03N	WG751323	DROLVI	GW	OXYGJCO	CO	1	0.05	10/31/14 1431	"water surr14G19448/spk14J28699"
11	1031_11	L729231-16	DR31J03N	WG750923	DRO	GW	BNSF6TRC	TX	20	1	10/31/14 1449	"water surr14G19448/spk14J28699"
12	1031_12	INSTBLK	DR31J03N						1	1	10/31/14 1507	" "
13	1031_13	CCV DRO 60 PPM 14J18165	LA31J29N						1	1	10/31/14 1525	" "
13	1031_13-1	CCV DRO 60 PPM 14J18165	LA31J29N						1	1	10/31/14 1525	" "
14	1031_14	CCV 10W30 40M PPM 14J18165	LA31J29N						1	1	10/31/14 1543	" "
14	1031_14-1	CCV 10W30 40M PPM 14J18165	LA31J29N						1	1	10/31/14 1543	" "
15	1031_15	MECL2	LA31J29N						1	1	10/31/14 1601	" "
16	1031_16	BLANK	LA31J29N	WG751825	DROOROLVI	GW			1	0.05	10/31/14 1619	"water surr14G19448/spk14J28699"
17	1031_17	LCS	LA31J29N	WG751825	DROOROLVI	GW			1	0.05	10/31/14 1638	"water surr14G19448/spk14J28699"

Environmental Science Corporation
12065 Lebanon Rd., Mt. Juliet, TN 37122

Injection Log

Instrument ID : SVGC31
Computer Name : SVCOMPBA
Released By : Jared N. Starkey
Date Released : 11/1/2014 10:34:50 AM
Run ID : 103114
Signature : _____

#	File ID	Sample ID	Method	WG	Product	Matrix	Account #	State	Dil.	Mult.	Injected	Misc.
18	1031_18	LCSD	LA31J29N	WG751825	DROOROLVI	GW			1	0.05	10/31/14 1656	"water surr14G19448/spk14J28699"
19	1031_19	L729800-01	LA31J29N	WG751825	DROOROLVI	GW	URSTAZ	NM	1	0.05	10/31/14 1714	"water surr14G19448/spk14J28699"
20	1031_20	MS	LA31J29N	WG751825	DROOROLVI	GW			1	0.05	10/31/14 1733	"water surr14G19448/spk14J28699"
21	1031_21	MSD	LA31J29N	WG751825	DROOROLVI	GW			1	0.05	10/31/14 1751	"water surr14G19448/spk14J28699"
22	1031_22	L730147-16	LA31J29N	WG751324	DROOROLVI	GW	URSTAZ	NM	5	0.25	10/31/14 1810	"water surr14G19448/spk14J28699"
23	1031_23	L730147-16	LA31J29N	WG751324	DROOROLVI	GW	URSTAZ	NM	500	25	10/31/14 1828	"water surr14G19448/spk14J28699"
24	1031_24	INSTBLK	LA31J29N						1	1	10/31/14 1847	" "
25	1031_25	INSTBLK	LA31J29N						1	1	10/31/14 1906	" "
26	1031_26	CCV DRO 60 PPM 14J18165	LA31J29N						1	1	10/31/14 1925	" "
27	1031_27	CCV 10W30 40M PPM 14J18165	LA31J29N						1	1	10/31/14 1944	" "

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\103114\
Data File : 1031 03.d
Signal(s) : FID1A.ch
Acq On : 31 Oct 2014 12:26 pm
Operator : 546
Sample : ICV DRO 60 PPM 14J18165
Misc :
ALS Vial : 3 Sample Multiplier: 1

Integration File: events.e
Quant Time: Oct 31 13:28:35 2014
Quant Method : C:\msdchem\1\methods\DR31J03N.m
Quant Title : DROLVI
QLast Update : Fri Oct 03 09:44:00 2014
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :

Compound	R.T.	Response	Conc	Units
System Monitoring Compounds				
5) s o-terphenyl	4.76	13018928	0.3720228	ppm m
Spiked Amount 0.0200 Range 50 - 150 Recovery = 1860.11%#				
Target Compounds				
1) t,h,m TPH (GC/FID) HIGH FRA...	3.13	1521094439	60.1996133	ppm
2) h,m C12-C22 Hydrocarbons	0.00	0	N.D.	ppm
3) h,m C10-C20 Hydrocarbons	0.00	0	N.D.	ppm
4) h,m C20-C34 Hydrocarbons	0.00	0	N.D.	ppm

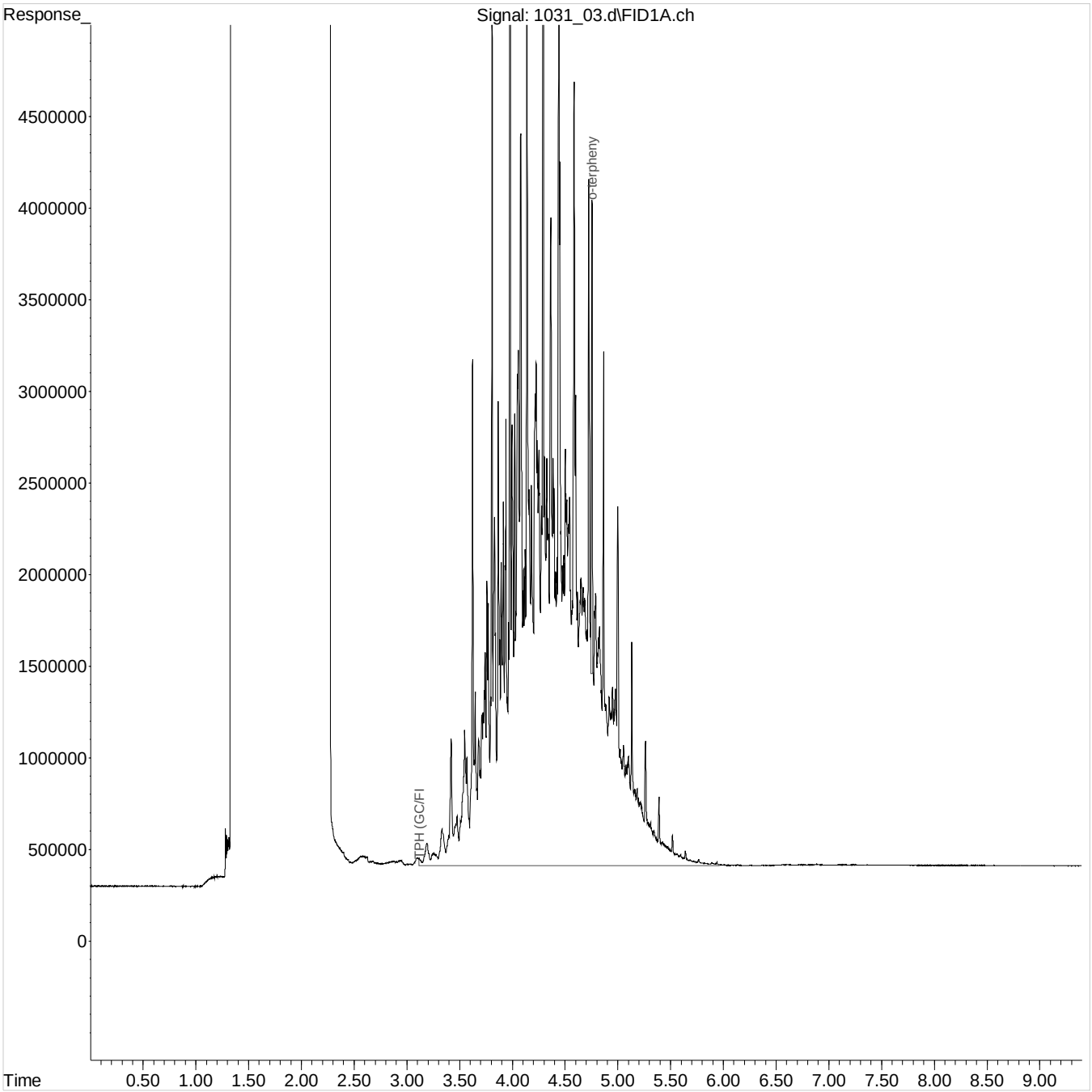
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\103114\
Data File : 1031 03.d
Signal(s) : FID1A.ch
Acq On : 31 Oct 2014 12:26 pm
Operator : 546
Sample : ICV DRO 60 PPM 14J18165
Misc :
ALS Vial : 3 Sample Multiplier: 1

Integration File: events.e
Quant Time: Oct 31 13:28:35 2014
Quant Method : C:\msdchem\1\methods\DR31J03N.m
Quant Title : DROLVI
QLast Update : Fri Oct 03 09:44:00 2014
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\103114\
Data File : 1031 13.d
Signal(s) : FID1A.ch
Acq On : 31 Oct 2014 3:25 pm
Operator : 546
Sample : CCV DRO 60 PPM 14J18165
Misc :
ALS Vial : 101 Sample Multiplier: 1

Integration File: events.e
Quant Time: Nov 01 10:14:29 2014
Quant Method : C:\msdchem\1\methods\LA31J29N.m
Quant Title :
QLast Update : Wed Oct 29 10:46:56 2014
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :

Compound	R.T.	Response	Conc	Units	
System Monitoring Compounds					
3) S o-terphenyl	4.76	13077060	0.3742016	ppm	m
Spiked Amount 0.0200 Range 50 - 150 Recovery = 1871.01%#					
Target Compounds					
1) H,M C10-C28 Diesel Range	3.13	1658498509	65.6941649	ppm	
2) H,M C28-C40 Oil Range	5.98	29704766	0.1052247	ppm	

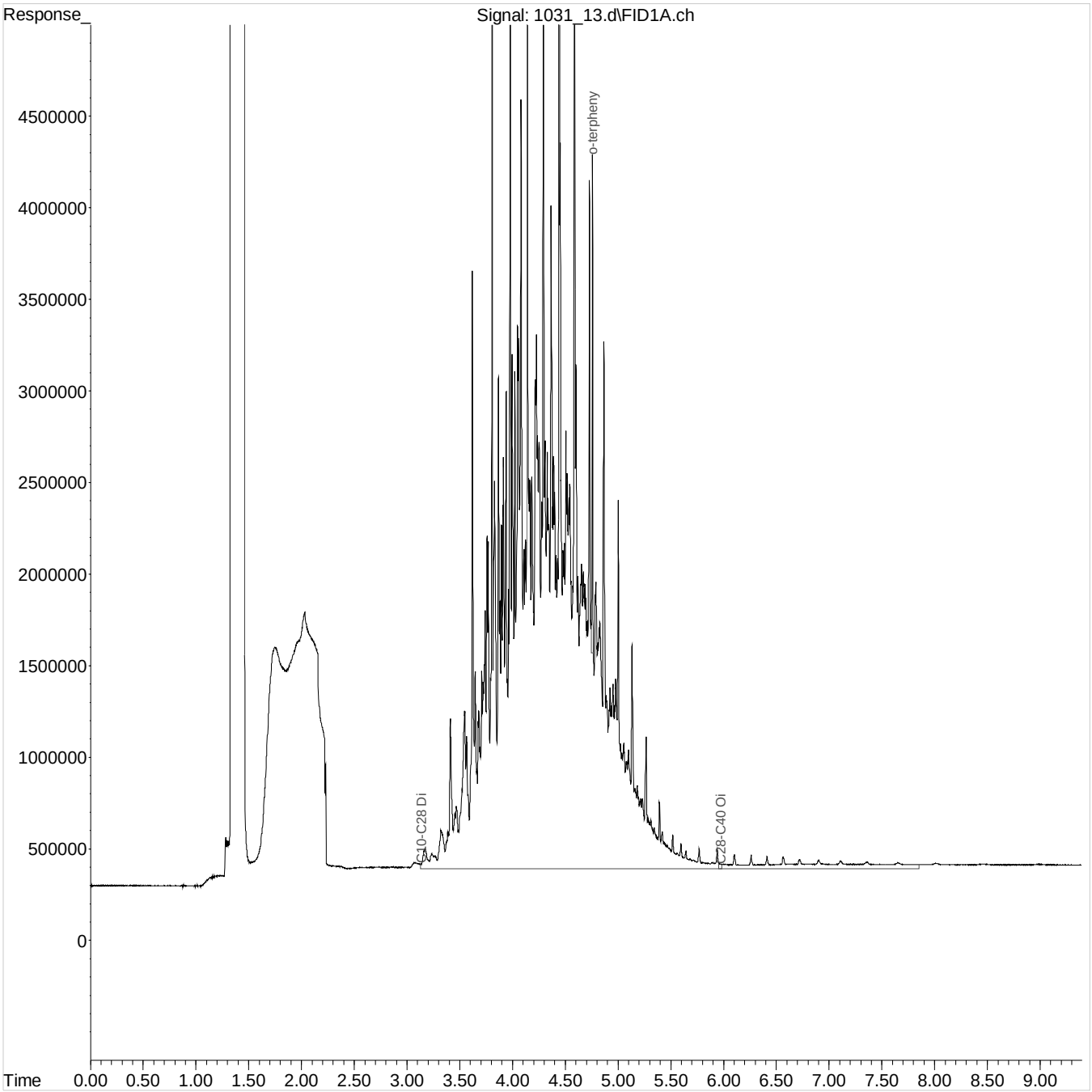
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\103114\
Data File : 1031 13.d
Signal(s) : FID1A.ch
Acq On : 31 Oct 2014 3:25 pm
Operator : 546
Sample : CCV DRO 60 PPM 14J18165
Misc :
ALS Vial : 101 Sample Multiplier: 1

Integration File: events.e
Quant Time: Nov 01 10:14:29 2014
Quant Method : C:\msdchem\1\methods\LA31J29N.m
Quant Title :
QLast Update : Wed Oct 29 10:46:56 2014
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\103114\
Data File : 1031 14.d
Signal(s) : FID1A.ch
Acq On : 31 Oct 2014 3:43 pm
Operator : 546
Sample : CCV 10W30 40M PPM 14J18165
Misc :
ALS Vial : 102 Sample Multiplier: 1

Integration File: events.e
Quant Time: Nov 01 10:15:02 2014
Quant Method : C:\msdchem\1\methods\LA31J29N.m
Quant Title :
QLast Update : Wed Oct 29 10:46:56 2014
Response via : Initial Calibration
Integrator: ChemStation

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	3.13	590047327	22.9137410	ppm
2) H,M C28-C40 Oil Range	5.98	501467935	38.0343831	ppm

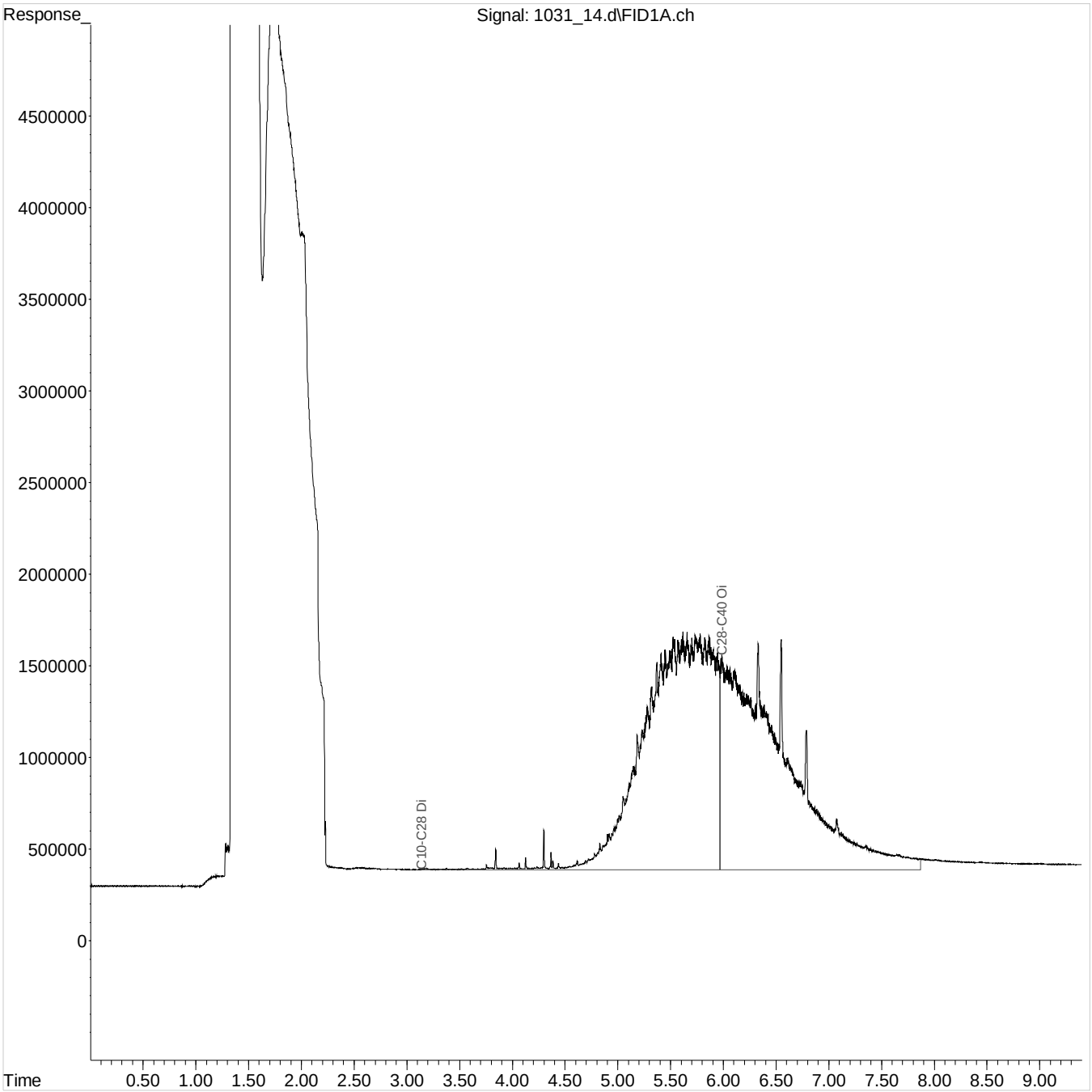
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\103114\
Data File : 1031 14.d
Signal(s) : FID1A.ch
Acq On : 31 Oct 2014 3:43 pm
Operator : 546
Sample : CCV 10W30 40M PPM 14J18165
Misc :
ALS Vial : 102 Sample Multiplier: 1

Integration File: events.e
Quant Time: Nov 01 10:15:02 2014
Quant Method : C:\msdchem\1\methods\LA31J29N.m
Quant Title :
QLast Update : Wed Oct 29 10:46:56 2014
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\103114\
Data File : 1031 16.d
Signal(s) : FID1A.ch
Acq On : 31 Oct 2014 4:19 pm
Operator : 546
Sample : BLANK 1x WG751825 40-2
Misc : water surr14G19448/spk14J28699
ALS Vial : 12 Sample Multiplier: 0.05

Integration File: events.e
Quant Time: Nov 01 10:16:16 2014
Quant Method : C:\msdchem\1\methods\LA31J29N.m
Quant Title :
QLast Update : Wed Oct 29 10:46:56 2014
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
3) S o-terphenyl	4.75	14688729	0.0210160 ppm m
Spiked Amount 0.0200 Range 50 - 150 Recovery = 105.08%			
Target Compounds			
1) H,M C10-C28 Diesel Range	3.13	17066839	N.D. ppm
2) H,M C28-C40 Oil Range	5.98	26423708	N.D. ppm

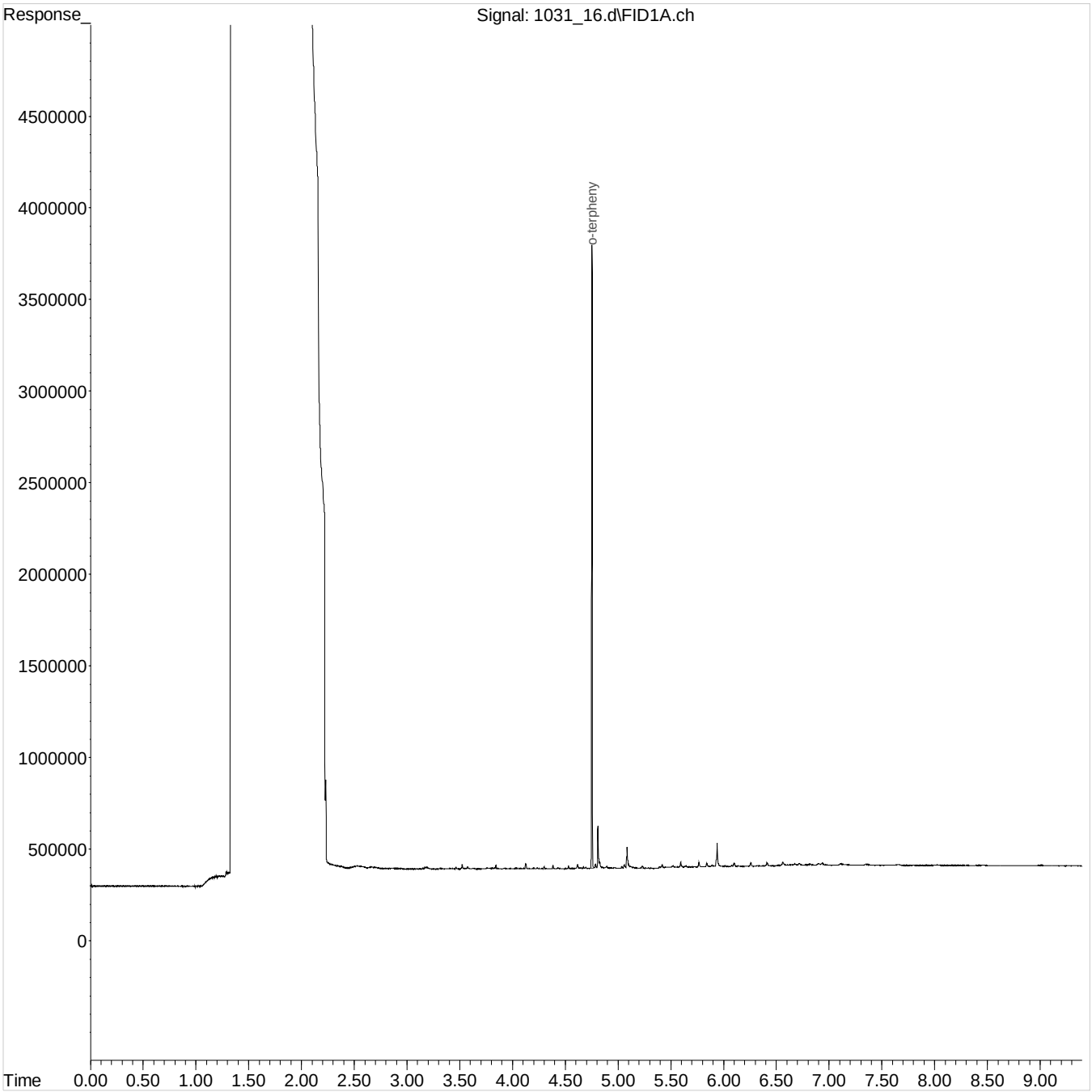
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\103114\
Data File : 1031 16.d
Signal(s) : FID1A.ch
Acq On : 31 Oct 2014 4:19 pm
Operator : 546
Sample : BLANK 1x WG751825 40-2
Misc : water surr14G19448/spk14J28699
ALS Vial : 12 Sample Multiplier: 0.05

Integration File: events.e
Quant Time: Nov 01 10:16:16 2014
Quant Method : C:\msdchem\1\methods\LA31J29N.m
Quant Title :
QLast Update : Wed Oct 29 10:46:56 2014
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\103114\
Data File : 1031 17.d
Signal(s) : FID1A.ch
Acq On : 31 Oct 2014 4:38 pm
Operator : 546
Sample : LCS 1x WG751825 40-2
Misc : water surr14G19448/spk14J28699
ALS Vial : 13 Sample Multiplier: 0.05

Integration File: events.e
Quant Time: Nov 01 10:16:52 2014
Quant Method : C:\msdchem\1\methods\LA31J29N.m
Quant Title :
QLast Update : Wed Oct 29 10:46:56 2014
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :

Compound	R.T.	Response	Conc	Units	
System Monitoring Compounds					
3) S o-terphenyl	4.75	14635798	0.0209403	ppm	m
Spiked Amount 0.0200 Range 50 - 150 Recovery = 104.70%					
Target Compounds					
1) H,M C10-C28 Diesel Range	3.13	779603638	1.5251756	ppm	
2) H,M C28-C40 Oil Range	5.98	20287722	N.D.	ppm	

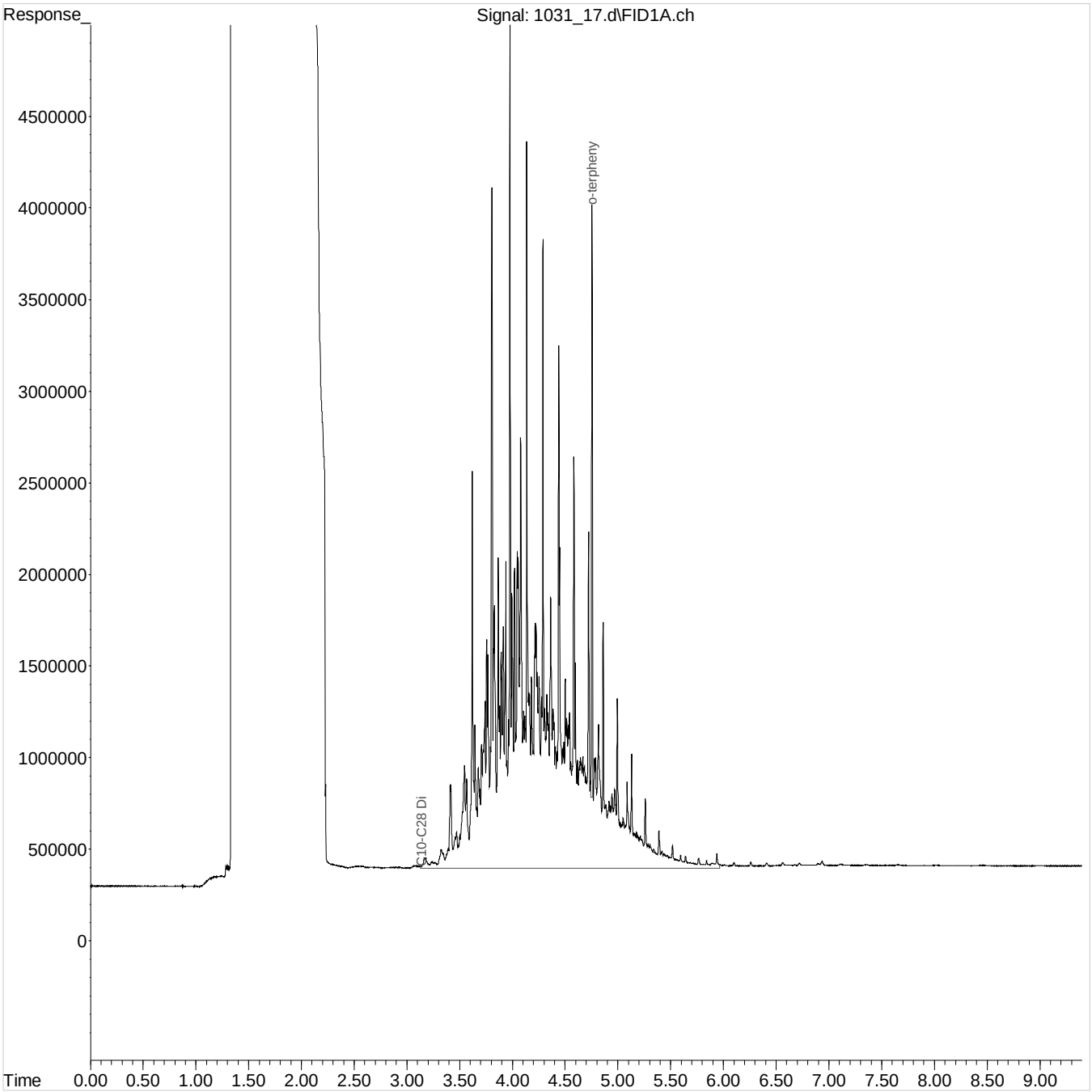
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\103114\
Data File : 1031 17.d
Signal(s) : FID1A.ch
Acq On : 31 Oct 2014 4:38 pm
Operator : 546
Sample : LCS 1x WG751825 40-2
Misc : water surr14G19448/spk14J28699
ALS Vial : 13 Sample Multiplier: 0.05

Integration File: events.e
Quant Time: Nov 01 10:16:52 2014
Quant Method : C:\msdchem\1\methods\LA31J29N.m
Quant Title :
QLast Update : Wed Oct 29 10:46:56 2014
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\103114\
Data File : 1031 18.d
Signal(s) : FID1A.ch
Acq On : 31 Oct 2014 4:56 pm
Operator : 546
Sample : LCSD 1x WG751825 40-2
Misc : water surr14G19448/spk14J28699
ALS Vial : 14 Sample Multiplier: 0.05

Integration File: events.e
Quant Time: Nov 01 10:17:28 2014
Quant Method : C:\msdchem\1\methods\LA31J29N.m
Quant Title :
QLast Update : Wed Oct 29 10:46:56 2014
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
3) S o-terphenyl	4.75	14855221	0.0212542 ppm m
Spiked Amount 0.0200 Range 50 - 150 Recovery = 106.27%			
Target Compounds			
1) H,M C10-C28 Diesel Range	3.13	833659131	1.6333938 ppm
2) H,M C28-C40 Oil Range	5.98	25524462	N.D. ppm

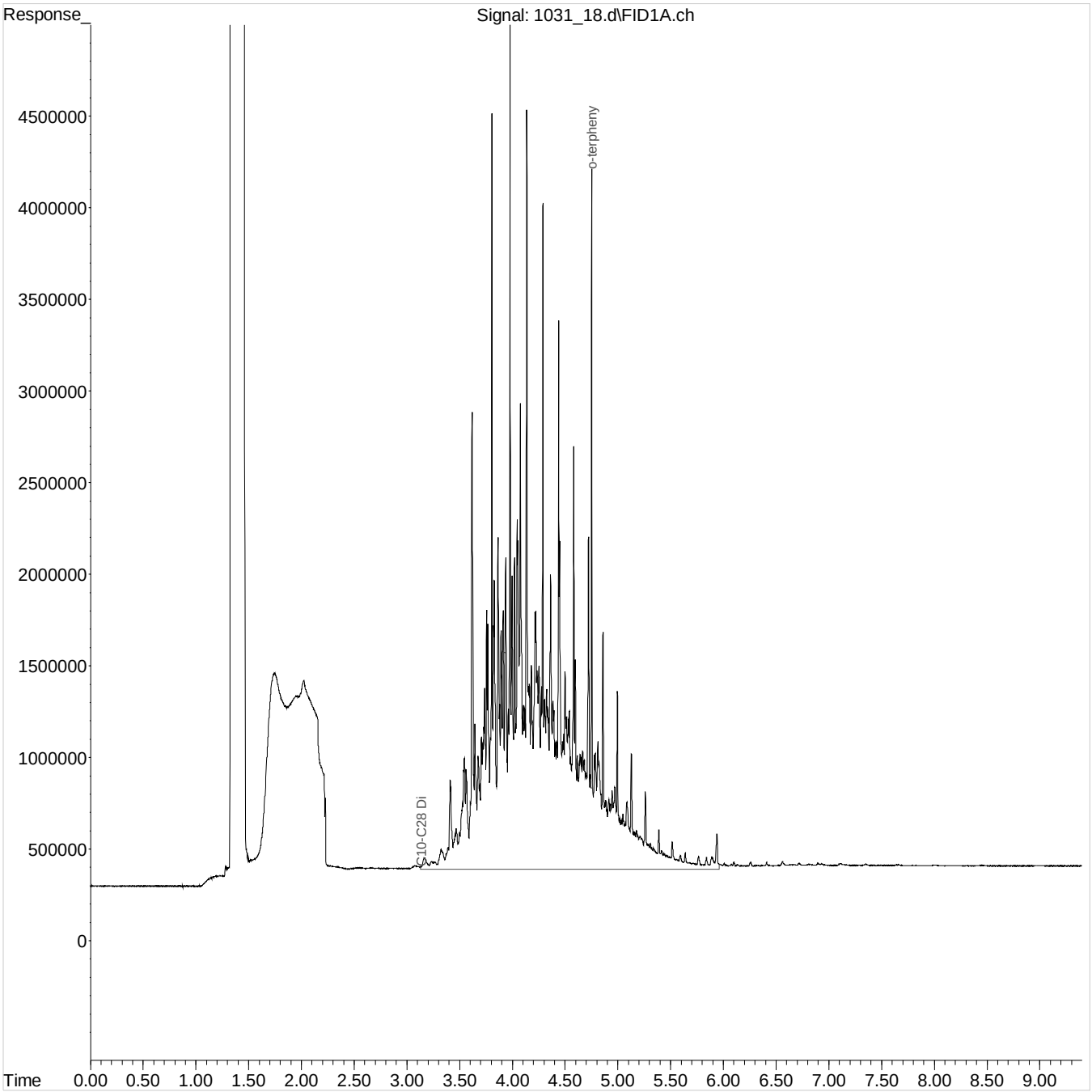
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\103114\
Data File : 1031 18.d
Signal(s) : FID1A.ch
Acq On : 31 Oct 2014 4:56 pm
Operator : 546
Sample : LCSD 1x WG751825 40-2
Misc : water surr14G19448/spk14J28699
ALS Vial : 14 Sample Multiplier: 0.05

Integration File: events.e
Quant Time: Nov 01 10:17:28 2014
Quant Method : C:\msdchem\1\methods\LA31J29N.m
Quant Title :
QLast Update : Wed Oct 29 10:46:56 2014
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\103114\
Data File : 1031 19.d
Signal(s) : FID1A.ch
Acq On : 31 Oct 2014 5:14 pm
Operator : 546
Sample : L729800-01 1x WG751825 40-2
Misc : water surr14G19448/spk14J28699
ALS Vial : 15 Sample Multiplier: 0.05

Integration File: events.e
Quant Time: Nov 01 10:18:11 2014
Quant Method : C:\msdchem\1\methods\LA31J29N.m
Quant Title :
QLast Update : Wed Oct 29 10:46:56 2014
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :

Compound	R.T.	Response	Conc	Units	
System Monitoring Compounds					
3) S o-terphenyl	4.75	14970026	0.0214185	ppm	m
Spiked Amount 0.0200 Range 50 - 150 Recovery = 107.09%					
Target Compounds					
1) H,M C10-C28 Diesel Range	3.13	198217842	0.3612510	ppm	
2) H,M C28-C40 Oil Range	5.98	134192059	0.4252935	ppm	

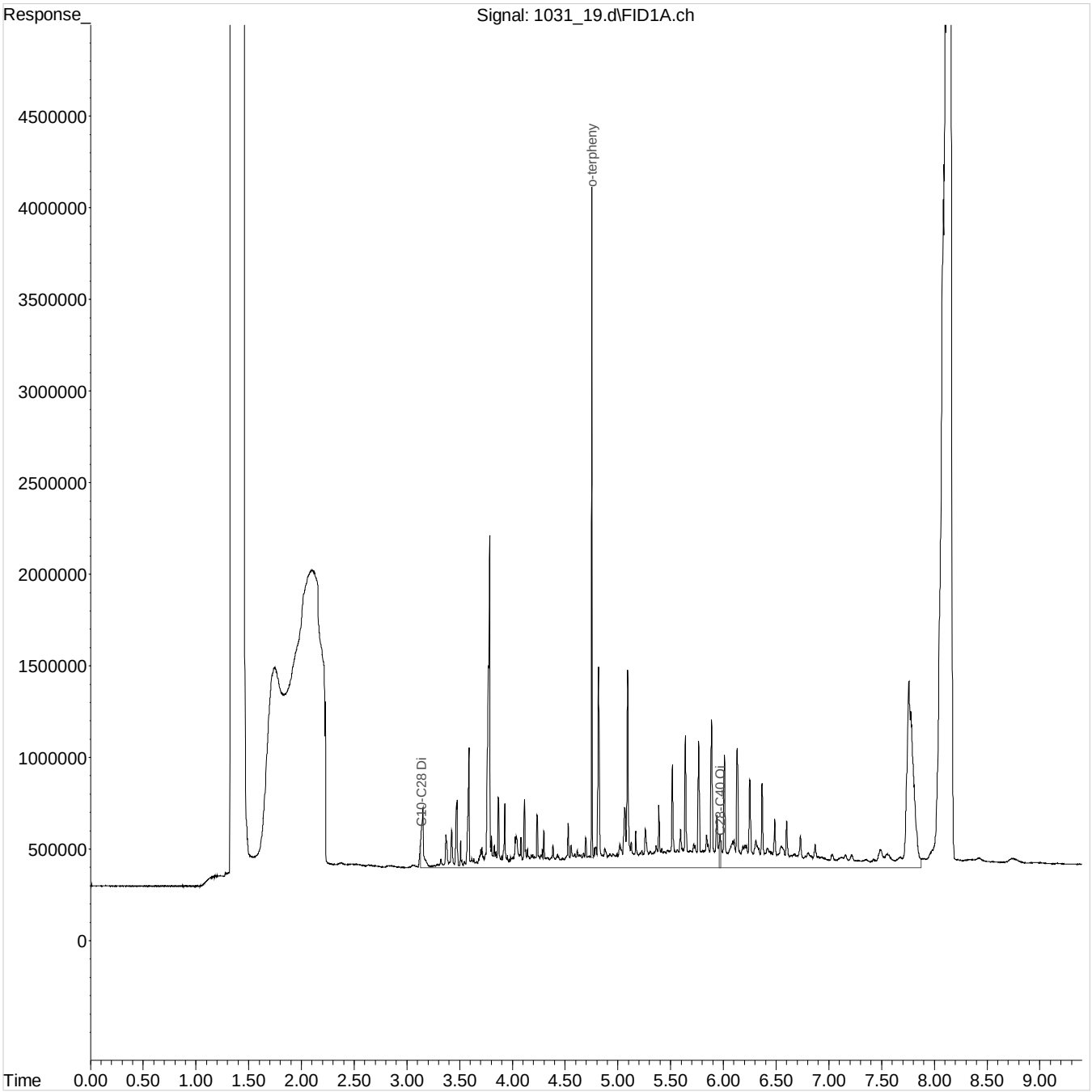
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\103114\
Data File : 1031 19.d
Signal(s) : FID1A.ch
Acq On : 31 Oct 2014 5:14 pm
Operator : 546
Sample : L729800-01 1x WG751825 40-2
Misc : water surr14G19448/spk14J28699
ALS Vial : 15 Sample Multiplier: 0.05

Integration File: events.e
Quant Time: Nov 01 10:18:11 2014
Quant Method : C:\msdchem\1\methods\LA31J29N.m
Quant Title :
QLast Update : Wed Oct 29 10:46:56 2014
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\103114\
Data File : 1031 20.d
Signal(s) : FID1A.ch
Acq On : 31 Oct 2014 5:33 pm
Operator : 546
Sample : MS 1x WG751825 L729800-01 40-2
Misc : water surr14G19448/spk14J28699
ALS Vial : 16 Sample Multiplier: 0.05

Integration File: events.e
Quant Time: Nov 01 10:18:46 2014
Quant Method : C:\msdchem\1\methods\LA31J29N.m
Quant Title :
QLast Update : Wed Oct 29 10:46:56 2014
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :

Compound	R.T.	Response	Conc	Units	
System Monitoring Compounds					
3) S o-terphenyl	4.75	14680769	0.0210046	ppm	m
Spiked Amount 0.0200 Range 50 - 150 Recovery = 105.02%					
Target Compounds					
1) H,M C10-C28 Diesel Range	3.13	1033202475	2.0328762	ppm	
2) H,M C28-C40 Oil Range	5.98	98135554	0.2803486	ppm	

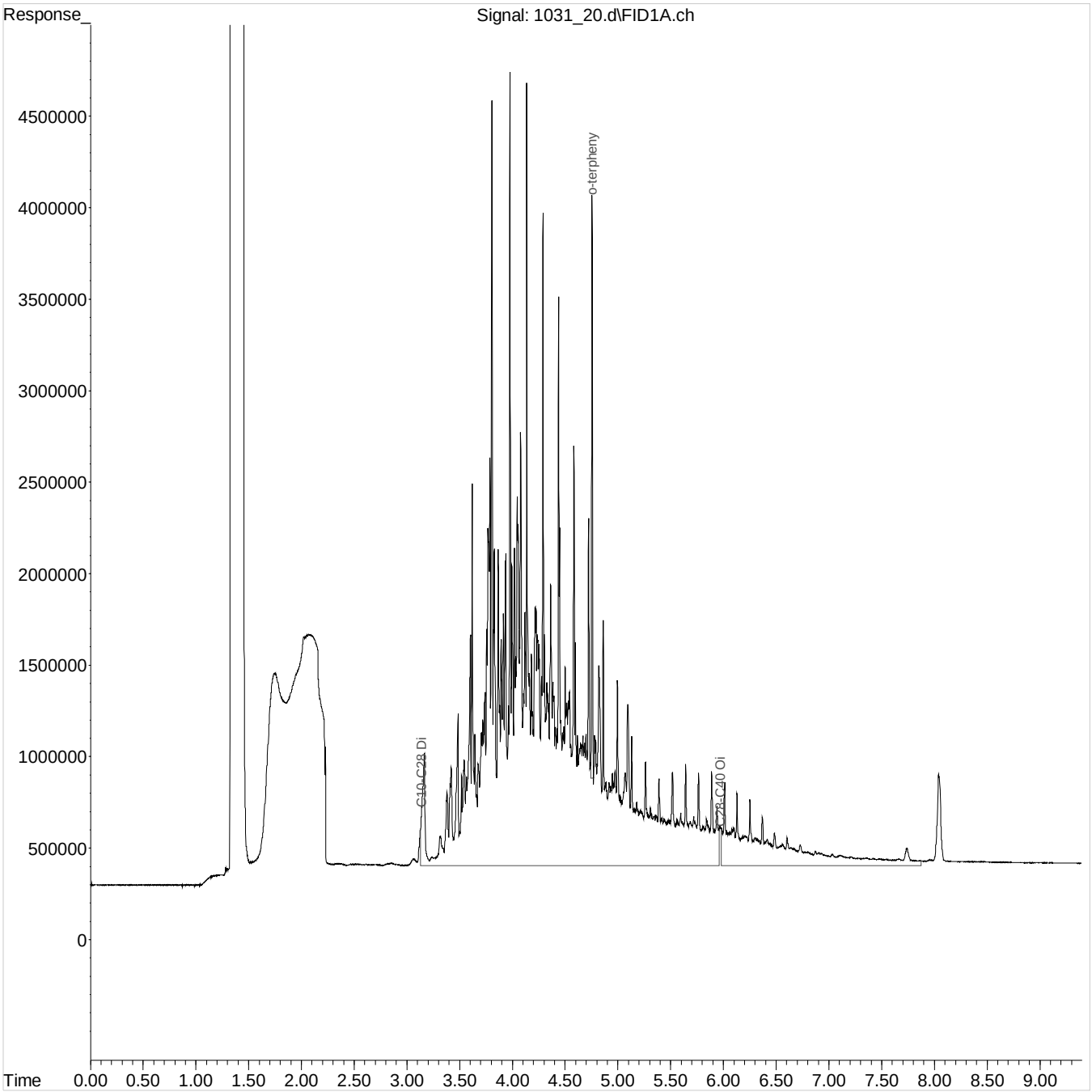
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\103114\
Data File : 1031 20.d
Signal(s) : FID1A.ch
Acq On : 31 Oct 2014 5:33 pm
Operator : 546
Sample : MS 1x WG751825 L729800-01 40-2
Misc : water surr14G19448/spk14J28699
ALS Vial : 16 Sample Multiplier: 0.05

Integration File: events.e
Quant Time: Nov 01 10:18:46 2014
Quant Method : C:\msdchem\1\methods\LA31J29N.m
Quant Title :
QLast Update : Wed Oct 29 10:46:56 2014
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\103114\
Data File : 1031 21.d
Signal(s) : FID1A.ch
Acq On : 31 Oct 2014 5:51 pm
Operator : 546
Sample : MSD 1x WG751825 L729800-01 40-2
Misc : water surr14G19448/spk14J28699
ALS Vial : 17 Sample Multiplier: 0.05

Integration File: events.e
Quant Time: Nov 01 10:19:15 2014
Quant Method : C:\msdchem\1\methods\LA31J29N.m
Quant Title :
QLast Update : Wed Oct 29 10:46:56 2014
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
3) S o-terphenyl	4.75	15484913	0.0221551 ppm m
Spiked Amount 0.0200 Range 50 - 150 Recovery = 110.78%			
Target Compounds			
1) H,M C10-C28 Diesel Range	3.13	1103488893	2.1735884 ppm
2) H,M C28-C40 Oil Range	5.98	147947528	0.4805896 ppm

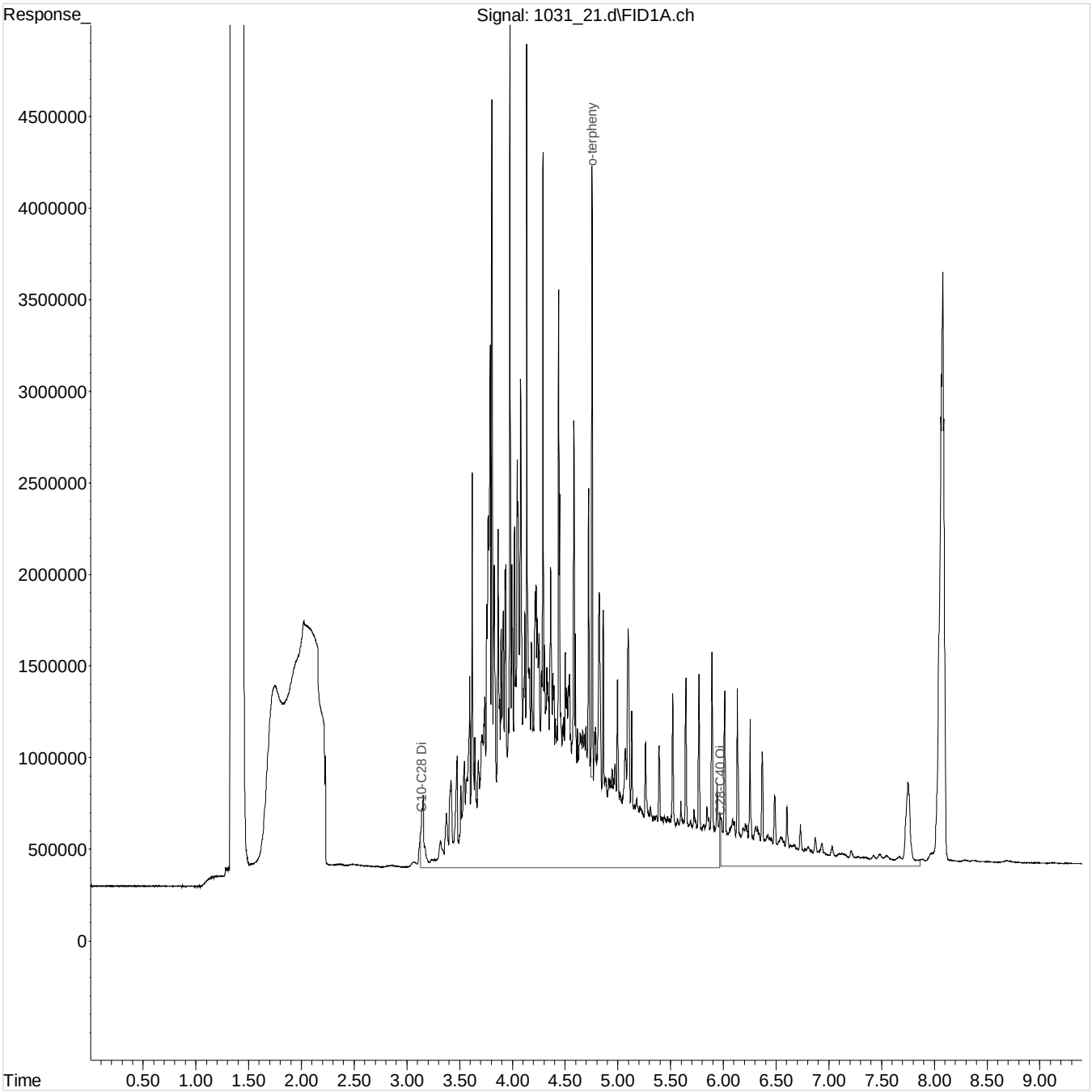
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\103114\
Data File : 1031 21.d
Signal(s) : FID1A.ch
Acq On : 31 Oct 2014 5:51 pm
Operator : 546
Sample : MSD 1x WG751825 L729800-01 40-2
Misc : water surr14G19448/spk14J28699
ALS Vial : 17 Sample Multiplier: 0.05

Integration File: events.e
Quant Time: Nov 01 10:19:15 2014
Quant Method : C:\msdchem\1\methods\LA31J29N.m
Quant Title :
QLast Update : Wed Oct 29 10:46:56 2014
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\103114\
Data File : 1031 26.d
Signal(s) : FID1A.ch
Acq On : 31 Oct 2014 7:25 pm
Operator : 546
Sample : CCV DRO 60 PPM 14J18165
Misc :
ALS Vial : 103 Sample Multiplier: 1

Integration File: events.e
Quant Time: Nov 01 10:21:45 2014
Quant Method : C:\msdchem\1\methods\LA31J29N.m
Quant Title :
QLast Update : Wed Oct 29 10:46:56 2014
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :

Compound	R.T.	Response	Conc	Units
System Monitoring Compounds				
3) S o-terphenyl	4.75	13340318	0.3817348	ppm m
Spiked Amount 0.0200 Range 50 - 150 Recovery = 1908.67%#				
Target Compounds				
1) H,M C10-C28 Diesel Range	3.13	1623711041	64.3012865	ppm
2) H,M C28-C40 Oil Range	5.98	27843408	N.D.	ppm

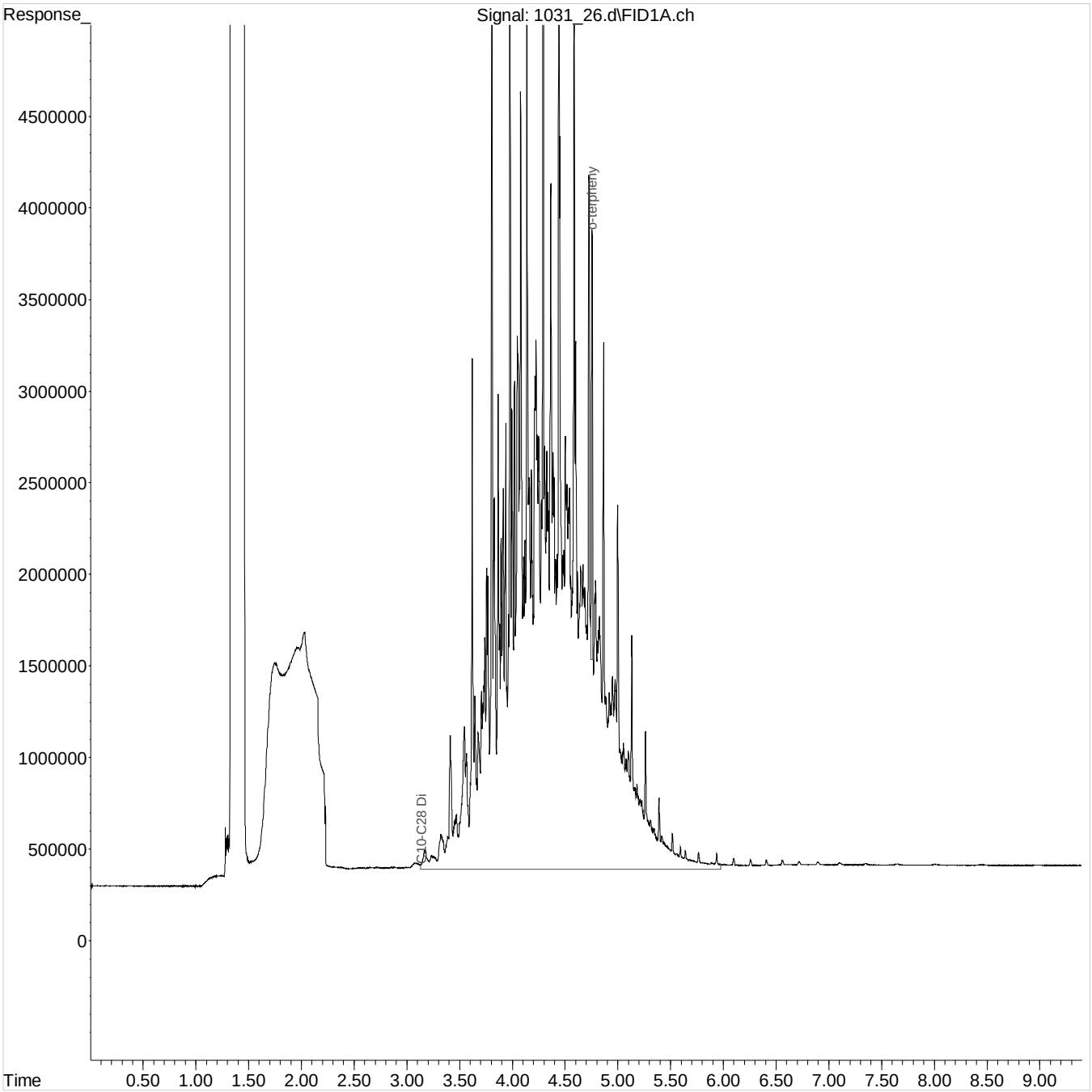
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\103114\
Data File : 1031 26.d
Signal(s) : FID1A.ch
Acq On : 31 Oct 2014 7:25 pm
Operator : 546
Sample : CCV DRO 60 PPM 14J18165
Misc :
ALS Vial : 103 Sample Multiplier: 1

Integration File: events.e
Quant Time: Nov 01 10:21:45 2014
Quant Method : C:\msdchem\1\methods\LA31J29N.m
Quant Title :
QLast Update : Wed Oct 29 10:46:56 2014
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\103114\
Data File : 1031 27.d
Signal(s) : FID1A.ch
Acq On : 31 Oct 2014 7:44 pm
Operator : 546
Sample : CCV 10W30 40M PPM 14J18165
Misc :
ALS Vial : 104 Sample Multiplier: 1

Integration File: events.e
Quant Time: Nov 01 10:22:24 2014
Quant Method : C:\msdchem\1\methods\LA31J29N.m
Quant Title :
QLast Update : Wed Oct 29 10:46:56 2014
Response via : Initial Calibration
Integrator: ChemStation

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	3.13	594289962	23.0836146	ppm
2) H,M C28-C40 Oil Range	5.98	505386208	38.3494073	ppm

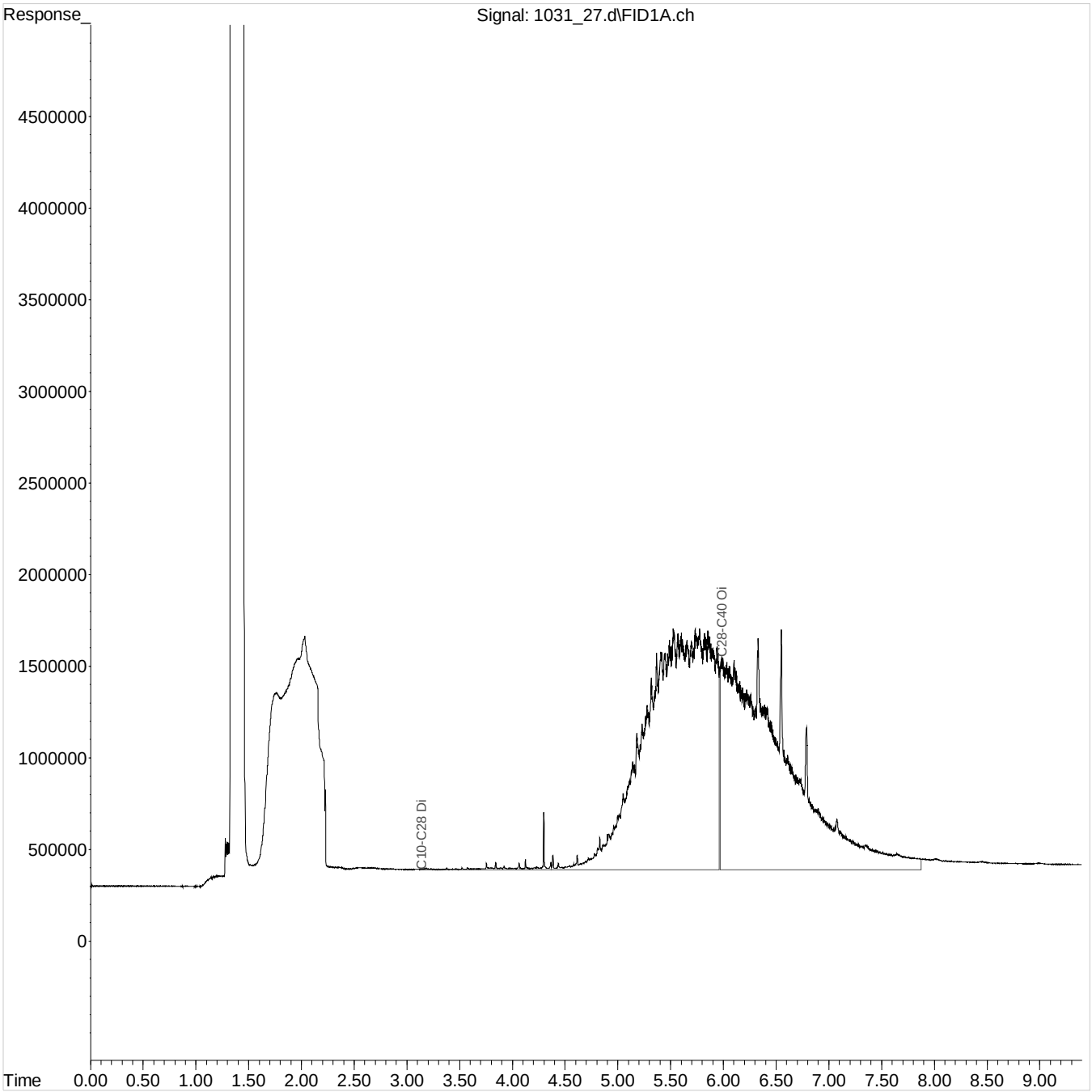
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\103114\
Data File : 1031 27.d
Signal(s) : FID1A.ch
Acq On : 31 Oct 2014 7:44 pm
Operator : 546
Sample : CCV 10W30 40M PPM 14J18165
Misc :
ALS Vial : 104 Sample Multiplier: 1

Integration File: events.e
Quant Time: Nov 01 10:22:24 2014
Quant Method : C:\msdchem\1\methods\LA31J29N.m
Quant Title :
QLast Update : Wed Oct 29 10:46:56 2014
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :



Calibration

Instrument: SVGC31
Method: LA31J29N

Initial Calibration Run Log

File ID	Level ID	Date Analyzed
0513A_03.d	2	5/13/2014 10:09:00 AM
0513A_04.d	4	5/13/2014 10:29:00 AM
0513A_05.d	10	5/13/2014 10:49:00 AM
0513A_06.d	20	5/13/2014 11:09:00 AM
0513A_09.d	40	5/13/2014 12:09:00 PM
0513A_08.d	60	5/13/2014 11:49:00 AM
0513A_10.d	100	5/13/2014 12:28:00 PM
0513A_11.d	200	5/13/2014 12:47:00 PM
1023_27.d	1M	10/23/2014 7:38:00 PM
1023_28.d	2M	10/23/2014 7:56:00 PM
1023_29.d	4M	10/23/2014 8:14:00 PM
1023_30.d	10M	10/23/2014 8:32:00 PM
1023_31.d	20M	10/23/2014 8:50:00 PM
1023_32.d	40M	10/23/2014 9:08:00 PM
1023_33.d	50M	10/23/2014 9:26:00 PM
1023_34.d	100M	10/23/2014 9:44:00 PM

Environmental Science Corporation
12065 Lebanon Rd., Mt. Juliet, TN 37122

Injection Log

Instrument ID : SVGC31
Computer Name : SVCOMPBA
Released By : Brian Ford
Date Released : 10/29/2014 10:49:31 AM
Run ID : 102314
Signature : _____

#	File ID	Sample ID	Method	WG	Product	Matrix	Account #	State	Dil.	Mult.	Injected	Misc.
1	0513A_02	LOC FL 68 PPM 14E05008	LA31J23N						1	1	05/13/14 0949	" "
2	0513A_03	STD DRO 2 PPM 14D09595	LA31J23N						1	1	05/13/14 1009	" "
3	0513A_04	STD DRO 4 PPM 14D09595	LA31J23N						1	1	05/13/14 1029	" "
4	0513A_05	STD DRO 10 PPM 14D09595	LA31J23N						1	1	05/13/14 1049	" "
5	0513A_06	STD DRO 20 PPM 14D09595	LA31J23N						1	1	05/13/14 1109	" "
6	0513A_08	STD DRO 60 PPM 14D09595	LA31J23N						1	1	05/13/14 1149	" "
7	0513A_09	STD DRO 40 PPM 14D09595	LA31J23N						1	1	05/13/14 1209	" "
8	0513A_10	STD DRO 100 PPM 14D09595	LA31J23N						1	1	05/13/14 1228	" "
9	0513A_11	STD DRO 200 PPM 14D09595	LA31J23N						1	1	05/13/14 1247	" "
10	0513A_12	SSCV DRO 60 PPM 14D09596	LA31J23N						1	1	05/13/14 1307	" "
11	1023_01	INSTBLK	LA31J23N						1	1	10/23/14 1155	" "
12	1023_02	LOC FL 68 PPM 14J08656	EP31J22N						1	1	10/23/14 1213	" "
13	1023_06	INSTBLK	EP31J22N						1	1	10/23/14 1323	" "
14	1023_07	INSTBLK	EP31J22N						1	1	10/23/14 1341	" "
15	1023_23	INSTBLK	EP31J22N						1	1	10/23/14 1826	" "

Environmental Science Corporation
12065 Lebanon Rd., Mt. Juliet, TN 37122

Injection Log

Instrument ID : SVGC31
Computer Name : SVCOMPBA
Released By : Brian Ford
Date Released : 10/29/2014 10:49:31 AM
Run ID : 102314
Signature : _____

#	File ID	Sample ID	Method	WG	Product	Matrix	Account #	State	Dil.	Mult.	Injected	Misc.
16	1023_24	INSTBLK	EP31J22N						1	1	10/23/14 1844	" "
17	1023_26	LOC FL 68 PPM 14J08656	LA31J23N						1	1	10/23/14 1920	" "
18	1023_27	STD 10W30 1 PPM 14J23427	LA31J23N						1	1	10/23/14 1938	" "
19	1023_28	STD 10W30 2 PPM 14J23427	LA31J23N						1	1	10/23/14 1956	" "
20	1023_29	STD 10W30 4 PPM 14J23427	LA31J23N						1	1	10/23/14 2014	" "
21	1023_30	STD 10W30 10 PPM 14J23427	LA31J23N						1	1	10/23/14 2032	" "
22	1023_31	STD 10W30 20 PPM 14J23427	LA31J23N						1	1	10/23/14 2050	" "
23	1023_32	STD 10W30 40 PPM 14J23427	LA31J23N						1	1	10/23/14 2108	" "
24	1023_33	STD 10W30 50 PPM 14J23427	LA31J23N						1	1	10/23/14 2126	" "
25	1023_34	STD 10W30 100 PPM 14J23427	LA31J23N						1	1	10/23/14 2144	" "
26	1023_35	SSCV 10W30 30 PPM 14J23434	LA31J23N						1	1	10/23/14 2201	" "
27	1029_02.d	LOC FL 68 PPM 14J20224	LA31J29N						1	1	10/29/14 1022	" "

Environmental Science Corporation
12065 Lebanon Rd., Mt. Juliet, TN 37122

INITIAL CALIBRATION SUMMARY

Instrument ID	: SVGC31	Review Method	: LVI EPH	Released By	: Brian Ford
Method	: LA31J29N	Review Protocol	: SW846	Released On	: 10/29/2014 10:49:31 AM

INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- LA31J29N -- ICal Updated Time: Wed Oct 29 10:46:56 2014

Parameter	2	4	10	20	40	60	100	200	1M	2M	4M	10M	20M	40M	50M	100M	AvgRF	%RSD	COD	Cur
C10-C28 Diesel Range	3.238 E+07	2.884 E+07	2.725 E+07	2.719 E+07	2.583 E+07	2.525 E+07	2.524 E+07	2.481 E+07									2.7100 38E+07	9.32	1	0
C28-C40 Oil Range									4.201 E+07	2.673 E+07	1.917 E+07	1.462 E+07	1.358 E+07	1.306 E+07	1.295 E+07	1.291 E+07	1.9377 28E+07	53.27	1	0
o-terphenyl	3.713 E+07	3.567 E+07	3.447 E+07	3.364 E+07	3.382 E+07												3.4946 56E+07	4.17	0.042	1

PDF Generated On: 10/29/2014 -- By: Brian Ford

Response Factor Report SVGC31

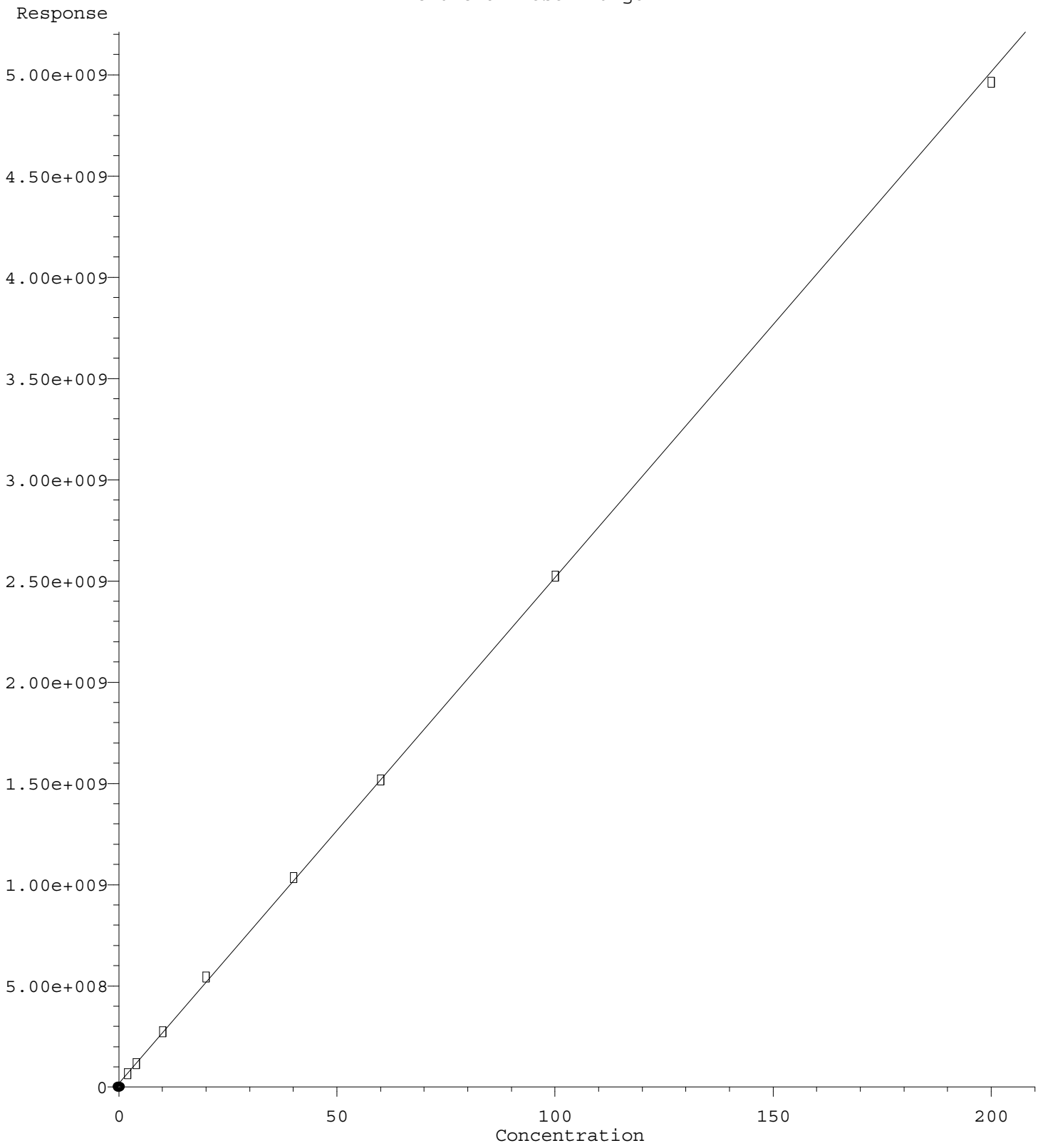
Method Path : C:\msdchem\1\methods\
Method File : LA31J29N.m
Title :
Last Update : Wed Oct 29 10:46:56 2014
Response Via : Initial Calibration

Calibration Files
2 =0513A 03.d 4 =0513A 04.d 10 =0513A 05.d
20 =0513A_06.d 40 =0513A_09.d 60 =0513A_08.d

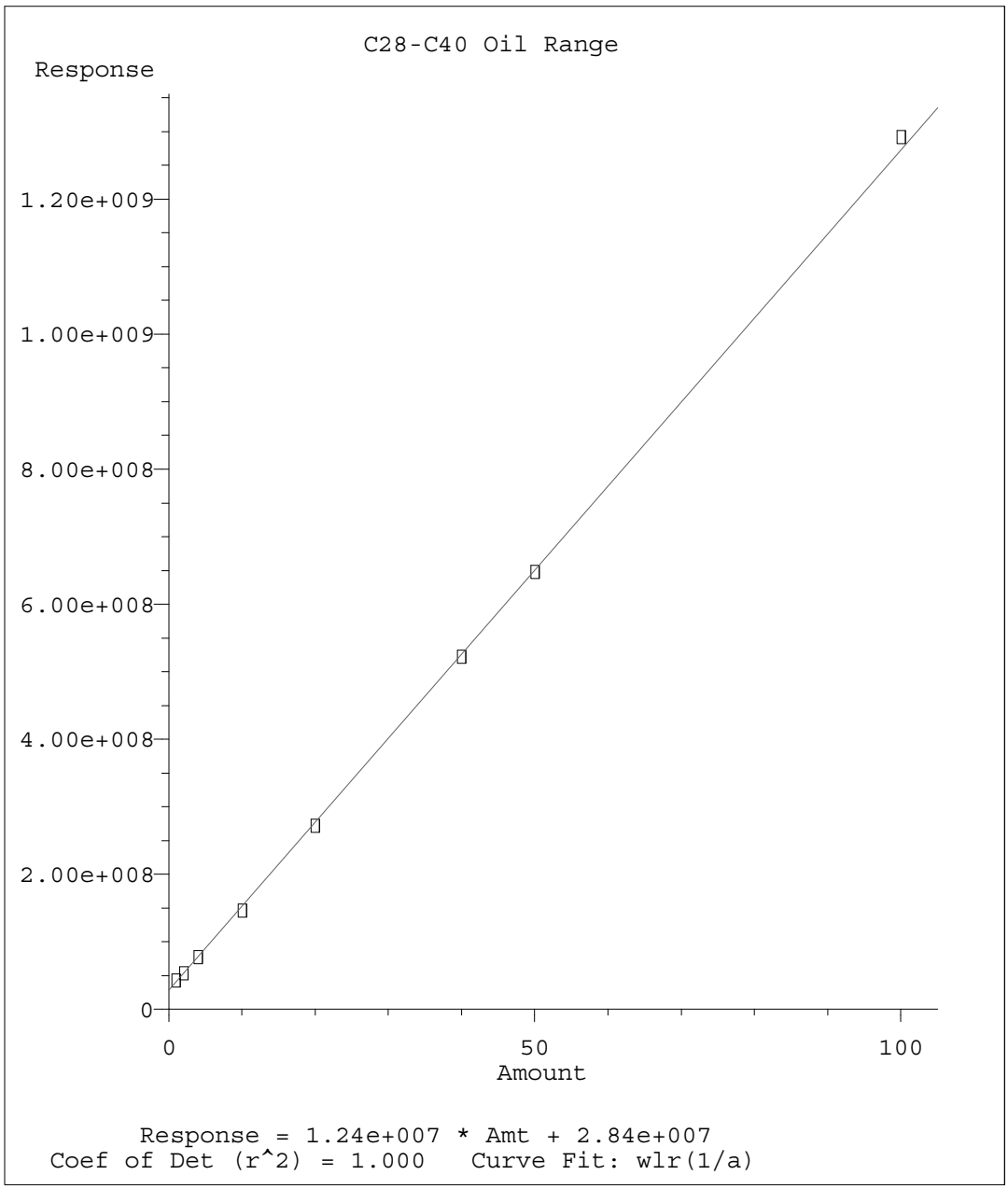
Compound	2	4	10	20	40	60	Avg	%RSD
1) H,M C10-C28 Diese...	3.238	2.884	2.725	2.719	2.583	2.525	2.710 E7	9.32
2) H,M C28-C40 Oil R...							1.938 E7	53.27
3) S o-terphenyl	3.713	3.567	3.447	3.364	3.382		3.495 E7	4.17

(#) = Out of Range ### Number of calibration levels exceeded format ###

C10-C28 Diesel Range



Response = 2.50e+007 * Amt + 1.78e+007
Coef of Det (r^2) = 1.000 Curve Fit: wlr(1/a)
Method Name: C:\msdchem\1\methods\LA31J29N.m
Calibration Table Last Updated: Wed Oct 29 10:46:55 2014



Method Name: C:\msdchem\1\methods\LA31J29N.m

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\102314\
Data File : 0513A 02.d
Signal(s) : FID1A.ch
Acq On : 13 May 2014 9:49 am
Operator :
Sample : LOC FL 68 PPM 14E05008
Misc :
ALS Vial : 2 Sample Multiplier: 1

Integration File: events.e
Quant Time: Oct 24 12:10:19 2014
Quant Method : C:\msdchem\1\methods\LA31J23N.m
Quant Title :
QLast Update : Fri Oct 24 12:07:42 2014
Response via : Initial Calibration
Integrator: ChemStation

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	3.23	1077216284	42.4198212	ppm
2) H,M C28-C40 Oil Range	5.98	686074481	52.8765145	ppm

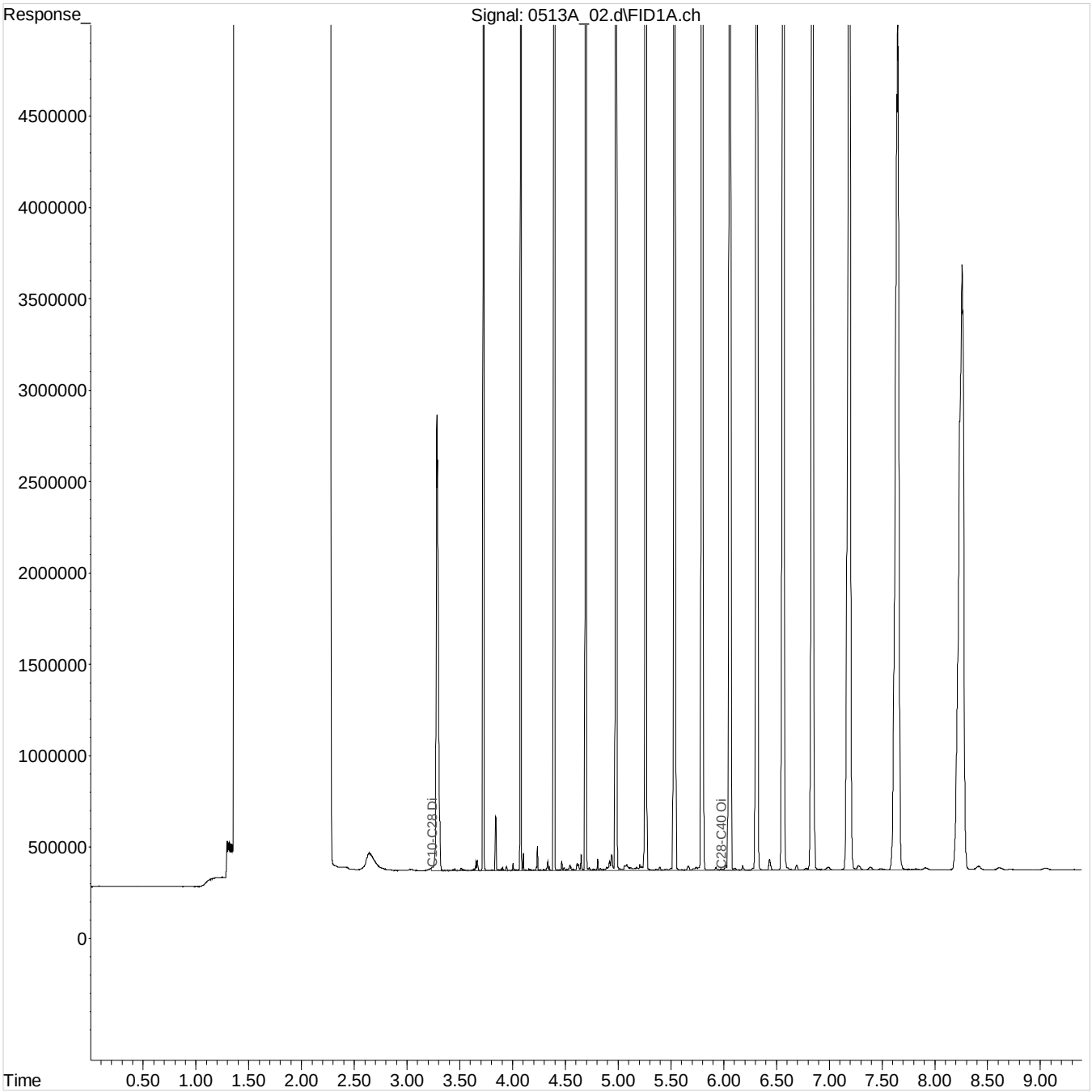
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\102314\
Data File : 0513A 02.d
Signal(s) : FID1A.ch
Acq On : 13 May 2014 9:49 am
Operator :
Sample : LOC FL 68 PPM 14E05008
Misc :
ALS Vial : 2 Sample Multiplier: 1

Integration File: events.e
Quant Time: Oct 24 12:10:19 2014
Quant Method : C:\msdchem\1\methods\LA31J23N.m
Quant Title :
QLast Update : Fri Oct 24 12:07:42 2014
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :

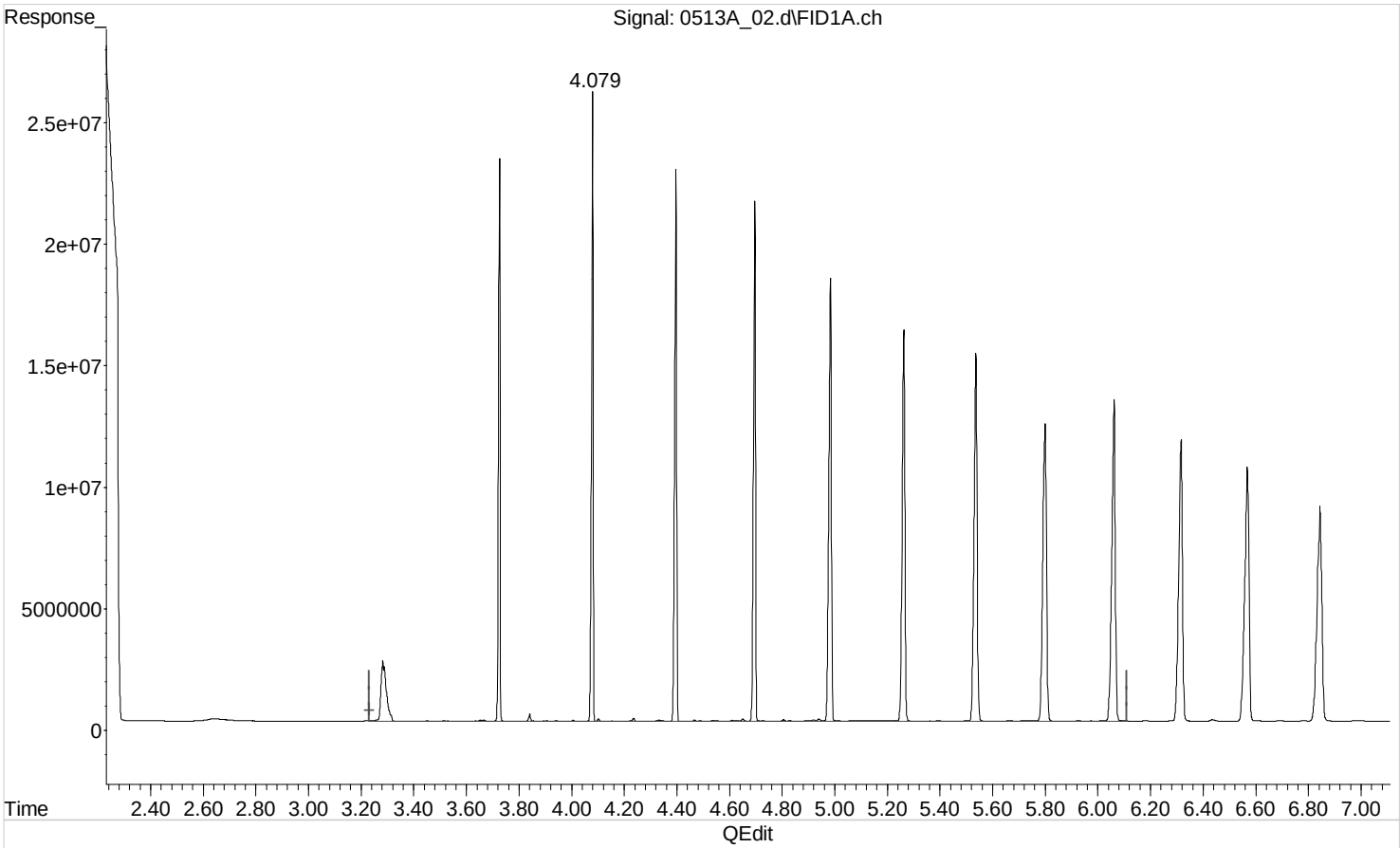


Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\102314\
Data File : 0513A 02.d
Signal(s) : FID1A.ch
Acq On : 13 May 2014 9:49 am
Operator :
Sample : LOC FL 68 PPM 14E05008
Misc :
ALS Vial : 2 Sample Multiplier: 1

Integration File: events.e
Quant Time: Oct 24 12:10:19 2014
Quant Method : C:\msdchem\1\methods\LA31J23N.m
Quant Title :
QLast Update : Fri Oct 24 12:07:42 2014
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :



(1) C10-C28 Diesel Range (H,M)

3.230min 42.4198212 ppm m

response 1077216284

(+) = Expected Retention Time

LA31J23N.m Fri Oct 24 12:10:25 2014 Page: 1

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\102314\
Data File : 1023 02.d
Signal(s) : FID1A.ch
Acq On : 23 Oct 2014 12:13 pm
Operator : 546
Sample : LOC FL 68 PPM 14J08656
Misc :
ALS Vial : 2 Sample Multiplier: 1

Integration File: events.e
Quant Time: Oct 23 12:36:18 2014
Quant Method : C:\msdchem\1\methods\EP31J22N.m
Quant Title :
QLast Update : Wed Oct 22 15:02:20 2014
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :

Compound	R.T.	Response	Conc	Units
System Monitoring Compounds				
23) 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-C20 Hydrocarbons	3.14	563817376	27.5959197	ppm
2) H,M C20-C34 Hydrocarbons	4.92	748384637	25.7521273	ppm
3) H,M C20-C36 Hydrocarbons	4.98	849311060	NoCal	ppm
4) T,H,M Extractable Petroleum...	3.60	1565123347	60.7408544	ppm
5) H,M C12-C22 Hydrocarbons	3.60	640463805	27.9383212	ppm
6) H,M C22-C32 Hydrocarbons	5.19	537053107	22.7165148	ppm
7) H,M C32-C40 Hydrocarbons	6.47	384593590	16.2071501	ppm
8) H,M MISC. TPH (C10-C40)	3.14	1598077424	61.2421184	ppm
9) H,M TPH (GC/FID) HIGH FRA...	3.14	1214929324	51.4445394	ppm
10) H,M C10-C28 Diesel Range	3.14	1003812601	35.4154054	ppm
11) H,M C28-C40 Oil Range	5.98	596846734	22.3554906	ppm
12) H,M C13-C22 Hydrocarbons	3.78	547992501	25.2931504	ppm
13) H,M C23-C32 Hydrocarbons	5.25	537020688	23.5453446	ppm
14) h,m Diesel Range Organics	3.60	750248151	27.1431803	ppm
15) h,m Residual Range Organics	5.46	814233602	34.2573305	ppm
16) h Hydraulic Fluid	0.00	1152342	NoCal	ppm
17) h #6 Fuel Oil	0.00	1152342	NoCal	ppm
18) h Kerosene	0.00	1152342	NoCal	ppm
19) h Mineral Spirits	0.00	1152342	NoCal	ppm
20) h Biodiesel	0.00	1152342	NoCal	ppm
21) h,m Diesel	3.14	563817376	27.6374585	ppm
22) h,m Motor Oil	4.92	1032850667	32.5320517	ppm

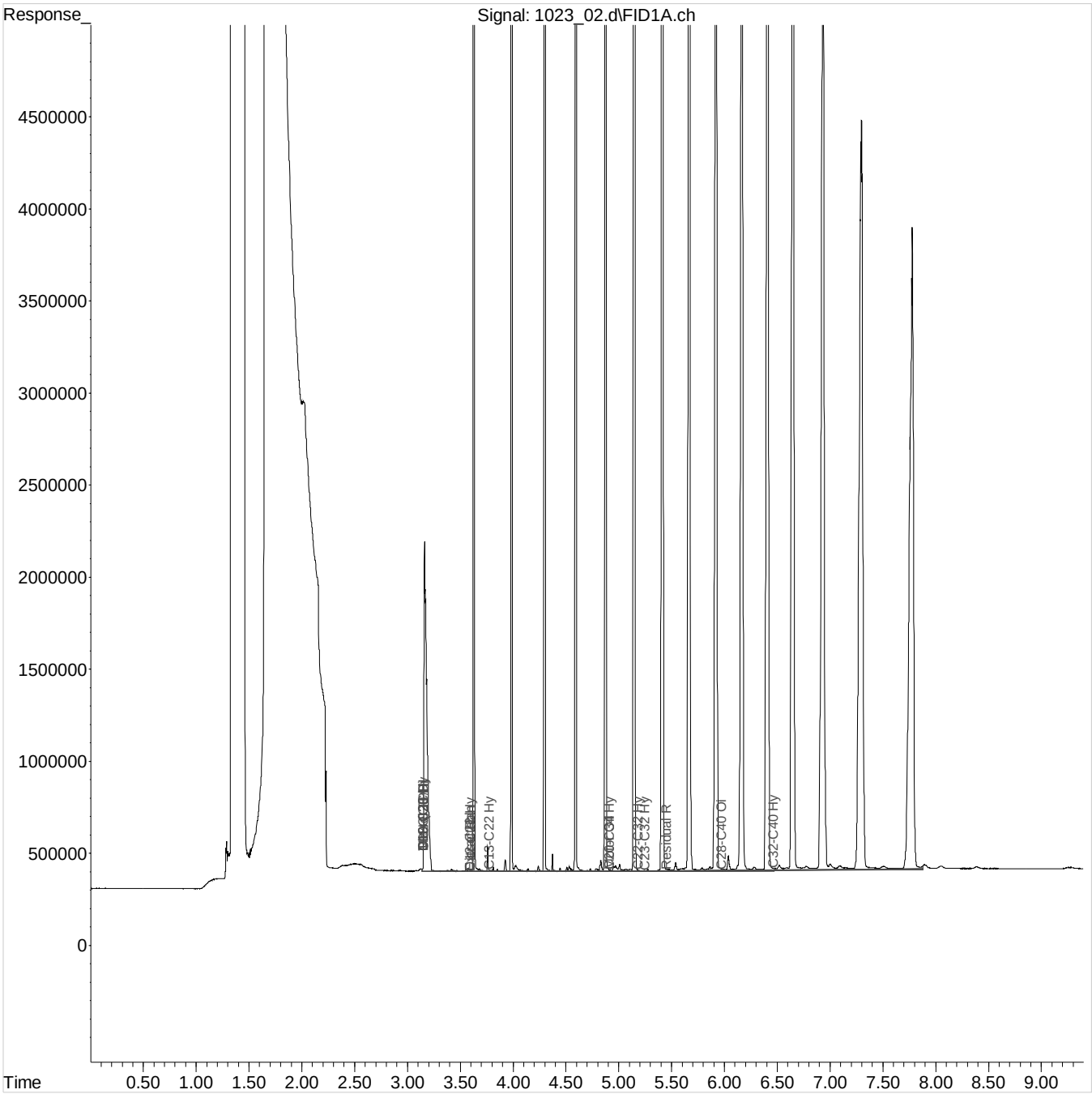
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\102314\
Data File : 1023 02.d
Signal(s) : FID1A.ch
Acq On : 23 Oct 2014 12:13 pm
Operator : 546
Sample : LOC FL 68 PPM 14J08656
Misc :
ALS Vial : 2 Sample Multiplier: 1

Integration File: events.e
Quant Time: Oct 23 12:36:18 2014
Quant Method : C:\msdchem\1\methods\EP31J22N.m
Quant Title :
QLast Update : Wed Oct 22 15:02:20 2014
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :

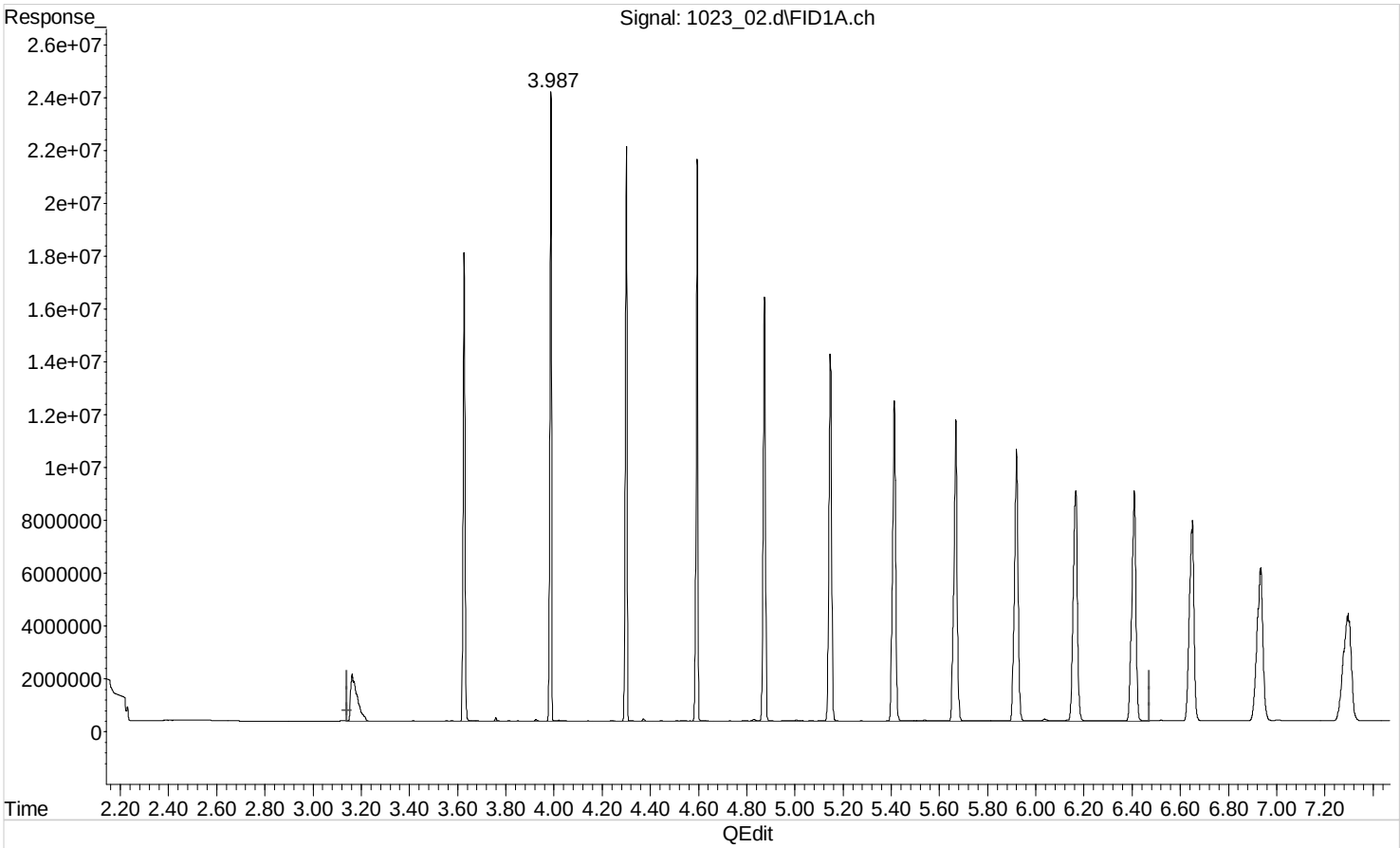


Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\102314\
Data File : 1023 02.d
Signal(s) : FID1A.ch
Acq On : 23 Oct 2014 12:13 pm
Operator : 546
Sample : LOC FL 68 PPM 14J08656
Misc :
ALS Vial : 2 Sample Multiplier: 1

Integration File: events.e
Quant Time: Oct 23 12:36:18 2014
Quant Method : C:\msdchem\1\methods\EP31J22N.m
Quant Title :
QLast Update : Wed Oct 22 15:02:20 2014
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :



(9) TPH (GC/FID) HIGH FRACTION (H,M)

3.140min 51.4445394 ppm m

response 1214929324

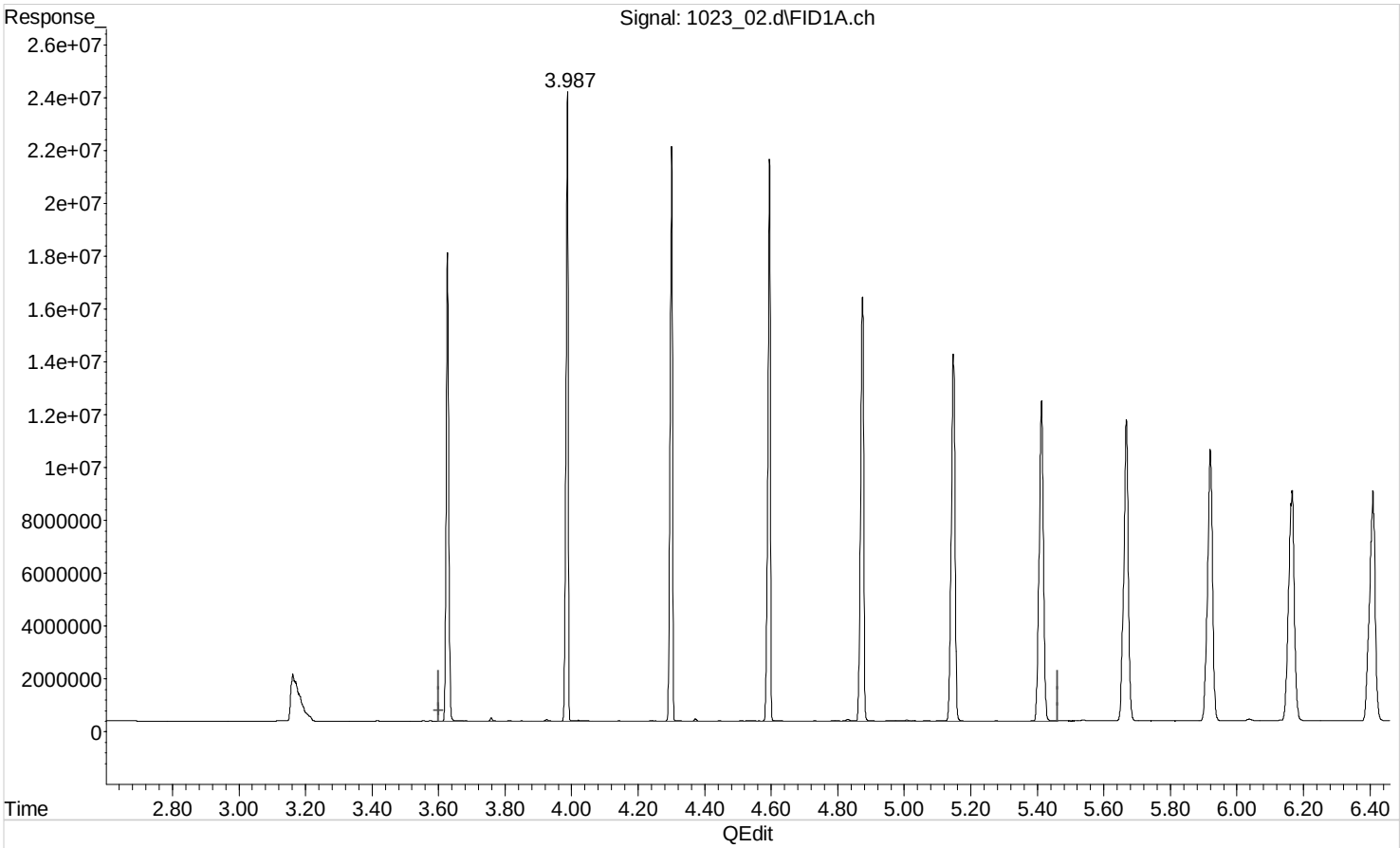
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\102314\
Data File : 1023 02.d
Signal(s) : FID1A.ch
Acq On : 23 Oct 2014 12:13 pm
Operator : 546
Sample : LOC FL 68 PPM 14J08656
Misc :
ALS Vial : 2 Sample Multiplier: 1

Integration File: events.e
Quant Time: Oct 23 12:36:18 2014
Quant Method : C:\msdchem\1\methods\EP31J22N.m
Quant Title :
QLast Update : Wed Oct 22 15:02:20 2014
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :



(14) Diesel Range Organics (h,m)

3.600min 27.1431803 ppm m

response 750248151

(+) = Expected Retention Time

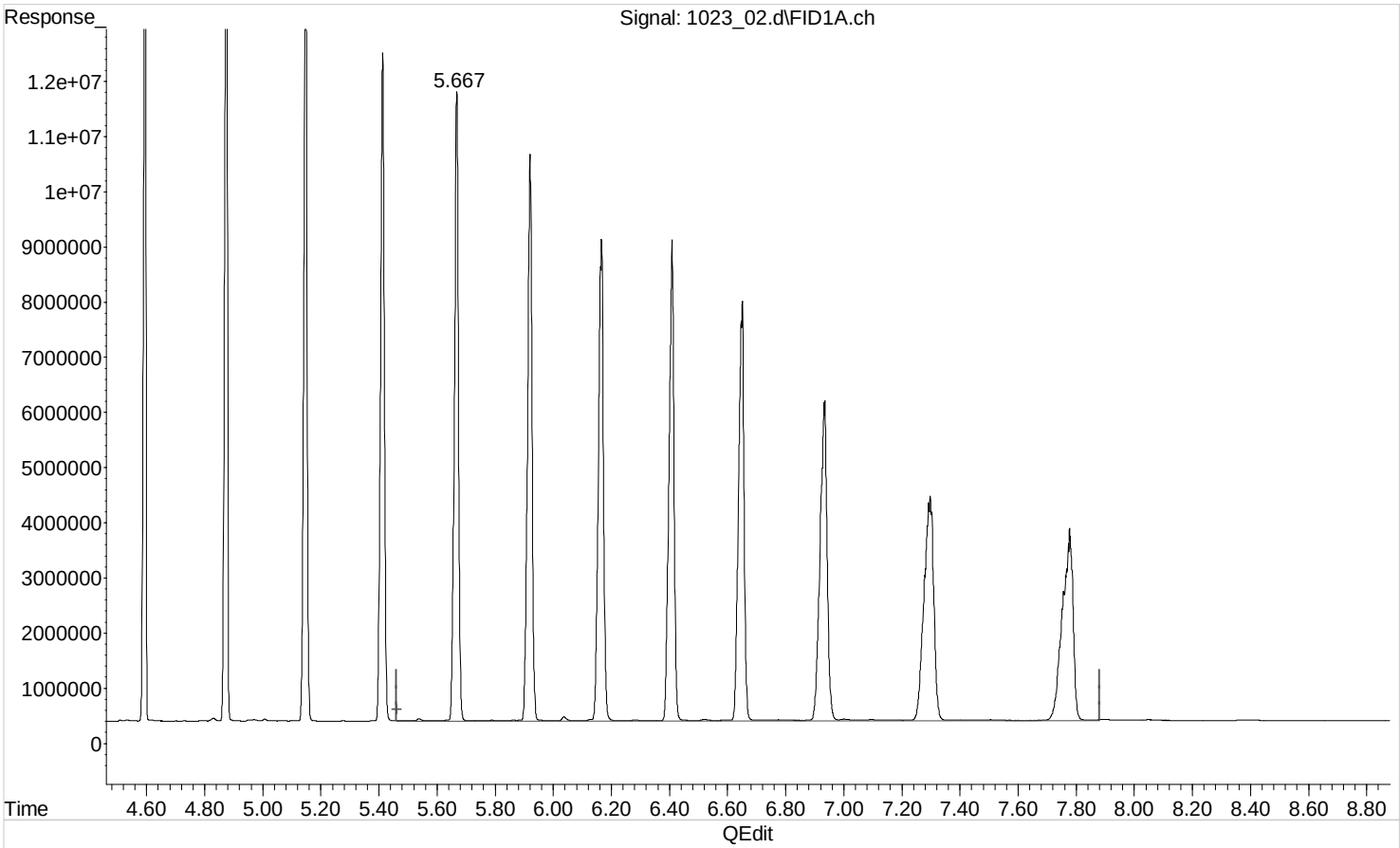
EP31J22N.m Thu Oct 23 12:36:31 2014 Page: 1

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\102314\
Data File : 1023 02.d
Signal(s) : FID1A.ch
Acq On : 23 Oct 2014 12:13 pm
Operator : 546
Sample : LOC FL 68 PPM 14J08656
Misc :
ALS Vial : 2 Sample Multiplier: 1

Integration File: events.e
Quant Time: Oct 23 12:36:18 2014
Quant Method : C:\msdchem\1\methods\EP31J22N.m
Quant Title :
QLast Update : Wed Oct 22 15:02:20 2014
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :



(15) Residual Range Organics (h,m)

5.460min 34.2573305 ppm m

response 814233602

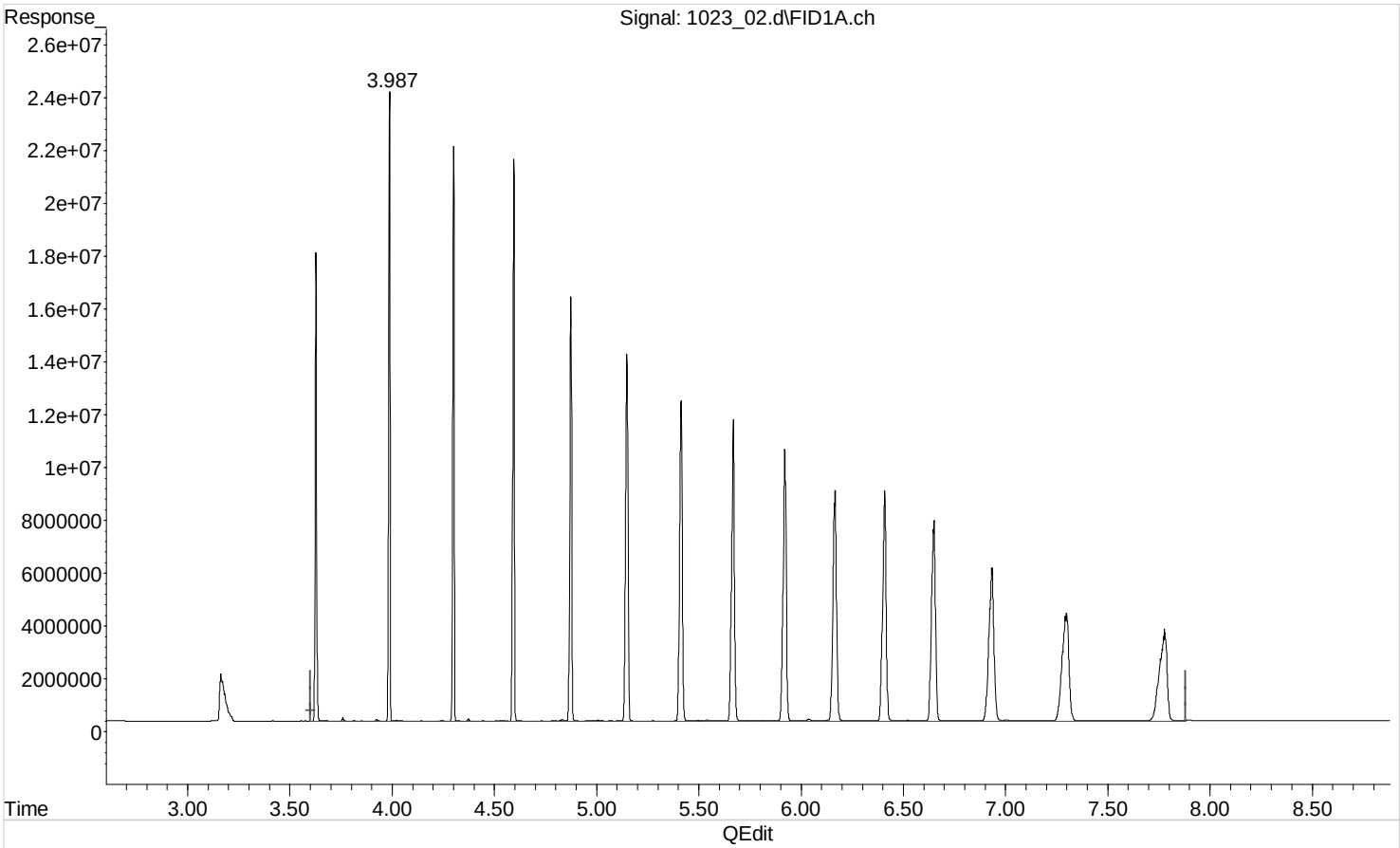
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\102314\
Data File : 1023 02.d
Signal(s) : FID1A.ch
Acq On : 23 Oct 2014 12:13 pm
Operator : 546
Sample : LOC FL 68 PPM 14J08656
Misc :
ALS Vial : 2 Sample Multiplier: 1

Integration File: events.e
Quant Time: Oct 23 12:36:18 2014
Quant Method : C:\msdchem\1\methods\EP31J22N.m
Quant Title :
QLast Update : Wed Oct 22 15:02:20 2014
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :



(4) Extractable Petroleum Hydrocarbon (T,H,M)

3.600min 60.7408544 ppm m

response 1565123347

(+) = Expected Retention Time

EP31J22N.m Thu Oct 23 12:36:37 2014 Page: 1

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\102314\
Data File : 1023 26.d
Signal(s) : FID1A.ch
Acq On : 23 Oct 2014 7:20 pm
Operator : 546
Sample : LOC FL 68 PPM 14J08656
Misc :
ALS Vial : 19 Sample Multiplier: 1

Integration File: events.e
Quant Time: Oct 24 12:10:06 2014
Quant Method : C:\msdchem\1\methods\LA31J23N.m
Quant Title :
QLast Update : Fri Oct 24 12:07:42 2014
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
3) S o-terphenyl	4.87	112733139	3.2258721 ppm
Spiked Amount 0.0200 Range 50 - 150 Recovery = 16129.36%#			
Target Compounds			
1) H,M C10-C28 Diesel Range	3.23	908638361	35.6700182 ppm
2) H,M C28-C40 Oil Range	5.98	640300267	49.1963259 ppm

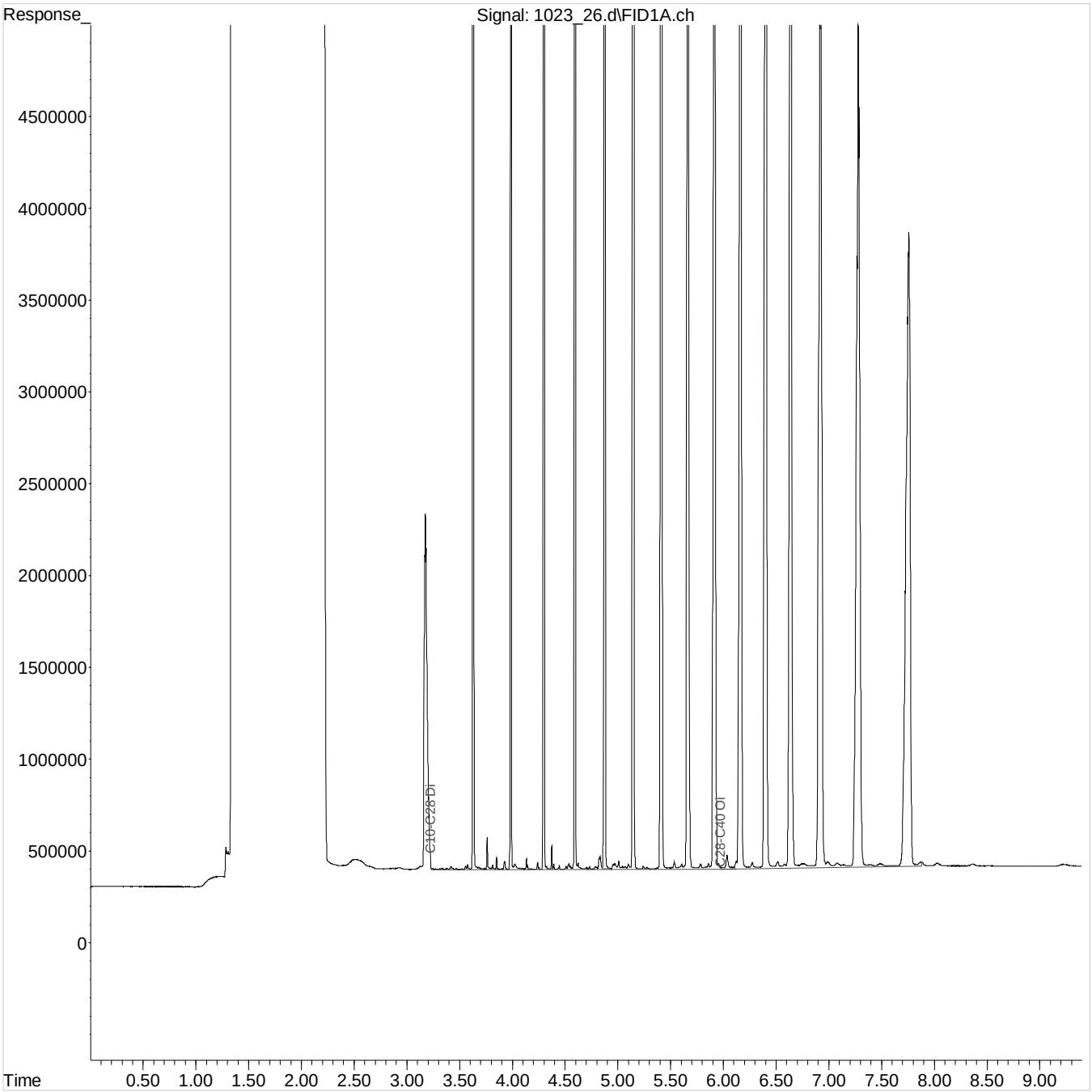
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\102314\
Data File : 1023 26.d
Signal(s) : FID1A.ch
Acq On : 23 Oct 2014 7:20 pm
Operator : 546
Sample : LOC FL 68 PPM 14J08656
Misc :
ALS Vial : 19 Sample Multiplier: 1

Integration File: events.e
Quant Time: Oct 24 12:10:06 2014
Quant Method : C:\msdchem\1\methods\LA31J23N.m
Quant Title :
QLast Update : Fri Oct 24 12:07:42 2014
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :

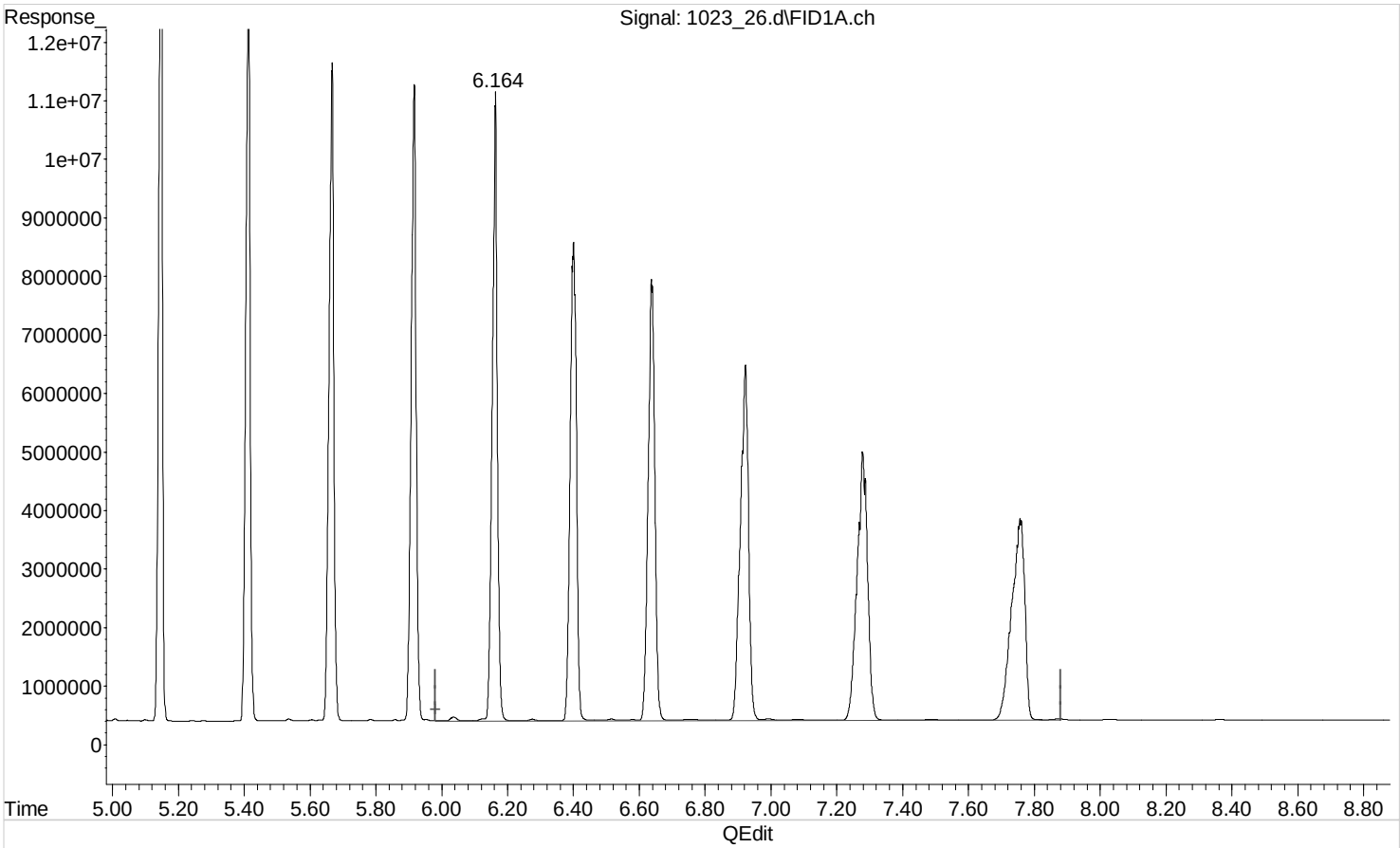


Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\102314\
Data File : 1023 26.d
Signal(s) : FID1A.ch
Acq On : 23 Oct 2014 7:20 pm
Operator : 546
Sample : LOC FL 68 PPM 14J08656
Misc :
ALS Vial : 19 Sample Multiplier: 1

Integration File: events.e
Quant Time: Oct 24 12:10:06 2014
Quant Method : C:\msdchem\1\methods\LA31J23N.m
Quant Title :
QLast Update : Fri Oct 24 12:07:42 2014
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :



(2) C28-C40 Oil Range (H,M)

5.980min 49.1963259 ppm m

response 640300267

(+) = Expected Retention Time

LA31J23N.m Fri Oct 24 12:10:12 2014 Page: 1

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\102914\
Data File : 1029 02.d
Signal(s) : FID1A.ch
Acq On : 29 Oct 2014 10:22 am
Operator : 546
Sample : LOC FL 68 PPM 14J20224
Misc :
ALS Vial : 2 Sample Multiplier: 1

Integration File: events.e
Quant Time: Oct 29 10:47:46 2014
Quant Method : C:\msdchem\1\methods\LA31J29N.m
Quant Title :
QLast Update : Wed Oct 29 10:46:56 2014
Response via : Initial Calibration
Integrator: ChemStation

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	3.13	1008725731	39.6774827	ppm
2) H,M C28-C40 Oil Range	5.98	607100444	46.5271024	ppm

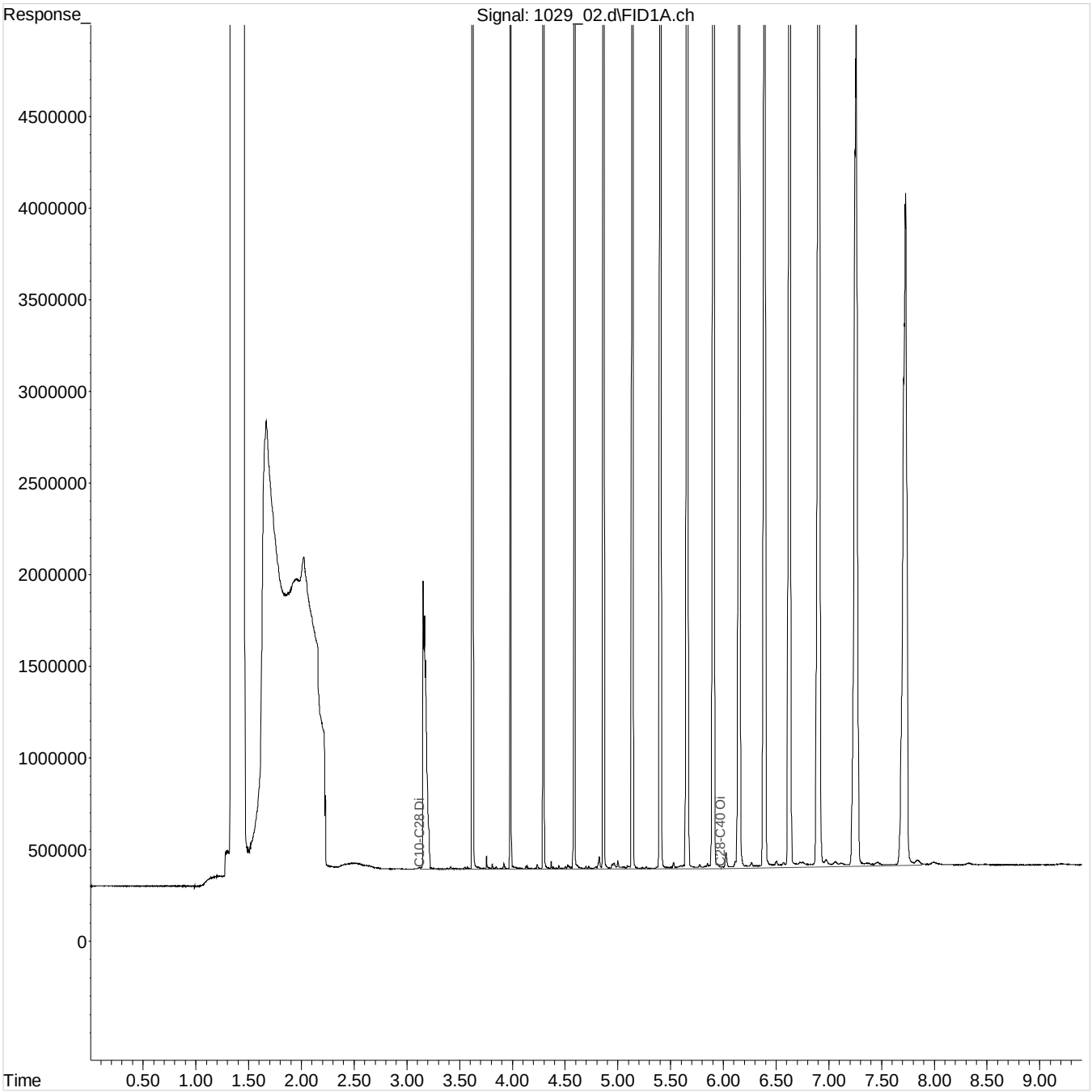
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\102914\
Data File : 1029 02.d
Signal(s) : FID1A.ch
Acq On : 29 Oct 2014 10:22 am
Operator : 546
Sample : LOC FL 68 PPM 14J20224
Misc :
ALS Vial : 2 Sample Multiplier: 1

Integration File: events.e
Quant Time: Oct 29 10:47:46 2014
Quant Method : C:\msdchem\1\methods\LA31J29N.m
Quant Title :
QLast Update : Wed Oct 29 10:46:56 2014
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :

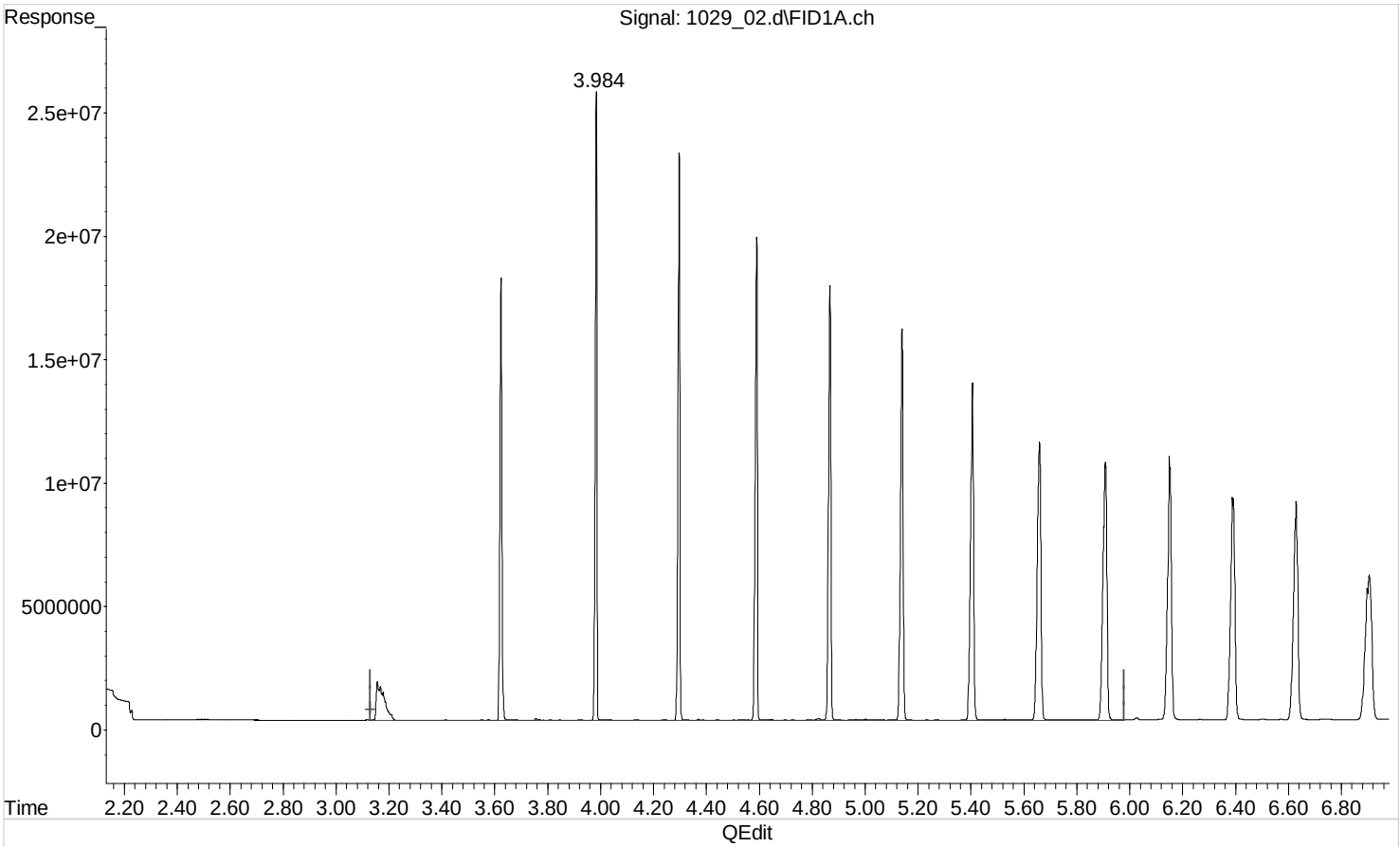


Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\102914\
Data File : 1029 02.d
Signal(s) : FID1A.ch
Acq On : 29 Oct 2014 10:22 am
Operator : 546
Sample : LOC FL 68 PPM 14J20224
Misc :
ALS Vial : 2 Sample Multiplier: 1

Integration File: events.e
Quant Time: Oct 29 10:47:46 2014
Quant Method : C:\msdchem\1\methods\LA31J29N.m
Quant Title :
QLast Update : Wed Oct 29 10:46:56 2014
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :



(1) C10-C28 Diesel Range (H,M)

3.130min 39.6774827 ppm m

response 1008725731

(+) = Expected Retention Time

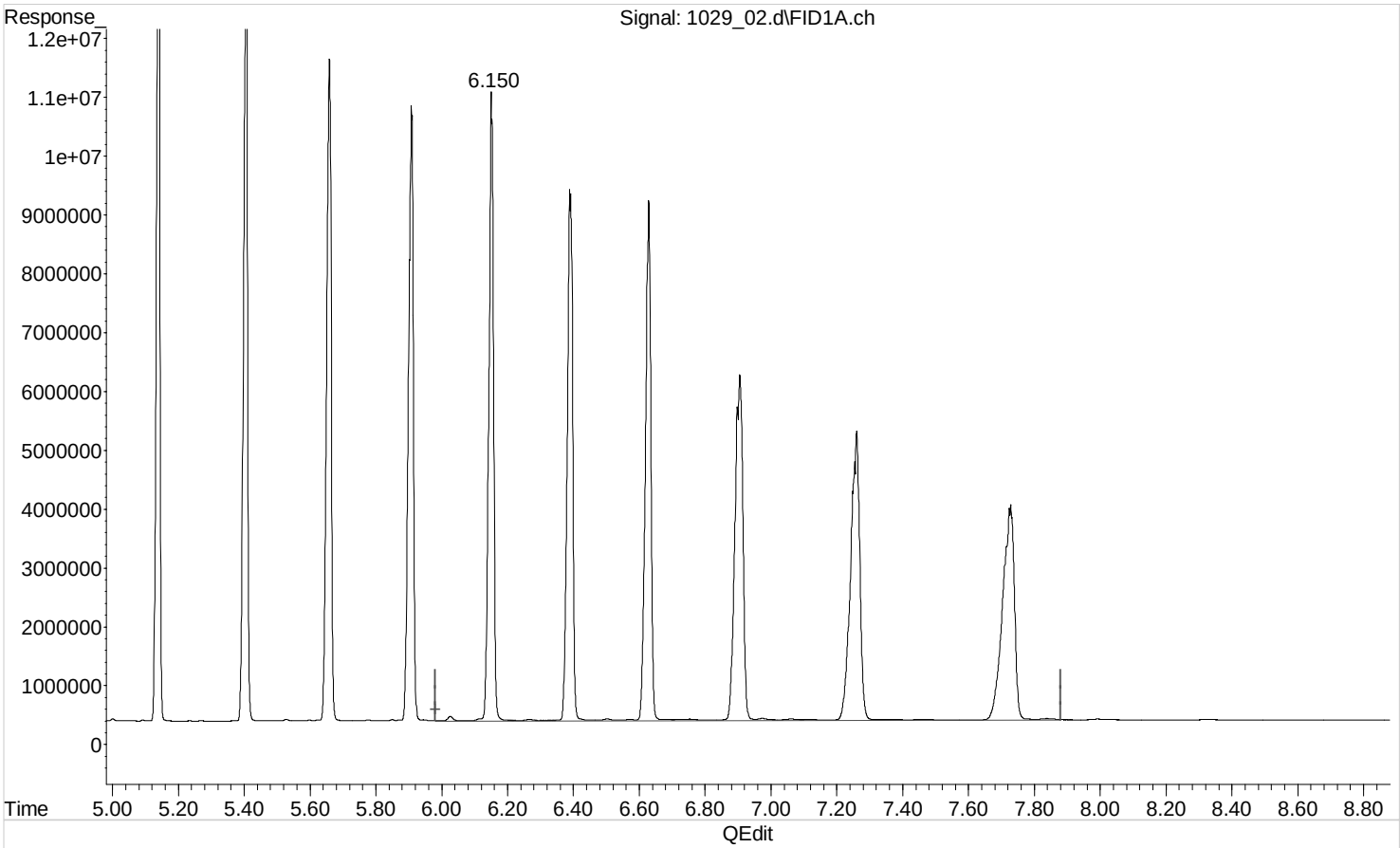
LA31J29N.m Wed Oct 29 10:47:51 2014 Page: 1

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\102914\
Data File : 1029 02.d
Signal(s) : FID1A.ch
Acq On : 29 Oct 2014 10:22 am
Operator : 546
Sample : LOC FL 68 PPM 14J20224
Misc :
ALS Vial : 2 Sample Multiplier: 1

Integration File: events.e
Quant Time: Oct 29 10:47:46 2014
Quant Method : C:\msdchem\1\methods\LA31J29N.m
Quant Title :
QLast Update : Wed Oct 29 10:46:56 2014
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :



(2) C28-C40 Oil Range (H,M)

5.980min 46.5271024 ppm m

response 607100444

(+) = Expected Retention Time

LA31J29N.m Wed Oct 29 10:47:54 2014 Page: 1

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\102314\
Data File : 0513A 12.d
Signal(s) : FID1A.ch
Acq On : 13 May 2014 1:07 pm
Operator :
Sample : SSCV DRO 60 PPM 14D09596
Misc :
ALS Vial : 11 Sample Multiplier: 1

Integration File: events.e
Quant Time: Oct 24 12:10:58 2014
Quant Method : C:\msdchem\1\methods\LA31J23N.m
Quant Title :
QLast Update : Fri Oct 24 12:07:42 2014
Response via : Initial Calibration
Integrator: ChemStation

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	3.23	1445215115	57.1543700	ppm
2) H,M C28-C40 Oil Range	0.00	0	N.D.	ppm

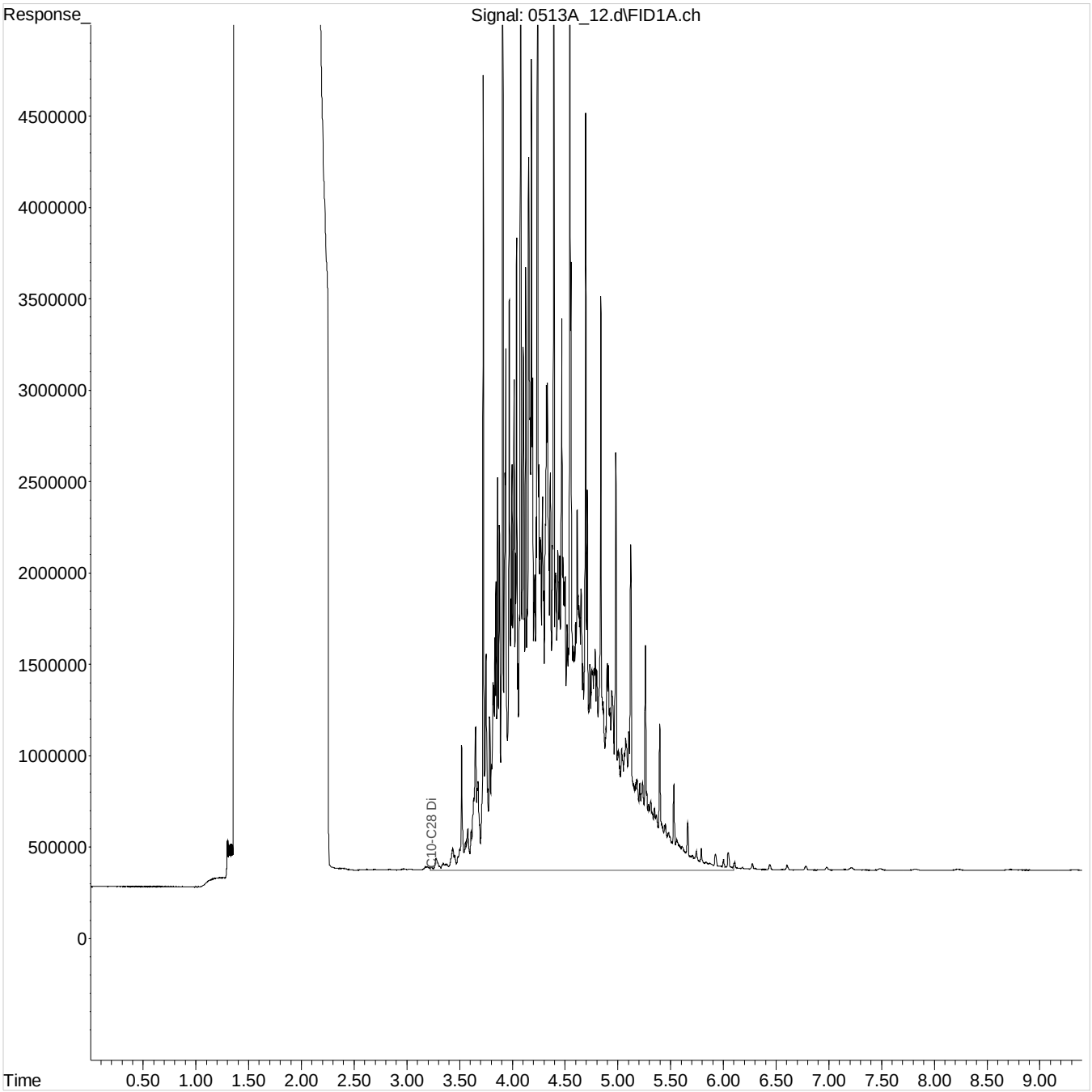
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\102314\
Data File : 0513A 12.d
Signal(s) : FID1A.ch
Acq On : 13 May 2014 1:07 pm
Operator :
Sample : SSCV DRO 60 PPM 14D09596
Misc :
ALS Vial : 11 Sample Multiplier: 1

Integration File: events.e
Quant Time: Oct 24 12:10:58 2014
Quant Method : C:\msdchem\1\methods\LA31J23N.m
Quant Title :
QLast Update : Fri Oct 24 12:07:42 2014
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\102314\
Data File : 1023 35.d
Signal(s) : FID1A.ch
Acq On : 23 Oct 2014 10:01 pm
Operator : 546
Sample : SSCV 10W30 30 PPM 14J23434
Misc :
ALS Vial : 28 Sample Multiplier: 1

Integration File: events.e
Quant Time: Oct 24 12:09:30 2014
Quant Method : C:\msdchem\1\methods\LA31J23N.m
Quant Title :
QLast Update : Fri Oct 24 12:07:42 2014
Response via : Initial Calibration
Integrator: ChemStation

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	5.98	353039997	26.1009657	ppm

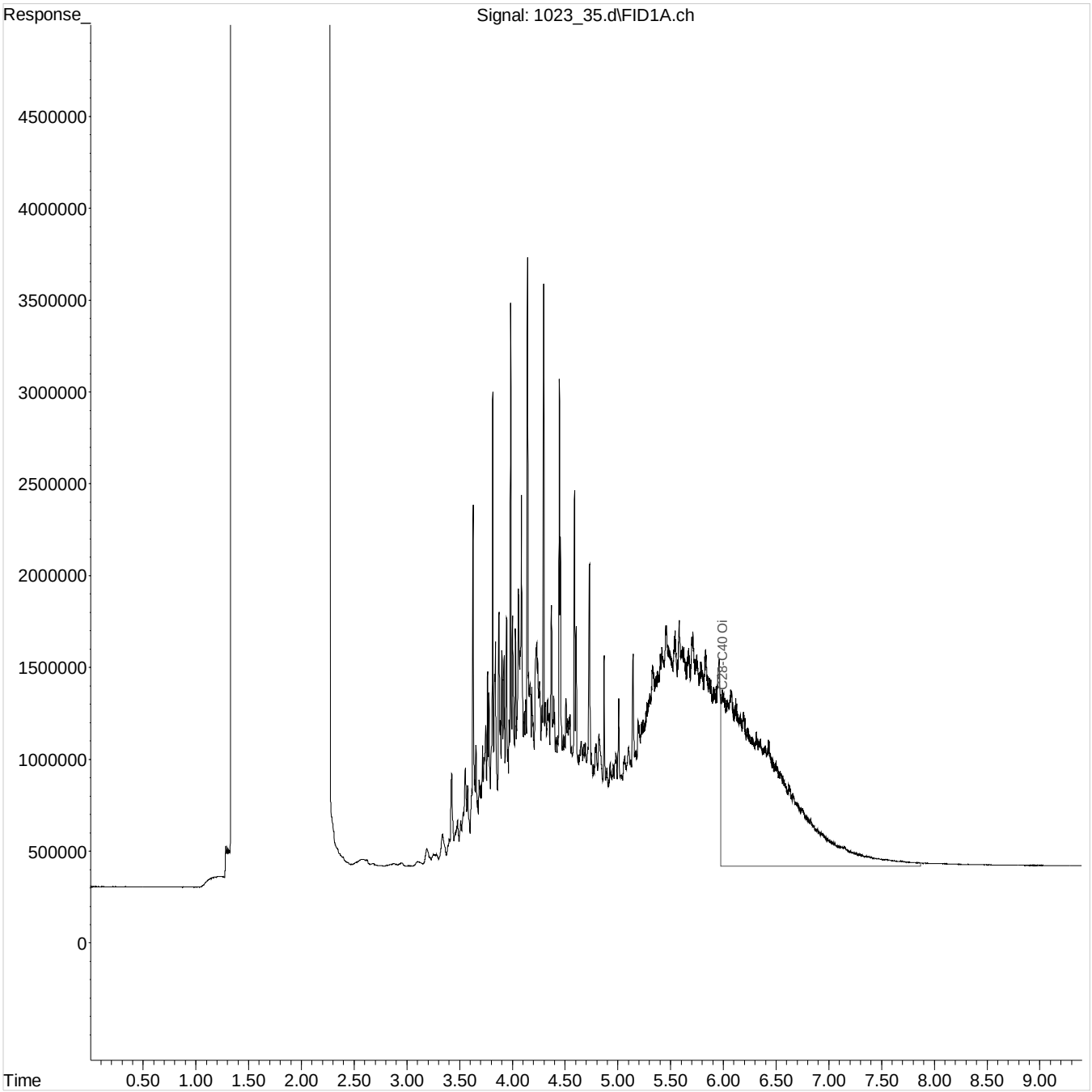
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\102314\
Data File : 1023 35.d
Signal(s) : FID1A.ch
Acq On : 23 Oct 2014 10:01 pm
Operator : 546
Sample : SSCV 10W30 30 PPM 14J23434
Misc :
ALS Vial : 28 Sample Multiplier: 1

Integration File: events.e
Quant Time: Oct 24 12:09:30 2014
Quant Method : C:\msdchem\1\methods\LA31J23N.m
Quant Title :
QLast Update : Fri Oct 24 12:07:42 2014
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\102314\
Data File : 0513A 03.d
Signal(s) : FID1A.ch
Acq On : 13 May 2014 10:09 am
Operator :
Sample : STD DRO 2 PPM 14D09595
Misc :
ALS Vial : 3 Sample Multiplier: 1

Integration File: events.e
Quant Time: Oct 24 11:52:42 2014
Quant Method : C:\msdchem\1\methods\LA31J23N.m
Quant Title :
QLast Update : Fri Oct 24 11:51:33 2014
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :

Compound	R.T.	Response	Conc	Units
System Monitoring Compounds				
3) S o-terphenyl	4.87	3713006	NoCal	ppm m
Spiked Amount 0.0200 Range 50 - 150		Recovery =	0.00%#	
Target Compounds				
1) H,M C10-C28 Diesel Range	3.23	64754263	NoCal	ppm
2) H,M C28-C40 Oil Range	0.00	0	N.D.	ppm

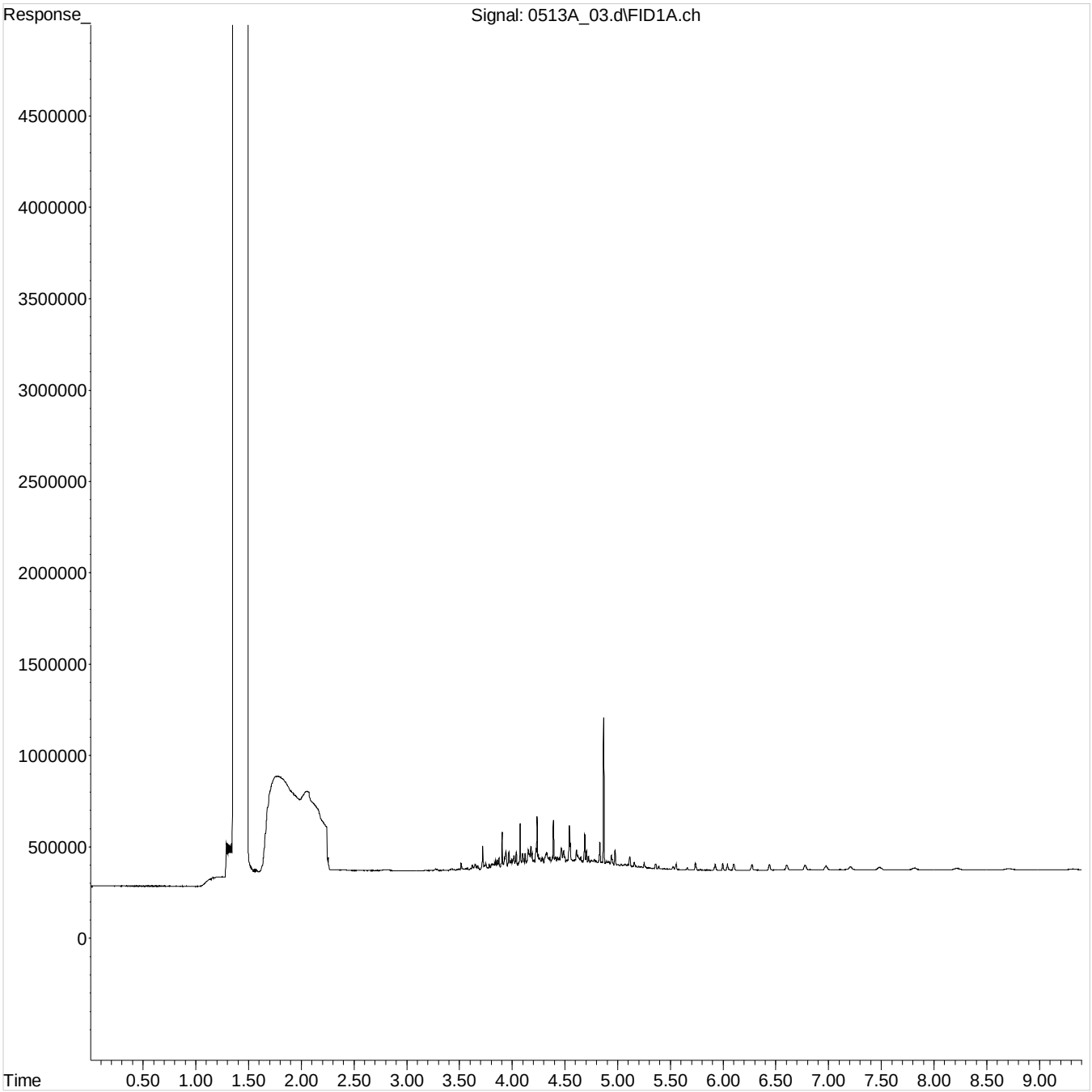
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\102314\
Data File : 0513A 03.d
Signal(s) : FID1A.ch
Acq On : 13 May 2014 10:09 am
Operator :
Sample : STD DRO 2 PPM 14D09595
Misc :
ALS Vial : 3 Sample Multiplier: 1

Integration File: events.e
Quant Time: Oct 24 11:52:42 2014
Quant Method : C:\msdchem\1\methods\LA31J23N.m
Quant Title :
QLast Update : Fri Oct 24 11:51:33 2014
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\102314\
Data File : 0513A 04.d
Signal(s) : FID1A.ch
Acq On : 13 May 2014 10:29 am
Operator :
Sample : STD DRO 4 PPM 14D09595
Misc :
ALS Vial : 4 Sample Multiplier: 1

Integration File: events.e
Quant Time: Oct 24 11:53:35 2014
Quant Method : C:\msdchem\1\methods\LA31J23N.m
Quant Title :
QLast Update : Fri Oct 24 11:52:57 2014
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :

Compound	R.T.	Response	Conc	Units	
System Monitoring Compounds					
3) S o-terphenyl	4.87	7134692	0.1921541	ppm	m
Spiked Amount 0.0200	Range 50 - 150	Recovery	= 960.77%#		
Target Compounds					
1) H,M C10-C28 Diesel Range	3.23	115374521	3.5634571	ppm	
2) H,M C28-C40 Oil Range	0.00	0	N.D.	ppm	

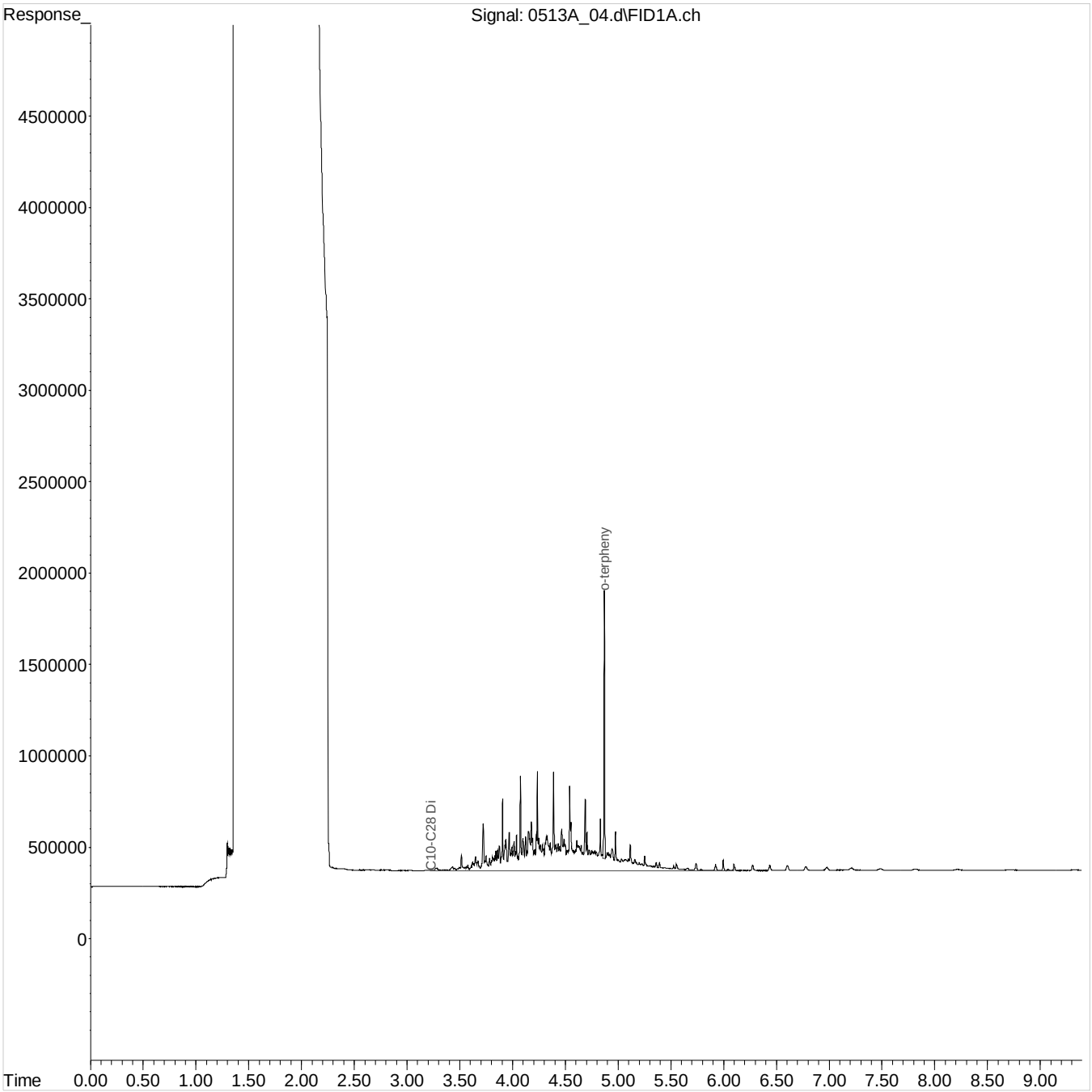
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\102314\
Data File : 0513A 04.d
Signal(s) : FID1A.ch
Acq On : 13 May 2014 10:29 am
Operator :
Sample : STD DRO 4 PPM 14D09595
Misc :
ALS Vial : 4 Sample Multiplier: 1

Integration File: events.e
Quant Time: Oct 24 11:53:35 2014
Quant Method : C:\msdchem\1\methods\LA31J23N.m
Quant Title :
QLast Update : Fri Oct 24 11:52:57 2014
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\102314\
Data File : 0513A 05.d
Signal(s) : FID1A.ch
Acq On : 13 May 2014 10:49 am
Operator :
Sample : STD DRO 10 PPM 14D09595
Misc :
ALS Vial : 5 Sample Multiplier: 1

Integration File: events.e
Quant Time: Oct 24 11:54:16 2014
Quant Method : C:\msdchem\1\methods\LA31J23N.m
Quant Title :
QLast Update : Fri Oct 24 11:53:42 2014
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
3) S o-terphenyl	4.87	13786187	0.3787231 ppm m
Spiked Amount 0.0200 Range 50 - 150		Recovery	= 1893.62%#
Target Compounds			
1) H,M C10-C28 Diesel Range	3.23	272542640	8.9036017 ppm
2) H,M C28-C40 Oil Range	0.00	0	N.D. ppm

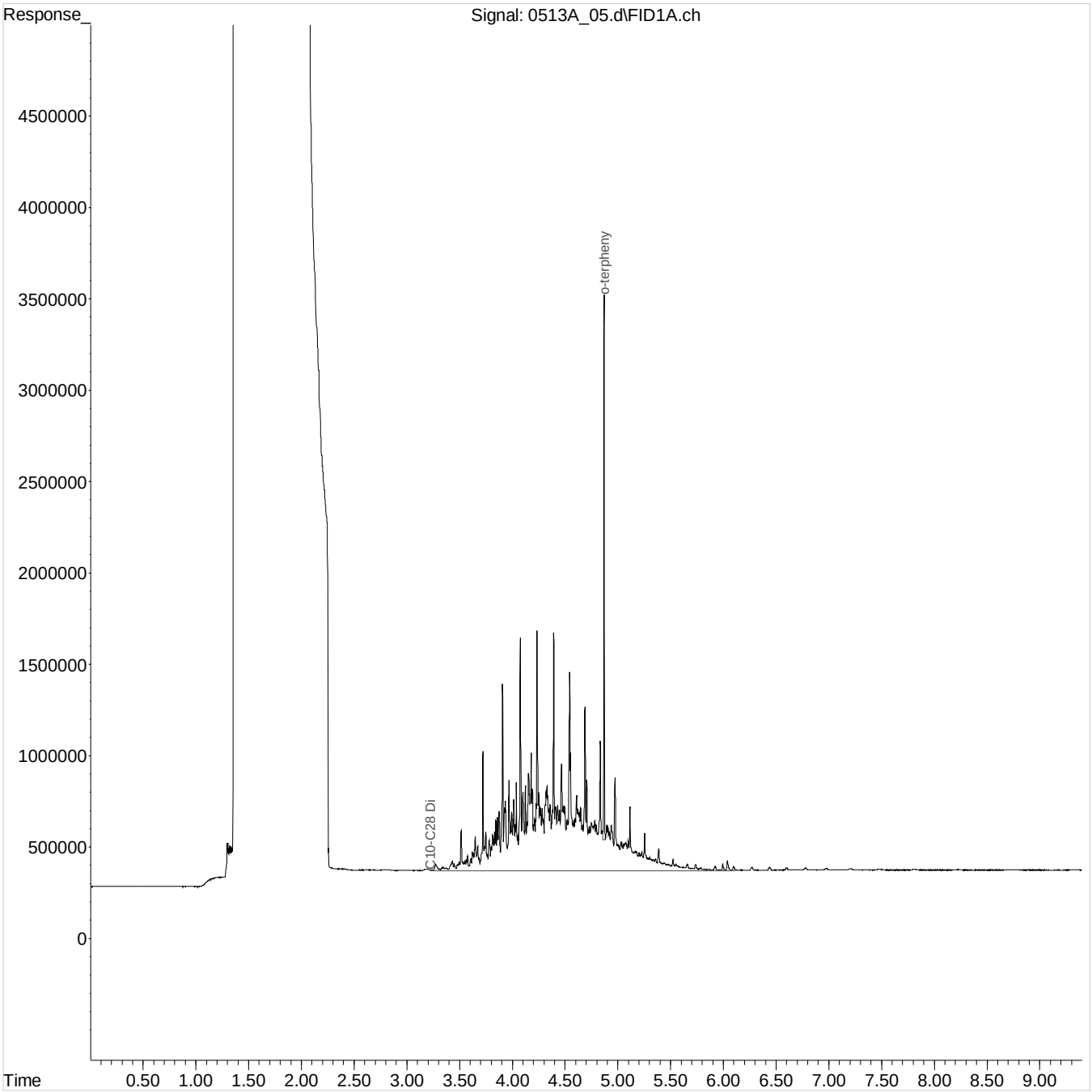
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\102314\
Data File : 0513A 05.d
Signal(s) : FID1A.ch
Acq On : 13 May 2014 10:49 am
Operator :
Sample : STD DRO 10 PPM 14D09595
Misc :
ALS Vial : 5 Sample Multiplier: 1

Integration File: events.e
Quant Time: Oct 24 11:54:16 2014
Quant Method : C:\msdchem\1\methods\LA31J23N.m
Quant Title :
QLast Update : Fri Oct 24 11:53:42 2014
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\102314\
Data File : 0513A 06.d
Signal(s) : FID1A.ch
Acq On : 13 May 2014 11:09 am
Operator :
Sample : STD DRO 20 PPM 14D09595
Misc :
ALS Vial : 6 Sample Multiplier: 1

Integration File: events.e
Quant Time: Oct 24 11:54:50 2014
Quant Method : C:\msdchem\1\methods\LA31J23N.m
Quant Title :
QLast Update : Fri Oct 24 11:54:23 2014
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :

Compound	R.T.	Response	Conc	Units	
System Monitoring Compounds					
3) S o-terphenyl	4.87	16821336	0.4704436	ppm	m
Spiked Amount 0.0200 Range 50 - 150 Recovery = 2352.22%#					
Target Compounds					
1) H,M C10-C28 Diesel Range	3.23	543843175	18.4405656	ppm	
2) H,M C28-C40 Oil Range	0.00	0	N.D.	ppm	

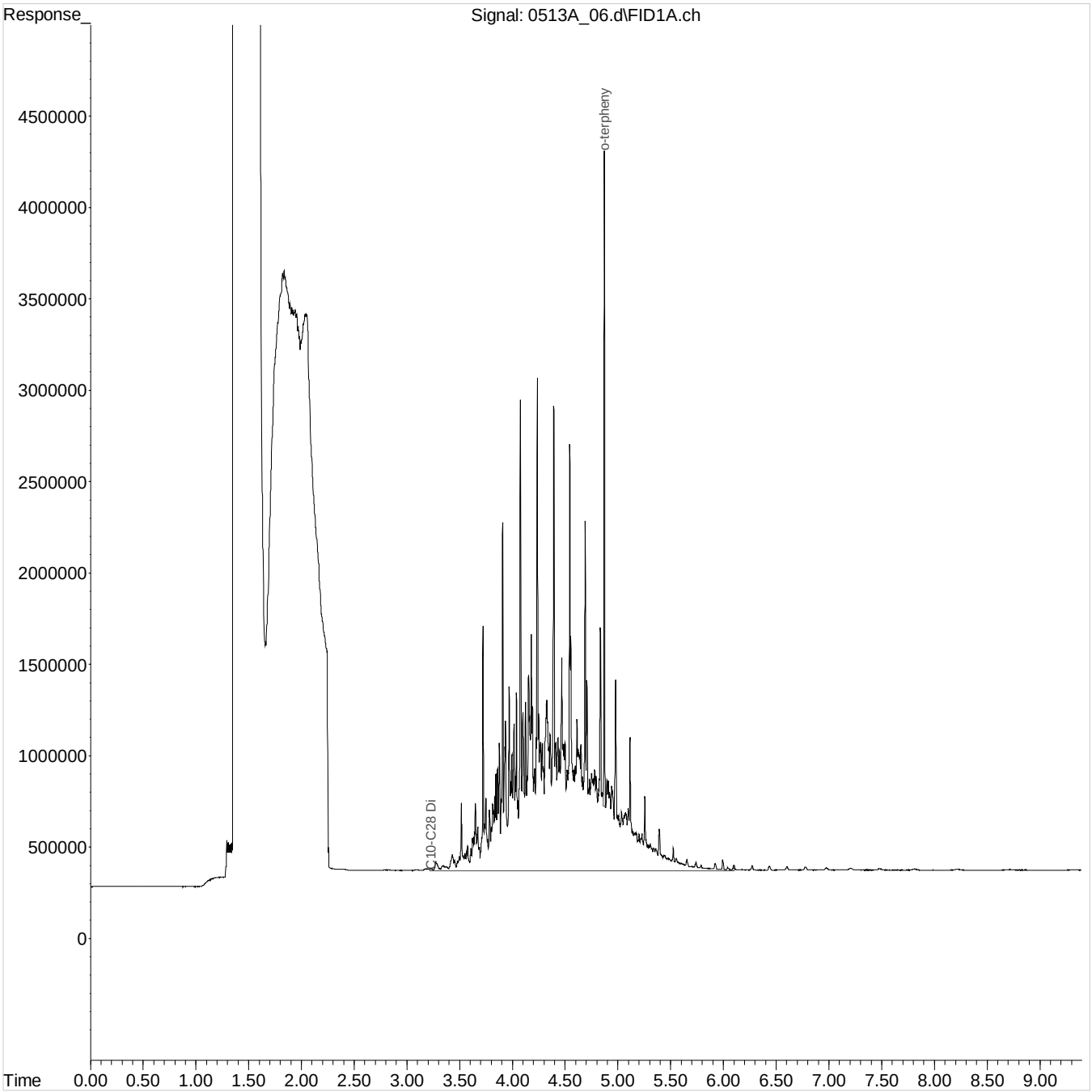
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\102314\
Data File : 0513A 06.d
Signal(s) : FID1A.ch
Acq On : 13 May 2014 11:09 am
Operator :
Sample : STD DRO 20 PPM 14D09595
Misc :
ALS Vial : 6 Sample Multiplier: 1

Integration File: events.e
Quant Time: Oct 24 11:54:50 2014
Quant Method : C:\msdchem\1\methods\LA31J23N.m
Quant Title :
QLast Update : Fri Oct 24 11:54:23 2014
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\102314\
Data File : 0513A 08.d
Signal(s) : FID1A.ch
Acq On : 13 May 2014 11:49 am
Operator :
Sample : STD DRO 60 PPM 14D09595
Misc :
ALS Vial : 8 Sample Multiplier: 1

Integration File: events.e
Quant Time: Oct 24 11:55:51 2014
Quant Method : C:\msdchem\1\methods\LA31J23N.m
Quant Title :
QLast Update : Fri Oct 24 11:54:57 2014
Response via : Initial Calibration
Integrator: ChemStation

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	3.23	1515189206	52.3982393	ppm
2) H,M C28-C40 Oil Range	0.00	0	N.D.	ppm

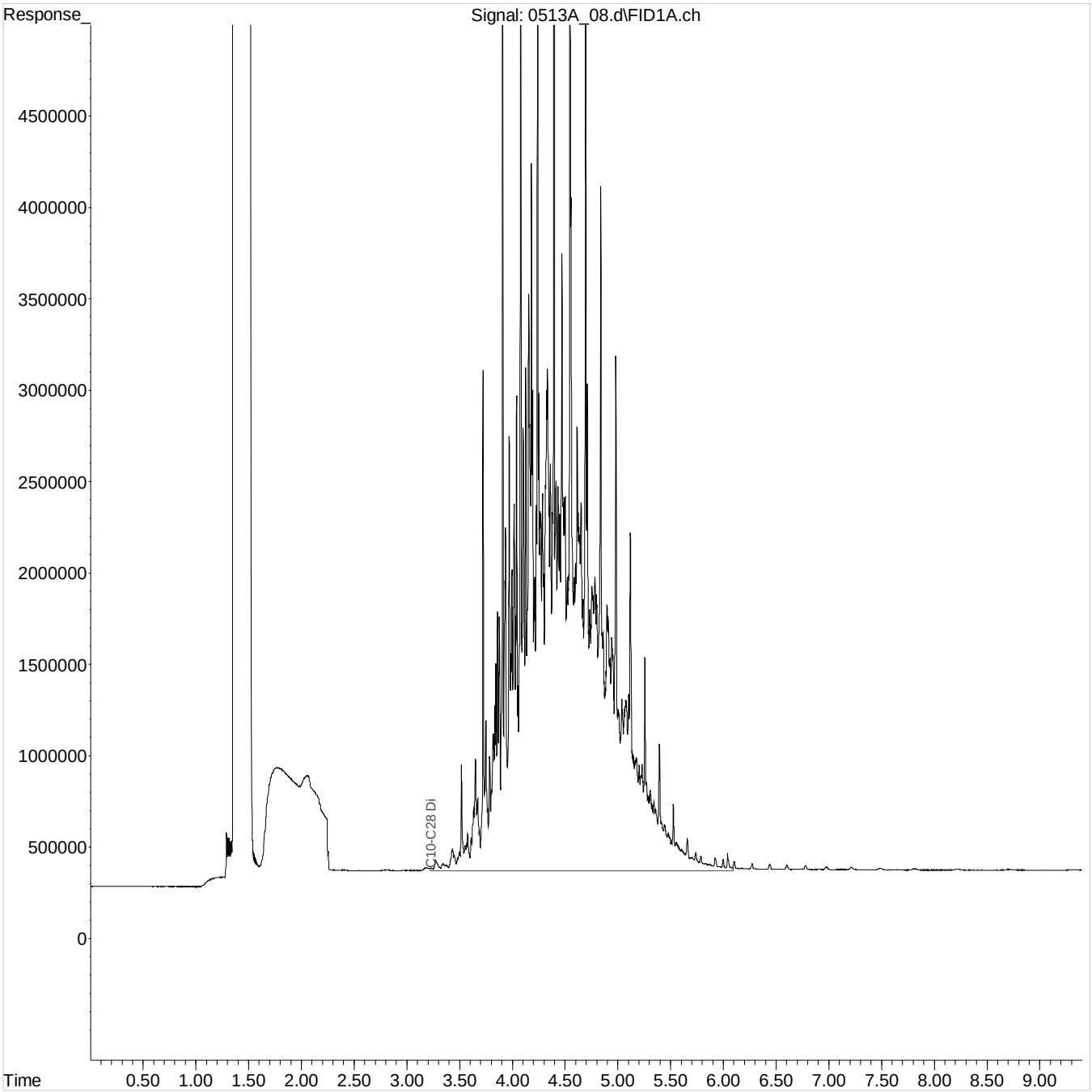
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\102314\
Data File : 0513A 08.d
Signal(s) : FID1A.ch
Acq On : 13 May 2014 11:49 am
Operator :
Sample : STD DRO 60 PPM 14D09595
Misc :
ALS Vial : 8 Sample Multiplier: 1

Integration File: events.e
Quant Time: Oct 24 11:55:51 2014
Quant Method : C:\msdchem\1\methods\LA31J23N.m
Quant Title :
QLast Update : Fri Oct 24 11:54:57 2014
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\102314\
Data File : 0513A 09.d
Signal(s) : FID1A.ch
Acq On : 13 May 2014 12:09 pm
Operator :
Sample : STD DRO 40 PPM 14D09595
Misc :
ALS Vial : 7 Sample Multiplier: 1

Integration File: events.e
Quant Time: Oct 24 11:56:37 2014
Quant Method : C:\msdchem\1\methods\LA31J23N.m
Quant Title :
QLast Update : Fri Oct 24 11:55:56 2014
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :

Compound	R.T.	Response	Conc	Units	
System Monitoring Compounds					
3) S o-terphenyl	4.87	27056918	0.7680533	ppm	m
Spiked Amount 0.0200 Range 50 - 150 Recovery = 3840.27%#					
Target Compounds					
1) H,M C10-C28 Diesel Range	3.23	1033316588	36.6631461	ppm	
2) H,M C28-C40 Oil Range	0.00	0	N.D.	ppm	

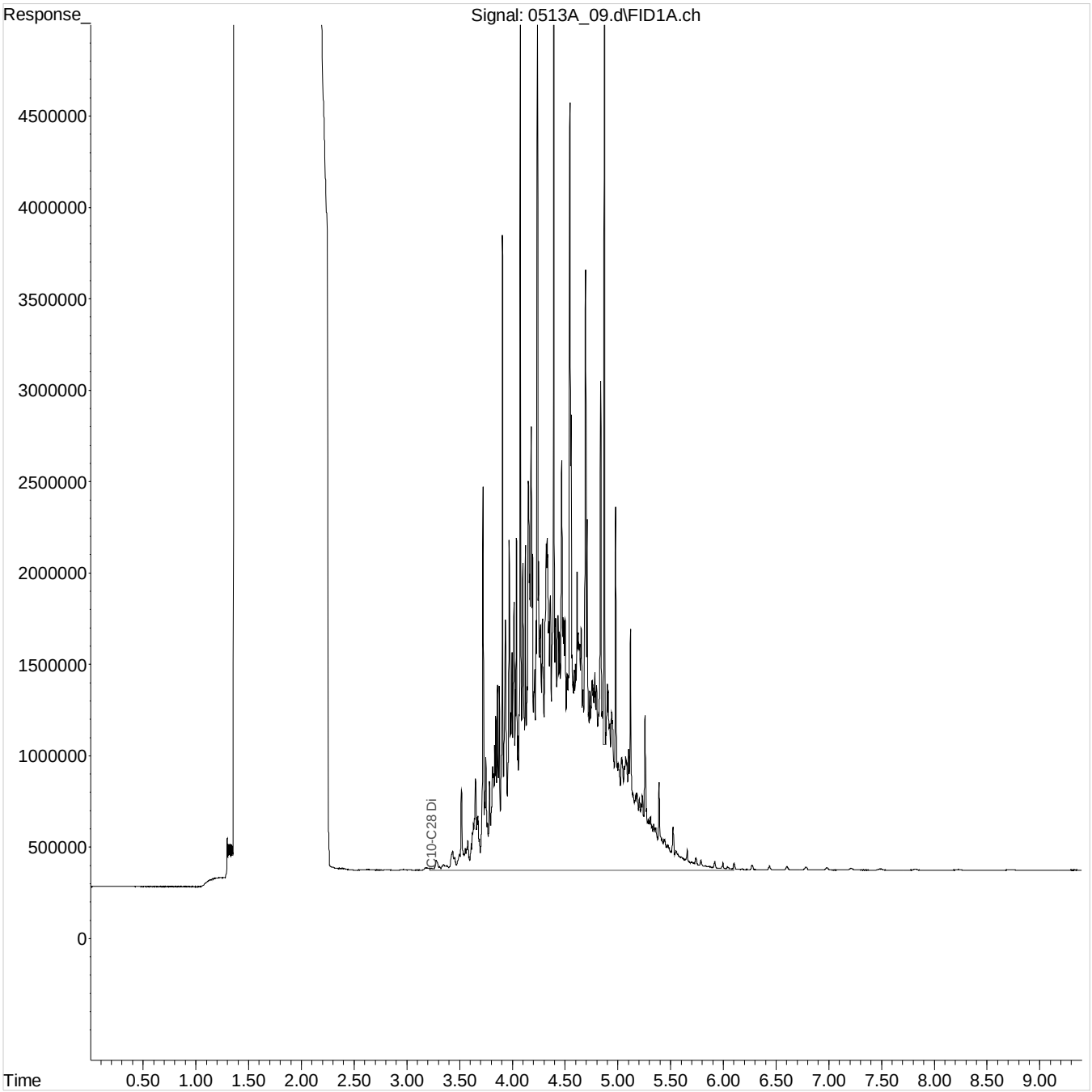
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\102314\
Data File : 0513A 09.d
Signal(s) : FID1A.ch
Acq On : 13 May 2014 12:09 pm
Operator :
Sample : STD DRO 40 PPM 14D09595
Misc :
ALS Vial : 7 Sample Multiplier: 1

Integration File: events.e
Quant Time: Oct 24 11:56:37 2014
Quant Method : C:\msdchem\1\methods\LA31J23N.m
Quant Title :
QLast Update : Fri Oct 24 11:55:56 2014
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\102314\
Data File : 0513A 10.d
Signal(s) : FID1A.ch
Acq On : 13 May 2014 12:28 pm
Operator :
Sample : STD DRO 100 PPM 14D09595
Misc :
ALS Vial : 9 Sample Multiplier: 1

Integration File: events.e
Quant Time: Oct 24 11:57:20 2014
Quant Method : C:\msdchem\1\methods\LA31J23N.m
Quant Title :
QLast Update : Fri Oct 24 11:56:43 2014
Response via : Initial Calibration
Integrator: ChemStation

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	3.23	2523605106	90.8026103	ppm
2) H,M C28-C40 Oil Range	0.00	0	N.D.	ppm

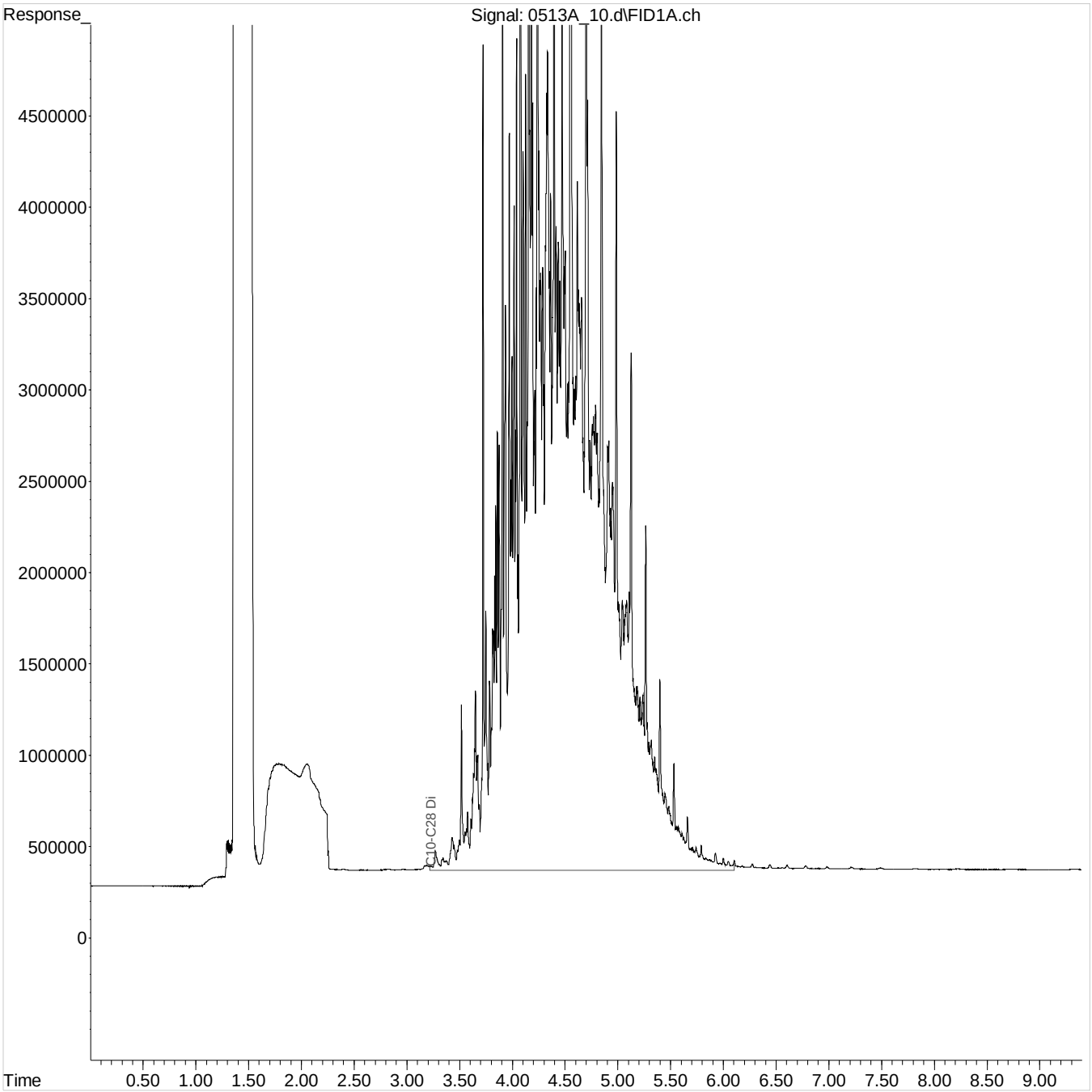
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\102314\
Data File : 0513A 10.d
Signal(s) : FID1A.ch
Acq On : 13 May 2014 12:28 pm
Operator :
Sample : STD DRO 100 PPM 14D09595
Misc :
ALS Vial : 9 Sample Multiplier: 1

Integration File: events.e
Quant Time: Oct 24 11:57:20 2014
Quant Method : C:\msdchem\1\methods\LA31J23N.m
Quant Title :
QLast Update : Fri Oct 24 11:56:43 2014
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\102314\
Data File : 0513A 11.d
Signal(s) : FID1A.ch
Acq On : 13 May 2014 12:47 pm
Operator :
Sample : STD DRO 200 PPM 14D09595
Misc :
ALS Vial : 10 Sample Multiplier: 1

Integration File: events.e
Quant Time: Oct 24 11:57:52 2014
Quant Method : C:\msdchem\1\methods\LA31J23N.m
Quant Title :
QLast Update : Fri Oct 24 11:57:27 2014
Response via : Initial Calibration
Integrator: ChemStation

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	3.23	4962747292	180.9435752	ppm
2) H,M C28-C40 Oil Range	0.00	0	N.D.	ppm

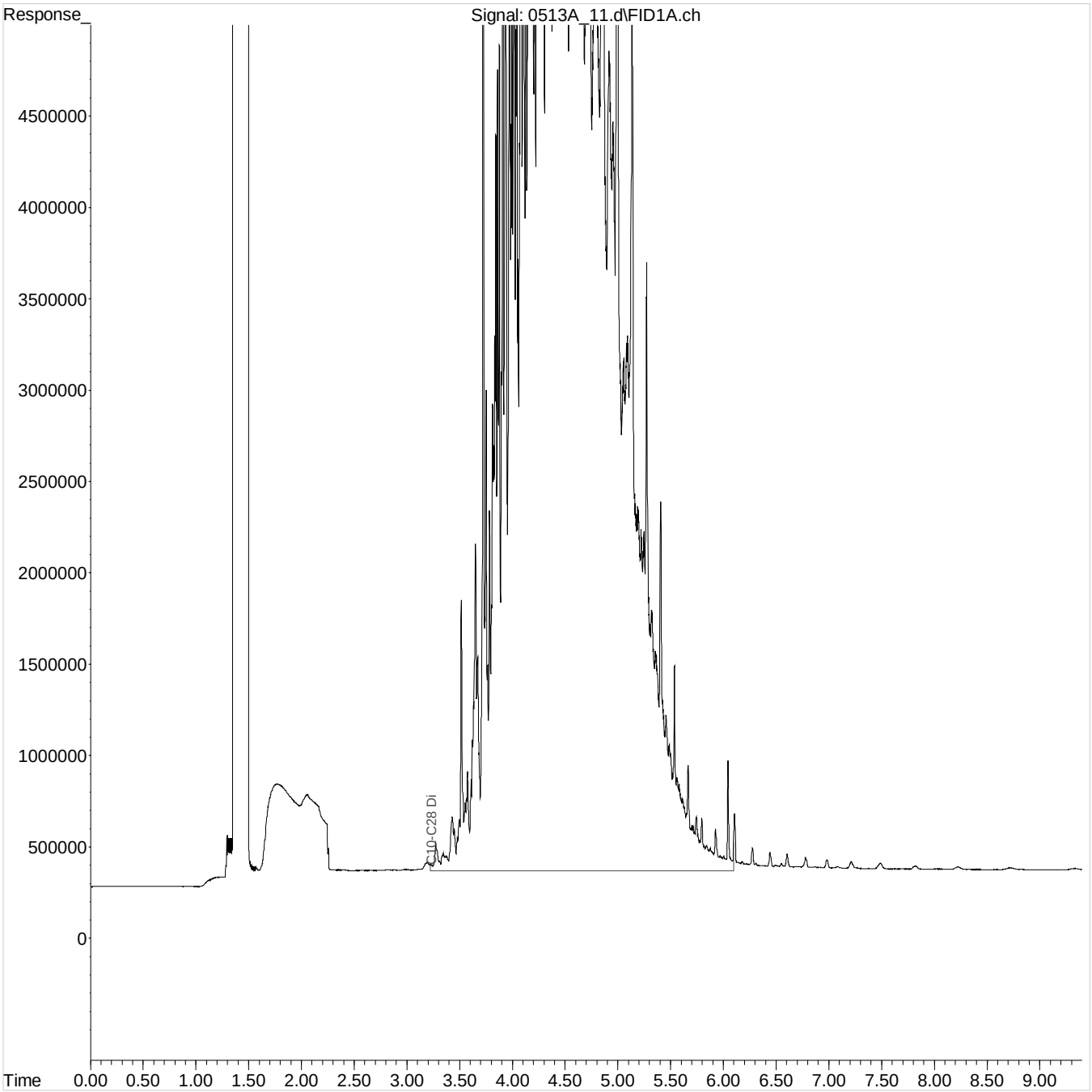
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\102314\
Data File : 0513A 11.d
Signal(s) : FID1A.ch
Acq On : 13 May 2014 12:47 pm
Operator :
Sample : STD DRO 200 PPM 14D09595
Misc :
ALS Vial : 10 Sample Multiplier: 1

Integration File: events.e
Quant Time: Oct 24 11:57:52 2014
Quant Method : C:\msdchem\1\methods\LA31J23N.m
Quant Title :
QLast Update : Fri Oct 24 11:57:27 2014
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\102314\
Data File : 1023 27.d
Signal(s) : FID1A.ch
Acq On : 23 Oct 2014 7:38 pm
Operator : 546
Sample : STD 10W30 1 PPM 14J23427
Misc :
ALS Vial : 20 Sample Multiplier: 1

Integration File: events.e
Quant Time: Oct 24 12:01:34 2014
Quant Method : C:\msdchem\1\methods\LA31J23N.m
Quant Title :
QLast Update : Fri Oct 24 11:57:57 2014
Response via : Initial Calibration
Integrator: ChemStation

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	5.98	42012731	NoCal	ppm

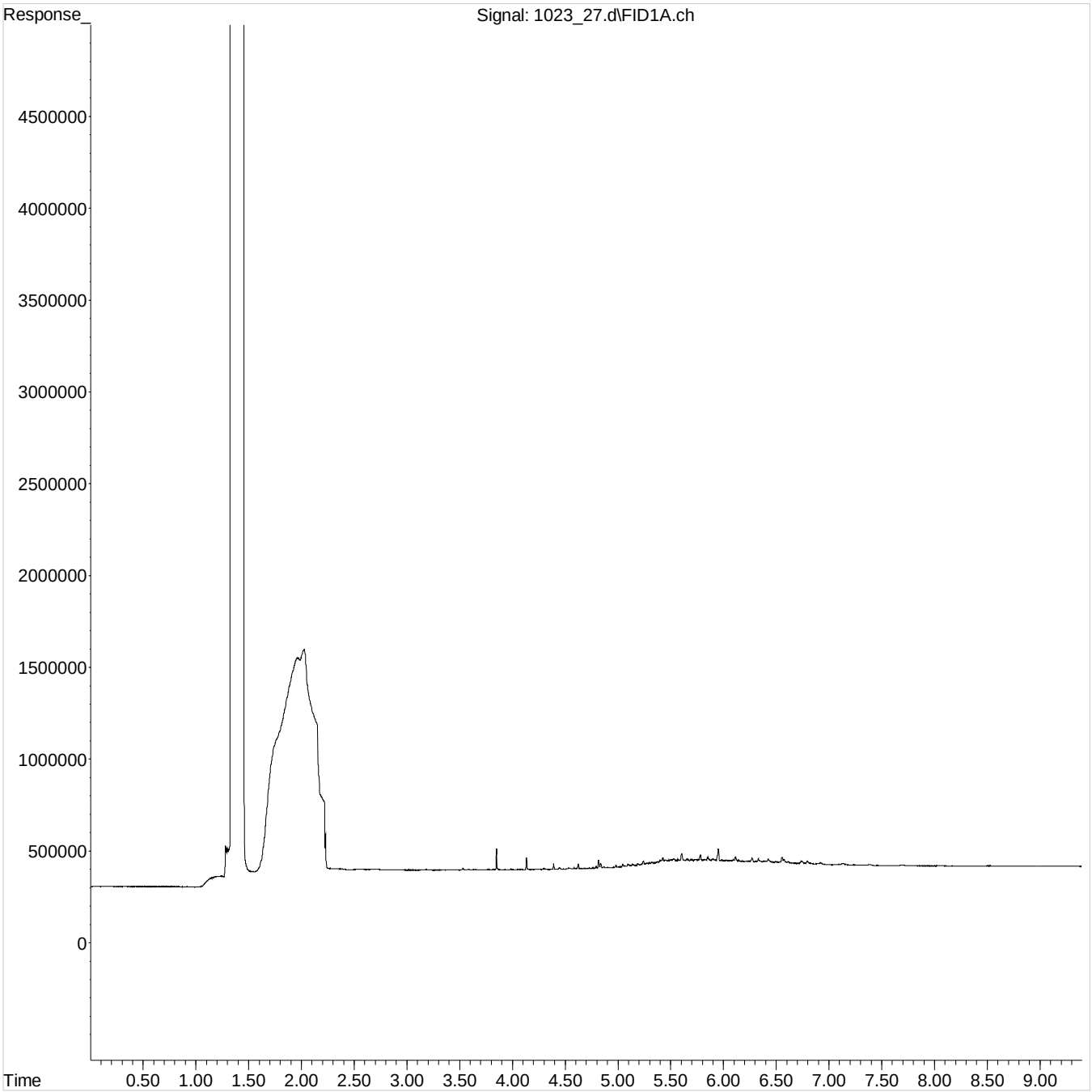
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\102314\
Data File : 1023 27.d
Signal(s) : FID1A.ch
Acq On : 23 Oct 2014 7:38 pm
Operator : 546
Sample : STD 10W30 1 PPM 14J23427
Misc :
ALS Vial : 20 Sample Multiplier: 1

Integration File: events.e
Quant Time: Oct 24 12:01:34 2014
Quant Method : C:\msdchem\1\methods\LA31J23N.m
Quant Title :
QLast Update : Fri Oct 24 11:57:57 2014
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\102314\
Data File : 1023 28.d
Signal(s) : FID1A.ch
Acq On : 23 Oct 2014 7:56 pm
Operator : 546
Sample : STD 10W30 2 PPM 14J23427
Misc :
ALS Vial : 21 Sample Multiplier: 1

Integration File: events.e
Quant Time: Oct 24 12:02:26 2014
Quant Method : C:\msdchem\1\methods\LA31J23N.m
Quant Title :
QLast Update : Fri Oct 24 12:01:44 2014
Response via : Initial Calibration
Integrator: ChemStation

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	5.98	53455226	1.2723578	ppm

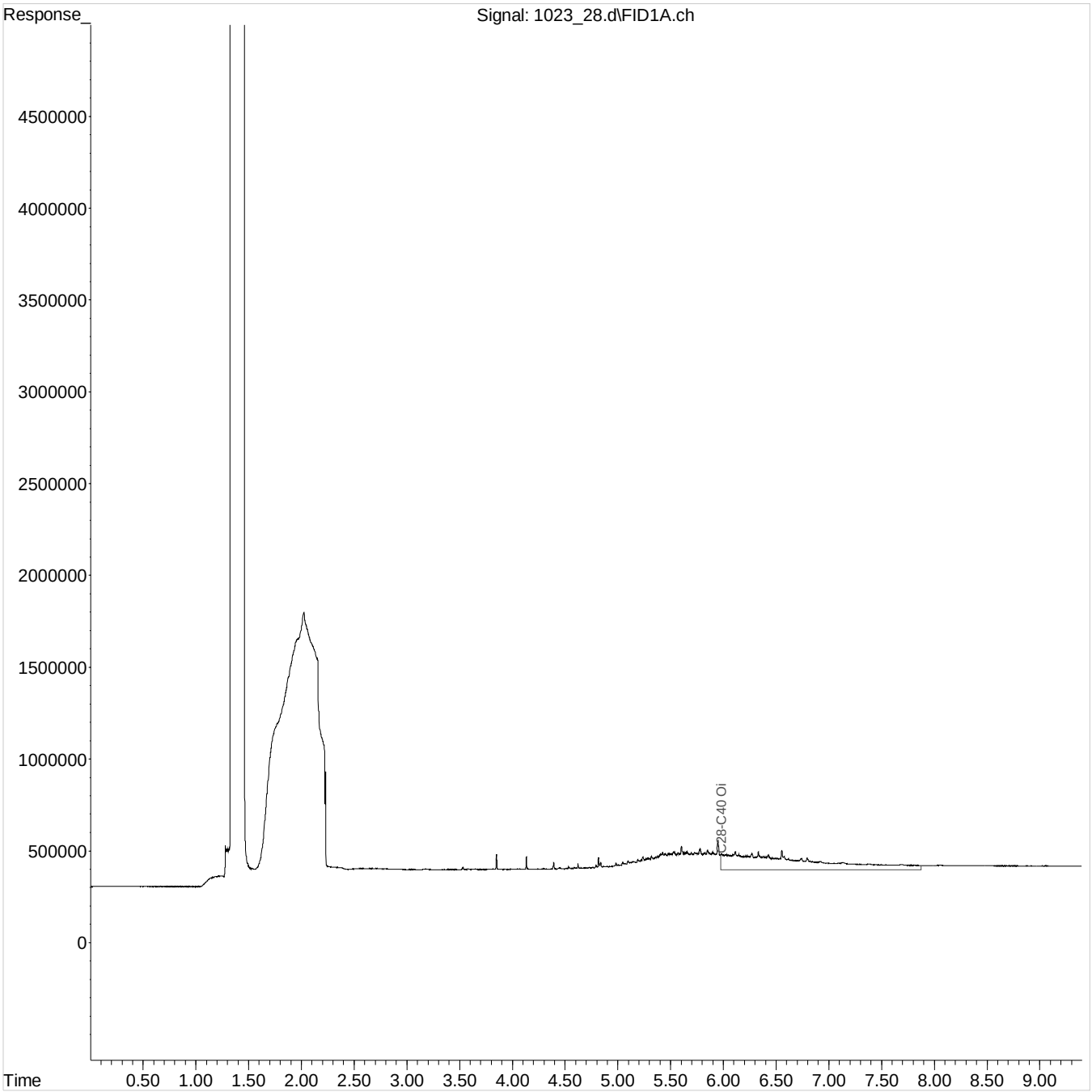
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\102314\
Data File : 1023 28.d
Signal(s) : FID1A.ch
Acq On : 23 Oct 2014 7:56 pm
Operator : 546
Sample : STD 10W30 2 PPM 14J23427
Misc :
ALS Vial : 21 Sample Multiplier: 1

Integration File: events.e
Quant Time: Oct 24 12:02:26 2014
Quant Method : C:\msdchem\1\methods\LA31J23N.m
Quant Title :
QLast Update : Fri Oct 24 12:01:44 2014
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\102314\
Data File : 1023 29.d
Signal(s) : FID1A.ch
Acq On : 23 Oct 2014 8:14 pm
Operator : 546
Sample : STD 10W30 4 PPM 14J23427
Misc :
ALS Vial : 22 Sample Multiplier: 1

Integration File: events.e
Quant Time: Oct 24 12:03:21 2014
Quant Method : C:\msdchem\1\methods\LA31J23N.m
Quant Title :
QLast Update : Fri Oct 24 12:02:33 2014
Response via : Initial Calibration
Integrator: ChemStation

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	5.98	76660055	4.0279519 ppm

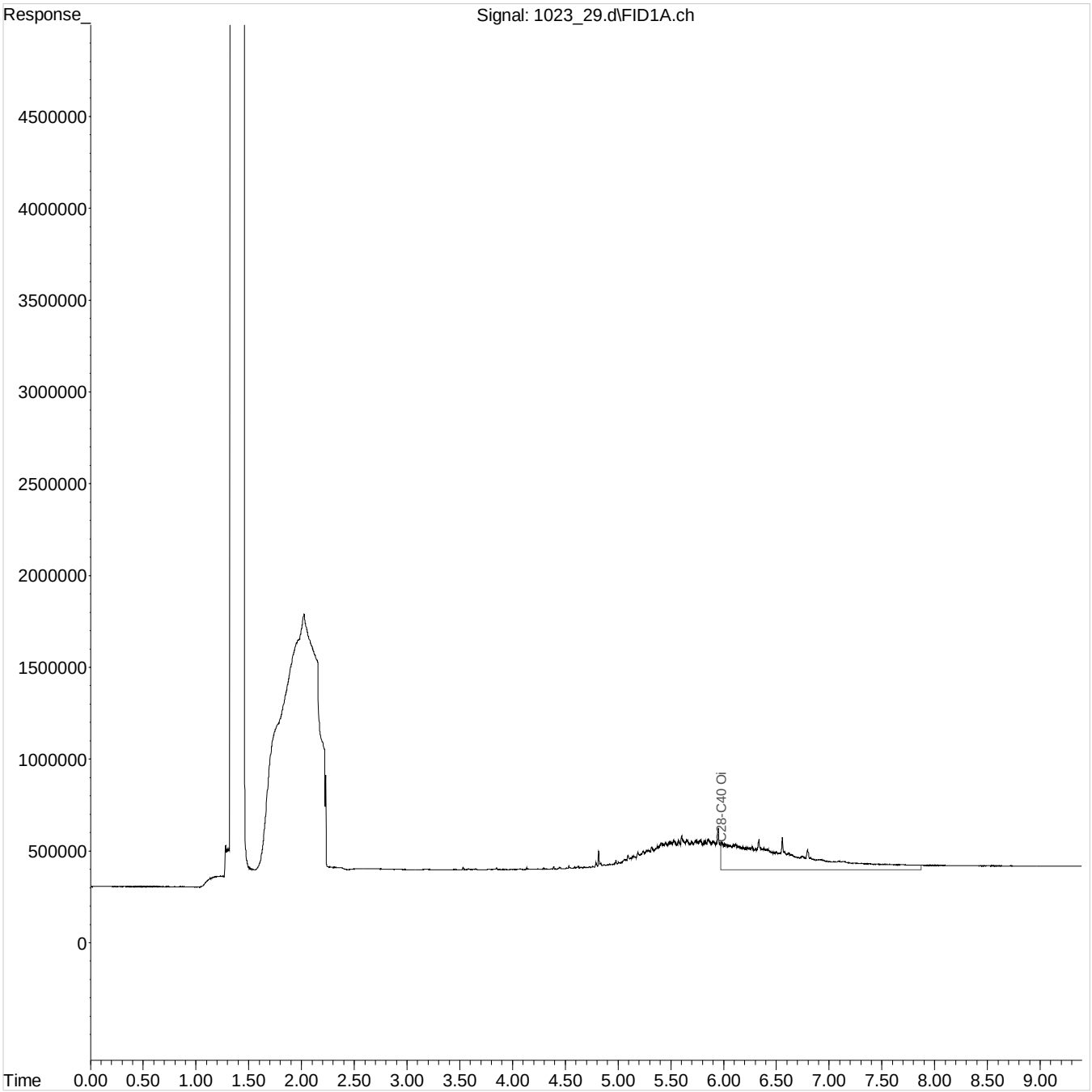
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\102314\
Data File : 1023 29.d
Signal(s) : FID1A.ch
Acq On : 23 Oct 2014 8:14 pm
Operator : 546
Sample : STD 10W30 4 PPM 14J23427
Misc :
ALS Vial : 22 Sample Multiplier: 1

Integration File: events.e
Quant Time: Oct 24 12:03:21 2014
Quant Method : C:\msdchem\1\methods\LA31J23N.m
Quant Title :
QLast Update : Fri Oct 24 12:02:33 2014
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\102314\
Data File : 1023 30.d
Signal(s) : FID1A.ch
Acq On : 23 Oct 2014 8:32 pm
Operator : 546
Sample : STD 10W30 10 PPM 14J23427
Misc :
ALS Vial : 23 Sample Multiplier: 1

Integration File: events.e
Quant Time: Oct 24 12:04:06 2014
Quant Method : C:\msdchem\1\methods\LA31J23N.m
Quant Title :
QLast Update : Fri Oct 24 12:03:27 2014
Response via : Initial Calibration
Integrator: ChemStation

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	5.98	146181691	10.0281954	ppm

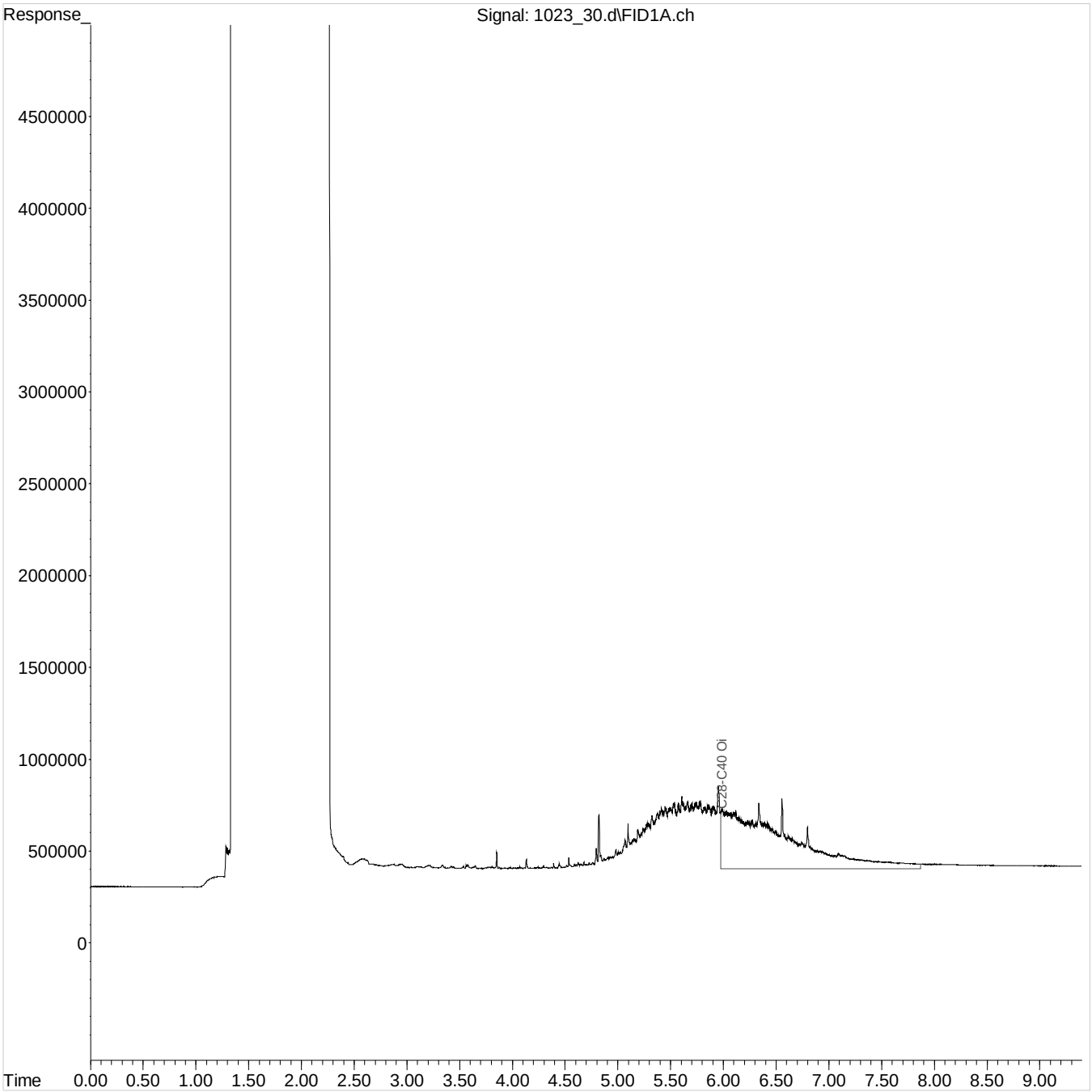
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\102314\
Data File : 1023 30.d
Signal(s) : FID1A.ch
Acq On : 23 Oct 2014 8:32 pm
Operator : 546
Sample : STD 10W30 10 PPM 14J23427
Misc :
ALS Vial : 23 Sample Multiplier: 1

Integration File: events.e
Quant Time: Oct 24 12:04:06 2014
Quant Method : C:\msdchem\1\methods\LA31J23N.m
Quant Title :
QLast Update : Fri Oct 24 12:03:27 2014
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\102314\
Data File : 1023 31.d
Signal(s) : FID1A.ch
Acq On : 23 Oct 2014 8:50 pm
Operator : 546
Sample : STD 10W30 20 PPM 14J23427
Misc :
ALS Vial : 24 Sample Multiplier: 1

Integration File: events.e
Quant Time: Oct 24 12:05:04 2014
Quant Method : C:\msdchem\1\methods\LA31J23N.m
Quant Title :
QLast Update : Fri Oct 24 12:04:20 2014
Response via : Initial Calibration
Integrator: ChemStation

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	5.98	271592483	20.8438686	ppm

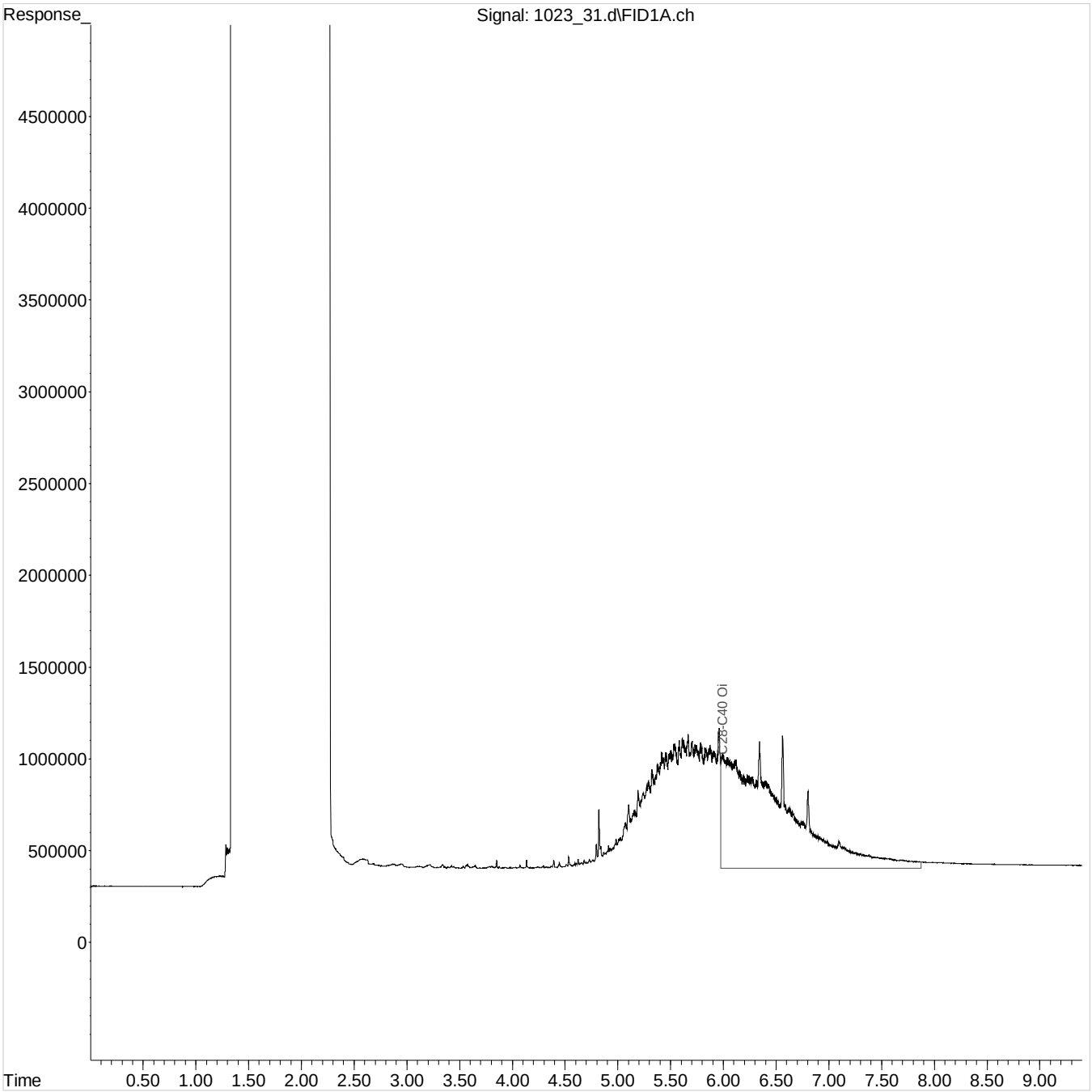
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\102314\
Data File : 1023 31.d
Signal(s) : FID1A.ch
Acq On : 23 Oct 2014 8:50 pm
Operator : 546
Sample : STD 10W30 20 PPM 14J23427
Misc :
ALS Vial : 24 Sample Multiplier: 1

Integration File: events.e
Quant Time: Oct 24 12:05:04 2014
Quant Method : C:\msdchem\1\methods\LA31J23N.m
Quant Title :
QLast Update : Fri Oct 24 12:04:20 2014
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\102314\
Data File : 1023 32.d
Signal(s) : FID1A.ch
Acq On : 23 Oct 2014 9:08 pm
Operator : 546
Sample : STD 10W30 40 PPM 14J23427
Misc :
ALS Vial : 25 Sample Multiplier: 1

Integration File: events.e
Quant Time: Oct 24 12:05:54 2014
Quant Method : C:\msdchem\1\methods\LA31J23N.m
Quant Title :
QLast Update : Fri Oct 24 12:05:10 2014
Response via : Initial Calibration
Integrator: ChemStation

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	5.98	522220799	41.2925461	ppm

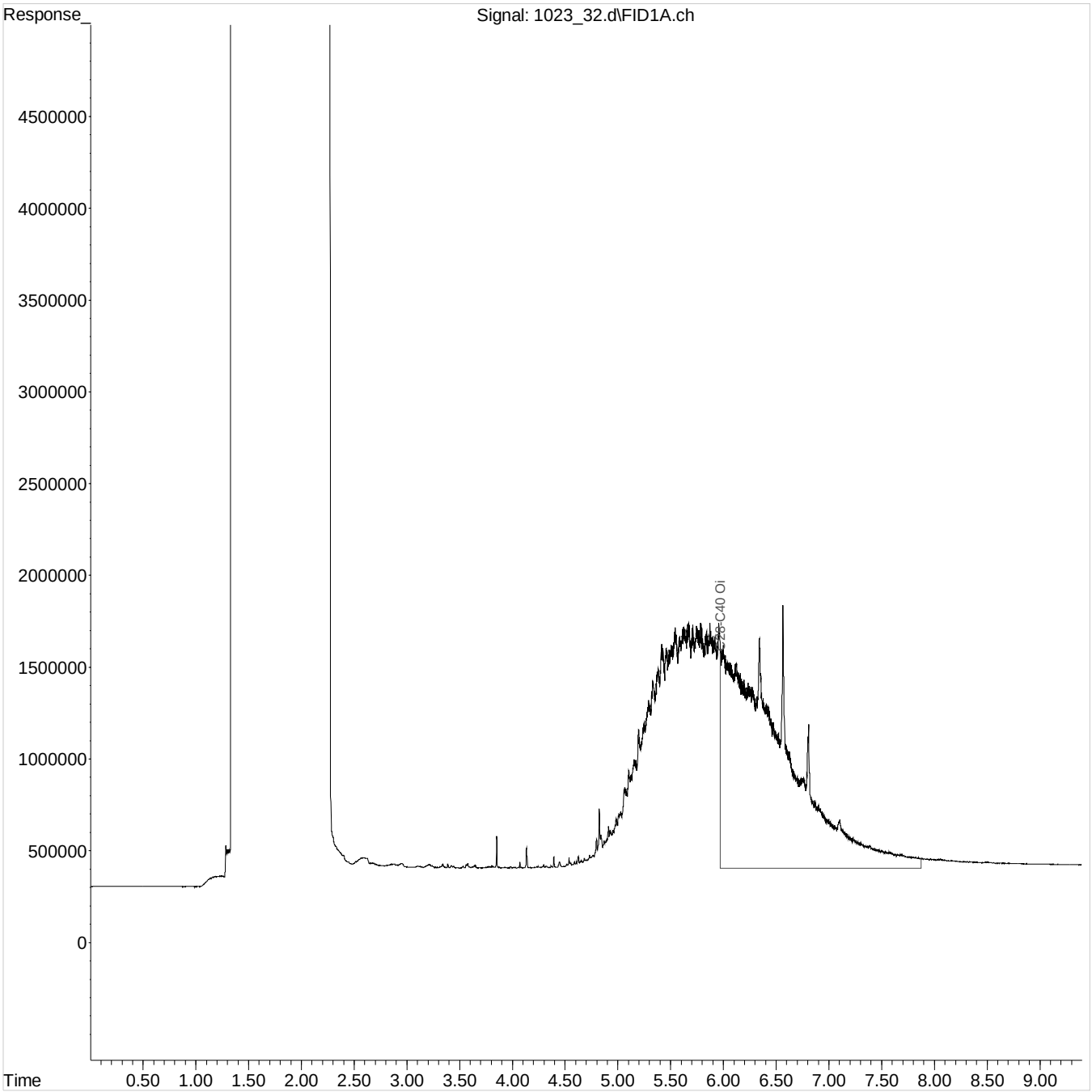
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\102314\
Data File : 1023 32.d
Signal(s) : FID1A.ch
Acq On : 23 Oct 2014 9:08 pm
Operator : 546
Sample : STD 10W30 40 PPM 14J23427
Misc :
ALS Vial : 25 Sample Multiplier: 1

Integration File: events.e
Quant Time: Oct 24 12:05:54 2014
Quant Method : C:\msdchem\1\methods\LA31J23N.m
Quant Title :
QLast Update : Fri Oct 24 12:05:10 2014
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\102314\
Data File : 1023 33.d
Signal(s) : FID1A.ch
Acq On : 23 Oct 2014 9:26 pm
Operator : 546
Sample : STD 10W30 50 PPM 14J23427
Misc :
ALS Vial : 26 Sample Multiplier: 1

Integration File: events.e
Quant Time: Oct 24 12:06:41 2014
Quant Method : C:\msdchem\1\methods\LA31J23N.m
Quant Title :
QLast Update : Fri Oct 24 12:06:00 2014
Response via : Initial Calibration
Integrator: ChemStation

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	5.98	647480856	50.8030130	ppm

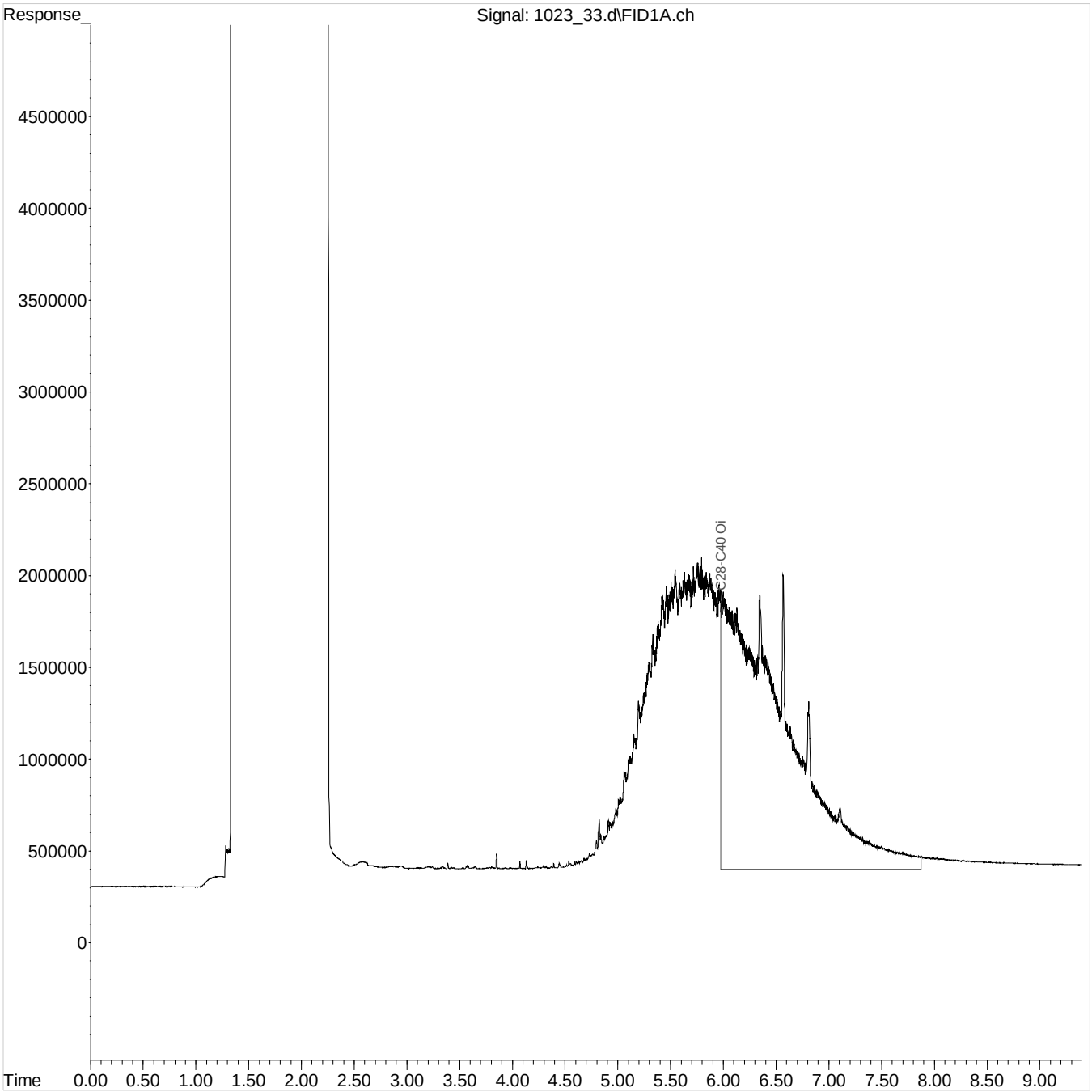
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\102314\
Data File : 1023 33.d
Signal(s) : FID1A.ch
Acq On : 23 Oct 2014 9:26 pm
Operator : 546
Sample : STD 10W30 50 PPM 14J23427
Misc :
ALS Vial : 26 Sample Multiplier: 1

Integration File: events.e
Quant Time: Oct 24 12:06:41 2014
Quant Method : C:\msdchem\1\methods\LA31J23N.m
Quant Title :
QLast Update : Fri Oct 24 12:06:00 2014
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\102314\
Data File : 1023 34.d
Signal(s) : FID1A.ch
Acq On : 23 Oct 2014 9:44 pm
Operator : 546
Sample : STD 10W30 100 PPM 14J23427
Misc :
ALS Vial : 27 Sample Multiplier: 1

Integration File: events.e
Quant Time: Oct 24 12:07:35 2014
Quant Method : C:\msdchem\1\methods\LA31J23N.m
Quant Title :
QLast Update : Fri Oct 24 12:06:48 2014
Response via : Initial Calibration
Integrator: ChemStation

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	5.98	1290991781	102.9402933	ppm

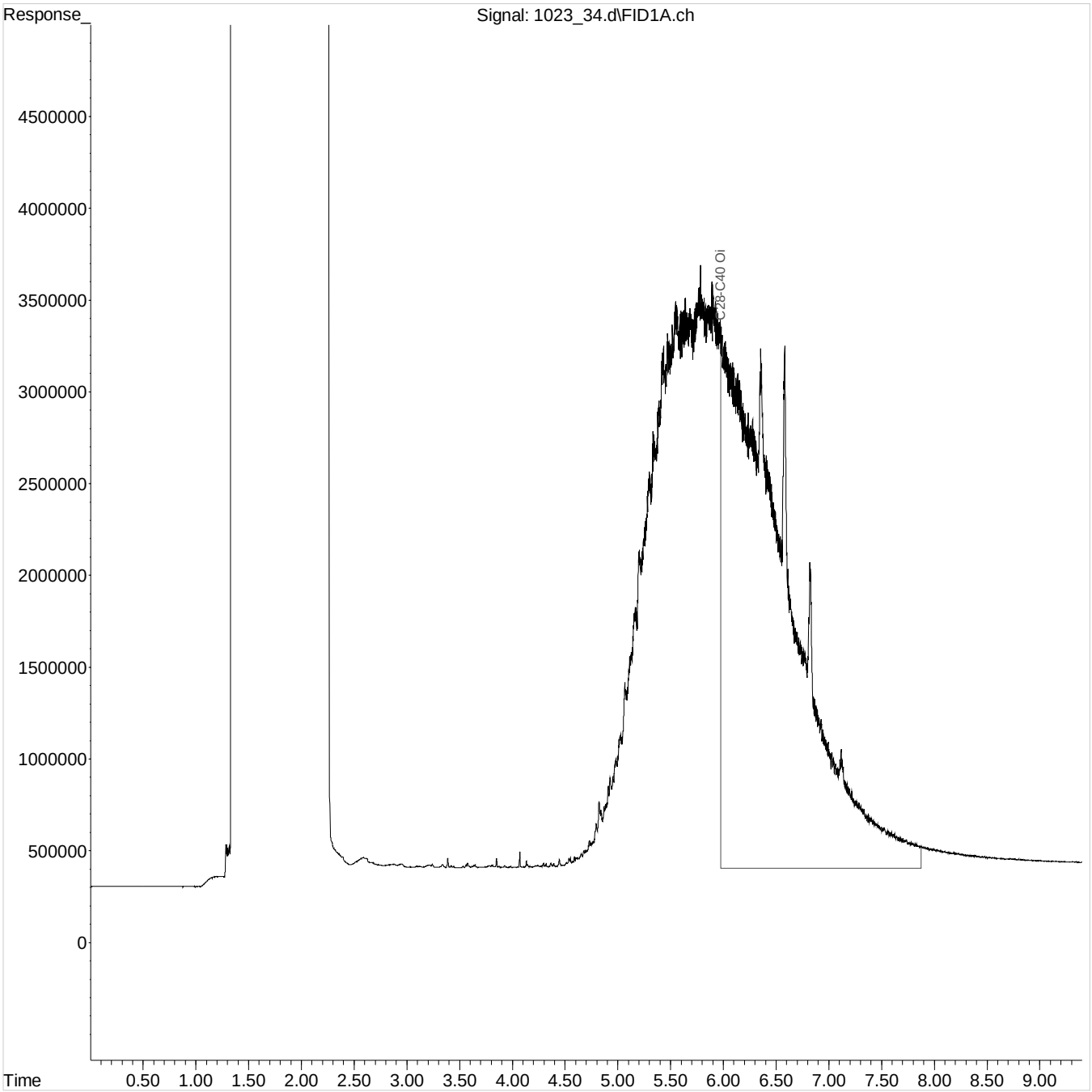
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\102314\
Data File : 1023 34.d
Signal(s) : FID1A.ch
Acq On : 23 Oct 2014 9:44 pm
Operator : 546
Sample : STD 10W30 100 PPM 14J23427
Misc :
ALS Vial : 27 Sample Multiplier: 1

Integration File: events.e
Quant Time: Oct 24 12:07:35 2014
Quant Method : C:\msdchem\1\methods\LA31J23N.m
Quant Title :
QLast Update : Fri Oct 24 12:06:48 2014
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\102314\
Data File : 1023 06.d
Signal(s) : FID1A.ch
Acq On : 23 Oct 2014 1:23 pm
Operator : 546
Sample : INSTBLK
Misc :
ALS Vial : 111 Sample Multiplier: 1

Integration File: events.e
Quant Time: Oct 23 13:59:09 2014
Quant Method : C:\msdchem\1\methods\EP31J22N.m
Quant Title :
QLast Update : Wed Oct 22 15:02:20 2014
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :

Compound	R.T.	Response	Conc	Units
System Monitoring Compounds				
23) 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-C20 Hydrocarbons	3.14	5046931	0.1291602	ppm
2) H,M C20-C34 Hydrocarbons	4.92	5265214	N.D.	ppm
3) H,M C20-C36 Hydrocarbons	4.98	7672474	NoCal	ppm
4) T,H,M Extractable Petroleum...	3.60	15969580	N.D.	ppm
5) H,M C12-C22 Hydrocarbons	3.60	3288346	0.0604076	ppm
6) H,M C22-C32 Hydrocarbons	5.19	3690675	N.D.	ppm
7) H,M C32-C40 Hydrocarbons	6.47	4814267	N.D.	ppm
8) H,M MISC. TPH (C10-C40)	3.14	18223529	N.D.	ppm
9) H,M TPH (GC/FID) HIGH FRA...	3.14	11784647	0.1718328	ppm
10) H,M C10-C28 Diesel Range	3.14	8421869	0.2971311	ppm
11) H,M C28-C40 Oil Range	5.98	8363488	N.D.	ppm
12) H,M C13-C22 Hydrocarbons	3.78	2696416	0.0630645	ppm
13) H,M C23-C32 Hydrocarbons	5.25	3431883	N.D.	ppm
14) h,m Diesel Range Organics	3.60	3550182	0.0270676	ppm
15) h,m Residual Range Organics	5.46	8880756	N.D.	ppm
16) h Hydraulic Fluid	0.00	1151804	NoCal	ppm
17) h #6 Fuel Oil	0.00	1151804	NoCal	ppm
18) h Kerosene	0.00	1151804	NoCal	ppm
19) h Mineral Spirits	0.00	1151804	NoCal	ppm
20) h Biodiesel	0.00	1151804	NoCal	ppm
21) h,m Diesel	3.14	5046931	0.1218041	ppm
22) h,m Motor Oil	4.92	9917335	N.D.	ppm

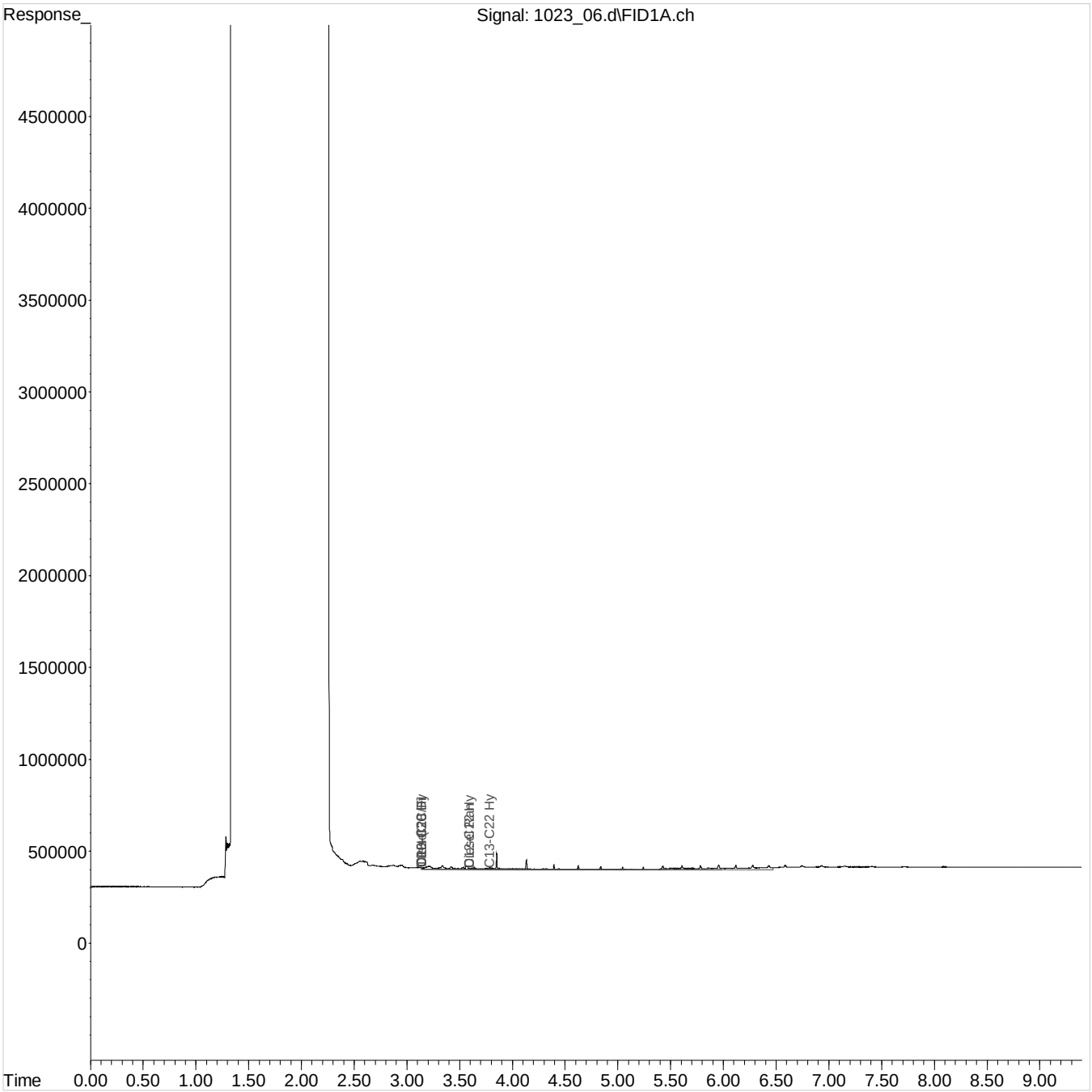
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\102314\
Data File : 1023 06.d
Signal(s) : FID1A.ch
Acq On : 23 Oct 2014 1:23 pm
Operator : 546
Sample : INSTBLK
Misc :
ALS Vial : 111 Sample Multiplier: 1

Integration File: events.e
Quant Time: Oct 23 13:59:09 2014
Quant Method : C:\msdchem\1\methods\EP31J22N.m
Quant Title :
QLast Update : Wed Oct 22 15:02:20 2014
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\102314\
Data File : 1023 06.d
Signal(s) : FID1A.ch
Acq On : 23 Oct 2014 1:23 pm
Operator : 546
Sample : INSTBLK
Misc :
ALS Vial : 111 Sample Multiplier: 1

Integration File: events.e
Quant Time: Oct 23 13:59:09 2014
Quant Method : C:\msdchem\1\methods\EP31J22N.m
Quant Title :
QLast Update : Wed Oct 22 15:02:20 2014
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :

Compound	R.T.	Response	Conc	Units
System Monitoring Compounds				
23) 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-C20 Hydrocarbons	3.14	5046931	0.1291602	ppm
2) H,M C20-C34 Hydrocarbons	4.92	5265214	N.D.	ppm
3) H,M C20-C36 Hydrocarbons	4.98	7672474	NoCal	ppm
4) T,H,M Extractable Petroleum...	3.60	15969580	N.D.	ppm
5) H,M C12-C22 Hydrocarbons	3.60	3288346	0.0604076	ppm
6) H,M C22-C32 Hydrocarbons	5.19	3690675	N.D.	ppm
7) H,M C32-C40 Hydrocarbons	6.47	4814267	N.D.	ppm
8) H,M MISC. TPH (C10-C40)	3.14	18223529	N.D.	ppm
9) H,M TPH (GC/FID) HIGH FRA...	3.14	11784647	0.1718328	ppm
10) H,M C10-C28 Diesel Range	3.14	8421869	0.2971311	ppm
11) H,M C28-C40 Oil Range	5.98	8363488	N.D.	ppm
12) H,M C13-C22 Hydrocarbons	3.78	2696416	0.0630645	ppm
13) H,M C23-C32 Hydrocarbons	5.25	3431883	N.D.	ppm
14) h,m Diesel Range Organics	3.60	3550182	0.0270676	ppm
15) h,m Residual Range Organics	5.46	8880756	N.D.	ppm
16) h Hydraulic Fluid	0.00	1151804	NoCal	ppm
17) h #6 Fuel Oil	0.00	1151804	NoCal	ppm
18) h Kerosene	0.00	1151804	NoCal	ppm
19) h Mineral Spirits	0.00	1151804	NoCal	ppm
20) h Biodiesel	0.00	1151804	NoCal	ppm
21) h,m Diesel	3.14	5046931	0.1218041	ppm
22) h,m Motor Oil	4.92	9917335	N.D.	ppm

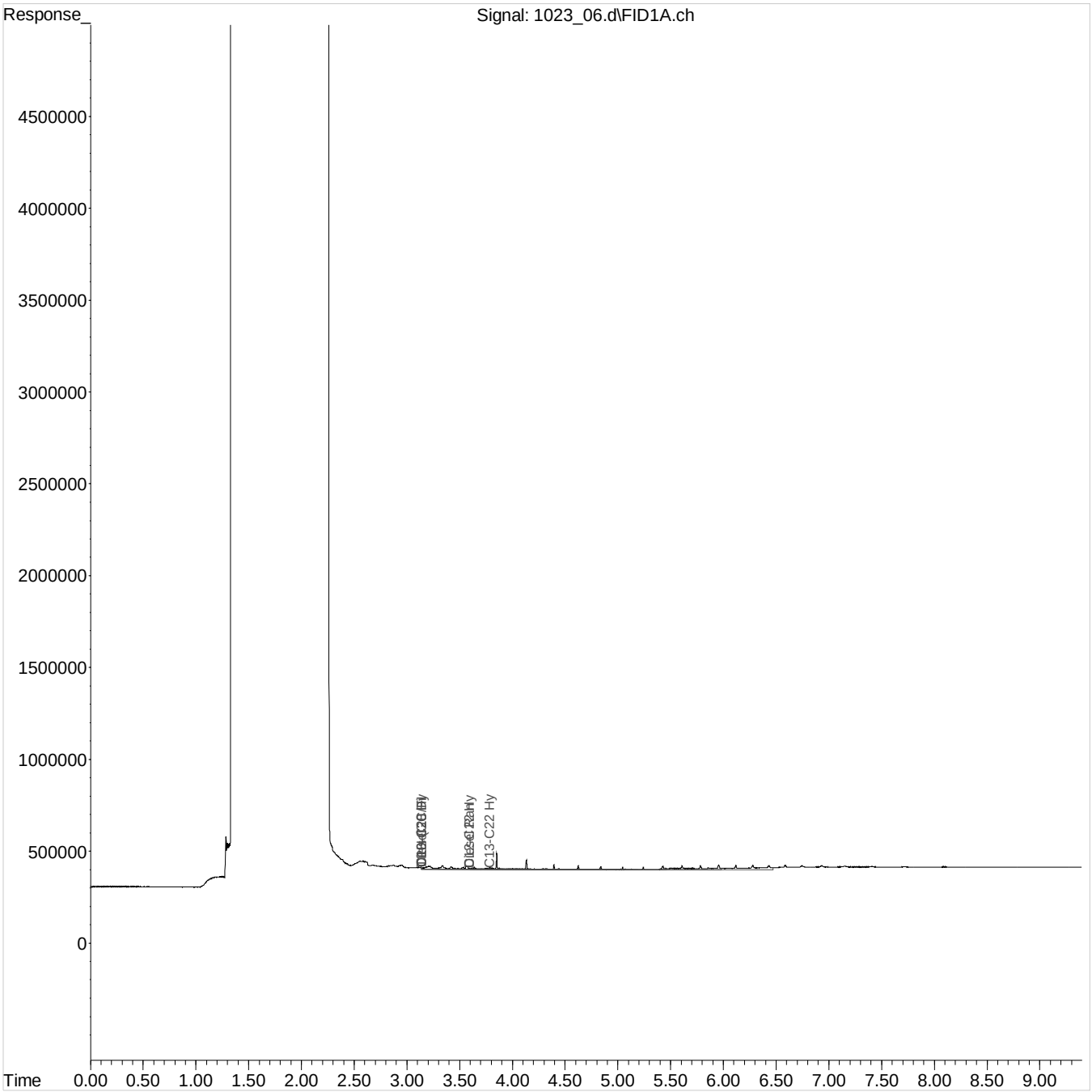
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\102314\
Data File : 1023 06.d
Signal(s) : FID1A.ch
Acq On : 23 Oct 2014 1:23 pm
Operator : 546
Sample : INSTBLK
Misc :
ALS Vial : 111 Sample Multiplier: 1

Integration File: events.e
Quant Time: Oct 23 13:59:09 2014
Quant Method : C:\msdchem\1\methods\EP31J22N.m
Quant Title :
QLast Update : Wed Oct 22 15:02:20 2014
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\102314\
Data File : 1023 07.d
Signal(s) : FID1A.ch
Acq On : 23 Oct 2014 1:41 pm
Operator : 546
Sample : INSTBLK
Misc :
ALS Vial : 111 Sample Multiplier: 1

Integration File: events.e
Quant Time: Oct 23 13:59:15 2014
Quant Method : C:\msdchem\1\methods\EP31J22N.m
Quant Title :
QLast Update : Wed Oct 22 15:02:20 2014
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :

Compound	R.T.	Response	Conc	Units
System Monitoring Compounds				
23) 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-C20 Hydrocarbons	3.14	6121545	0.1819836	ppm
2) H,M C20-C34 Hydrocarbons	4.92	5372484	N.D.	ppm
3) H,M C20-C36 Hydrocarbons	4.98	7565905	NoCal	ppm
4) T,H,M Extractable Petroleum...	3.60	16714762	N.D.	ppm
5) H,M C12-C22 Hydrocarbons	3.60	3778840	0.0818679	ppm
6) H,M C22-C32 Hydrocarbons	5.19	3873667	N.D.	ppm
7) H,M C32-C40 Hydrocarbons	6.47	4772848	N.D.	ppm
8) H,M MISC. TPH (C10-C40)	3.14	19716906	N.D.	ppm
9) H,M TPH (GC/FID) HIGH FRA...	3.14	13570914	0.2479556	ppm
10) H,M C10-C28 Diesel Range	3.14	9761252	0.3443857	ppm
11) H,M C28-C40 Oil Range	5.98	8413605	N.D.	ppm
12) H,M C13-C22 Hydrocarbons	3.78	3173895	0.0851567	ppm
13) H,M C23-C32 Hydrocarbons	5.25	3831720	N.D.	ppm
14) h,m Diesel Range Organics	3.60	4188957	0.0502645	ppm
15) h,m Residual Range Organics	5.46	9003316	N.D.	ppm
16) h Hydraulic Fluid	0.00	1196223	NoCal	ppm
17) h #6 Fuel Oil	0.00	1196223	NoCal	ppm
18) h Kerosene	0.00	1196223	NoCal	ppm
19) h Mineral Spirits	0.00	1196223	NoCal	ppm
20) h Biodiesel	0.00	1196223	NoCal	ppm
21) h,m Diesel	3.14	6121545	0.1747216	ppm
22) h,m Motor Oil	4.92	9682331	N.D.	ppm

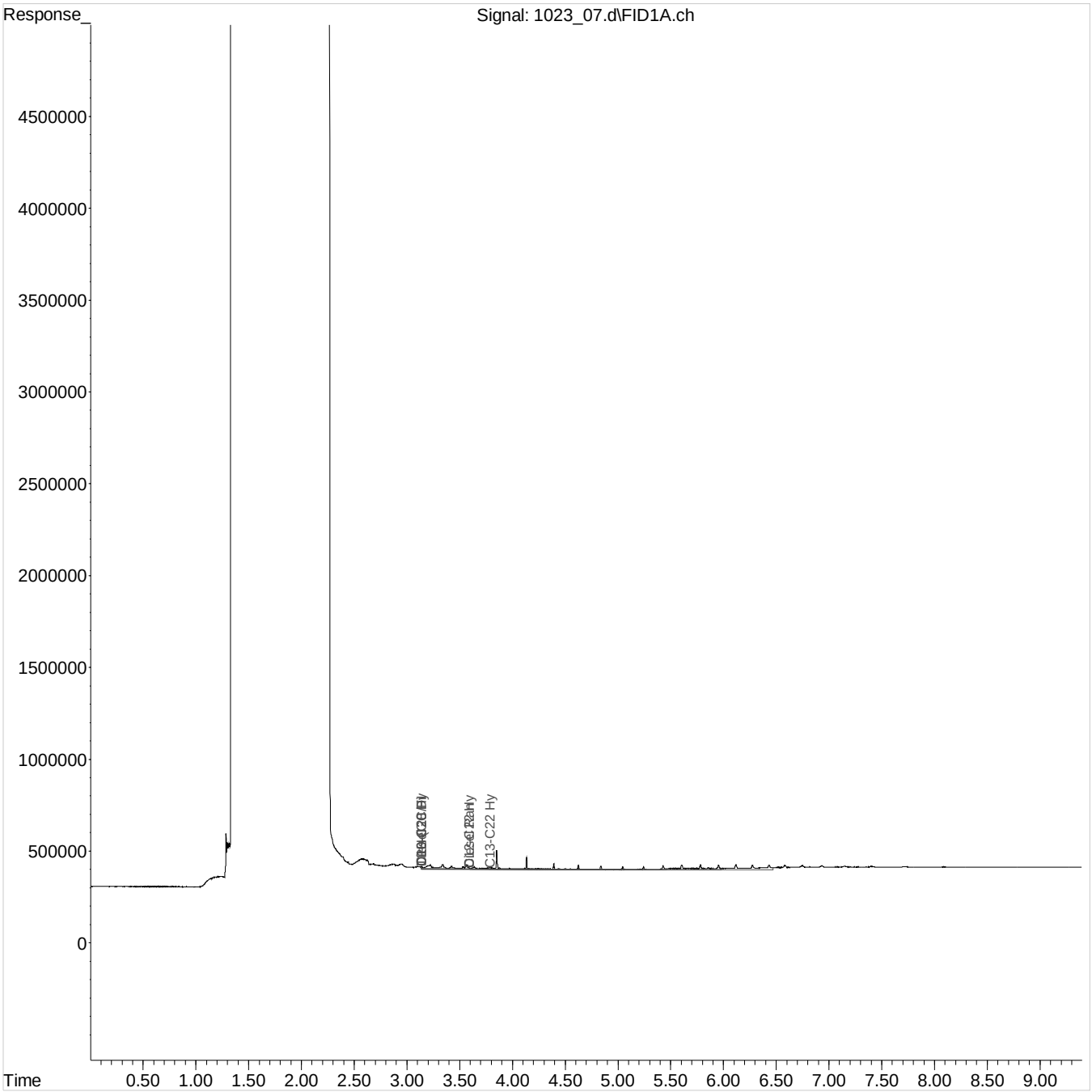
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\102314\
Data File : 1023 07.d
Signal(s) : FID1A.ch
Acq On : 23 Oct 2014 1:41 pm
Operator : 546
Sample : INSTBLK
Misc :
ALS Vial : 111 Sample Multiplier: 1

Integration File: events.e
Quant Time: Oct 23 13:59:15 2014
Quant Method : C:\msdchem\1\methods\EP31J22N.m
Quant Title :
QLast Update : Wed Oct 22 15:02:20 2014
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\102314\
Data File : 1023 07.d
Signal(s) : FID1A.ch
Acq On : 23 Oct 2014 1:41 pm
Operator : 546
Sample : INSTBLK
Misc :
ALS Vial : 111 Sample Multiplier: 1

Integration File: events.e
Quant Time: Oct 23 13:59:15 2014
Quant Method : C:\msdchem\1\methods\EP31J22N.m
Quant Title :
QLast Update : Wed Oct 22 15:02:20 2014
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :

Compound	R.T.	Response	Conc	Units
System Monitoring Compounds				
23) 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-C20 Hydrocarbons	3.14	6121545	0.1819836	ppm
2) H,M C20-C34 Hydrocarbons	4.92	5372484	N.D.	ppm
3) H,M C20-C36 Hydrocarbons	4.98	7565905	NoCal	ppm
4) T,H,M Extractable Petroleum...	3.60	16714762	N.D.	ppm
5) H,M C12-C22 Hydrocarbons	3.60	3778840	0.0818679	ppm
6) H,M C22-C32 Hydrocarbons	5.19	3873667	N.D.	ppm
7) H,M C32-C40 Hydrocarbons	6.47	4772848	N.D.	ppm
8) H,M MISC. TPH (C10-C40)	3.14	19716906	N.D.	ppm
9) H,M TPH (GC/FID) HIGH FRA...	3.14	13570914	0.2479556	ppm
10) H,M C10-C28 Diesel Range	3.14	9761252	0.3443857	ppm
11) H,M C28-C40 Oil Range	5.98	8413605	N.D.	ppm
12) H,M C13-C22 Hydrocarbons	3.78	3173895	0.0851567	ppm
13) H,M C23-C32 Hydrocarbons	5.25	3831720	N.D.	ppm
14) h,m Diesel Range Organics	3.60	4188957	0.0502645	ppm
15) h,m Residual Range Organics	5.46	9003316	N.D.	ppm
16) h Hydraulic Fluid	0.00	1196223	NoCal	ppm
17) h #6 Fuel Oil	0.00	1196223	NoCal	ppm
18) h Kerosene	0.00	1196223	NoCal	ppm
19) h Mineral Spirits	0.00	1196223	NoCal	ppm
20) h Biodiesel	0.00	1196223	NoCal	ppm
21) h,m Diesel	3.14	6121545	0.1747216	ppm
22) h,m Motor Oil	4.92	9682331	N.D.	ppm

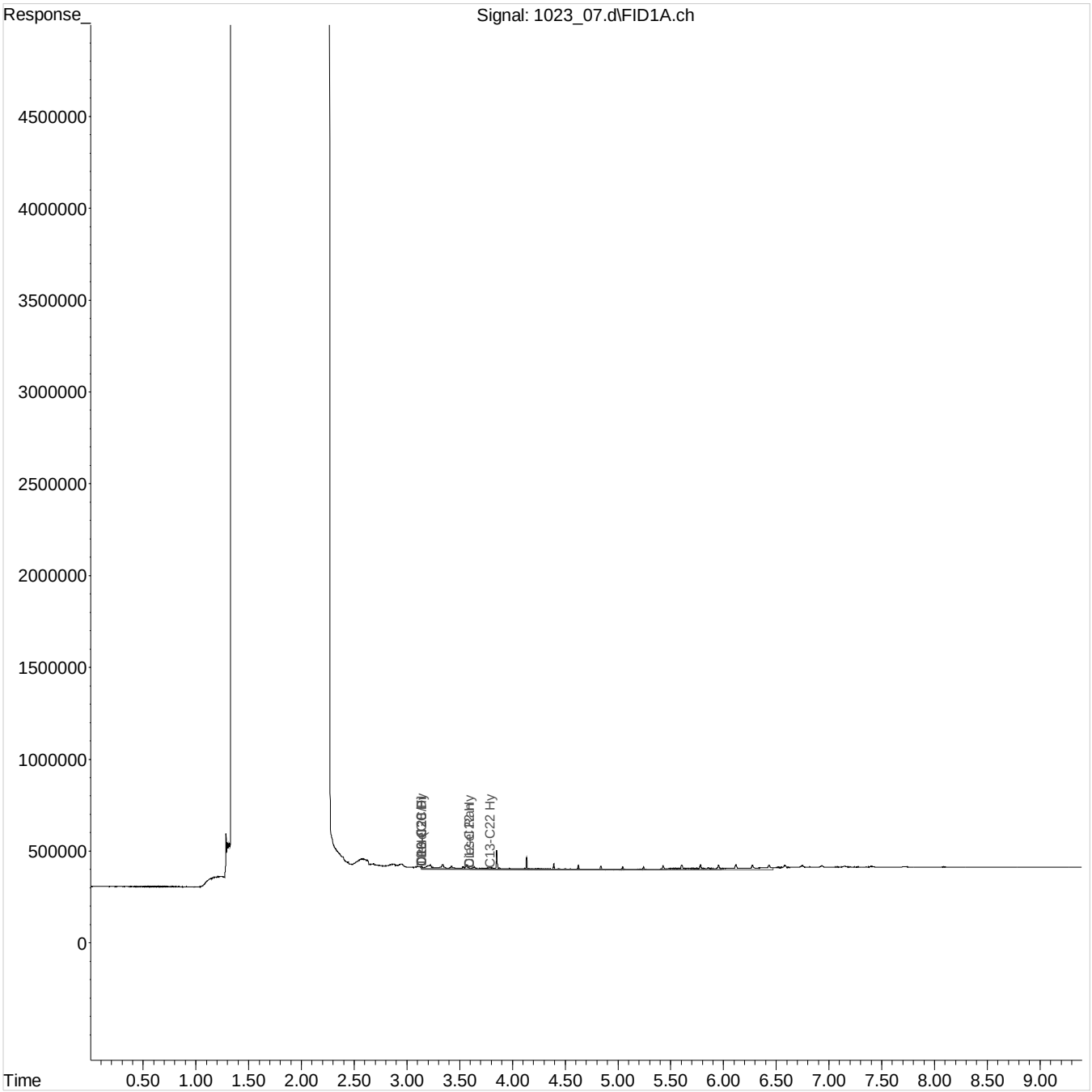
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\102314\
Data File : 1023 07.d
Signal(s) : FID1A.ch
Acq On : 23 Oct 2014 1:41 pm
Operator : 546
Sample : INSTBLK
Misc :
ALS Vial : 111 Sample Multiplier: 1

Integration File: events.e
Quant Time: Oct 23 13:59:15 2014
Quant Method : C:\msdchem\1\methods\EP31J22N.m
Quant Title :
QLast Update : Wed Oct 22 15:02:20 2014
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\102314\
Data File : 1023 23.d
Signal(s) : FID1A.ch
Acq On : 23 Oct 2014 6:26 pm
Operator : 546
Sample : INSTBLK
Misc :
ALS Vial : 113 Sample Multiplier: 1

Integration File: events.e
Quant Time: Oct 24 08:10:38 2014
Quant Method : C:\msdchem\1\methods\EP31J22N.m
Quant Title :
QLast Update : Wed Oct 22 15:02:20 2014
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :

Compound	R.T.	Response	Conc	Units
System Monitoring Compounds				
23) 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-C20 Hydrocarbons	3.14	2781314	0.0177922	ppm
2) H,M C20-C34 Hydrocarbons	4.92	8038806	0.0349464	ppm
3) H,M C20-C36 Hydrocarbons	4.98	11128495	NoCal	ppm
4) T,H,M Extractable Petroleum...	3.60	22083187	0.0773533	ppm
5) H,M C12-C22 Hydrocarbons	3.60	2620743	0.0311984	ppm
6) H,M C22-C32 Hydrocarbons	5.19	5227346	0.0098454	ppm
7) H,M C32-C40 Hydrocarbons	6.47	7747078	0.1174271	ppm
8) H,M MISC. TPH (C10-C40)	3.14	22481103	0.0478019	ppm
9) H,M TPH (GC/FID) HIGH FRA...	3.14	11456919	0.1578664	ppm
10) H,M C10-C28 Diesel Range	3.14	6692125	0.2361041	ppm
11) H,M C28-C40 Oil Range	5.98	11542120	N.D.	ppm
12) H,M C13-C22 Hydrocarbons	3.78	2308082	0.0450968	ppm
13) H,M C23-C32 Hydrocarbons	5.25	4825329	N.D.	ppm
14) h,m Diesel Range Organics	3.60	3193323	0.0141084	ppm
15) h,m Residual Range Organics	5.46	11223703	N.D.	ppm
16) h Hydraulic Fluid	0.00	1195385	NoCal	ppm
17) h #6 Fuel Oil	0.00	1195385	NoCal	ppm
18) h Kerosene	0.00	1195385	NoCal	ppm
19) h Mineral Spirits	0.00	1195385	NoCal	ppm
20) h Biodiesel	0.00	1195385	NoCal	ppm
21) h,m Diesel	3.14	2781314	0.0102378	ppm
22) h,m Motor Oil	4.92	13693098	N.D.	ppm

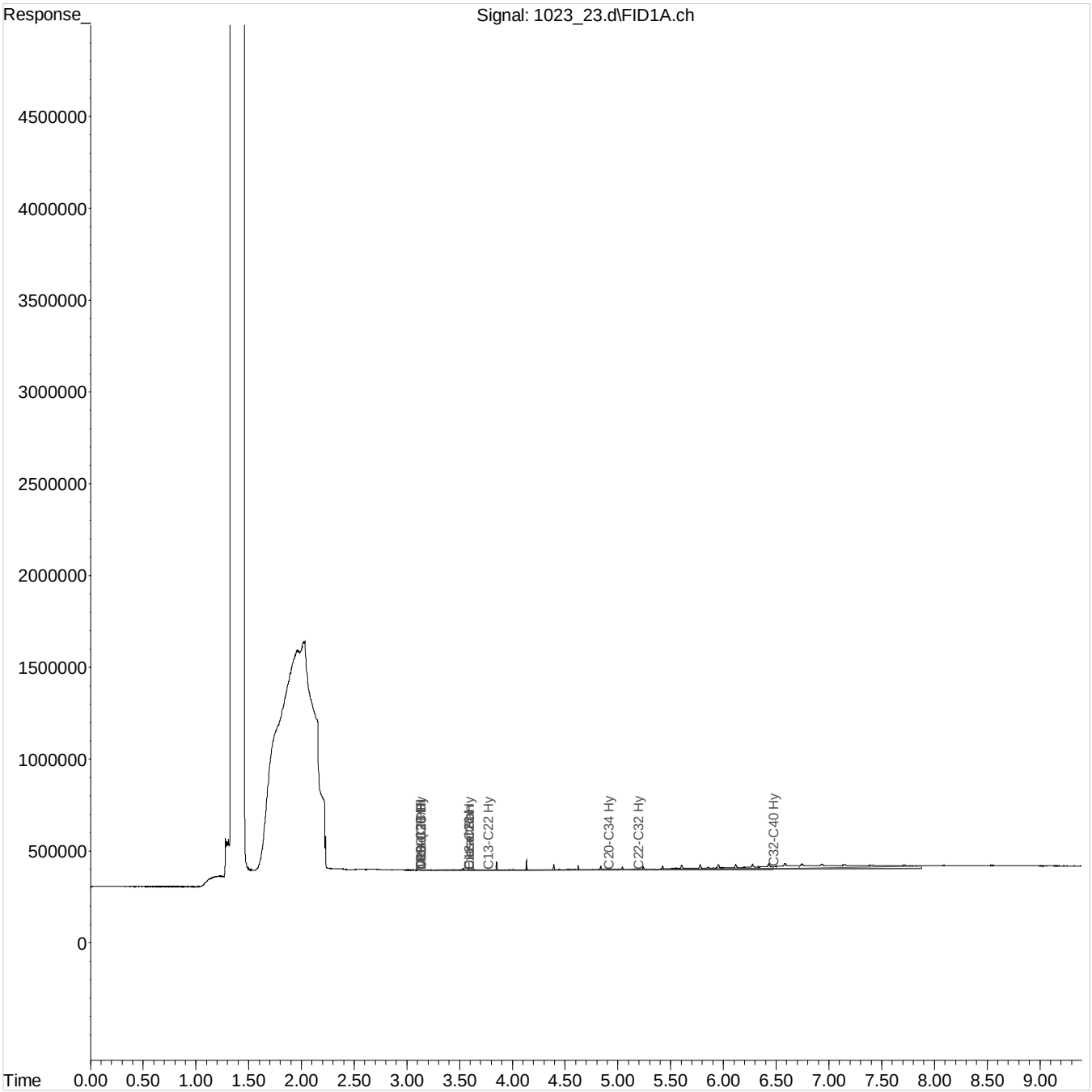
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\102314\
Data File : 1023 23.d
Signal(s) : FID1A.ch
Acq On : 23 Oct 2014 6:26 pm
Operator : 546
Sample : INSTBLK
Misc :
ALS Vial : 113 Sample Multiplier: 1

Integration File: events.e
Quant Time: Oct 24 08:10:38 2014
Quant Method : C:\msdchem\1\methods\EP31J22N.m
Quant Title :
QLast Update : Wed Oct 22 15:02:20 2014
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\102314\
Data File : 1023 23.d
Signal(s) : FID1A.ch
Acq On : 23 Oct 2014 6:26 pm
Operator : 546
Sample : INSTBLK
Misc :
ALS Vial : 113 Sample Multiplier: 1

Integration File: events.e
Quant Time: Oct 24 08:10:38 2014
Quant Method : C:\msdchem\1\methods\EP31J22N.m
Quant Title :
QLast Update : Wed Oct 22 15:02:20 2014
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :

Compound	R.T.	Response	Conc	Units
System Monitoring Compounds				
23) 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-C20 Hydrocarbons	3.14	2781314	0.0177922	ppm
2) H,M C20-C34 Hydrocarbons	4.92	8038806	0.0349464	ppm
3) H,M C20-C36 Hydrocarbons	4.98	11128495	NoCal	ppm
4) T,H,M Extractable Petroleum...	3.60	22083187	0.0773533	ppm
5) H,M C12-C22 Hydrocarbons	3.60	2620743	0.0311984	ppm
6) H,M C22-C32 Hydrocarbons	5.19	5227346	0.0098454	ppm
7) H,M C32-C40 Hydrocarbons	6.47	7747078	0.1174271	ppm
8) H,M MISC. TPH (C10-C40)	3.14	22481103	0.0478019	ppm
9) H,M TPH (GC/FID) HIGH FRA...	3.14	11456919	0.1578664	ppm
10) H,M C10-C28 Diesel Range	3.14	6692125	0.2361041	ppm
11) H,M C28-C40 Oil Range	5.98	11542120	N.D.	ppm
12) H,M C13-C22 Hydrocarbons	3.78	2308082	0.0450968	ppm
13) H,M C23-C32 Hydrocarbons	5.25	4825329	N.D.	ppm
14) h,m Diesel Range Organics	3.60	3193323	0.0141084	ppm
15) h,m Residual Range Organics	5.46	11223703	N.D.	ppm
16) h Hydraulic Fluid	0.00	1195385	NoCal	ppm
17) h #6 Fuel Oil	0.00	1195385	NoCal	ppm
18) h Kerosene	0.00	1195385	NoCal	ppm
19) h Mineral Spirits	0.00	1195385	NoCal	ppm
20) h Biodiesel	0.00	1195385	NoCal	ppm
21) h,m Diesel	3.14	2781314	0.0102378	ppm
22) h,m Motor Oil	4.92	13693098	N.D.	ppm

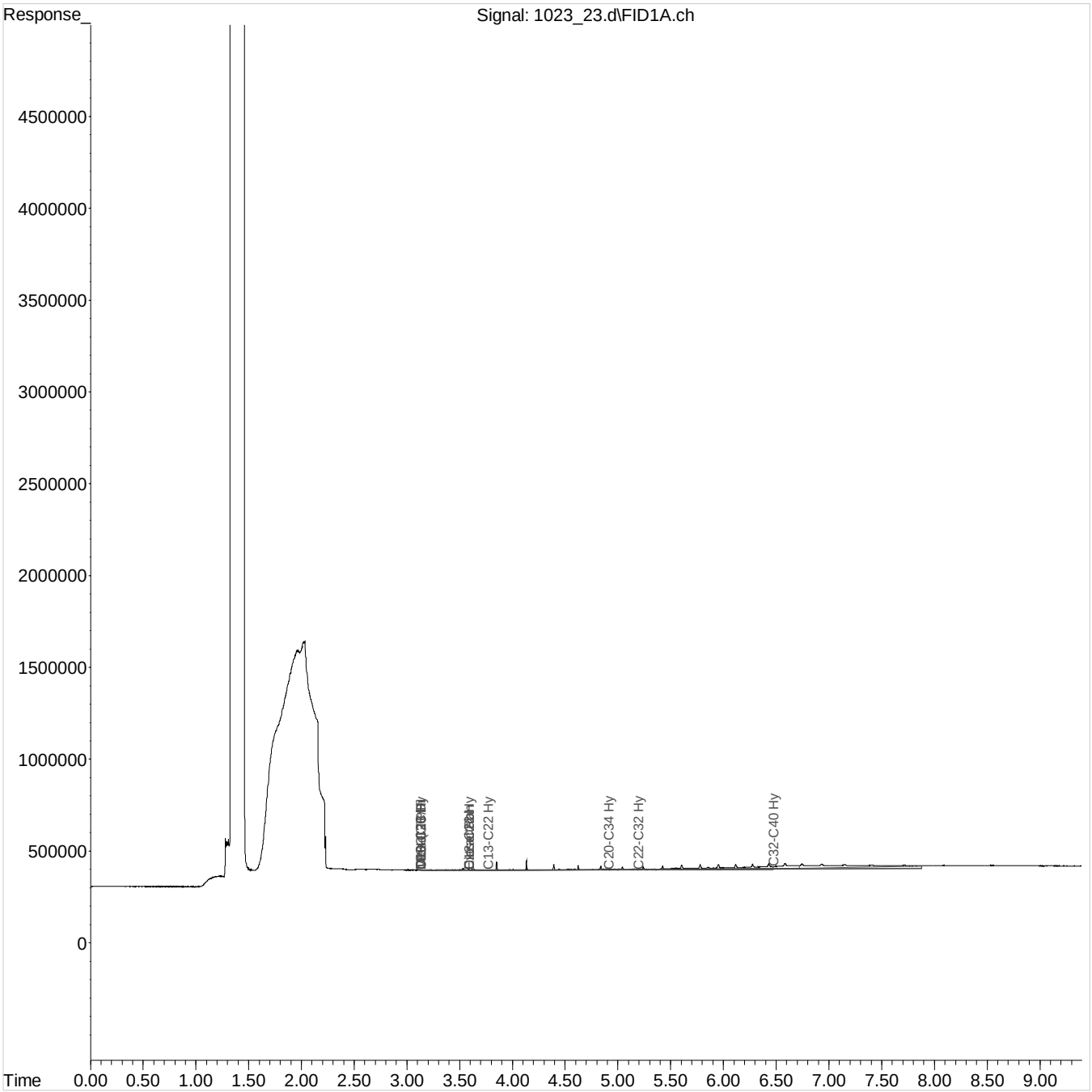
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\102314\
Data File : 1023 23.d
Signal(s) : FID1A.ch
Acq On : 23 Oct 2014 6:26 pm
Operator : 546
Sample : INSTBLK
Misc :
ALS Vial : 113 Sample Multiplier: 1

Integration File: events.e
Quant Time: Oct 24 08:10:38 2014
Quant Method : C:\msdchem\1\methods\EP31J22N.m
Quant Title :
QLast Update : Wed Oct 22 15:02:20 2014
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\102314\
Data File : 1023 24.d
Signal(s) : FID1A.ch
Acq On : 23 Oct 2014 6:44 pm
Operator : 546
Sample : INSTBLK
Misc :
ALS Vial : 113 Sample Multiplier: 1

Integration File: events.e
Quant Time: Oct 24 08:10:42 2014
Quant Method : C:\msdchem\1\methods\EP31J22N.m
Quant Title :
QLast Update : Wed Oct 22 15:02:20 2014
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :

Compound	R.T.	Response	Conc	Units
System Monitoring Compounds				
23) 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-C20 Hydrocarbons	3.14	2062072	N.D.	ppm
2) H,M C20-C34 Hydrocarbons	4.92	6429747	N.D.	ppm
3) H,M C20-C36 Hydrocarbons	4.98	10193660	NoCal	ppm
4) T,H,M Extractable Petroleum...	3.60	18085658	N.D.	ppm
5) H,M C12-C22 Hydrocarbons	3.60	1792085	N.D.	ppm
6) H,M C22-C32 Hydrocarbons	5.19	4409802	N.D.	ppm
7) H,M C32-C40 Hydrocarbons	6.47	6409118	0.0603020	ppm
8) H,M MISC. TPH (C10-C40)	3.14	18798138	N.D.	ppm
9) H,M TPH (GC/FID) HIGH FRA...	3.14	10071383	0.0988210	ppm
10) H,M C10-C28 Diesel Range	3.14	5772662	0.2036647	ppm
11) H,M C28-C40 Oil Range	5.98	10745337	N.D.	ppm
12) H,M C13-C22 Hydrocarbons	3.78	1679351	0.0160063	ppm
13) H,M C23-C32 Hydrocarbons	5.25	4352459	N.D.	ppm
14) h,m Diesel Range Organics	3.60	2197452	N.D.	ppm
15) h,m Residual Range Organics	5.46	11301986	N.D.	ppm
16) h Hydraulic Fluid	0.00	1201537	NoCal	ppm
17) h #6 Fuel Oil	0.00	1201537	NoCal	ppm
18) h Kerosene	0.00	1201537	NoCal	ppm
19) h Mineral Spirits	0.00	1201537	NoCal	ppm
20) h Biodiesel	0.00	1201537	NoCal	ppm
21) h,m Diesel	3.14	2062072	N.D.	ppm
22) h,m Motor Oil	4.92	12975177	N.D.	ppm

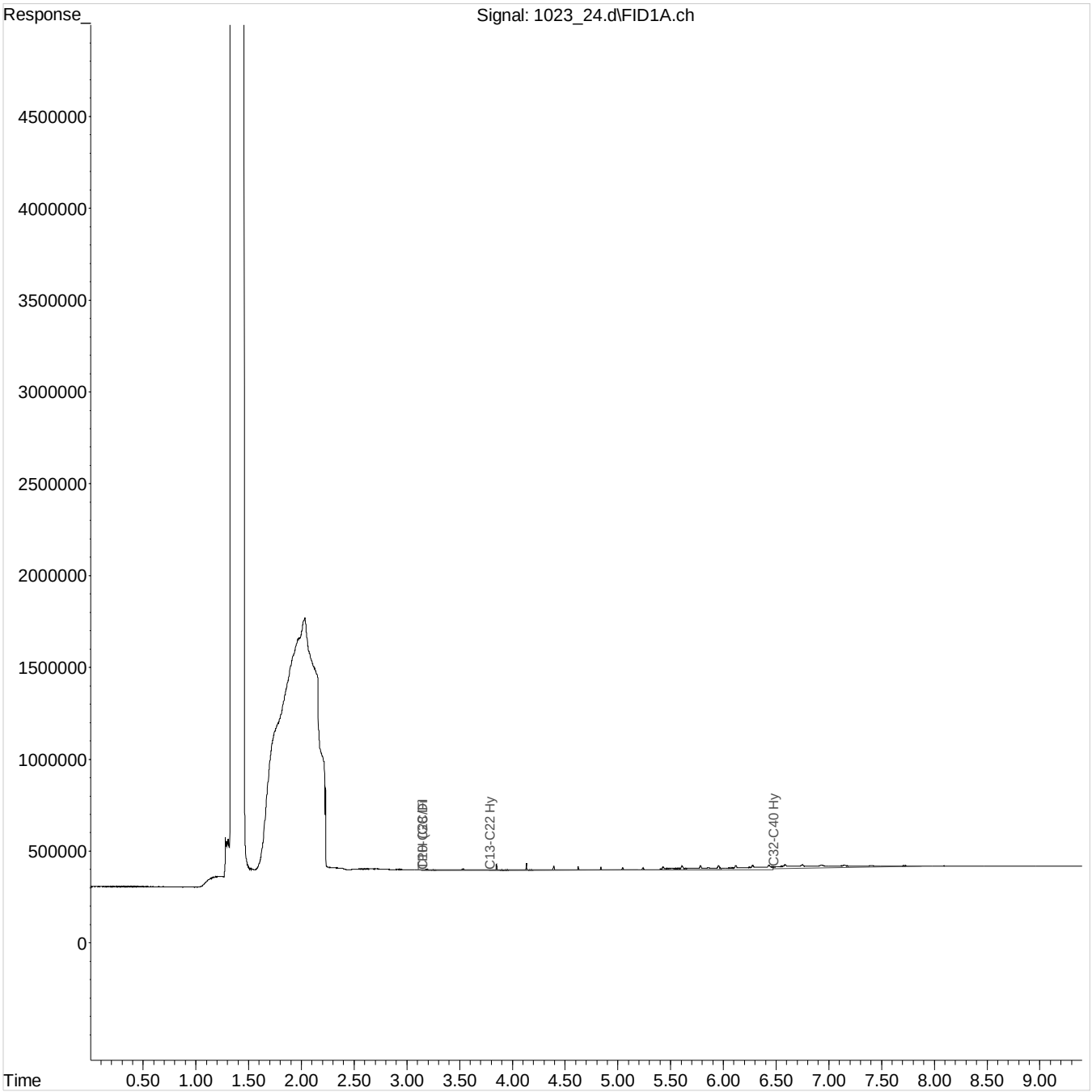
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\102314\
Data File : 1023 24.d
Signal(s) : FID1A.ch
Acq On : 23 Oct 2014 6:44 pm
Operator : 546
Sample : INSTBLK
Misc :
ALS Vial : 113 Sample Multiplier: 1

Integration File: events.e
Quant Time: Oct 24 08:10:42 2014
Quant Method : C:\msdchem\1\methods\EP31J22N.m
Quant Title :
QLast Update : Wed Oct 22 15:02:20 2014
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\102314\
Data File : 1023 24.d
Signal(s) : FID1A.ch
Acq On : 23 Oct 2014 6:44 pm
Operator : 546
Sample : INSTBLK
Misc :
ALS Vial : 113 Sample Multiplier: 1

Integration File: events.e
Quant Time: Oct 24 08:10:42 2014
Quant Method : C:\msdchem\1\methods\EP31J22N.m
Quant Title :
QLast Update : Wed Oct 22 15:02:20 2014
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :

Compound	R.T.	Response	Conc	Units
System Monitoring Compounds				
23) 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-C20 Hydrocarbons	3.14	2062072	N.D.	ppm
2) H,M C20-C34 Hydrocarbons	4.92	6429747	N.D.	ppm
3) H,M C20-C36 Hydrocarbons	4.98	10193660	NoCal	ppm
4) T,H,M Extractable Petroleum...	3.60	18085658	N.D.	ppm
5) H,M C12-C22 Hydrocarbons	3.60	1792085	N.D.	ppm
6) H,M C22-C32 Hydrocarbons	5.19	4409802	N.D.	ppm
7) H,M C32-C40 Hydrocarbons	6.47	6409118	0.0603020	ppm
8) H,M MISC. TPH (C10-C40)	3.14	18798138	N.D.	ppm
9) H,M TPH (GC/FID) HIGH FRA...	3.14	10071383	0.0988210	ppm
10) H,M C10-C28 Diesel Range	3.14	5772662	0.2036647	ppm
11) H,M C28-C40 Oil Range	5.98	10745337	N.D.	ppm
12) H,M C13-C22 Hydrocarbons	3.78	1679351	0.0160063	ppm
13) H,M C23-C32 Hydrocarbons	5.25	4352459	N.D.	ppm
14) h,m Diesel Range Organics	3.60	2197452	N.D.	ppm
15) h,m Residual Range Organics	5.46	11301986	N.D.	ppm
16) h Hydraulic Fluid	0.00	1201537	NoCal	ppm
17) h #6 Fuel Oil	0.00	1201537	NoCal	ppm
18) h Kerosene	0.00	1201537	NoCal	ppm
19) h Mineral Spirits	0.00	1201537	NoCal	ppm
20) h Biodiesel	0.00	1201537	NoCal	ppm
21) h,m Diesel	3.14	2062072	N.D.	ppm
22) h,m Motor Oil	4.92	12975177	N.D.	ppm

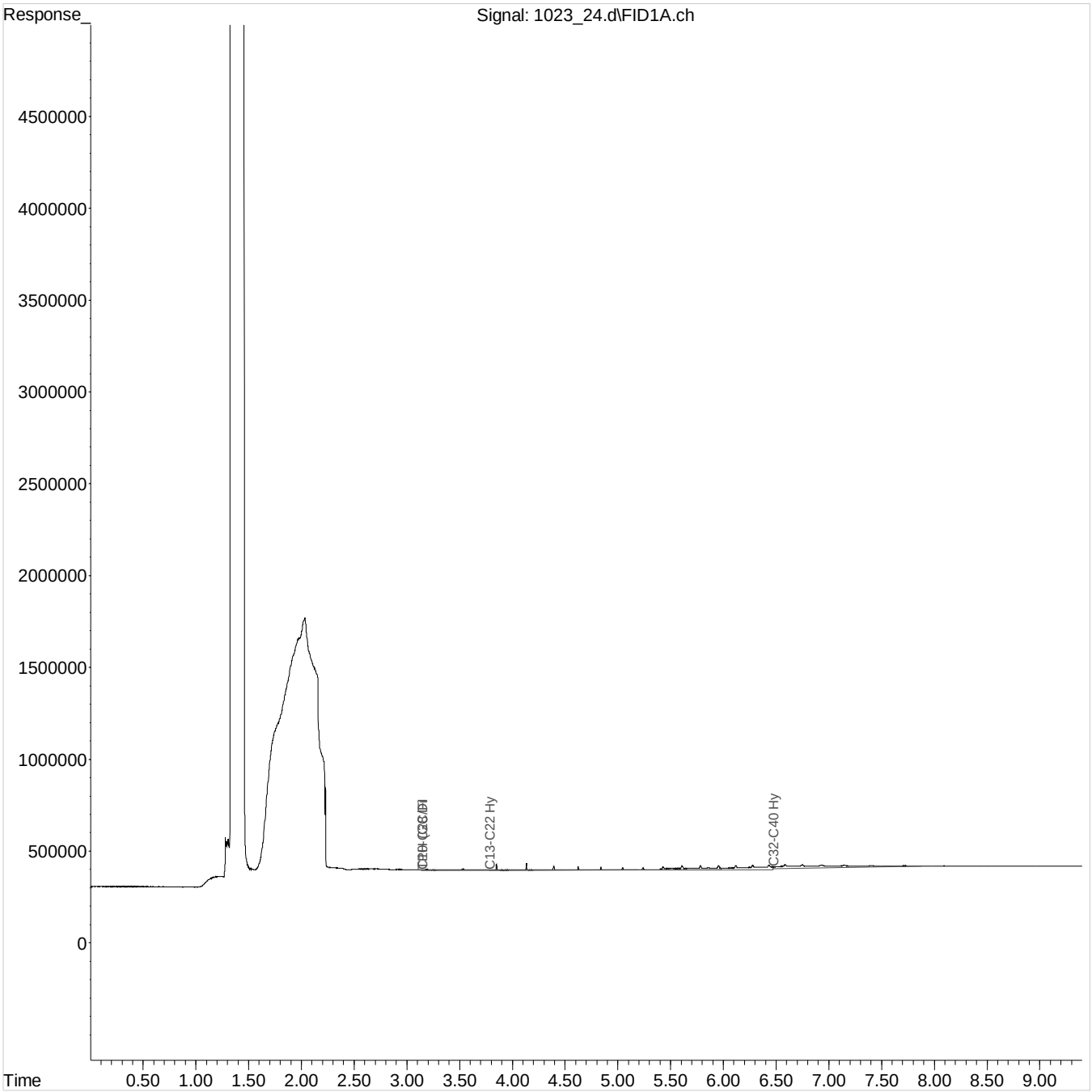
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\102314\
Data File : 1023 24.d
Signal(s) : FID1A.ch
Acq On : 23 Oct 2014 6:44 pm
Operator : 546
Sample : INSTBLK
Misc :
ALS Vial : 113 Sample Multiplier: 1

Integration File: events.e
Quant Time: Oct 24 08:10:42 2014
Quant Method : C:\msdchem\1\methods\EP31J22N.m
Quant Title :
QLast Update : Wed Oct 22 15:02:20 2014
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :



Instrument: SVGC31
Method: DR31J03N

Initial Calibration Run Log

File ID	Level ID	Date Analyzed
0513_03.d	2	5/13/2014 10:09:00 AM
0513_04.d	4	5/13/2014 10:29:00 AM
0513_05.d	10	5/13/2014 10:49:00 AM
0513_06.d	20	5/13/2014 11:09:00 AM
0513_09.d	40	5/13/2014 12:09:00 PM
0513_08.d	60	5/13/2014 11:49:00 AM
0513_10.d	100	5/13/2014 12:28:00 PM
0513_11.d	200	5/13/2014 12:47:00 PM

Environmental Science Corporation
12065 Lebanon Rd., Mt. Juliet, TN 37122

Injection Log

Instrument ID : SVGC31
Computer Name : SVCOMPBA

Released By : Jared N. Starkey
Date Released : 10/3/2014 10:01:17 AM

Run ID : 051314
Signature : _____

#	File ID	Sample ID	Method	WG	Product	Matrix	Account #	State	Dil.	Mult.	Injected	Misc.
1	0513_01	INSTBLK	DR31E13N						1	1	05/13/14 0929	" "
2	0513_02	LOC FL 68 PPM 14E05008	DR31E13N						1	1	05/13/14 0949	" "
3	0513_03	STD DRO 2 PPM 14D09595	DR31D13N						1	1	05/13/14 1009	" "
4	0513_04	STD DRO 4 PPM 14D09595	DR31D13N						1	1	05/13/14 1029	" "
5	0513_05	STD DRO 10 PPM 14D09595	DR31D13N						1	1	05/13/14 1049	" "
6	0513_06	STD DRO 20 PPM 14D09595	DR31D13N						1	1	05/13/14 1109	" "
7	0513_08	STD DRO 60 PPM 14D09595	DR31D13N						1	1	05/13/14 1149	" "
8	0513_09	STD DRO 40 PPM 14D09595	DR31D13N						1	1	05/13/14 1209	" "
9	0513_10	STD DRO 100 PPM 14D09595	DR31D13N						1	1	05/13/14 1228	" "
10	0513_11	STD DRO 200 PPM 14D09595	DR31D13N						1	1	05/13/14 1247	" "
11	0513_12	SSCV DRO 60 PPM 14D09596	DR31E13N						1	1	05/13/14 1307	" "
12	1002_02.d	LOC FL 68 PPM 14I16568	DR31J03N						1	1	10/02/14 1702	" "

Environmental Science Corporation
12065 Lebanon Rd., Mt. Juliet, TN 37122

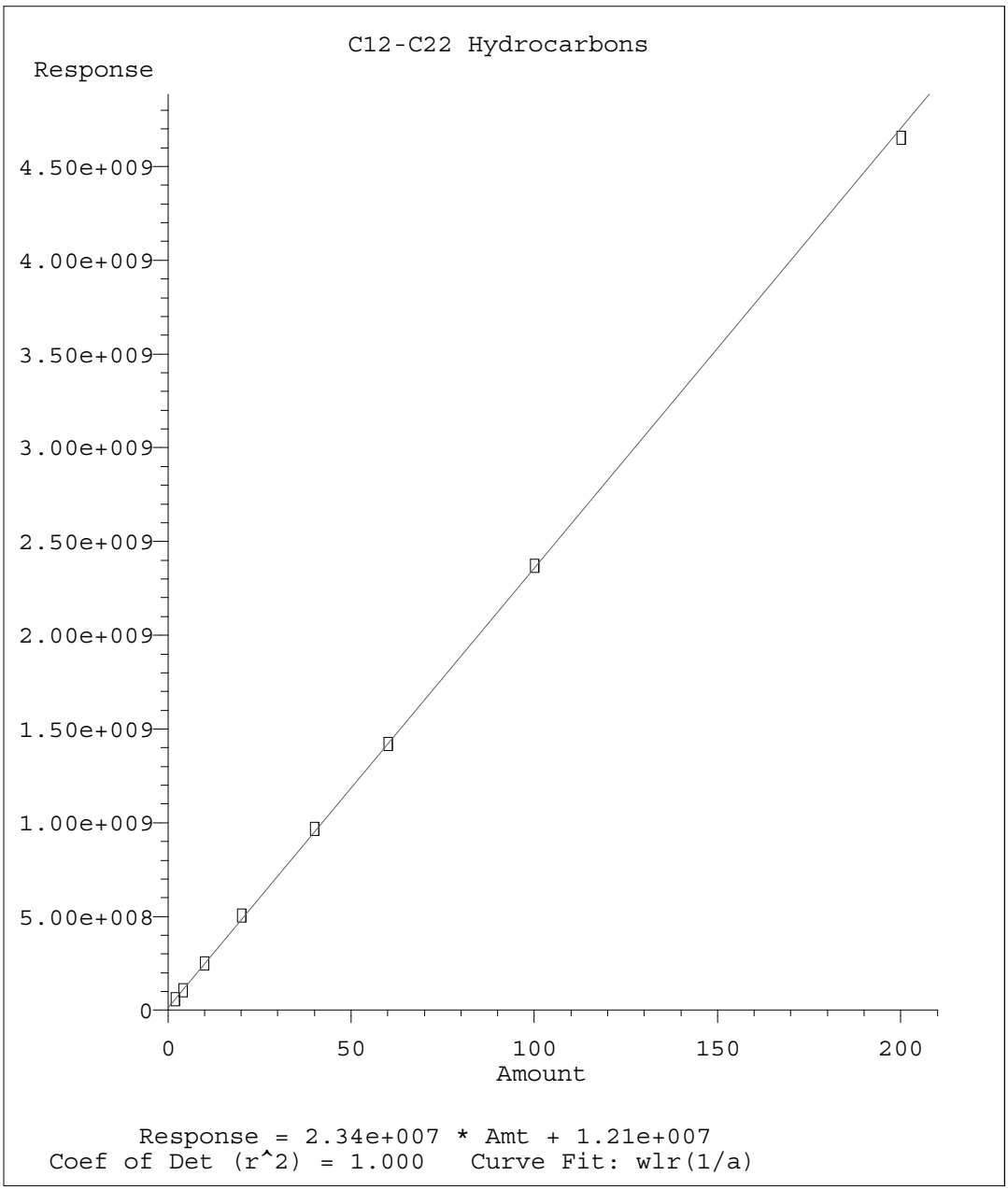
INITIAL CALIBRATION SUMMARY

Instrument ID	: SVGC31	Review Method	: LVI DRO	Released By	: Jared N. Starkey
Method	: DR31J03N	Review Protocol	: SW846	Released On	: 10/3/2014 10:01:17 AM

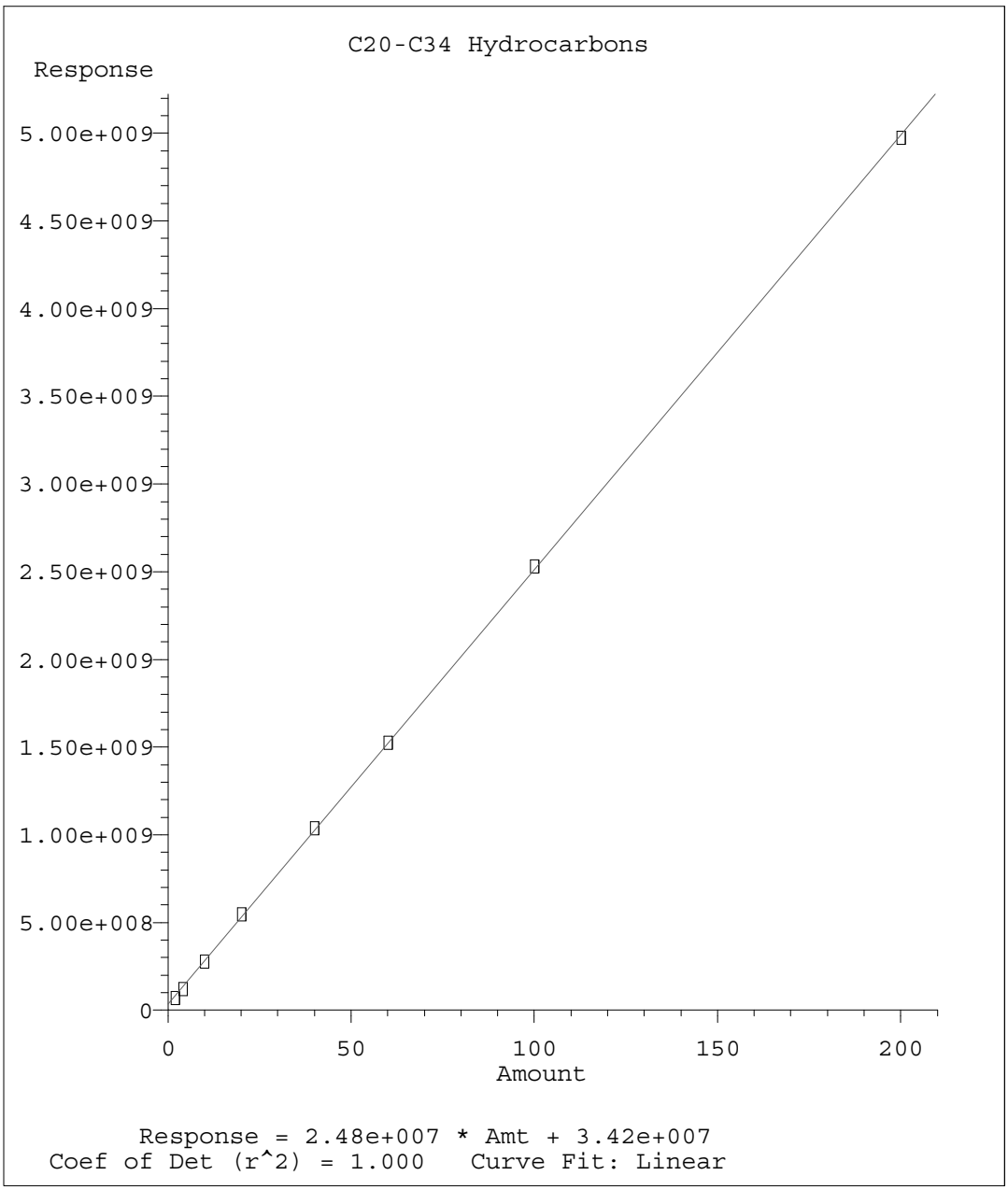
INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- DR31J03N -- ICal Updated Time: Fri Oct 03 09:44:00 2014

Parameter	2	4	10	20	40	60	100	200	AvgRF	%RSD	COD	Cur
TPH (GC/FID) HIGH FRACTION	3.239 E+07	2.885 E+07	2.727 E+07	2.718 E+07	2.583 E+07	2.525 E+07	2.524 E+07	2.481 E+07	2.7102 24E+07	9.34	1	0
C12-C22 Hydrocarbons	2.812 E+07	2.618 E+07	2.497 E+07	2.514 E+07	2.418 E+07	2.366 E+07	2.368 E+07	2.326 E+07	2.4895 94E+07	6.5	1	0
C10-C20 Hydrocarbons	3.42E +07	2.973 E+07	2.751 E+07	2.732 E+07	2.588 E+07	2.537 E+07	2.53E +07	2.486 E+07	2.7522 08E+07	11.39	0.114	1
C20-C34 Hydrocarbons	3.42E +07	2.973 E+07	2.751 E+07	2.732 E+07	2.588 E+07	2.537 E+07	2.53E +07	2.486 E+07	2.7522 08E+07	11.39	1	0
o-terphenyl	3.71E +07	3.575 E+07	3.448 E+07	3.381 E+07	3.384 E+07				3.4994 97E+07	4.04	0.04	1

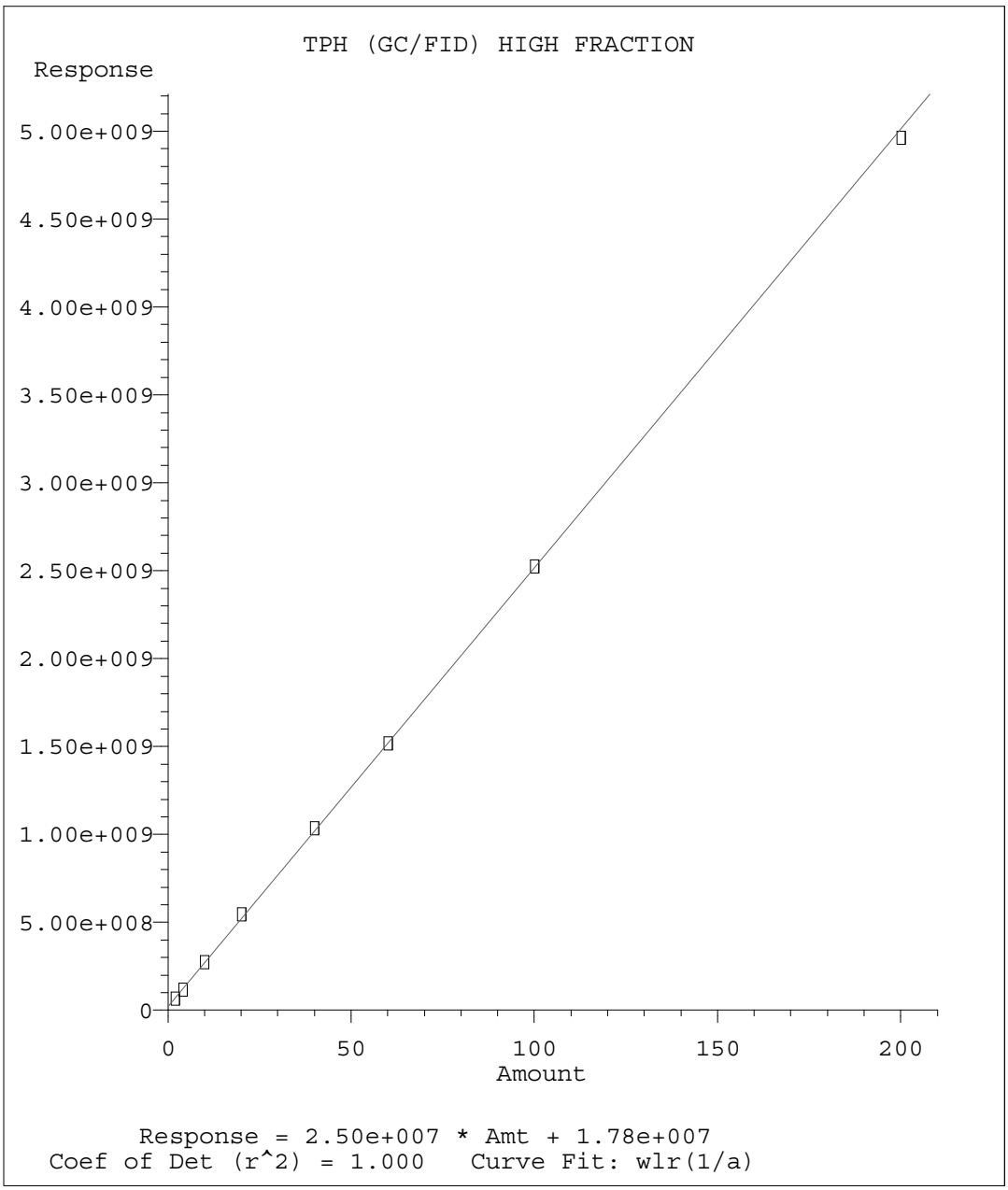
PDF Generated On: 10/03/2014 -- By: Jared N. Starkey



Method Name: C:\msdchem\1\methods\DR31J03N.m



Method Name: C:\msdchem\1\methods\DR31J03N.m



Method Name: C:\msdchem\1\methods\DR31J03N.m

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\051314\
Data File : 0513 02.d
Signal(s) : FID1A.ch
Acq On : 13 May 2014 9:49 am
Operator :
Sample : LOC FL 68 PPM 14E05008
Misc :
ALS Vial : 2 Sample Multiplier: 1

Integration File: events.e
Quant Time: May 13 14:37:55 2014
Quant Method : C:\msdchem\1\methods\DR31E13N.m
Quant Title : DROLVI
QLast Update : Tue May 13 13:00:13 2014
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :

Compound	R.T.	Response	Conc	Units
System Monitoring Compounds				
5) s o-terphenyl	0.00	0	N.D.	ppm
Spiked Amount 0.0200 Range 50 - 150 Recovery = 0.00%#				
Target Compounds				
1) t,h,m TPH (GC/FID) HIGH FRA...	3.23	1077216284	42.4242477	ppm
2) h,m C12-C22 Hydrocarbons	3.69	687962918	28.8259099	ppm
3) h,m C10-C20 Hydrocarbons	3.23	605681862	22.0071255	ppm
4) h,m C20-C34 Hydrocarbons	5.02	818196182	31.6646733	ppm

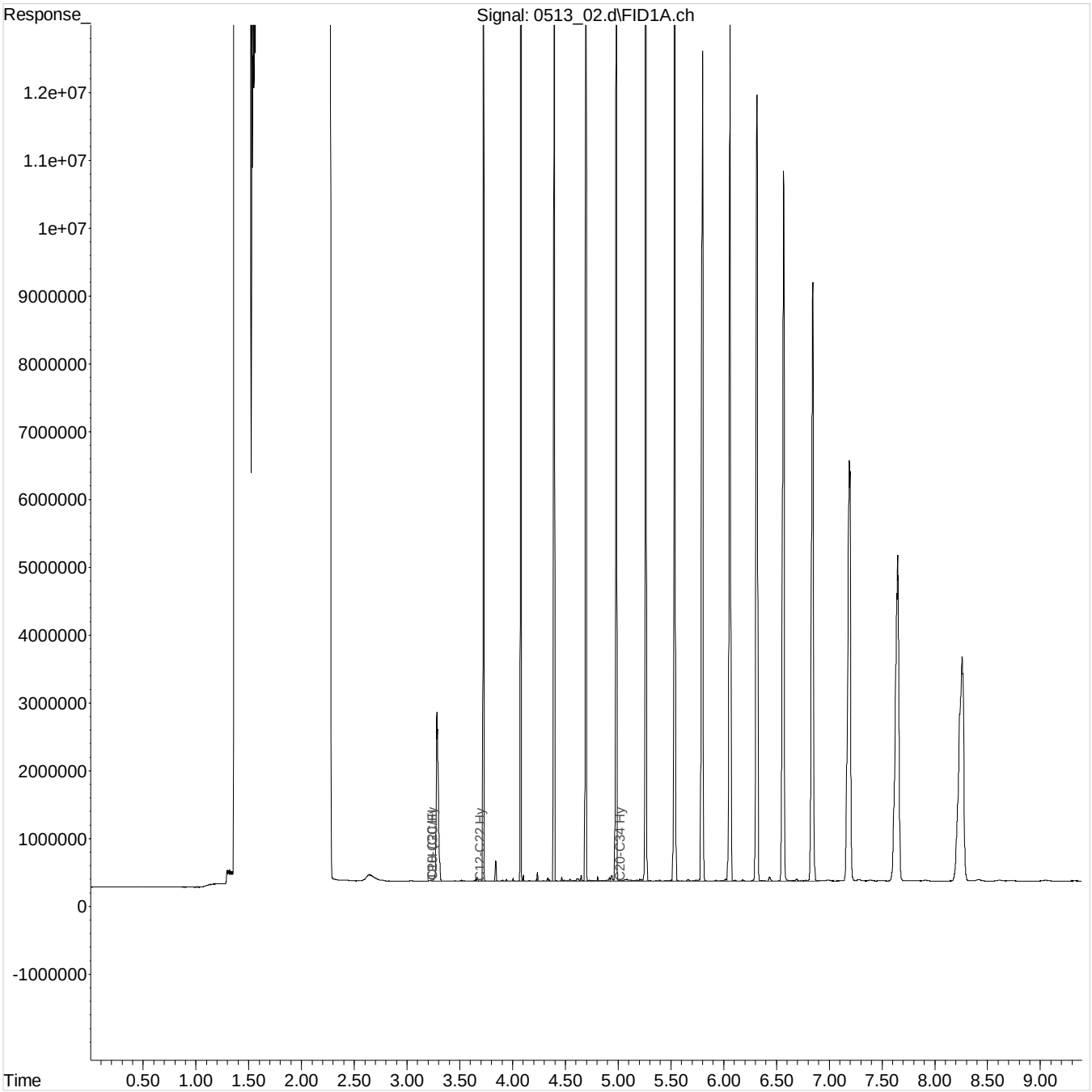
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\051314\
Data File : 0513 02.d
Signal(s) : FID1A.ch
Acq On : 13 May 2014 9:49 am
Operator :
Sample : LOC FL 68 PPM 14E05008
Misc :
ALS Vial : 2 Sample Multiplier: 1

Integration File: events.e
Quant Time: May 13 14:37:55 2014
Quant Method : C:\msdchem\1\methods\DR31E13N.m
Quant Title : DROLVI
QLast Update : Tue May 13 13:00:13 2014
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :

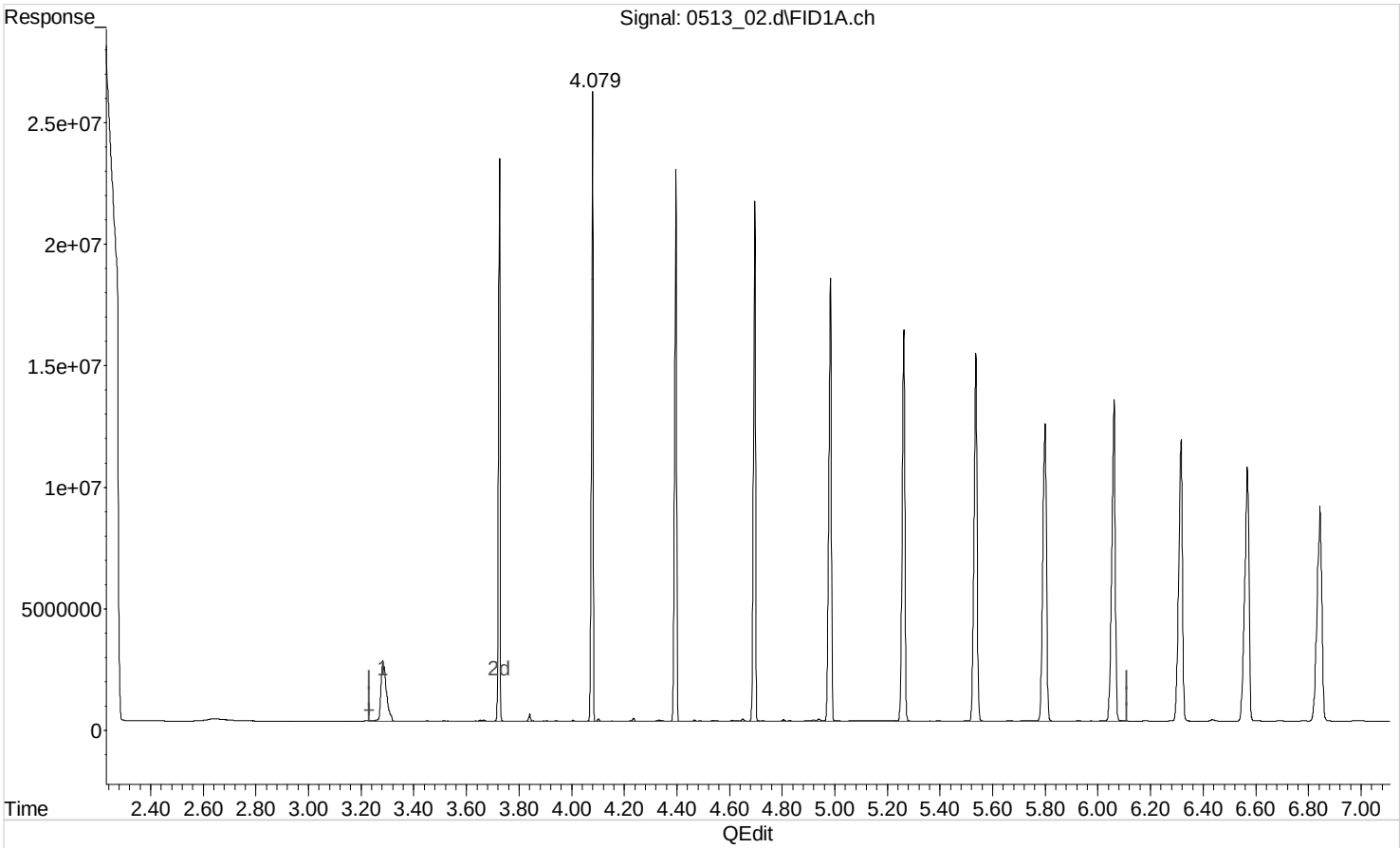


Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\051314\
Data File : 0513 02.d
Signal(s) : FID1A.ch
Acq On : 13 May 2014 9:49 am
Operator :
Sample : LOC FL 68 PPM 14E05008
Misc :
ALS Vial : 2 Sample Multiplier: 1

Integration File: events.e
Quant Time: May 13 14:37:55 2014
Quant Method : C:\msdchem\1\methods\DR31E13N.m
Quant Title : DROLVI
QLast Update : Tue May 13 13:00:13 2014
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :



(1) TPH (GC/FID) HIGH FRACTION (t,h,m)

3.230min 42.4242477 ppm m

response 1077216284

(+) = Expected Retention Time

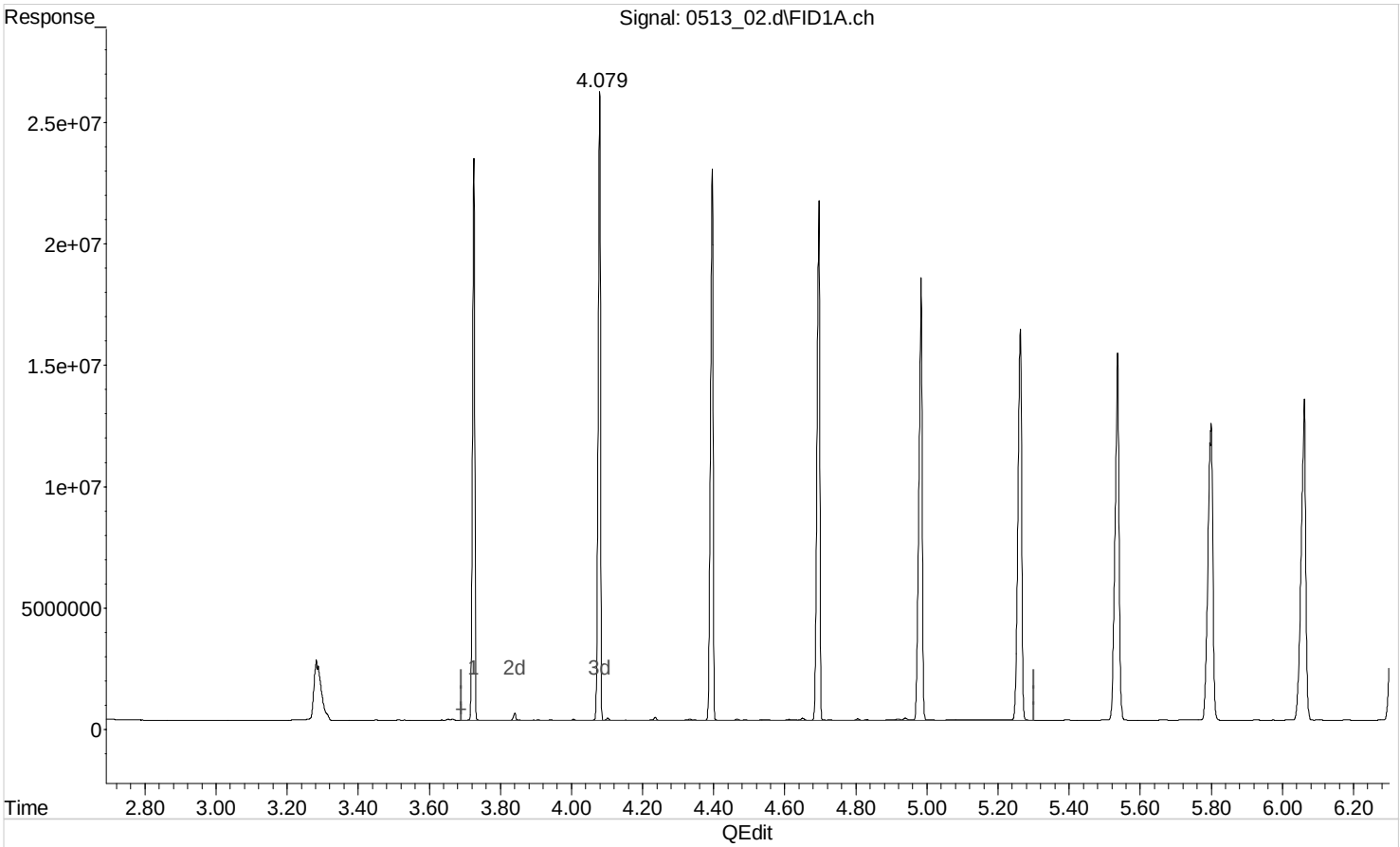
DR31E13N.m Tue May 13 14:37:58 2014 Page: 1

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\051314\
Data File : 0513 02.d
Signal(s) : FID1A.ch
Acq On : 13 May 2014 9:49 am
Operator :
Sample : LOC FL 68 PPM 14E05008
Misc :
ALS Vial : 2 Sample Multiplier: 1

Integration File: events.e
Quant Time: May 13 14:37:55 2014
Quant Method : C:\msdchem\1\methods\DR31E13N.m
Quant Title : DROLVI
QLast Update : Tue May 13 13:00:13 2014
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :



(2) C12-C22 Hydrocarbons (h,m)

3.690min 28.8259099 ppm m

response 687962918

(+) = Expected Retention Time

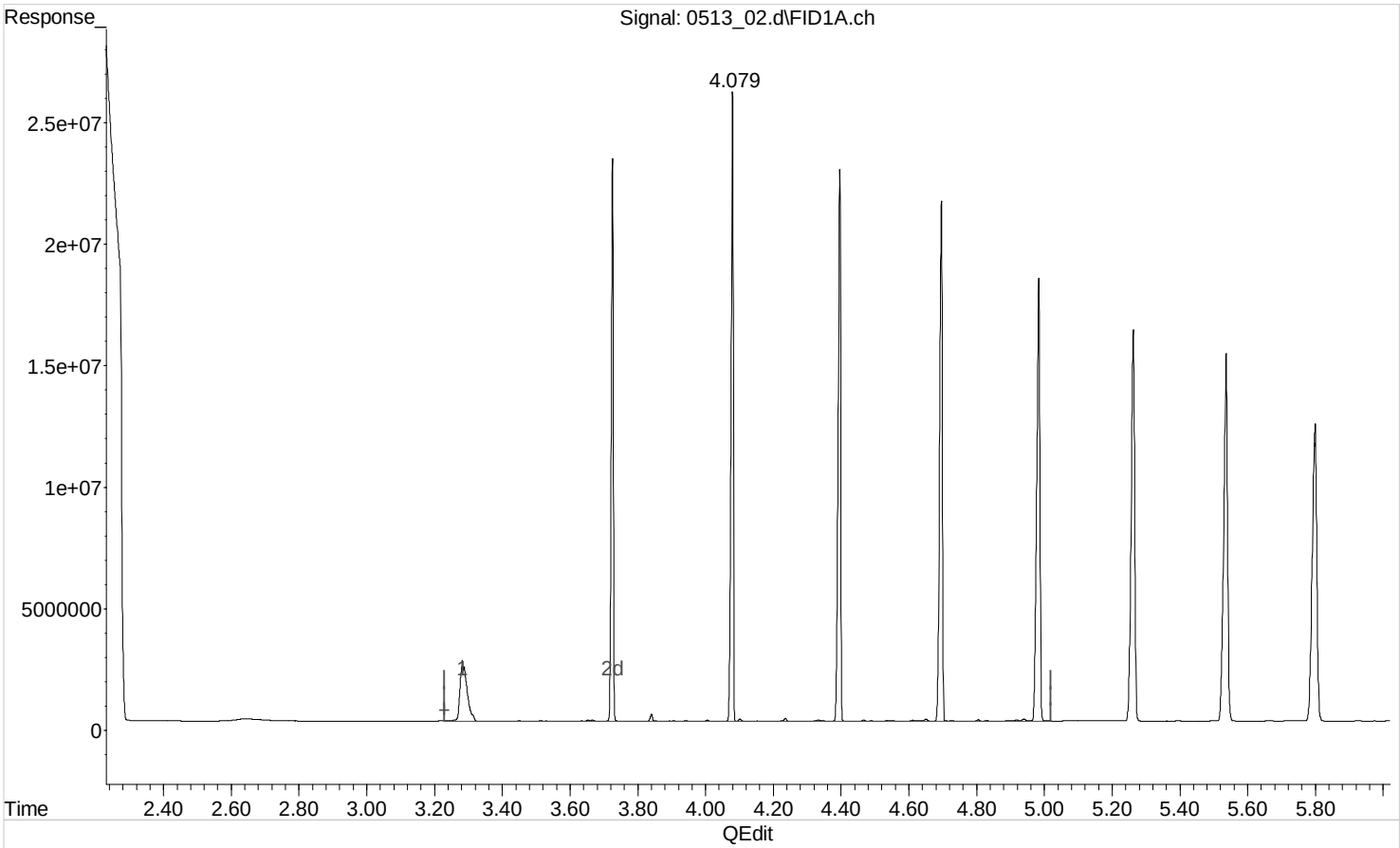
DR31E13N.m Tue May 13 14:38:01 2014 Page: 1

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\051314\
Data File : 0513 02.d
Signal(s) : FID1A.ch
Acq On : 13 May 2014 9:49 am
Operator :
Sample : LOC FL 68 PPM 14E05008
Misc :
ALS Vial : 2 Sample Multiplier: 1

Integration File: events.e
Quant Time: May 13 14:37:55 2014
Quant Method : C:\msdchem\1\methods\DR31E13N.m
Quant Title : DROLVI
QLast Update : Tue May 13 13:00:13 2014
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :



(3) C10-C20 Hydrocarbons (h,m)

3.230min 22.0071255 ppm m

response 605681862

(+) = Expected Retention Time

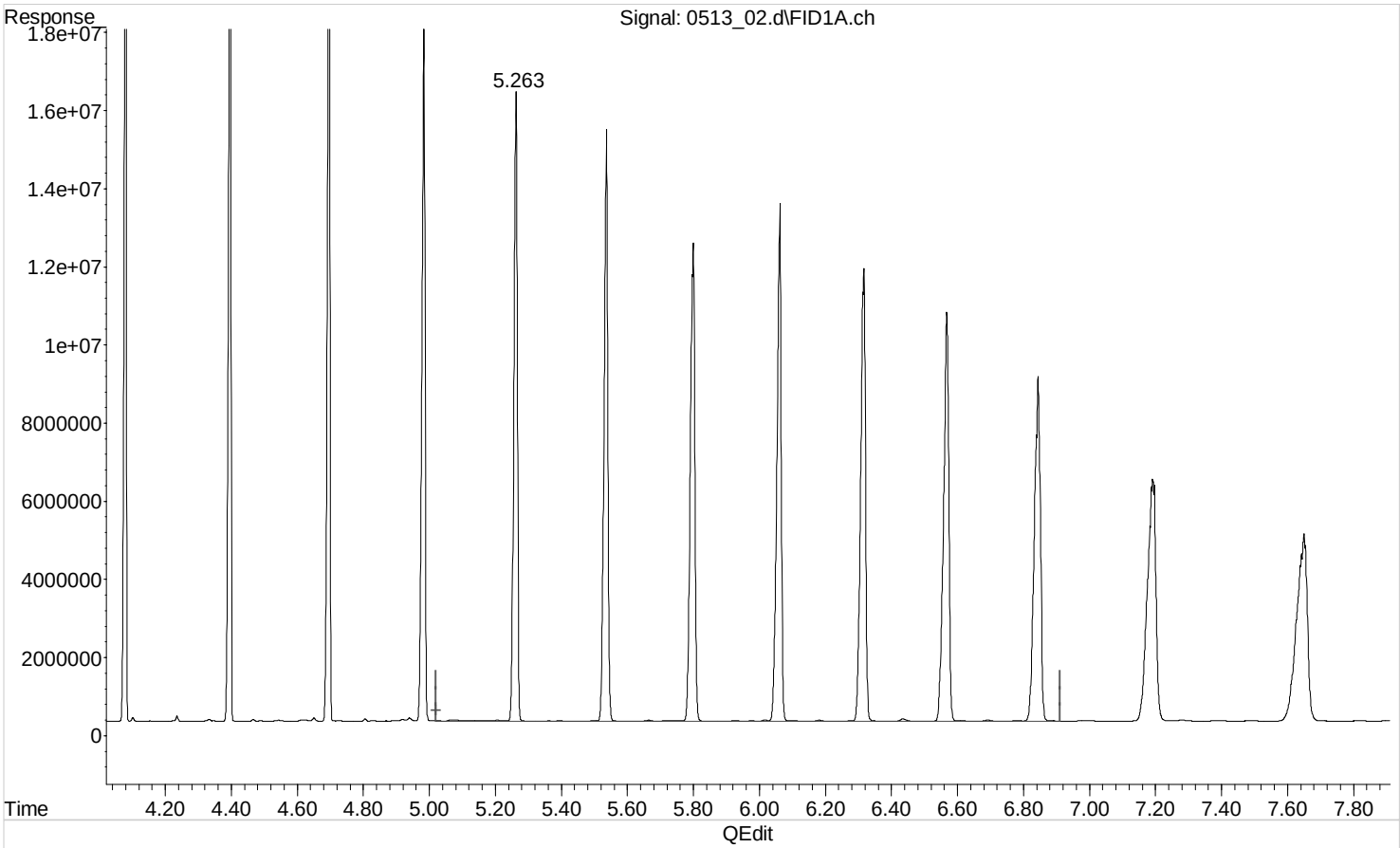
DR31E13N.m Tue May 13 14:38:03 2014 Page: 1

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\051314\
Data File : 0513 02.d
Signal(s) : FID1A.ch
Acq On : 13 May 2014 9:49 am
Operator :
Sample : LOC FL 68 PPM 14E05008
Misc :
ALS Vial : 2 Sample Multiplier: 1

Integration File: events.e
Quant Time: May 13 14:37:55 2014
Quant Method : C:\msdchem\1\methods\DR31E13N.m
Quant Title : DROLVI
QLast Update : Tue May 13 13:00:13 2014
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :



(4) C20-C34 Hydrocarbons (h,m)

5.020min 31.6646733 ppm m

response 818196182

(+) = Expected Retention Time

DR31E13N.m Tue May 13 14:38:05 2014 Page: 1

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\100214\
Data File : 1002 02.d
Signal(s) : FID1A.ch
Acq On : 2 Oct 2014 5:02 pm
Operator : 546
Sample : LOC FL 68 PPM 14I16568
Misc :
ALS Vial : 2 Sample Multiplier: 1

Integration File: events.e
Quant Time: Oct 03 09:57:57 2014
Quant Method : C:\msdchem\1\methods\DR31J03N.m
Quant Title : DROLVI
QLast Update : Fri Oct 03 09:44:00 2014
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :

Compound	R.T.	Response	Conc	Units
System Monitoring Compounds				
5) s o-terphenyl	0.00	0	N.D.	ppm
Spiked Amount 0.0200	Range 50 - 150	Recovery =	0.00%#	
Target Compounds				
1) t,h,m TPH (GC/FID) HIGH FRA...	3.13	1114879511	43.9324942	ppm
2) h,m C12-C22 Hydrocarbons	3.60	718369114	30.1228093	ppm
3) h,m C10-C20 Hydrocarbons	3.13	615701872	22.3711972	ppm
4) h,m C20-C34 Hydrocarbons	4.93	845488877	32.7669734	ppm

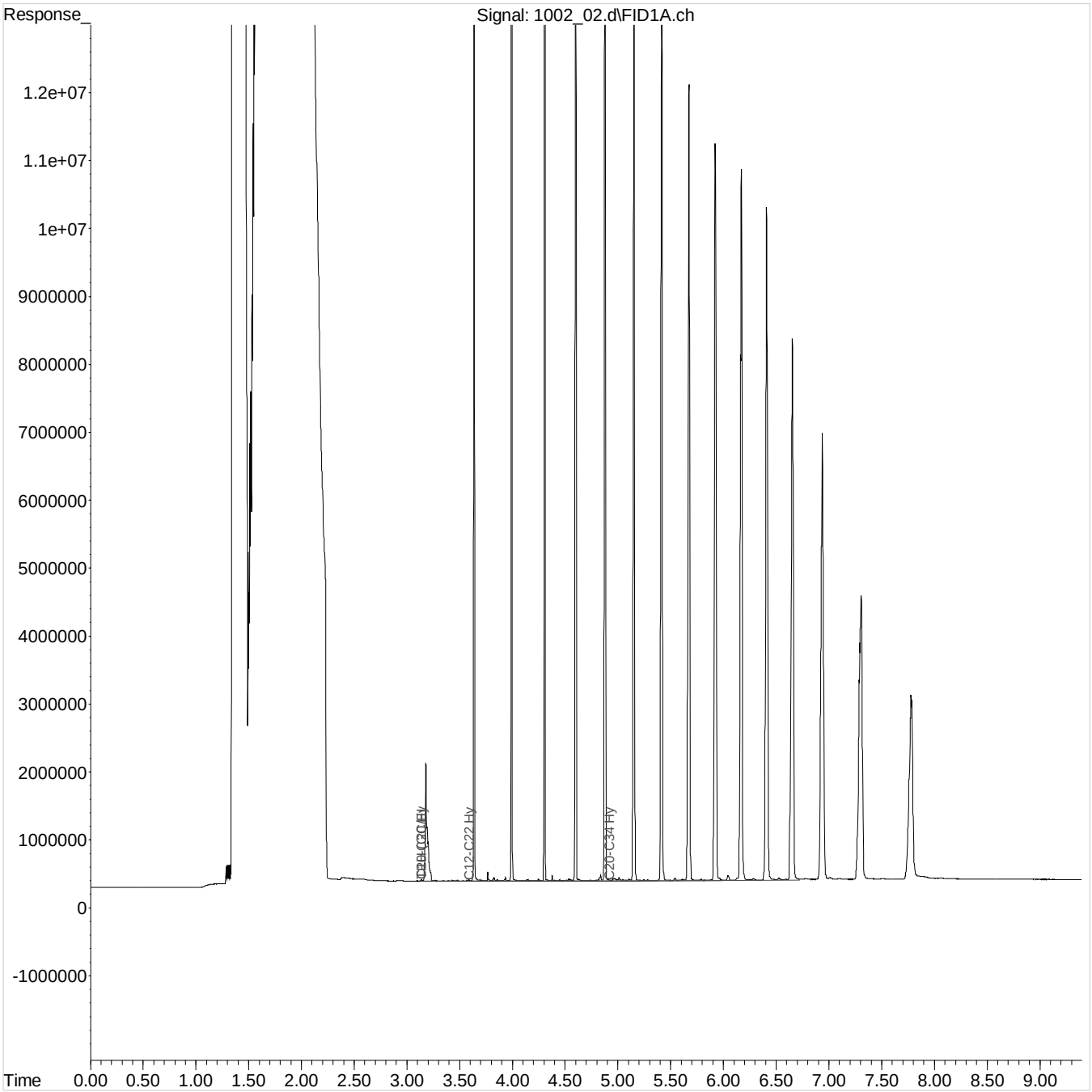
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\100214\
Data File : 1002 02.d
Signal(s) : FID1A.ch
Acq On : 2 Oct 2014 5:02 pm
Operator : 546
Sample : LOC FL 68 PPM 14I16568
Misc :
ALS Vial : 2 Sample Multiplier: 1

Integration File: events.e
Quant Time: Oct 03 09:57:57 2014
Quant Method : C:\msdchem\1\methods\DR31J03N.m
Quant Title : DROLVI
QLast Update : Fri Oct 03 09:44:00 2014
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :

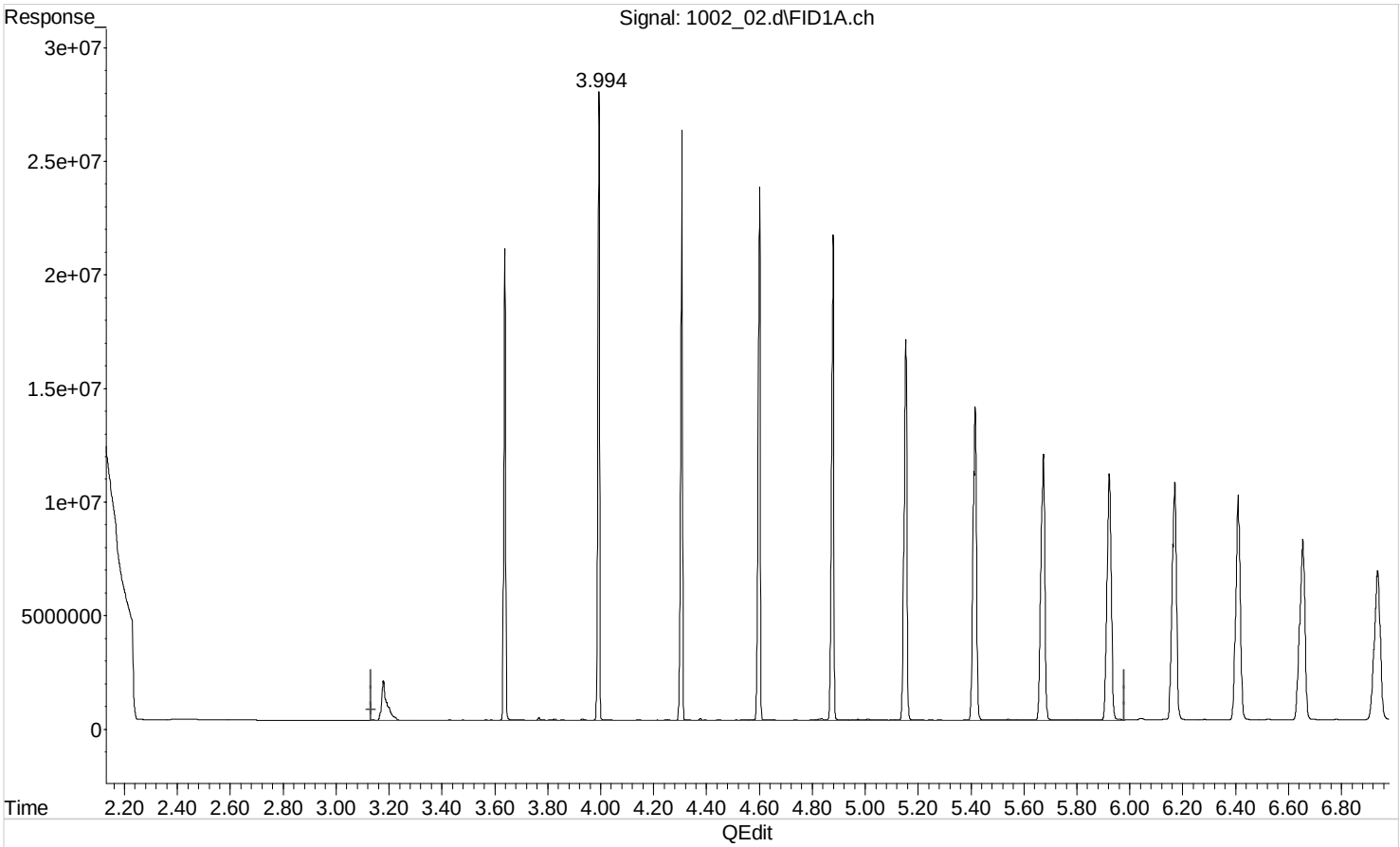


Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\100214\
Data File : 1002 02.d
Signal(s) : FID1A.ch
Acq On : 2 Oct 2014 5:02 pm
Operator : 546
Sample : LOC FL 68 PPM 14I16568
Misc :
ALS Vial : 2 Sample Multiplier: 1

Integration File: events.e
Quant Time: Oct 03 09:57:57 2014
Quant Method : C:\msdchem\1\methods\DR31J03N.m
Quant Title : DROLVI
QLast Update : Fri Oct 03 09:44:00 2014
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :



(1) TPH (GC/FID) HIGH FRACTION (t,h,m)

3.130min 43.9324942 ppm m

response 1114879511

(+) = Expected Retention Time

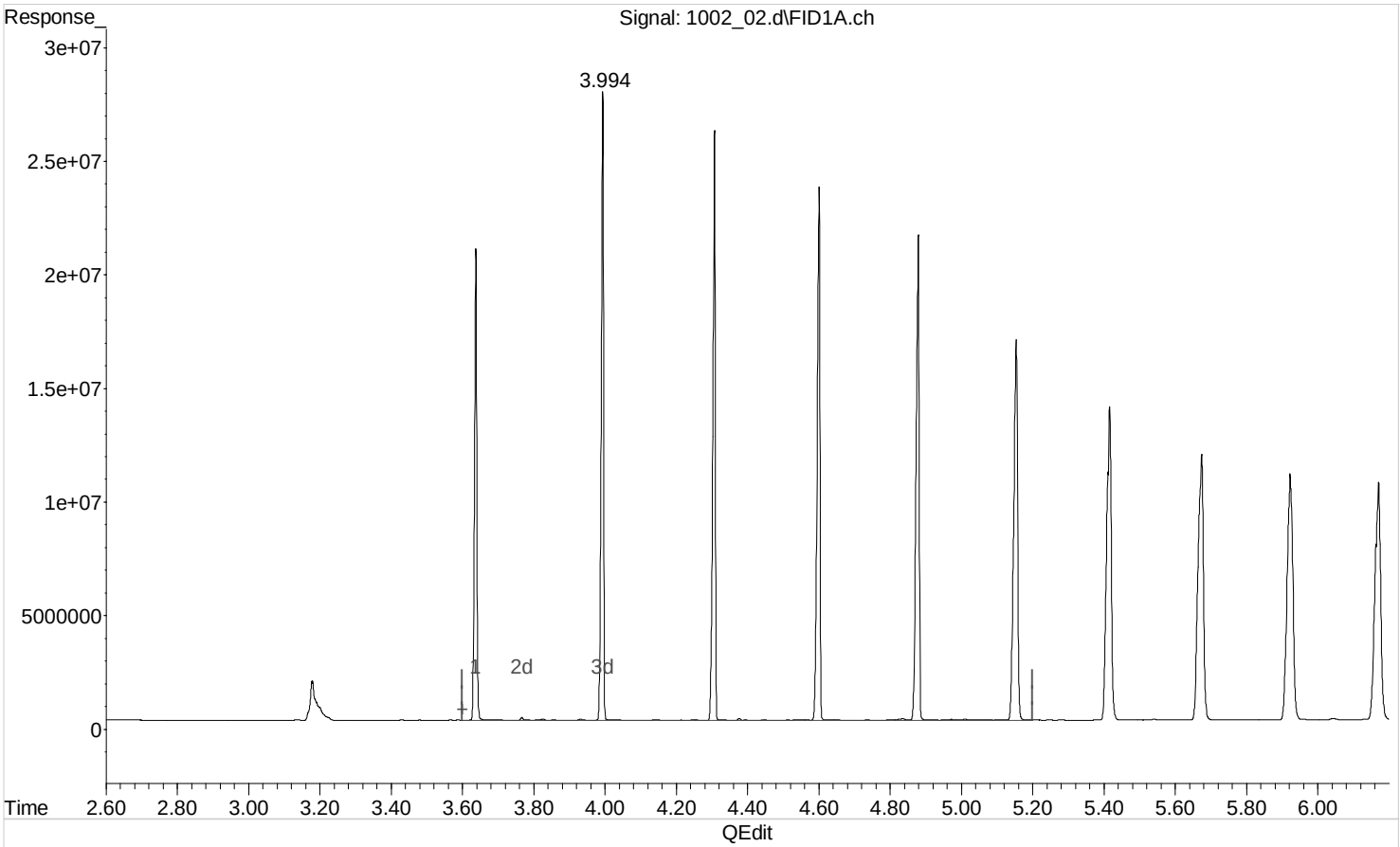
DR31J03N.m Fri Oct 03 10:00:45 2014 Page: 1

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\100214\
Data File : 1002 02.d
Signal(s) : FID1A.ch
Acq On : 2 Oct 2014 5:02 pm
Operator : 546
Sample : LOC FL 68 PPM 14I16568
Misc :
ALS Vial : 2 Sample Multiplier: 1

Integration File: events.e
Quant Time: Oct 03 09:57:57 2014
Quant Method : C:\msdchem\1\methods\DR31J03N.m
Quant Title : DROLVI
QLast Update : Fri Oct 03 09:44:00 2014
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :



(2) C12-C22 Hydrocarbons (h,m)

3.600min 30.1228093 ppm m

response 718369114

(+) = Expected Retention Time

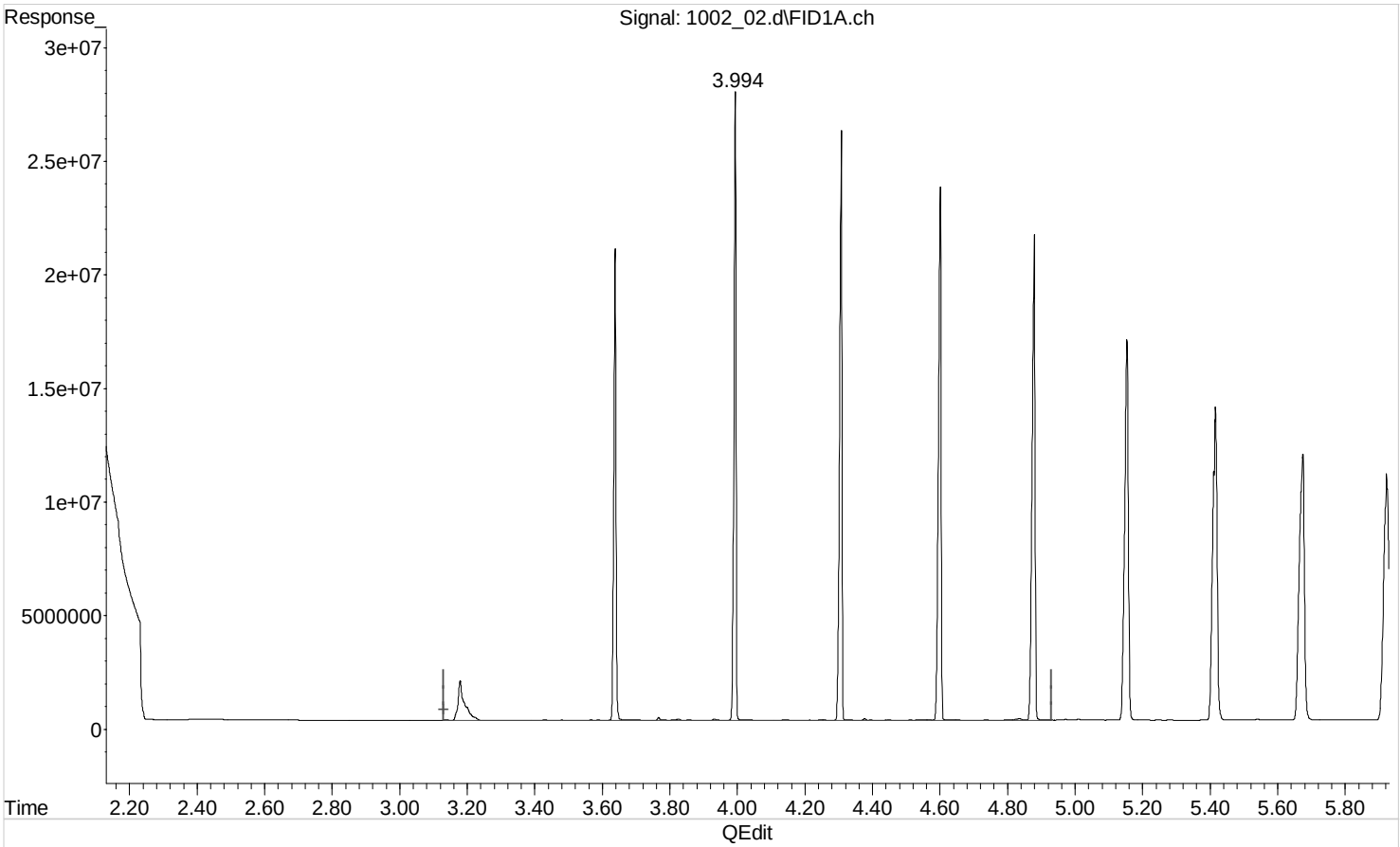
DR31J03N.m Fri Oct 03 10:00:48 2014 Page: 1

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\100214\
Data File : 1002 02.d
Signal(s) : FID1A.ch
Acq On : 2 Oct 2014 5:02 pm
Operator : 546
Sample : LOC FL 68 PPM 14I16568
Misc :
ALS Vial : 2 Sample Multiplier: 1

Integration File: events.e
Quant Time: Oct 03 09:57:57 2014
Quant Method : C:\msdchem\1\methods\DR31J03N.m
Quant Title : DROLVI
QLast Update : Fri Oct 03 09:44:00 2014
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :



(3) C10-C20 Hydrocarbons (h,m)

3.130min 22.3711972 ppm m

response 615701872

(+) = Expected Retention Time

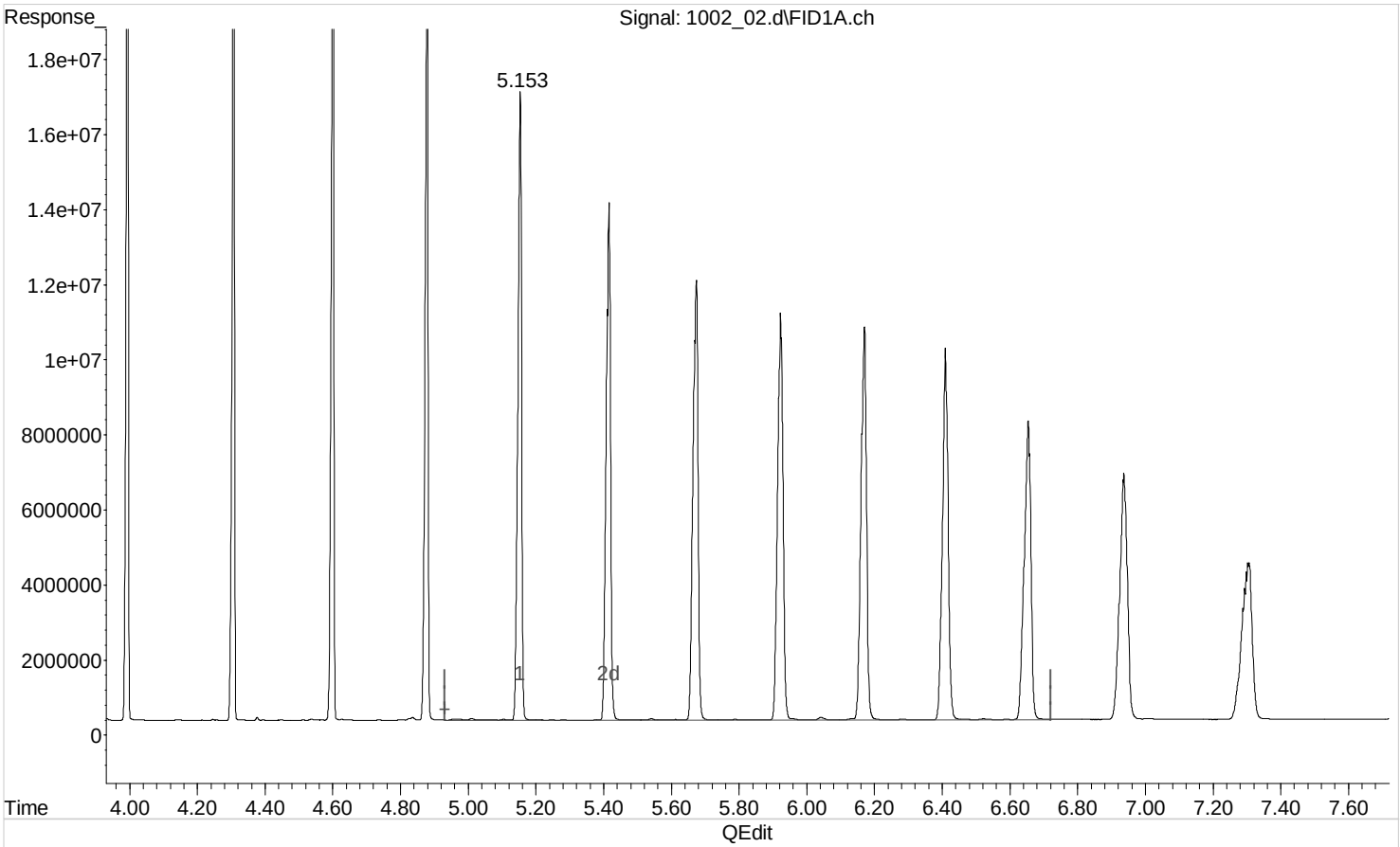
DR31J03N.m Fri Oct 03 10:00:51 2014 Page: 1

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\100214\
Data File : 1002 02.d
Signal(s) : FID1A.ch
Acq On : 2 Oct 2014 5:02 pm
Operator : 546
Sample : LOC FL 68 PPM 14I16568
Misc :
ALS Vial : 2 Sample Multiplier: 1

Integration File: events.e
Quant Time: Oct 03 09:57:57 2014
Quant Method : C:\msdchem\1\methods\DR31J03N.m
Quant Title : DROLVI
QLast Update : Fri Oct 03 09:44:00 2014
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :



(4) C20-C34 Hydrocarbons (h,m)

4.930min 32.7669734 ppm m

response 845488877

(+) = Expected Retention Time

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\051314\
Data File : 0513 01.d
Signal(s) : FID1A.ch
Acq On : 13 May 2014 9:29 am
Operator :
Sample : INSTBLK
Misc :
ALS Vial : 1 Sample Multiplier: 1

Integration File: events.e
Quant Time: May 13 14:37:47 2014
Quant Method : C:\msdchem\1\methods\DR31E13N.m
Quant Title : DROLVI
QLast Update : Tue May 13 13:00:13 2014
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :

Compound	R.T.	Response	Conc	Units
System Monitoring Compounds				
5) s o-terphenyl	0.00	0	N.D.	ppm
Spiked Amount 0.0200 Range 50 - 150 Recovery = 0.00%#				
Target Compounds				
1) t,h,m TPH (GC/FID) HIGH FRA...	3.23	7329603	N.D.	ppm
2) h,m C12-C22 Hydrocarbons	3.69	5370577	N.D.	ppm
3) h,m C10-C20 Hydrocarbons	3.23	5376015	0.1953346	ppm
4) h,m C20-C34 Hydrocarbons	5.02	3413470	N.D.	ppm

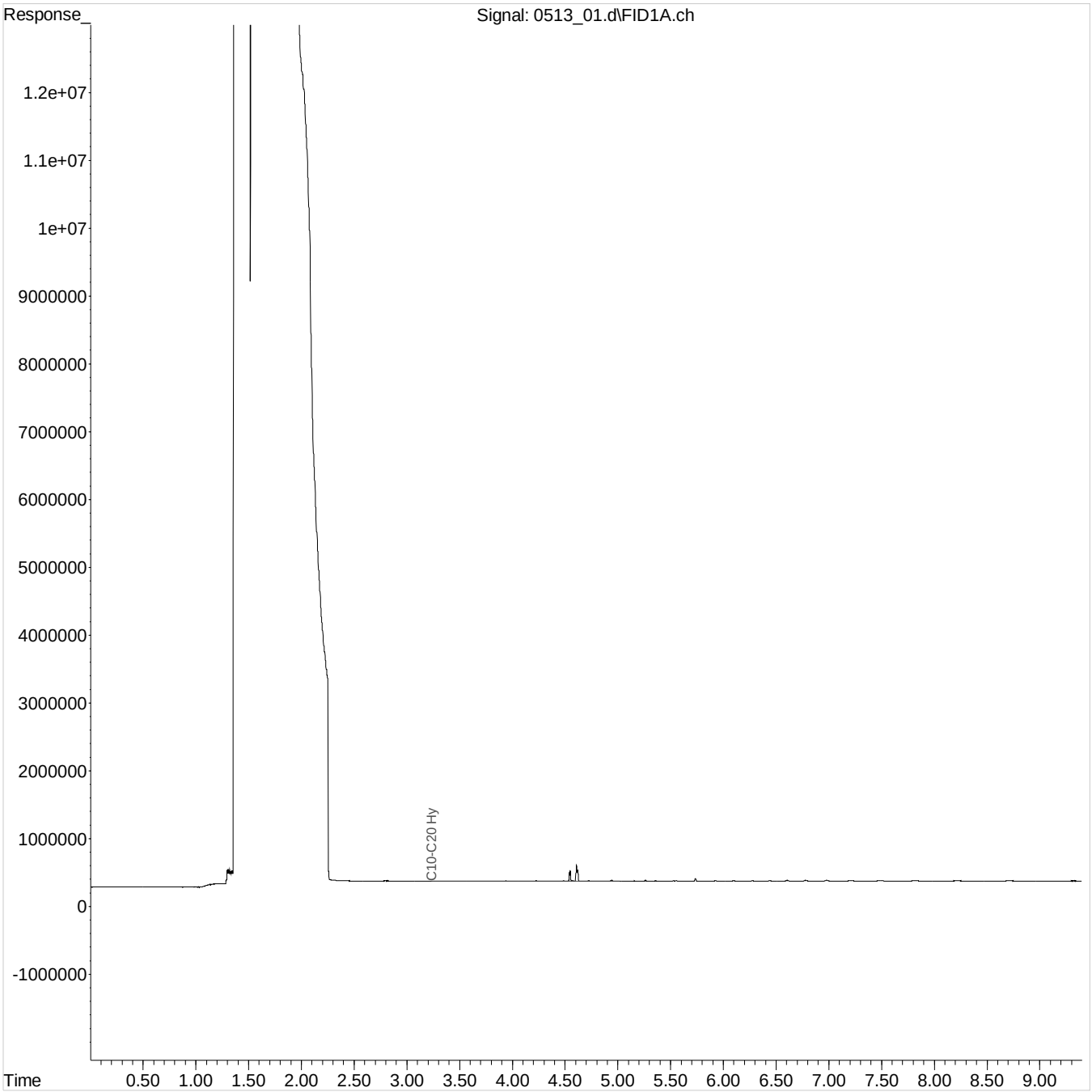
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\051314\
Data File : 0513 01.d
Signal(s) : FID1A.ch
Acq On : 13 May 2014 9:29 am
Operator :
Sample : INSTBLK
Misc :
ALS Vial : 1 Sample Multiplier: 1

Integration File: events.e
Quant Time: May 13 14:37:47 2014
Quant Method : C:\msdchem\1\methods\DR31E13N.m
Quant Title : DROLVI
QLast Update : Tue May 13 13:00:13 2014
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\051314\
Data File : 0513 01.d
Signal(s) : FID1A.ch
Acq On : 13 May 2014 9:29 am
Operator :
Sample : INSTBLK
Misc :
ALS Vial : 1 Sample Multiplier: 1

Integration File: events.e
Quant Time: May 13 14:37:47 2014
Quant Method : C:\msdchem\1\methods\DR31E13N.m
Quant Title : DROLVI
QLast Update : Tue May 13 13:00:13 2014
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :

Compound	R.T.	Response	Conc	Units
System Monitoring Compounds				
5) s o-terphenyl	0.00	0	N.D.	ppm
Spiked Amount 0.0200 Range 50 - 150 Recovery = 0.00%#				
Target Compounds				
1) t,h,m TPH (GC/FID) HIGH FRA...	3.23	7329603	N.D.	ppm
2) h,m C12-C22 Hydrocarbons	3.69	5370577	N.D.	ppm
3) h,m C10-C20 Hydrocarbons	3.23	5376015	0.1953346	ppm
4) h,m C20-C34 Hydrocarbons	5.02	3413470	N.D.	ppm

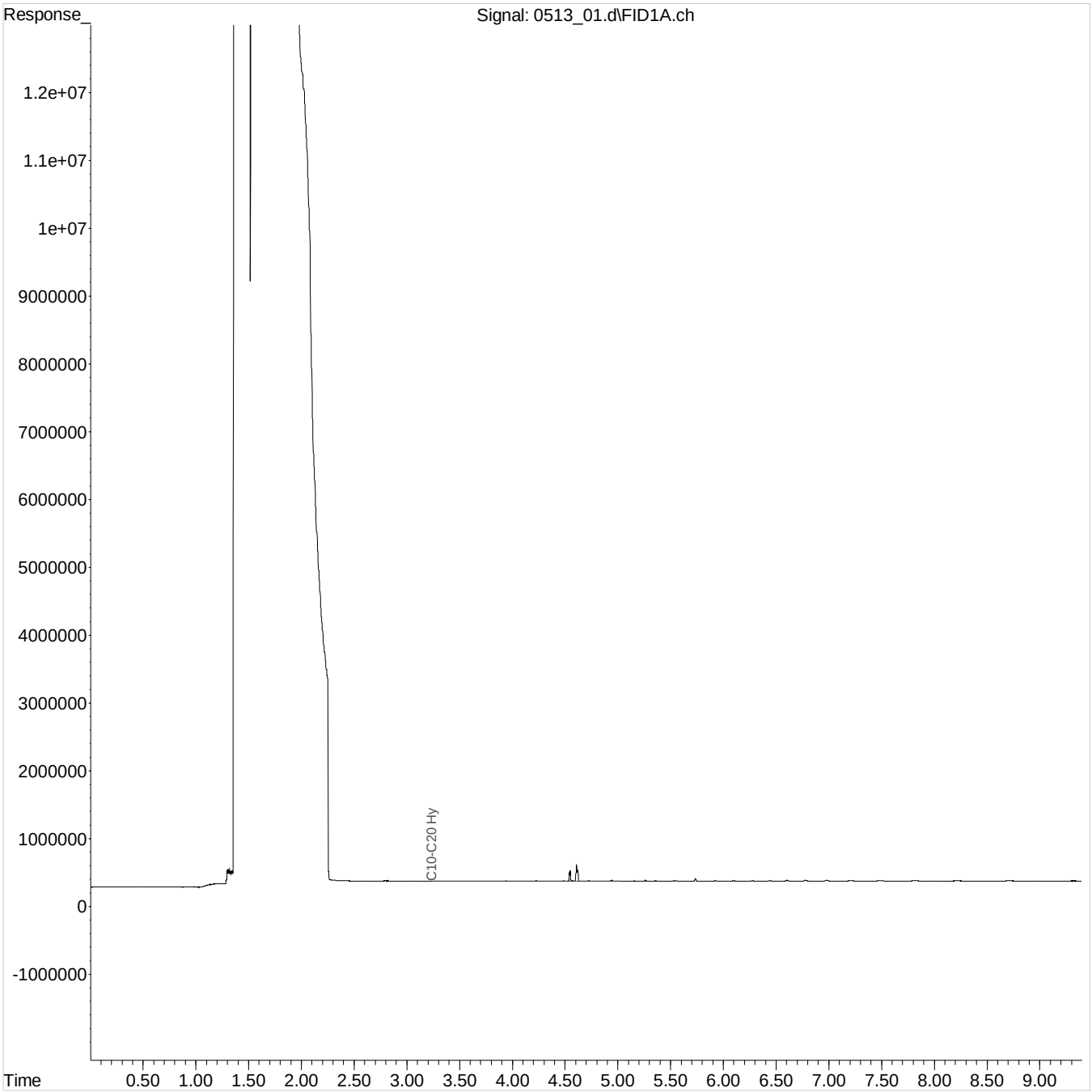
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\051314\
Data File : 0513 01.d
Signal(s) : FID1A.ch
Acq On : 13 May 2014 9:29 am
Operator :
Sample : INSTBLK
Misc :
ALS Vial : 1 Sample Multiplier: 1

Integration File: events.e
Quant Time: May 13 14:37:47 2014
Quant Method : C:\msdchem\1\methods\DR31E13N.m
Quant Title : DROLVI
QLast Update : Tue May 13 13:00:13 2014
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\051314\
Data File : 0513 12.d
Signal(s) : FID1A.ch
Acq On : 13 May 2014 1:07 pm
Operator :
Sample : SSCV DRO 60 PPM 14D09596
Misc :
ALS Vial : 11 Sample Multiplier: 1

Integration File: events.e
Quant Time: May 13 14:31:27 2014
Quant Method : C:\msdchem\1\methods\DR31E13N.m
Quant Title : DROLVI
QLast Update : Tue May 13 13:00:13 2014
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :

Compound	R.T.	Response	Conc	Units
System Monitoring Compounds				
5) s o-terphenyl	0.00	0	N.D.	ppm d
Spiked Amount 0.0200 Range 50 - 150 Recovery = 0.00%#				
Target Compounds				
1) t,h,m TPH (GC/FID) HIGH FRA...	3.23	1445979727	57.1915999	ppm
2) h,m C12-C22 Hydrocarbons	3.69	1344838574	56.8432787	ppm
3) h,m C10-C20 Hydrocarbons	3.23	1283423065	46.6324886	ppm
4) h,m C20-C34 Hydrocarbons	5.02	164300442	5.2550663	ppm

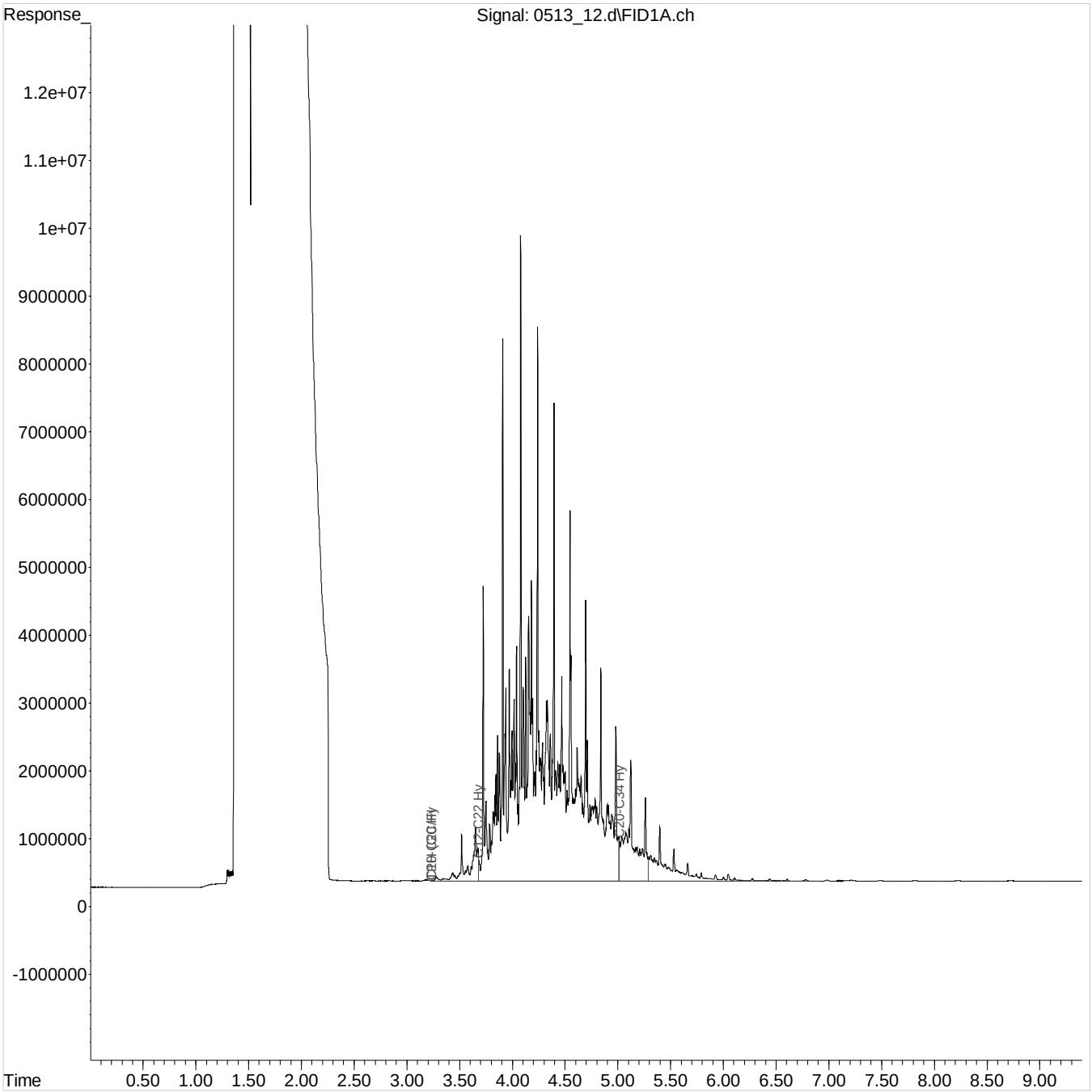
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\051314\
Data File : 0513 12.d
Signal(s) : FID1A.ch
Acq On : 13 May 2014 1:07 pm
Operator :
Sample : SSCV DRO 60 PPM 14D09596
Misc :
ALS Vial : 11 Sample Multiplier: 1

Integration File: events.e
Quant Time: May 13 14:31:27 2014
Quant Method : C:\msdchem\1\methods\DR31E13N.m
Quant Title : DROLVI
QLast Update : Tue May 13 13:00:13 2014
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\051314\
Data File : 0513 03.d
Signal(s) : FID1A.ch
Acq On : 13 May 2014 10:09 am
Operator :
Sample : STD DRO 2 PPM 14D09595
Misc :
ALS Vial : 3 Sample Multiplier: 1

Integration File: events.e
Quant Time: May 13 11:56:10 2014
Quant Method : C:\msdchem\1\methods\DR31D13N.m
Quant Title : DROLVI
QLast Update : Thu Apr 10 10:13:36 2014
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :

Compound	R.T.	Response	Conc	Units	
System Monitoring Compounds					
5) s o-terphenyl	4.87	3709890	0.1071637	ppm	m
Spiked Amount 0.0200 Range 50 - 150		Recovery	= 535.82%#		
Target Compounds					
1) t,h,m TPH (GC/FID) HIGH FRA...	3.23	64788228	1.9223654	ppm	
2) h,m C12-C22 Hydrocarbons	3.69	56242258	2.0612306	ppm	
3) h,m C10-C20 Hydrocarbons	3.23	54321315	1.9199234	ppm	
4) h,m C20-C34 Hydrocarbons	5.02	14074561	N.D.	ppm	

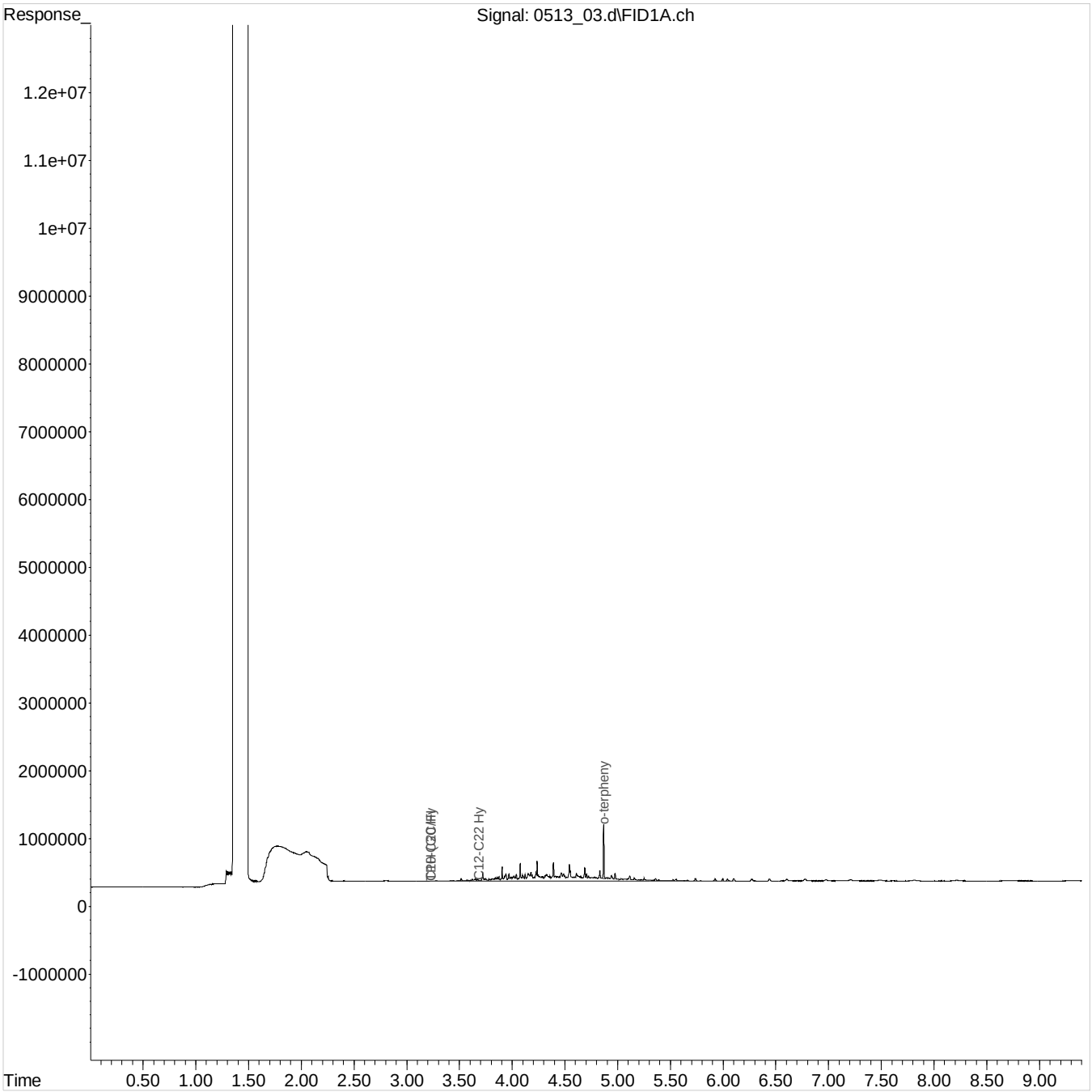
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\051314\
Data File : 0513 03.d
Signal(s) : FID1A.ch
Acq On : 13 May 2014 10:09 am
Operator :
Sample : STD DRO 2 PPM 14D09595
Misc :
ALS Vial : 3 Sample Multiplier: 1

Integration File: events.e
Quant Time: May 13 11:56:10 2014
Quant Method : C:\msdchem\1\methods\DR31D13N.m
Quant Title : DROLVI
QLast Update : Thu Apr 10 10:13:36 2014
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\051314\
Data File : 0513 04.d
Signal(s) : FID1A.ch
Acq On : 13 May 2014 10:29 am
Operator :
Sample : STD DRO 4 PPM 14D09595
Misc :
ALS Vial : 4 Sample Multiplier: 1

Integration File: events.e
Quant Time: May 13 11:57:55 2014
Quant Method : C:\msdchem\1\methods\DR31D13N.m
Quant Title : DROLVI
QLast Update : Tue May 13 11:56:22 2014
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :

Compound	R.T.	Response	Conc	Units
System Monitoring Compounds				
5) s o-terphenyl	4.87	7149205	0.1927066	ppm m
Spiked Amount 0.0200 Range 50 - 150		Recovery	= 963.53%#	
Target Compounds				
1) t,h,m TPH (GC/FID) HIGH FRA...	3.23	115380708	3.5617800	ppm
2) h,m C12-C22 Hydrocarbons	3.69	104702285	3.7232603	ppm
3) h,m C10-C20 Hydrocarbons	3.23	100489905	3.6998333	ppm
4) h,m C20-C34 Hydrocarbons	5.02	18436826	2.6198793	ppm

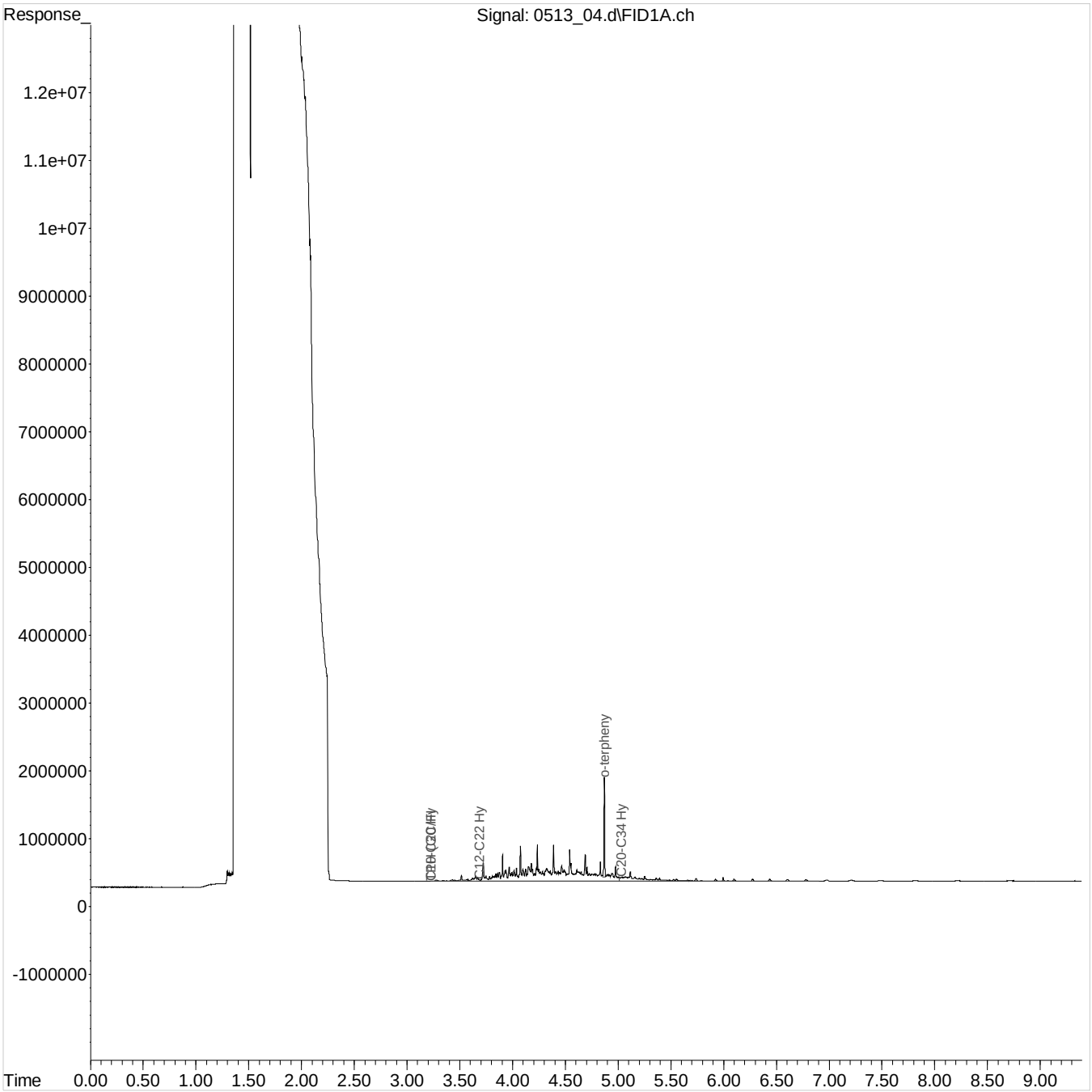
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\051314\
Data File : 0513 04.d
Signal(s) : FID1A.ch
Acq On : 13 May 2014 10:29 am
Operator :
Sample : STD DRO 4 PPM 14D09595
Misc :
ALS Vial : 4 Sample Multiplier: 1

Integration File: events.e
Quant Time: May 13 11:57:55 2014
Quant Method : C:\msdchem\1\methods\DR31D13N.m
Quant Title : DROLVI
QLast Update : Tue May 13 11:56:22 2014
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\051314\
Data File : 0513 05.d
Signal(s) : FID1A.ch
Acq On : 13 May 2014 10:49 am
Operator :
Sample : STD DRO 10 PPM 14D09595
Misc :
ALS Vial : 5 Sample Multiplier: 1

Integration File: events.e
Quant Time: May 13 11:59:20 2014
Quant Method : C:\msdchem\1\methods\DR31D13N.m
Quant Title : DROLVI
QLast Update : Tue May 13 11:58:02 2014
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :

Compound	R.T.	Response	Conc	Units
System Monitoring Compounds				
5) s o-terphenyl	4.87	13793025	0.3786955	ppm m
Spiked Amount 0.0200 Range 50 - 150 Recovery = 1893.48%#				
Target Compounds				
1) t,h,m TPH (GC/FID) HIGH FRA...	3.23	272745135	10.2208623	ppm
2) h,m C12-C22 Hydrocarbons	3.69	249659568	9.9825507	ppm
3) h,m C10-C20 Hydrocarbons	3.23	240668435	9.2063508	ppm
4) h,m C20-C34 Hydrocarbons	5.02	34431275	11.3330941	ppm

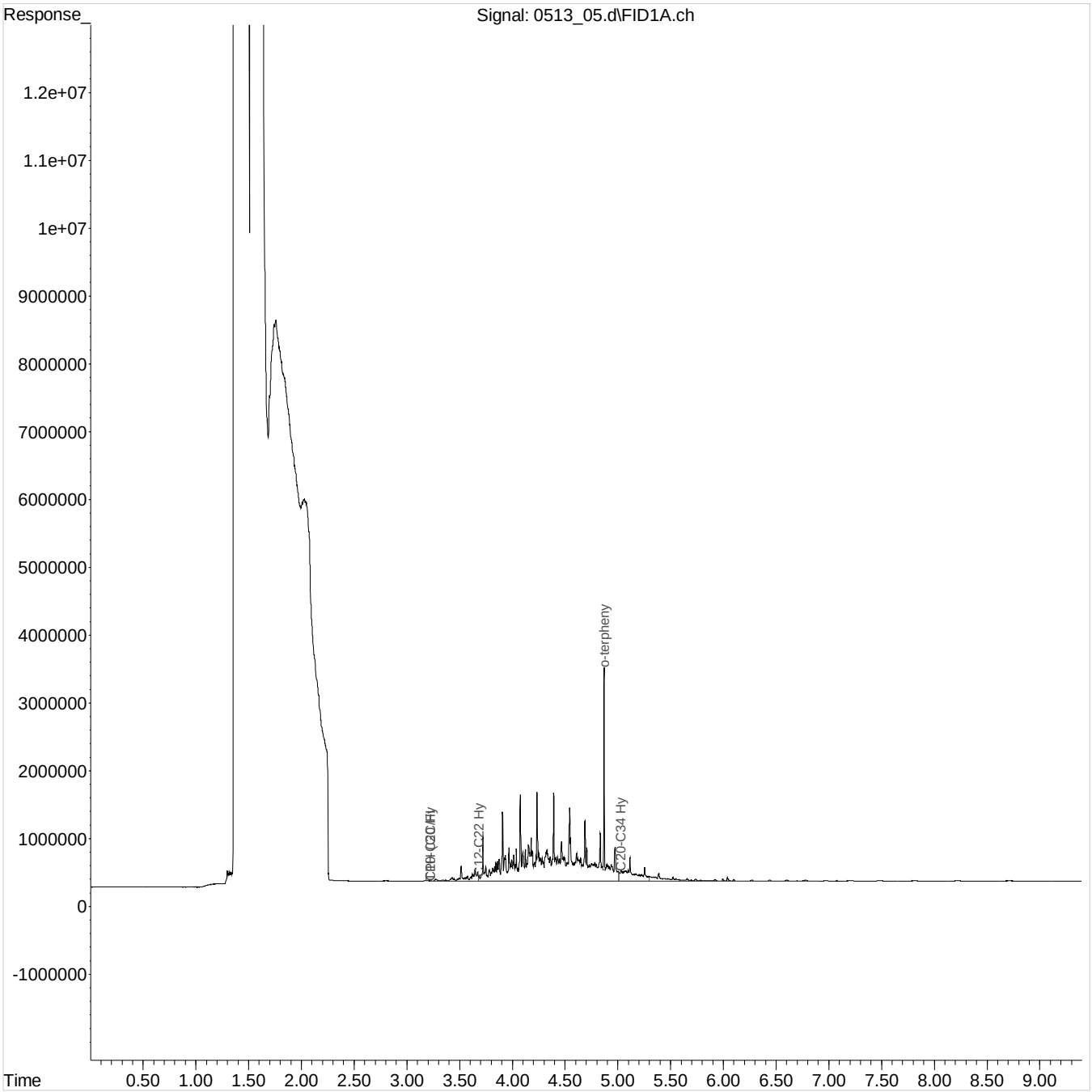
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\051314\
Data File : 0513 05.d
Signal(s) : FID1A.ch
Acq On : 13 May 2014 10:49 am
Operator :
Sample : STD DRO 10 PPM 14D09595
Misc :
ALS Vial : 5 Sample Multiplier: 1

Integration File: events.e
Quant Time: May 13 11:59:20 2014
Quant Method : C:\msdchem\1\methods\DR31D13N.m
Quant Title : DROLVI
QLast Update : Tue May 13 11:58:02 2014
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\051314\
Data File : 0513 06.d
Signal(s) : FID1A.ch
Acq On : 13 May 2014 11:09 am
Operator :
Sample : STD DRO 20 PPM 14D09595
Misc :
ALS Vial : 6 Sample Multiplier: 1

Integration File: events.e
Quant Time: May 13 12:00:51 2014
Quant Method : C:\msdchem\1\methods\DR31D13N.m
Quant Title : DROLVI
QLast Update : Tue May 13 11:59:38 2014
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :

Compound	R.T.	Response	Conc	Units
System Monitoring Compounds				
5) s o-terphenyl	4.87	16905795	0.4725479	ppm m
Spiked Amount 0.0200 Range 50 - 150 Recovery = 2362.74%#				
Target Compounds				
1) t,h,m TPH (GC/FID) HIGH FRA...	3.23	543566273	20.4539290	ppm
2) h,m C12-C22 Hydrocarbons	3.69	502738002	20.4647690	ppm
3) h,m C10-C20 Hydrocarbons	3.23	481101531	18.9037987	ppm
4) h,m C20-C34 Hydrocarbons	5.02	65311325	22.0471569	ppm

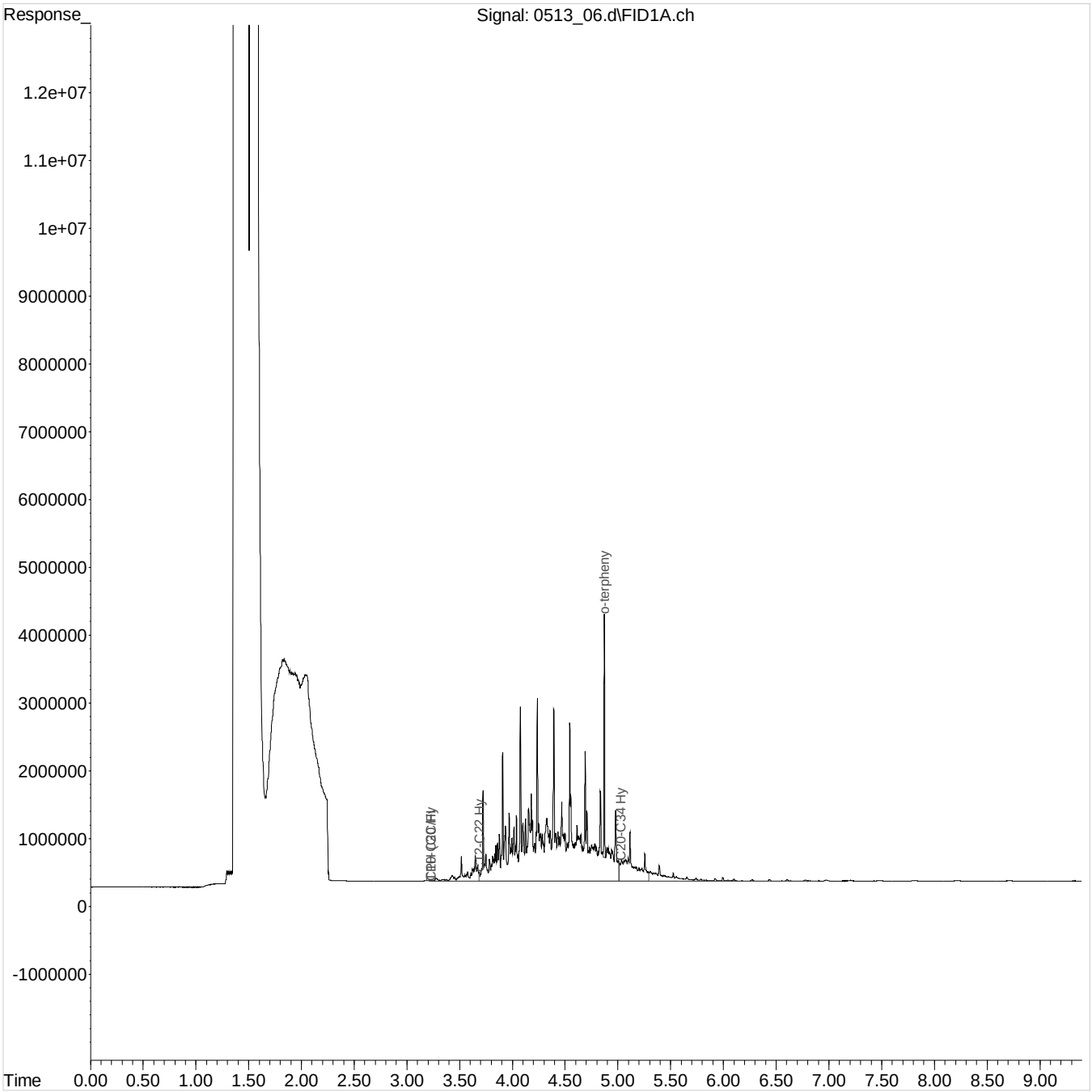
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\051314\
Data File : 0513 06.d
Signal(s) : FID1A.ch
Acq On : 13 May 2014 11:09 am
Operator :
Sample : STD DRO 20 PPM 14D09595
Misc :
ALS Vial : 6 Sample Multiplier: 1

Integration File: events.e
Quant Time: May 13 12:00:51 2014
Quant Method : C:\msdchem\1\methods\DR31D13N.m
Quant Title : DROLVI
QLast Update : Tue May 13 11:59:38 2014
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\051314\
Data File : 0513 08.d
Signal(s) : FID1A.ch
Acq On : 13 May 2014 11:49 am
Operator :
Sample : STD DRO 60 PPM 14D09595
Misc :
ALS Vial : 8 Sample Multiplier: 1

Integration File: events.e
Quant Time: May 13 12:02:18 2014
Quant Method : C:\msdchem\1\methods\DR31D13N.m
Quant Title : DROLVI
QLast Update : Tue May 13 12:00:57 2014
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :

Compound	R.T.	Response	Conc	Units
System Monitoring Compounds				
5) s o-terphenyl	0.00	0	N.D.	ppm d
Spiked Amount 0.0200 Range 50 - 150 Recovery = 0.00%#				
Target Compounds				
1) t,h,m TPH (GC/FID) HIGH FRA...	3.23	1514935208	56.8256105	ppm
2) h,m C12-C22 Hydrocarbons	3.69	1419479854	57.3044008	ppm
3) h,m C10-C20 Hydrocarbons	3.23	1331281442	53.0364318	ppm
4) h,m C20-C34 Hydrocarbons	5.02	191132172	64.1124646	ppm

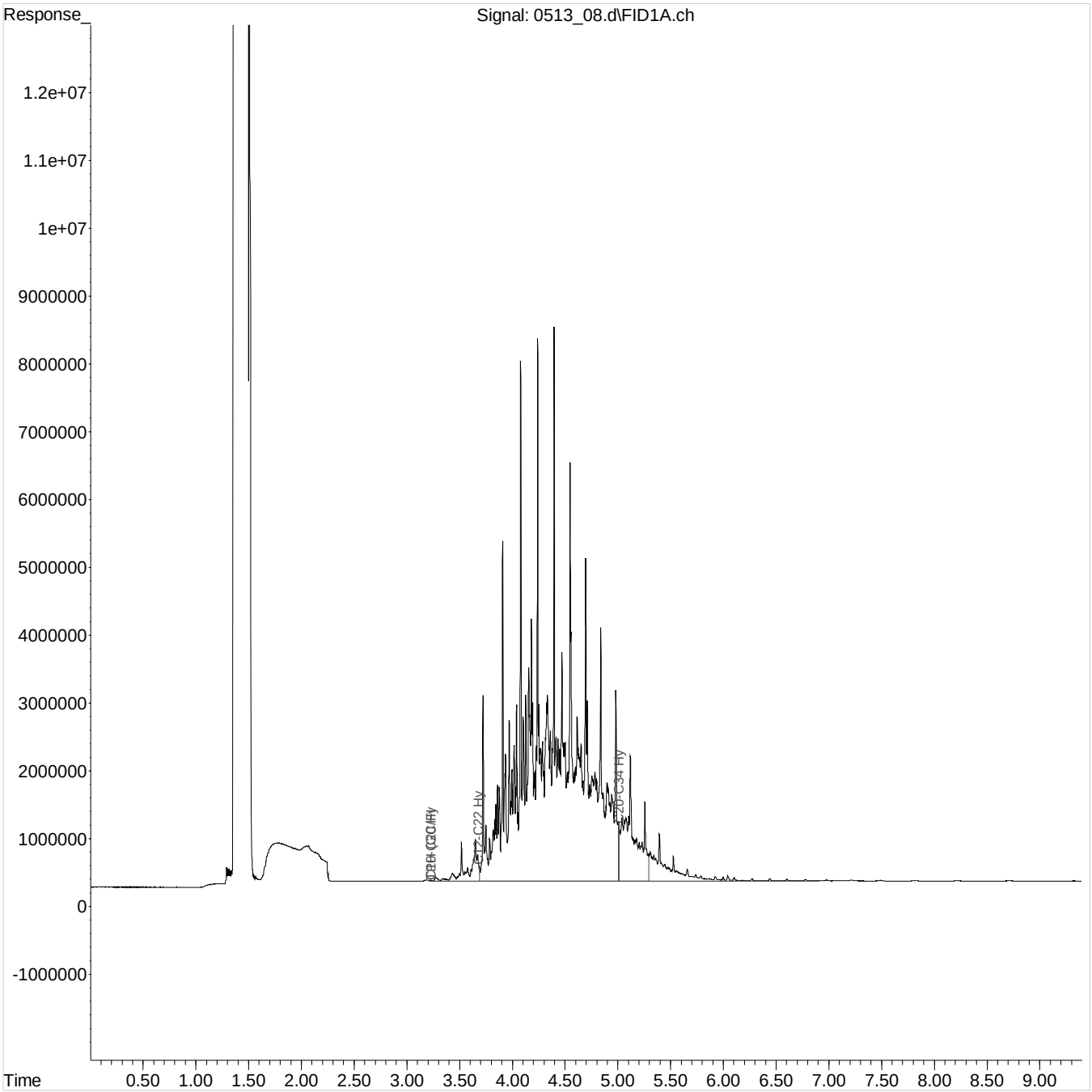
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\051314\
Data File : 0513 08.d
Signal(s) : FID1A.ch
Acq On : 13 May 2014 11:49 am
Operator :
Sample : STD DRO 60 PPM 14D09595
Misc :
ALS Vial : 8 Sample Multiplier: 1

Integration File: events.e
Quant Time: May 13 12:02:18 2014
Quant Method : C:\msdchem\1\methods\DR31D13N.m
Quant Title : DROLVI
QLast Update : Tue May 13 12:00:57 2014
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\051314\
Data File : 0513 09.d
Signal(s) : FID1A.ch
Acq On : 13 May 2014 12:09 pm
Operator :
Sample : STD DRO 40 PPM 14D09595
Misc :
ALS Vial : 7 Sample Multiplier: 1

Integration File: events.e
Quant Time: May 13 12:47:59 2014
Quant Method : C:\msdchem\1\methods\DR31D13N.m
Quant Title : DROLVI
QLast Update : Tue May 13 12:02:27 2014
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :

Compound	R.T.	Response	Conc	Units
System Monitoring Compounds				
5) s o-terphenyl	4.87	27068617	0.7671473	ppm m
Spiked Amount 0.0200 Range 50 - 150 Recovery = 3835.74%#				
Target Compounds				
1) t,h,m TPH (GC/FID) HIGH FRA...	3.23	1033276512	40.1415584	ppm
2) h,m C12-C22 Hydrocarbons	3.69	967001907	40.2445780	ppm
3) h,m C10-C20 Hydrocarbons	3.23	911198847	37.1635522	ppm
4) h,m C20-C34 Hydrocarbons	5.02	124175346	38.5208544	ppm

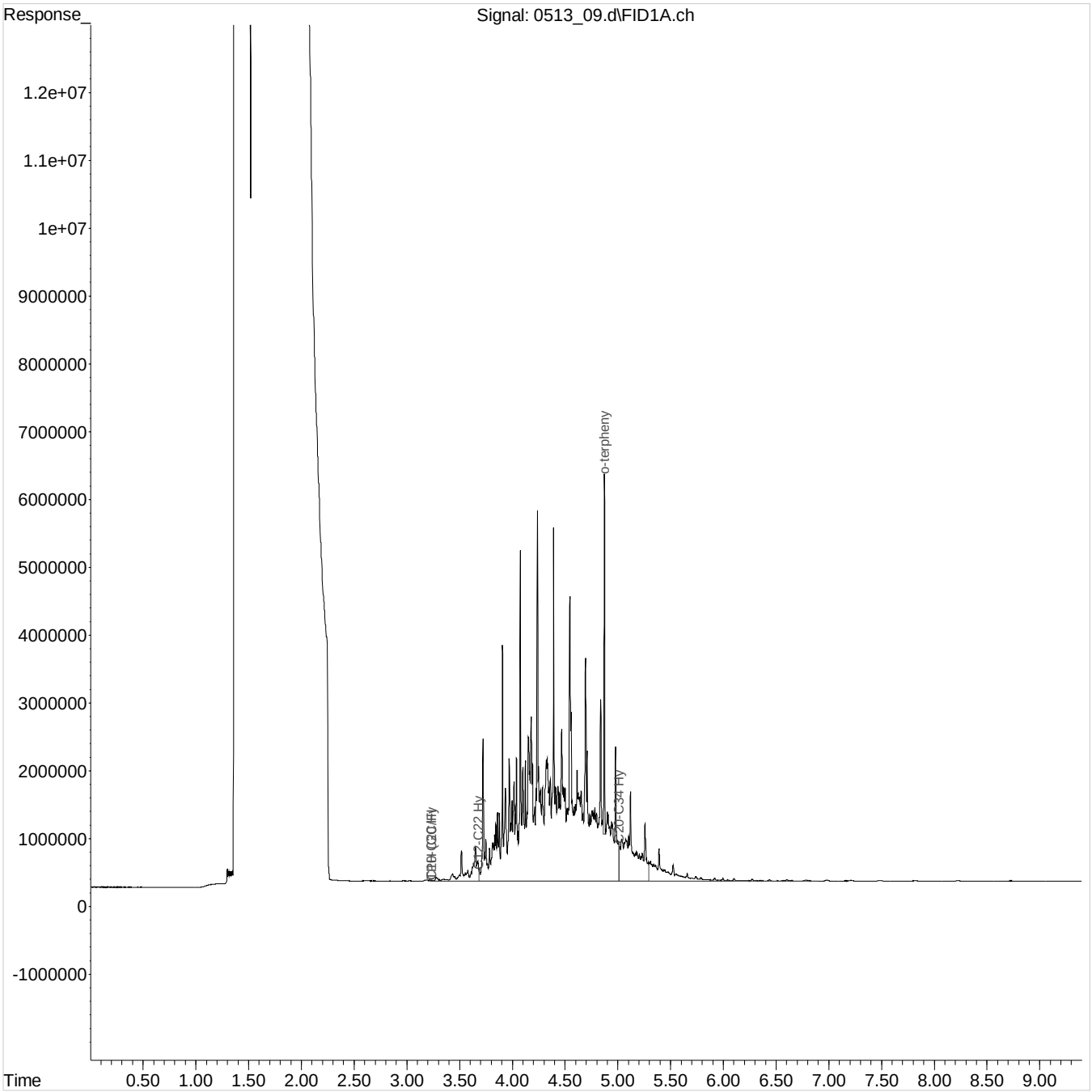
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\051314\
Data File : 0513 09.d
Signal(s) : FID1A.ch
Acq On : 13 May 2014 12:09 pm
Operator :
Sample : STD DRO 40 PPM 14D09595
Misc :
ALS Vial : 7 Sample Multiplier: 1

Integration File: events.e
Quant Time: May 13 12:47:59 2014
Quant Method : C:\msdchem\1\methods\DR31D13N.m
Quant Title : DROLVI
QLast Update : Tue May 13 12:02:27 2014
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\051314\
Data File : 0513 10.d
Signal(s) : FID1A.ch
Acq On : 13 May 2014 12:28 pm
Operator :
Sample : STD DRO 100 PPM 14D09595
Misc :
ALS Vial : 9 Sample Multiplier: 1

Integration File: events.e
Quant Time: May 13 12:49:29 2014
Quant Method : C:\msdchem\1\methods\DR31D13N.m
Quant Title : DROLVI
QLast Update : Tue May 13 12:48:06 2014
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :

Compound	R.T.	Response	Conc	Units
System Monitoring Compounds				
5) s o-terphenyl	0.00	0	N.D.	ppm d
Spiked Amount 0.0200 Range 50 - 150 Recovery = 0.00%#				
Target Compounds				
1) t,h,m TPH (GC/FID) HIGH FRA...	3.23	2523549438	98.7993528	ppm
2) h,m C12-C22 Hydrocarbons	3.69	2367609015	98.9422338	ppm
3) h,m C10-C20 Hydrocarbons	3.23	2216566413	91.4846225	ppm
4) h,m C20-C34 Hydrocarbons	5.02	313005548	100.8463258	ppm

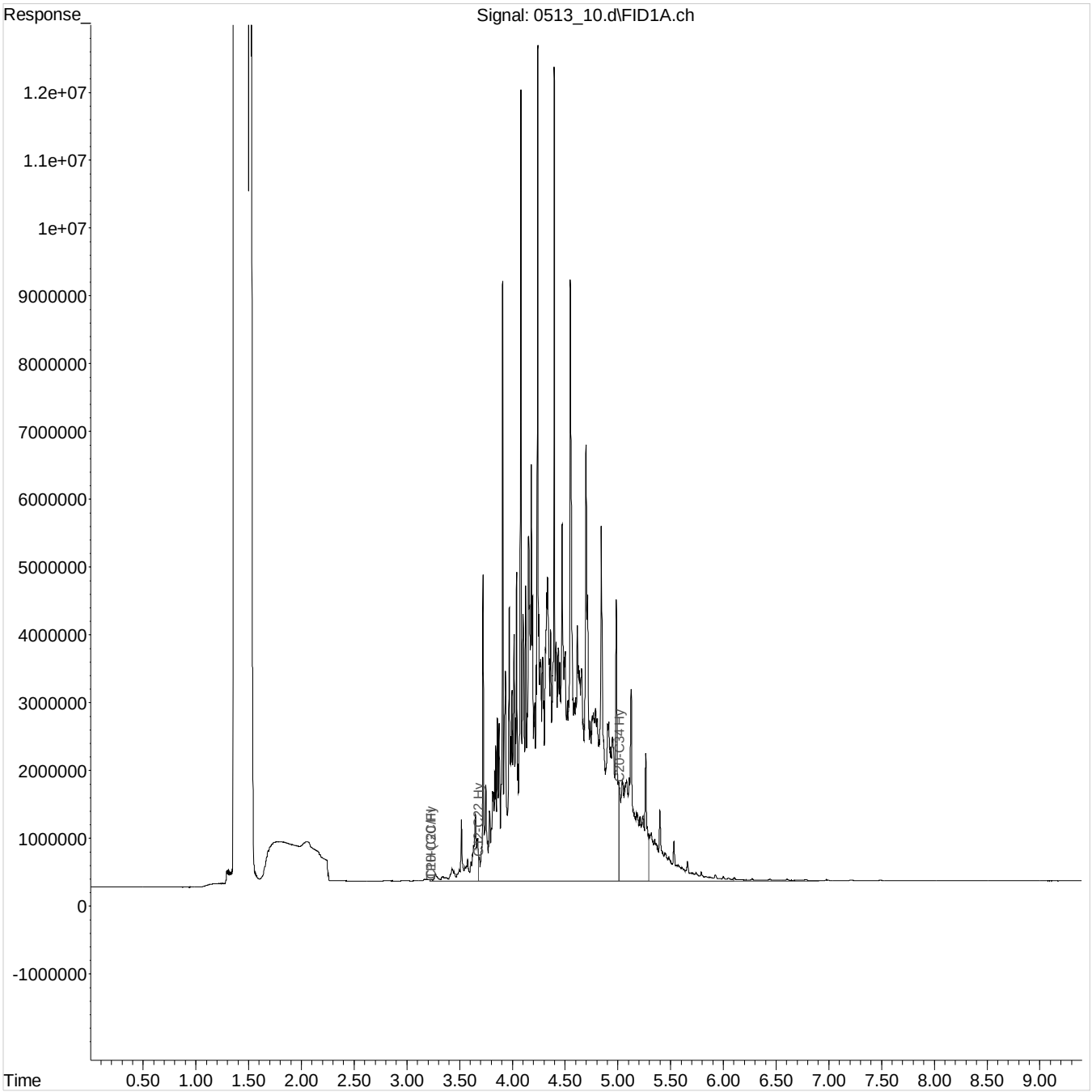
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\051314\
Data File : 0513 10.d
Signal(s) : FID1A.ch
Acq On : 13 May 2014 12:28 pm
Operator :
Sample : STD DRO 100 PPM 14D09595
Misc :
ALS Vial : 9 Sample Multiplier: 1

Integration File: events.e
Quant Time: May 13 12:49:29 2014
Quant Method : C:\msdchem\1\methods\DR31D13N.m
Quant Title : DROLVI
QLast Update : Tue May 13 12:48:06 2014
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\051314\
Data File : 0513 11.d
Signal(s) : FID1A.ch
Acq On : 13 May 2014 12:47 pm
Operator :
Sample : STD DRO 200 PPM 14D09595
Misc :
ALS Vial : 10 Sample Multiplier: 1

Integration File: events.e
Quant Time: May 13 13:00:07 2014
Quant Method : C:\msdchem\1\methods\DR31D13N.m
Quant Title : DROLVI
QLast Update : Tue May 13 12:49:38 2014
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :

Compound	R.T.	Response	Conc	Units
System Monitoring Compounds				
5) s o-terphenyl	0.00	0	N.D.	ppm d
Spiked Amount 0.0200 Range 50 - 150 Recovery = 0.00%#				
Target Compounds				
1) t,h,m TPH (GC/FID) HIGH FRA...	3.23	4961889281	195.9966379	ppm
2) h,m C12-C22 Hydrocarbons	3.69	4651764706	195.8067849	ppm
3) h,m C10-C20 Hydrocarbons	3.23	4332374266	181.0126110	ppm
4) h,m C20-C34 Hydrocarbons	5.02	640179374	206.7612704	ppm

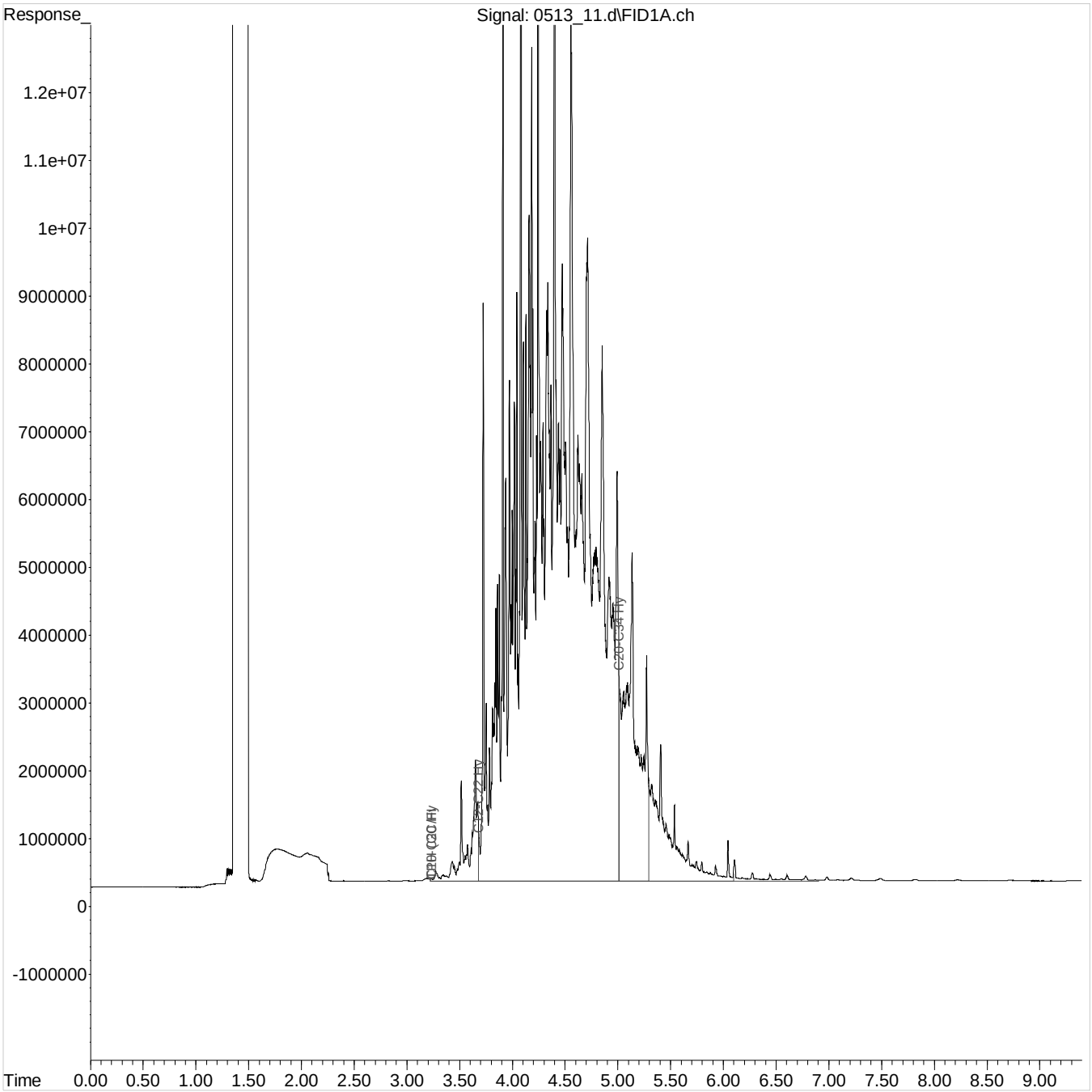
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\051314\
Data File : 0513 11.d
Signal(s) : FID1A.ch
Acq On : 13 May 2014 12:47 pm
Operator :
Sample : STD DRO 200 PPM 14D09595
Misc :
ALS Vial : 10 Sample Multiplier: 1

Integration File: events.e
Quant Time: May 13 13:00:07 2014
Quant Method : C:\msdchem\1\methods\DR31D13N.m
Quant Title : DROLVI
QLast Update : Tue May 13 12:49:38 2014
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :



Semi-Volatiles by Method 8270C

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: L729800

Semi-Volatiles by Method 8270C
URS Corporation - Tucson AZ - 1088308

Project: Holloman AFB
Project No: 23446543.0053AA

Login No: L729800

Lab SampleID.	Client ID
L729800-01	H-TU904-GW03-NT01
L729800-02	H-TU904-GW03-ND01

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: L729800
URS Corporation - Tucson AZ - 1088308

Test:	Semi-Volatiles by Method 8270C		
Project No:	23446543.0053AA	Matrix:	Water - ug/L
Project:	Holloman AFB	EPA ID:	TN00003
Collection Date:	10/23/2014	**Analytic Batch:**	**WG751293**
Analysis Date:	10/29/2014	Analyst:	280
Instrument ID:	BNAMS11	Prep Date:	10/28/2014
Sample Numbers:	L729800-01		

Workgroup: **WG751293**
Description: **SVOCs by Method 8270C (GW)**

Sample Name	Collect Date	Prep Date	Analysis Date
L729800-01 1x	10/23/2014	10/28/2014	10/29/2014

Parameters in bold text are reported in this SDG

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Quality Control Summary
SDG: L729800
URS Corporation - Tucson AZ - 1088308

Test:	Semi-Volatiles by Method 8270C		
Project No:	23446543.0053AA	Matrix:	Water - ug/L
Project:	Holloman AFB	EPA ID:	TN00003
Collection Date:	10/23/2014	**Analytic Batch:**	**WG751293**
Analysis Date:	10/29/2014	Analyst:	280
Instrument ID:	BNAMS11	Prep Date:	10/28/2014
Sample Numbers:	L729800-01		

Method Blank Summary

Instrument	Client Sample ID	Lab Sample ID	File Name	Analysis Date	Analysis Time
BNAMS11	LCS WG751293	LCS WG751293	1028A_04.D	10/29/2014	3:58 AM
BNAMS11	LCSD WG751293	LCSD WG751293	1028A_05.D	10/29/2014	4:19 AM
BNAMS11	Blank WG751293	Blank WG751293	1028A_06.D	10/29/2014	4:40 AM
BNAMS11	H-TU904-GW03-NT01	L729800-01	1028A_16.D	10/29/2014	8:13 AM
BNAMS11	MS WG751293	MS WG751293	1028A_17.D	10/29/2014	8:34 AM
BNAMS11	MSD WG751293	MSD WG751293	1028A_18.D	10/29/2014	8:56 AM

Parameters in bold text are reported in this SDG

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Quality Control Summary
SDG: L729800
URS Corporation - Tucson AZ - 1088308

Test:	Semi-Volatiles by Method 8270C		
Project No:	23446543.0053AA	Matrix:	Water - ug/L
Project:	Holloman AFB	EPA ID:	TN00003
Collection Date:	10/23/2014	**Analytic Batch:**	**WG751293**
Analysis Date:	10/29/2014	Analyst:	280
Instrument ID:	BNAMS11	Prep Date:	10/28/2014
Sample Numbers:	L729800-01		

Method Blank

Analyte	CAS	RDL	MDL	Qualifier
1,2,4-Trichlorobenzene	120-82-1	< 10.0	< 0.355	
2,4,5-Trichlorophenol	95-95-4	< 10.0	< 0.236	
2,4,6-Trichlorophenol	88-06-2	< 10.0	< 0.297	
2,4-Dichlorophenol	120-83-2	< 10.0	< 0.284	
2,4-Dimethylphenol	105-67-9	< 10.0	< 0.624	
2,4-Dinitrophenol	51-28-5	< 10.0	< 3.25	
2,4-Dinitrotoluene	121-14-2	< 10.0	< 1.65	
2,6-Dinitrotoluene	606-20-2	< 10.0	< 0.279	
2-Chloronaphthalene	91-58-7	< 1.00	< 0.330	
2-Chlorophenol	95-57-8	< 10.0	< 0.283	
2-Methylnaphthalene	91-57-6	< 0.250	< 0.0155	
2-Methylphenol	95-48-7	< 10.0	< 0.312	
2-Nitroaniline	88-74-4	< 10.0	< 1.9	
2-Nitrophenol	88-75-5	< 10.0	< 0.320	
3&4-Methyl Phenol	3&4-Methyl Phenol	< 10.0	< 0.266	
3,3-Dichlorobenzidine	91-94-1	< 10.0	< 2.02	
3-Nitroaniline	99-09-2	< 10.0	< 0.308	
4,6-Dinitro-2-methylphenol	534-52-1	< 10.0	< 2.62	
4-Bromophenyl-phenylether	101-55-3	< 10.0	< 0.355	
4-Chloro-3-methylphenol	59-50-7	< 10.0	< 0.263	
4-Chloroaniline	106-47-8	< 10.0	< 0.382	
4-Chlorophenyl-phenylether	7005-72-3	< 10.0	< 0.303	
4-Nitroaniline	100-01-6	< 10.0	< 0.349	
4-Nitrophenol	100-02-7	< 10.0	< 2.01	
Acenaphthene	83-32-9	< 0.0500	< 0.00823	
Acenaphthylene	208-96-8	< 0.0500	< 0.0109	
Anthracene	120-12-7	< 0.0500	< 0.0131	
Azobenzene	103-33-3	< 10.0	< 0.318	
Benzo(a)anthracene	56-55-3	< 0.0500	< 0.0124	
Benzo(a)pyrene	50-32-8	< 0.0500	< 0.0158	
Benzo(b)fluoranthene	205-99-2	< 0.0500	< 0.0192	
Benzo(g,h,i)perylene	191-24-2	< 0.0500	< 0.0157	
Benzo(k)fluoranthene	207-08-9	< 0.0500	< 0.0255	
Benzoic Acid	65-85-0	< 10.0	< 0.440	
Benzyl Alcohol	100-51-6	< 10.0	< 0.393	
Benzylbutyl phthalate	85-68-7	< 3.00	< 0.275	
Bis(2-chlorethoxy)methane	111-91-1	< 10.0	< 0.329	

Parameters in bold text are reported in this SDG

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Quality Control Summary
SDG: L729800
URS Corporation - Tucson AZ - 1088308

Test:	Semi-Volatiles by Method 8270C		
Project No:	23446543.0053AA	Matrix:	Water - ug/L
Project:	Holloman AFB	EPA ID:	TN00003
Collection Date:	10/23/2014	**Analytic Batch:**	**WG751293**
Analysis Date:	10/29/2014	Analyst:	280
Instrument ID:	BNAMS11	Prep Date:	10/28/2014
Sample Numbers:	L729800-01		

Method Blank

Analyte	CAS	RDL	MDL	Qualifier
Bis(2-chloroethyl)ether	111-44-4	< 10.0	< 1.62	
Bis(2-chloroisopropyl)ether	108-60-1	< 10.0	< 0.445	
Bis(2-ethylhexyl)phthalate	117-81-7	< 3.00	< 0.709	
Carbazole	86-74-8	< 10.0	< 0.162	
Chrysene	218-01-9	< 0.0500	< 0.0144	
Dibenz(a,h)anthracene	53-70-3	< 0.0500	< 0.00454	
Dibenzofuran	132-64-9	< 10.0	< 0.338	
Diethyl phthalate	84-66-2	< 3.00	< 0.282	
Dimethyl phthalate	131-11-3	< 3.00	< 0.283	
Di-n-butyl phthalate	84-74-2	< 3.00	< 0.266	
Di-n-octyl phthalate	117-84-0	< 3.00	< 0.278	
Fluoranthene	206-44-0	< 0.0500	< 0.0165	
Fluorene	86-73-7	< 0.0500	< 0.00898	
Hexachloro-1,3-butadiene	87-68-3	< 10.0	< 0.329	
Hexachlorobenzene	118-74-1	< 1.00	< 0.341	
Hexachloroethane	67-72-1	< 10.0	< 0.365	
Indeno(1,2,3-cd)pyrene	193-39-5	< 0.0500	< 0.00739	
Isophorone	78-59-1	< 10.0	< 0.272	
Naphthalene	91-20-3	< 0.250	0.183	
Nitrobenzene	98-95-3	< 10.0	< 0.367	
n-Nitrosodimethylamine	62-75-9	< 10.0	< 1.26	
n-Nitrosodi-n-propylamine	621-64-7	< 10.0	< 0.403	
n-Nitrosodiphenylamine	86-30-6	< 10.0	< 0.304	
Pentachlorophenol	87-86-5	< 10.0	< 0.313	
Phenanthrene	85-01-8	< 0.0500	< 0.0184	
Phenol	108-95-2	< 10.0	< 0.334	
Pyrene	129-00-0	< 0.0500	< 0.0155	

Parameters in bold text are reported in this SDG

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Quality Control Summary
SDG: L729800
URS Corporation - Tucson AZ - 1088308

Test:	Semi-Volatiles by Method 8270C		
Project No:	23446543.0053AA	Matrix:	Water - ug/L
Project:	Holloman AFB	EPA ID:	TN00003
Collection Date:	10/23/2014	**Analytic Batch:**	**WG751293**
Analysis Date:	10/29/2014	Analyst:	280
Instrument ID:	BNAMS11	Prep Date:	10/28/2014
Sample Numbers:	L729800-01		

Laboratory Control Sample (LCS)

Analyte	Dil	True Value	Found	% Rec	Control Limits	Qual
1,2,4-Trichlorobenzene	1	25	14.053	56.2	22.9 - 96.1	
2,4,5-Trichlorophenol	1	25	18.034	72.1	34.9 - 112	
2,4,6-Trichlorophenol	1	25	16.361	65.4	29.8 - 107	
2,4-Dichlorophenol	1	25	17.541	70.2	31.4 - 103	
2,4-Dimethylphenol	1	25	16.721	66.9	31.9 - 107	
2,4-Dinitrophenol	1	25	13.451	53.8	24.2 - 128	
2,4-Dinitrotoluene	1	25	16.757	67	31.2 - 105	
2,6-Dinitrotoluene	1	25	16.166	64.7	30.6 - 106	
2-Chloronaphthalene	1	25	16.227	64.9	33.6 - 105	
2-Chlorophenol	1	25	15.576	62.3	26.2 - 91.5	
2-Methylnaphthalene	1	25	15.356	61.4	33.8 - 98.6	
2-Methylphenol	1	25	14.796	59.2	26.4 - 86.9	
2-Nitroaniline	1	25	16.082	64.3	35.6 - 113	
2-Nitrophenol	1	25	16.464	65.9	25.9 - 106	
3&4-Methyl Phenol	1	25	16.139	64.6	27.9 - 92	
3,3-Dichlorobenzidine	1	25	19.074	76.3	27.2 - 142	
3-Nitroaniline	1	25	16.162	64.6	33.6 - 103	
4,6-Dinitro-2-methylphenol	1	25	14.883	59.5	18.4 - 148	
4-Bromophenyl-phenylether	1	25	18.658	74.6	40.7 - 116	
4-Chloro-3-methylphenol	1	25	16.514	66.1	35.7 - 100	
4-Chloroaniline	1	25	15.564	62.3	32 - 104	
4-Chlorophenyl-phenylether	1	25	15.348	61.4	39 - 113	
4-Nitroaniline	1	25	16.541	66.2	35.4 - 124	
4-Nitrophenol	1	25	7.6684	30.7	10 - 52.7	
Acenaphthene	1	25	15.985	63.9	38.7 - 109	
Acenaphthylene	1	25	16.721	66.9	36 - 106	
Anthracene	1	25	17.983	71.9	43.6 - 113	
Azobenzene	1	25	15.853	63.4	37.6 - 111	
Benzo(a)anthracene	1	25	17.852	71.4	51.2 - 112	
Benzo(a)pyrene	1	25	16.694	66.8	45.6 - 106	
Benzo(b)fluoranthene	1	25	15.859	63.4	47.6 - 111	
Benzo(g,h,i)perylene	1	25	19.834	79.3	45.2 - 117	
Benzo(k)fluoranthene	1	25	16.868	67.5	49.4 - 114	
Benzoic Acid	1	25	6.6450	26.6	0 - 79.4	
Benzyl Alcohol	1	25	14.456	57.8	30.1 - 89.2	
Benzylbutyl phthalate	1	25	16.029	64.1	31.8 - 123	

Parameters in bold text are reported in this SDG

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Quality Control Summary
SDG: L729800
URS Corporation - Tucson AZ - 1088308

Test:	Semi-Volatiles by Method 8270C		
Project No:	23446543.0053AA	Matrix:	Water - ug/L
Project:	Holloman AFB	EPA ID:	TN00003
Collection Date:	10/23/2014	**Analytic Batch:**	**WG751293**
Analysis Date:	10/29/2014	Analyst:	280
Instrument ID:	BNAMS11	Prep Date:	10/28/2014
Sample Numbers:	L729800-01		

Laboratory Control Sample (LCS)

Analyte	Dil	True Value	Found	% Rec	Control Limits	Qual
Bis(2-chlorethoxy)methane	1	25	17.180	68.7	37.2 - 111	
Bis(2-chloroethyl)ether	1	25	14.504	58	22.6 - 108	
Bis(2-chloroisopropyl)ether	1	25	16.318	65.3	32.9 - 100	
Bis(2-ethylhexyl)phthalate	1	25	15.727	62.9	36.9 - 134	
Carbazole	1	25	17.206	68.8	49 - 110	
Chrysene	1	25	17.551	70.2	54.6 - 120	
Dibenz(a,h)anthracene	1	25	18.583	74.3	42.8 - 118	
Dibenzofuran	1	25	16.940	67.8	42.4 - 105	
Diethyl phthalate	1	25	16.274	65.1	36.5 - 129	
Dimethyl phthalate	1	25	17.068	68.3	35.3 - 128	
Di-n-butyl phthalate	1	25	16.736	66.9	41.8 - 120	
Di-n-octyl phthalate	1	25	17.159	68.6	39.7 - 112	
Fluoranthene	1	25	16.783	67.1	45.9 - 115	
Fluorene	1	25	16.253	65	41 - 112	
Hexachloro-1,3-butadiene	1	25	12.634	50.5	16.1 - 104	
Hexachlorobenzene	1	25	21.515	86.1	38.5 - 116	
Hexachloroethane	1	25	11.335	45.3	16.5 - 89.8	
Indeno(1,2,3-cd)pyrene	1	25	19.522	78.1	45 - 116	
Isophorone	1	25	18.541	74.2	35.4 - 112	
Naphthalene	1	25	14.671	58.7	32.2 - 101	
Nitrobenzene	1	25	15.533	62.1	31.4 - 106	
n-Nitrosodimethylamine	1	25	8.2459	33	10 - 80.1	
n-Nitrosodi-n-propylamine	1	25	16.373	65.5	33.2 - 106	
n-Nitrosodiphenylamine	1	25	16.904	67.6	44.4 - 113	
Pentachlorophenol	1	25	15.432	61.7	10 - 97.4	
Phenanthrene	1	25	17.317	69.3	46.4 - 113	
Phenol	1	25	9.5986	38.4	10 - 57.9	
Pyrene	1	25	16.221	64.9	46.3 - 117	

Parameters in bold text are reported in this SDG

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Quality Control Summary
SDG: L729800
URS Corporation - Tucson AZ - 1088308

Test:	Semi-Volatiles by Method 8270C		
Project No:	23446543.0053AA	Matrix:	Water - ug/L
Project:	Holloman AFB	EPA ID:	TN00003
Collection Date:	10/23/2014	**Analytic Batch:**	**WG751293**
Analysis Date:	10/29/2014	Analyst:	280
Instrument ID:	BNAMS11	Prep Date:	10/28/2014
Sample Numbers:	L729800-01		

Laboratory Control Sample Duplicate (LCSD)

Analyte	Dil	True Value	Found	% Rec	Control Limits	Qual
1,2,4-Trichlorobenzene	1	25	14.833	59.3	22.9 - 96.1	
2,4,5-Trichlorophenol	1	25	18.265	73.1	34.9 - 112	
2,4,6-Trichlorophenol	1	25	16.457	65.8	29.8 - 107	
2,4-Dichlorophenol	1	25	19.274	77.1	31.4 - 103	
2,4-Dimethylphenol	1	25	17.317	69.3	31.9 - 107	
2,4-Dinitrophenol	1	25	13.932	55.7	24.2 - 128	
2,4-Dinitrotoluene	1	25	16.549	66.2	31.2 - 105	
2,6-Dinitrotoluene	1	25	16.919	67.7	30.6 - 106	
2-Chloronaphthalene	1	25	16.399	65.6	33.6 - 105	
2-Chlorophenol	1	25	16.317	65.3	26.2 - 91.5	
2-Methylnaphthalene	1	25	15.389	61.6	33.8 - 98.6	
2-Methylphenol	1	25	15.670	62.7	26.4 - 86.9	
2-Nitroaniline	1	25	16.286	65.1	35.6 - 113	
2-Nitrophenol	1	25	17.580	70.3	25.9 - 106	
3&4-Methyl Phenol	1	25	16.644	66.6	27.9 - 92	
3,3-Dichlorobenzidine	1	25	19.305	77.2	27.2 - 142	
3-Nitroaniline	1	25	15.629	62.5	33.6 - 103	
4,6-Dinitro-2-methylphenol	1	25	13.611	54.4	18.4 - 148	
4-Bromophenyl-phenylether	1	25	18.703	74.8	40.7 - 116	
4-Chloro-3-methylphenol	1	25	17.484	69.9	35.7 - 100	
4-Chloroaniline	1	25	15.999	64	32 - 104	
4-Chlorophenyl-phenylether	1	25	15.081	60.3	39 - 113	
4-Nitroaniline	1	25	17.275	69.1	35.4 - 124	
4-Nitrophenol	1	25	7.9387	31.8	10 - 52.7	
Acenaphthene	1	25	15.968	63.9	38.7 - 109	
Acenaphthylene	1	25	16.413	65.7	36 - 106	
Anthracene	1	25	17.749	71	43.6 - 113	
Azobenzene	1	25	15.440	61.8	37.6 - 111	
Benzo(a)anthracene	1	25	17.570	70.3	51.2 - 112	
Benzo(a)pyrene	1	25	16.614	66.5	45.6 - 106	
Benzo(b)fluoranthene	1	25	17.653	70.6	47.6 - 111	
Benzo(g,h,i)perylene	1	25	19.978	79.9	45.2 - 117	
Benzo(k)fluoranthene	1	25	14.884	59.5	49.4 - 114	
Benzoic Acid	1	25	8.1279	32.5	0 - 79.4	
Benzyl Alcohol	1	25	14.199	56.8	30.1 - 89.2	
Benzylbutyl phthalate	1	25	16.109	64.4	31.8 - 123	

Parameters in bold text are reported in this SDG

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Quality Control Summary
SDG: L729800
URS Corporation - Tucson AZ - 1088308

Test:	Semi-Volatiles by Method 8270C		
Project No:	23446543.0053AA	Matrix:	Water - ug/L
Project:	Holloman AFB	EPA ID:	TN00003
Collection Date:	10/23/2014	**Analytic Batch:**	**WG751293**
Analysis Date:	10/29/2014	Analyst:	280
Instrument ID:	BNAMS11	Prep Date:	10/28/2014
Sample Numbers:	L729800-01		

Laboratory Control Sample Duplicate (LCSD)

Analyte	Dil	True Value	Found	% Rec	Control Limits	Qual
Bis(2-chlorethoxy)methane	1	25	16.967	67.9	37.2 - 111	
Bis(2-chloroethyl)ether	1	25	15.353	61.4	22.6 - 108	
Bis(2-chloroisopropyl)ether	1	25	16.271	65.1	32.9 - 100	
Bis(2-ethylhexyl)phthalate	1	25	15.834	63.3	36.9 - 134	
Carbazole	1	25	17.303	69.2	49 - 110	
Chrysene	1	25	17.453	69.8	54.6 - 120	
Dibenz(a,h)anthracene	1	25	18.483	73.9	42.8 - 118	
Dibenzofuran	1	25	16.180	64.7	42.4 - 105	
Diethyl phthalate	1	25	16.273	65.1	36.5 - 129	
Dimethyl phthalate	1	25	17.093	68.4	35.3 - 128	
Di-n-butyl phthalate	1	25	16.401	65.6	41.8 - 120	
Di-n-octyl phthalate	1	25	17.093	68.4	39.7 - 112	
Fluoranthene	1	25	16.935	67.7	45.9 - 115	
Fluorene	1	25	16.327	65.3	41 - 112	
Hexachloro-1,3-butadiene	1	25	12.787	51.1	16.1 - 104	
Hexachlorobenzene	1	25	20.863	83.5	38.5 - 116	
Hexachloroethane	1	25	11.366	45.5	16.5 - 89.8	
Indeno(1,2,3-cd)pyrene	1	25	18.826	75.3	45 - 116	
Isophorone	1	25	19.004	76	35.4 - 112	
Naphthalene	1	25	15.290	61.2	32.2 - 101	
Nitrobenzene	1	25	16.587	66.3	31.4 - 106	
n-Nitrosodimethylamine	1	25	9.1638	36.7	10 - 80.1	
n-Nitrosodi-n-propylamine	1	25	16.499	66	33.2 - 106	
n-Nitrosodiphenylamine	1	25	17.468	69.9	44.4 - 113	
Pentachlorophenol	1	25	16.128	64.5	10 - 97.4	
Phenanthrene	1	25	17.128	68.5	46.4 - 113	
Phenol	1	25	10.336	41.3	10 - 57.9	
Pyrene	1	25	15.955	63.8	46.3 - 117	

Parameters in bold text are reported in this SDG

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Quality Control Summary
SDG: L729800
URS Corporation - Tucson AZ - 1088308

Test:	Semi-Volatiles by Method 8270C		
Project No:	23446543.0053AA	Matrix:	Water - ug/L
Project:	Holloman AFB	EPA ID:	TN00003
Collection Date:	10/23/2014	**Analytic Batch:**	**WG751293**
Analysis Date:	10/29/2014	Analyst:	280
Instrument ID:	BNAMS11	Prep Date:	10/28/2014
Sample Numbers:	L729800-01		

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	25	14.053	56.2	14.833	59.3	22.9 - 96.1		5.4	27.5	
2,4,5-Trichlorophenol	1	25	18.034	72.1	18.265	73.1	34.9 - 112		1.27	23.9	
2,4,6-Trichlorophenol	1	25	16.361	65.4	16.457	65.8	29.8 - 107		0.58	24.1	
2,4-Dichlorophenol	1	25	17.541	70.2	19.274	77.1	31.4 - 103		9.42	24.9	
2,4-Dimethylphenol	1	25	16.721	66.9	17.317	69.3	31.9 - 107		3.5	25.7	
2,4-Dinitrophenol	1	25	13.451	53.8	13.932	55.7	24.2 - 128		3.51	20.5	
2,4-Dinitrotoluene	1	25	16.757	67	16.549	66.2	31.2 - 105		1.25	22	
2,6-Dinitrotoluene	1	25	16.166	64.7	16.919	67.7	30.6 - 106		4.55	23.1	
2-Chloronaphthalene	1	25	16.227	64.9	16.399	65.6	33.6 - 105		1.05	23	
2-Chlorophenol	1	25	15.576	62.3	16.317	65.3	26.2 - 91.5		4.65	26.5	
2-Methylnaphthalene	1	25	15.356	61.4	15.389	61.6	33.8 - 98.6		0.21	24.2	
2-Methylphenol	1	25	14.796	59.2	15.670	62.7	26.4 - 86.9		5.74	26.5	
2-Nitroaniline	1	25	16.082	64.3	16.286	65.1	35.6 - 113		1.26	20.9	
2-Nitrophenol	1	25	16.464	65.9	17.580	70.3	25.9 - 106		6.56	26.9	
3&4-Methyl Phenol	1	25	16.139	64.6	16.644	66.6	27.9 - 92		3.08	27	
3,3-Dichlorobenzidine	1	25	19.074	76.3	19.305	77.2	27.2 - 142		1.2	22.3	
3-Nitroaniline	1	25	16.162	64.6	15.629	62.5	33.6 - 103		3.35	21.8	
4,6-Dinitro-2-methylphenol	1	25	14.883	59.5	13.611	54.4	18.4 - 148		8.93	24.4	
4-Bromophenyl-phenylether	1	25	18.658	74.6	18.703	74.8	40.7 - 116		0.24	21	
4-Chloro-3-methylphenol	1	25	16.514	66.1	17.484	69.9	35.7 - 100		5.7	22.9	
4-Chloroaniline	1	25	15.564	62.3	15.999	64	32 - 104		2.76	26.4	
4-Chlorophenyl-phenylether	1	25	15.348	61.4	15.081	60.3	39 - 113		1.75	20.9	
4-Nitroaniline	1	25	16.541	66.2	17.275	69.1	35.4 - 124		4.34	23.1	
4-Nitrophenol	1	25	7.6684	30.7	7.9387	31.8	10 - 52.7		3.46	40	
Acenaphthene	1	25	15.985	63.9	15.968	63.9	38.7 - 109		0.1	21.5	
Acenaphthylene	1	25	16.721	66.9	16.413	65.7	36 - 106		1.86	21	
Anthracene	1	25	17.983	71.9	17.749	71	43.6 - 113		1.31	18.8	
Azobenzene	1	25	15.853	63.4	15.440	61.8	37.6 - 111		2.64	21.1	
Benzo(a)anthracene	1	25	17.852	71.4	17.570	70.3	51.2 - 112		1.59	20	
Benzo(a)pyrene	1	25	16.694	66.8	16.614	66.5	45.6 - 106		0.49	20	
Benzo(b)fluoranthene	1	25	15.859	63.4	17.653	70.6	47.6 - 111		10.7	20	
Benzo(g,h,i)perylene	1	25	19.834	79.3	19.978	79.9	45.2 - 117		0.72	20	
Benzo(k)fluoranthene	1	25	16.868	67.5	14.884	59.5	49.4 - 114		12.5	20	
Benzoic Acid	1	25	6.6450	26.6	8.1279	32.5	0 - 79.4		20.1	31.1	
Benzyl Alcohol	1	25	14.456	57.8	14.199	56.8	30.1 - 89.2		1.79	24.8	
Benzylbutyl phthalate	1	25	16.029	64.1	16.109	64.4	31.8 - 123		0.5	20.7	

Parameters in bold text are reported in this SDG

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Quality Control Summary
SDG: L729800
URS Corporation - Tucson AZ - 1088308

Test:	Semi-Volatiles by Method 8270C		
Project No:	23446543.0053AA	Matrix:	Water - ug/L
Project:	Holloman AFB	EPA ID:	TN00003
Collection Date:	10/23/2014	**Analytic Batch:**	**WG751293**
Analysis Date:	10/29/2014	Analyst:	280
Instrument ID:	BNAMS11	Prep Date:	10/28/2014
Sample Numbers:	L729800-01		

Laboratory Control Sample / Laboratory Control Sample Duplicate

Analyte	Dil	Spike	LCS	% Rec	LCSD	% Rec	Control Limits	% Rec Qual	% RPD	Control Limits	RPD Qual
Bis(2-chlorethoxy)methane	1	25	17.180	68.7	16.967	67.9	37.2 - 111		1.25	24.1	
Bis(2-chloroethyl)ether	1	25	14.504	58	15.353	61.4	22.6 - 108		5.68	27.9	
Bis(2-chloroisopropyl)ether	1	25	16.318	65.3	16.271	65.1	32.9 - 100		0.29	25.1	
Bis(2-ethylhexyl)phthalate	1	25	15.727	62.9	15.834	63.3	36.9 - 134		0.68	23.6	
Carbazole	1	25	17.206	68.8	17.303	69.2	49 - 110		0.56	20	
Chrysene	1	25	17.551	70.2	17.453	69.8	54.6 - 120		0.56	20	
Dibenz(a,h)anthracene	1	25	18.583	74.3	18.483	73.9	42.8 - 118		0.54	20	
Dibenzofuran	1	25	16.940	67.8	16.180	64.7	42.4 - 105		4.59	20	
Diethyl phthalate	1	25	16.274	65.1	16.273	65.1	36.5 - 129		0	20	
Dimethyl phthalate	1	25	17.068	68.3	17.093	68.4	35.3 - 128		0.15	20.8	
Di-n-butyl phthalate	1	25	16.736	66.9	16.401	65.6	41.8 - 120		2.02	20.2	
Di-n-octyl phthalate	1	25	17.159	68.6	17.093	68.4	39.7 - 112		0.39	21.1	
Fluoranthene	1	25	16.783	67.1	16.935	67.7	45.9 - 115		0.9	20	
Fluorene	1	25	16.253	65	16.327	65.3	41 - 112		0.46	20.2	
Hexachloro-1,3-butadiene	1	25	12.634	50.5	12.787	51.1	16.1 - 104		1.2	31.2	
Hexachlorobenzene	1	25	21.515	86.1	20.863	83.5	38.5 - 116		3.08	20.1	
Hexachloroethane	1	25	11.335	45.3	11.366	45.5	16.5 - 89.8		0.27	30.7	
Indeno(1,2,3-cd)pyrene	1	25	19.522	78.1	18.826	75.3	45 - 116		3.63	20	
Isophorone	1	25	18.541	74.2	19.004	76	35.4 - 112		2.47	21.5	
Naphthalene	1	25	14.671	58.7	15.290	61.2	32.2 - 101		4.13	23.8	
Nitrobenzene	1	25	15.533	62.1	16.587	66.3	31.4 - 106		6.56	25.7	
n-Nitrosodimethylamine	1	25	8.2459	33	9.1638	36.7	10 - 80.1		10.6	37.5	
n-Nitrosodi-n-propylamine	1	25	16.373	65.5	16.499	66	33.2 - 106		0.77	23.7	
n-Nitrosodiphenylamine	1	25	16.904	67.6	17.468	69.9	44.4 - 113		3.28	20	
Pentachlorophenol	1	25	15.432	61.7	16.128	64.5	10 - 97.4		4.41	35.1	
Phenanthrene	1	25	17.317	69.3	17.128	68.5	46.4 - 113		1.1	20	
Phenol	1	25	9.5986	38.4	10.336	41.3	10 - 57.9		7.4	35	
Pyrene	1	25	16.221	64.9	15.955	63.8	46.3 - 117		1.65	20	

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Quality Control Summary
SDG: L729800
URS Corporation - Tucson AZ - 1088308

Test:	Semi-Volatiles by Method 8270C		
Project No:	23446543.0053AA	Matrix:	Water - ug/L
Project:	Holloman AFB	EPA ID:	TN00003
Collection Date:	10/23/2014	**Analytic Batch:**	**WG751293**
Analysis Date:	10/29/2014	Analyst:	280
Instrument ID:	BNAMS11	Prep Date:	10/28/2014
Sample Numbers:	L729800-01		

Matrix Spike / Matrix Spike Duplicate

L729800-01

Analyte	Dil	Spike Value	Sample	MS	% Rec	MSD	% Rec	Control Limits	% Rec Qual	RPD	Control Limits	RPD Qual
1,2,4-Trichlorobenzene	1	25	<0.355	13.511	54	14.394	57.6	21.4 - 101		6.32	31.3	
2,4,5-Trichlorophenol	1	25	<0.236	17.079	68.3	19.080	76.3	30.6 - 120		11.1	33.8	
2,4,6-Trichlorophenol	1	25	<0.297	15.470	61.9	17.674	70.7	19.1 - 114		13.3	29.9	
2,4-Dichlorophenol	1	25	<0.284	17.431	69.7	18.295	73.2	34.7 - 107		4.84	27.3	
2,4-Dimethylphenol	1	25	<0.624	15.182	60.7	16.520	66.1	10 - 152		8.44	35.4	
2,4-Dinitrophenol	1	25	<3.25	13.114	52.5	13.093	52.4	10 - 136		0.16	40	
2,4-Dinitrotoluene	1	25	<1.65	16.275	65.1	18.058	72.2	16.2 - 135		10.4	20.6	
2,6-Dinitrotoluene	1	25	<0.279	16.676	66.7	18.728	74.9	25.2 - 124		11.6	22.2	
2-Chloronaphthalene	1	25	<0.33	15.717	62.9	16.596	66.4	29.7 - 114		5.44	24.2	
2-Chlorophenol	1	25	<0.283	14.067	56.3	14.958	59.8	13.9 - 105		6.14	32.4	
2-Methylnaphthalene	1	25	<0.0155	14.964	59.9	16.179	64.7	24.6 - 114		7.8	23.7	
2-Methylphenol	1	25	<0.312	13.497	54	14.466	57.9	10 - 133		6.93	40	
2-Nitroaniline	1	25	<1.9	15.985	63.9	17.957	71.8	23.5 - 134		11.6	21.8	
2-Nitrophenol	1	25	<0.32	16.002	64	17.578	70.3	26.7 - 114		9.39	34	
3&4-Methyl Phenol	1	25	<0.266	14.673	58.7	16.104	64.4	17.4 - 100		9.3	27.7	
3,3-Dichlorobenzidine	1	25	<2.02	12.471	49.9	13.881	55.5	10 - 162		10.7	26.9	
3-Nitroaniline	1	25	<0.308	13.384	53.5	14.860	59.4	10 - 128		10.4	23	
4,6-Dinitro-2-methylphenol	1	25	<2.62	11.019	44.1	12.082	48.3	10 - 151		9.2	37.4	
4-Bromophenyl-phenylether	1	25	<0.355	19.537	78.1	21.230	84.9	34.3 - 135		8.3	23.2	
4-Chloro-3-methylphenol	1	25	<0.263	17.176	68.7	18.165	72.7	35.7 - 110		5.6	20	
4-Chloroaniline	1	25	<0.382	13.003	52	14.818	59.3	10 - 123		13	21.9	
4-Chlorophenyl-phenylether	1	25	<0.303	15.591	62.4	16.296	65.2	35.6 - 127		4.43	20	
4-Nitroaniline	1	25	<0.349	14.644	58.6	17.462	69.8	10 - 168		17.6	22.4	
4-Nitrophenol	1	25	<2.01	7.4433	29.8	7.7098	30.8	10 - 130		3.52	40	
Acenaphthene	1	25	<0.0082	15.354	61.4	16.464	65.9	30.7 - 124		6.98	22.6	
Acenaphthylene	1	25	<0.0109	16.060	64.2	17.658	70.6	29 - 122		9.48	23.9	
Anthracene	1	25	<0.0131	17.935	71.7	19.419	77.7	34.2 - 135		7.94	20	
Azobenzene	1	25	<0.318	15.492	62	16.744	67	25.2 - 135		7.77	20	
Benzo(a)anthracene	1	25	<0.0124	16.520	66.1	17.928	71.7	35.7 - 138		8.18	20	
Benzo(a)pyrene	1	25	<0.0158	14.333	57.3	15.365	61.5	23.3 - 135		6.95	20	
Benzo(b)fluoranthene	1	25	<0.0192	14.659	58.6	15.665	62.7	23 - 145		6.64	20	
Benzo(g,h,i)perylene	1	25	<0.0157	16.346	65.4	17.679	70.7	10 - 148		7.84	21	
Benzo(k)fluoranthene	1	25	<0.0255	14.129	56.5	15.928	63.7	29.5 - 143		12	20	
Benzoic Acid	1	25	9.0943	24.443	61.4	20.744	46.6	10 - 104.4		16.4	40	
Benzyl Alcohol	1	25	0.5865	11.928	45.4	13.577	52	10 - 135		12.9	34.4	
Benzylbutyl phthalate	1	25	<0.275	16.886	67.5	18.598	74.4	13.3 - 159		9.65	21.2	

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Quality Control Summary
SDG: L729800
URS Corporation - Tucson AZ - 1088308

Test:	Semi-Volatiles by Method 8270C		
Project No:	23446543.0053AA	Matrix:	Water - ug/L
Project:	Holloman AFB	EPA ID:	TN00003
Collection Date:	10/23/2014	**Analytic Batch:**	**WG751293**
Analysis Date:	10/29/2014	Analyst:	280
Instrument ID:	BNAMS11	Prep Date:	10/28/2014
Sample Numbers:	L729800-01		

Matrix Spike / Matrix Spike Duplicate

L729800-01

Analyte	Dil	Spike Value	Sample	MS	% Rec	MSD	% Rec	Control Limits	% Rec Qual	RPD	Control Limits	RPD Qual
Bis(2-chlorethoxy)methane	1	25	<0.329	15.977	63.9	17.226	68.9	26.4 - 127		7.52	25.8	
Bis(2-chloroethyl)ether	1	25	<1.62	13.039	52.2	14.480	57.9	10 - 154		10.5	40	
Bis(2-chloroisopropyl)ether	1	25	<0.445	15.328	61.3	16.401	65.6	19.4 - 126		6.77	37.2	
Bis(2-ethylhexyl)phthalate	1	25	0.8214	16.646	63.3	15.464	58.6	15.5 - 152		7.36	27.6	
Carbazole	1	25	<0.162	17.003	68	18.404	73.6	33.3 - 134		7.92	20	
Chrysene	1	25	<0.0144	16.137	64.5	18.049	72.2	37 - 145		11.2	20	
Dibenz(a,h)anthracene	1	25	<0.0045	15.448	61.8	17.242	69	10 - 147		11	22.3	
Dibenzofuran	1	25	<0.338	16.202	64.8	17.484	69.9	28 - 127		7.61	20	
Diethyl phthalate	1	25	0.5395	17.238	66.8	18.542	72	21.6 - 154		7.29	20	
Dimethyl phthalate	1	25	<0.283	17.002	68	18.586	74.3	10 - 157		8.9	20	
Di-n-butyl phthalate	1	25	0.4614	17.947	69.9	19.066	74.4	26 - 152		6.05	20	
Di-n-octyl phthalate	1	25	<0.278	13.590	54.4	15.628	62.5	12.3 - 145		14	22.9	
Fluoranthene	1	25	<0.0165	16.881	67.5	18.284	73.1	37.1 - 139		7.98	20	
Fluorene	1	25	<0.0090	15.956	63.8	16.748	67	10 - 162		4.84	20	
Hexachloro-1,3-butadiene	1	25	<0.329	12.210	48.8	12.591	50.4	15.7 - 109		3.07	37.6	
Hexachlorobenzene	1	25	<0.341	20.990	84	22.513	90.1	31.9 - 135		7	20	
Hexachloroethane	1	25	<0.365	10.596	42.4	12.067	48.3	10.4 - 105		13	40	
Indeno(1,2,3-cd)pyrene	1	25	<0.0074	16.125	64.5	17.895	71.6	10 - 145		10.4	20	
Isophorone	1	25	<0.272	17.872	71.5	19.477	77.9	25.9 - 133		8.59	22.9	
Naphthalene	1	25	0.2364	13.986	55	15.145	59.6	20.2 - 114		7.96	27.5	
Nitrobenzene	1	25	<0.367	15.150	60.6	16.298	65.2	23.1 - 121		7.3	29	
n-Nitrosodimethylamine	1	25	<1.26	7.2526	29	8.3768	33.5	10 - 94.5		14.4	40	
n-Nitrosodi-n-propylamine	1	25	<0.403	15.420	61.7	17.029	68.1	23.9 - 125		9.92	29.7	
n-Nitrosodiphenylamine	1	25	<0.304	16.981	67.9	18.179	72.7	20.6 - 150		6.82	20	
Pentachlorophenol	1	25	<0.313	14.338	57.4	15.457	61.8	10 - 108		7.51	40	
Phenanthrene	1	25	<0.0184	17.100	68.4	18.404	73.6	33 - 139		7.34	20	
Phenol	1	25	<0.334	9.3905	36.3	10.683	41.4	10 - 64.1		12.9	40	
Pyrene	1	25	<0.0155	15.594	62.4	16.940	67.8	35.5 - 139		8.27	20	

Parameters in bold text are reported in this SDG

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Quality Control Summary
SDG: L729800
URS Corporation - Tucson AZ - 1088308

Test:	Semi-Volatiles by Method 8270C		
Project No:	23446543.0053AA	Matrix:	Water - ug/L
Project:	Holloman AFB	EPA ID:	TN00003
Collection Date:	10/23/2014	**Analytic Batch:**	**WG751293**
Analysis Date:	10/29/2014	Analyst:	280
Instrument ID:	BNAMS11	Prep Date:	10/28/2014
Sample Numbers:	L729800-01		

Internal Standard Response and Retention Time Summary

File ID: 1028A_02
Analyzed: 10/29/14 031500

	DCB		ACE		CHR		NAP	
	Response	**RT**	**Response**	**RT**	**Response**	**RT**	**Response**	**RT**
12 Hr. Std	59383	5.14	162088	8.21	368062	12.65	248734	6.37
Upper Limit	119000	5.64	324000	8.71	736000	13.15	497000	6.87
Lower Limit	29700	4.64	81000	7.71	184000	12.15	124000	5.87
Sample ID	**Response**	**RT**	**Response**	**RT**	**Response**	**RT**	**Response**	**RT**
L729800-01	89767	5.14	259501	8.21	590725	12.65	375262	6.37
MSD WG751293	84059	5.14	238235	8.22	553485	12.65	348821	6.38
MS WG751293	89337	5.15	247905	8.22	589728	12.65	365560	6.38
LCSD WG751293	94545	5.14	260412	8.22	578992	12.65	389288	6.37
LCS WG751293	93651	5.15	259378	8.22	586092	12.65	387941	6.37
BLANK WG751293	91395	5.14	247736	8.21	543478	12.65	383520	6.37

Legend:

DCB -- 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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Quality Control Summary
SDG: L729800
URS Corporation - Tucson AZ - 1088308

Test:	Semi-Volatiles by Method 8270C		
Project No:	23446543.0053AA	Matrix:	Water - ug/L
Project:	Holloman AFB	EPA ID:	TN00003
Collection Date:	10/23/2014	**Analytic Batch:**	**WG751293**
Analysis Date:	10/29/2014	Analyst:	280
Instrument ID:	BNAMS11	Prep Date:	10/28/2014
Sample Numbers:	L729800-01		

Internal Standard Response and Retention Time Summary

File ID: 1028A_02
Analyzed: 10/29/14 031500

	DCB		PER		PHEN	
	Response	**RT**	**Response**	**RT**	**Response**	**RT**
12 Hr. Std	59383	5.14	450678	14.11	300936	9.81
Upper Limit	119000	5.64	901000	14.61	602000	10.31
Lower Limit	29700	4.64	225000	13.61	150000	9.31
Sample ID	**Response**	**RT**	**Response**	**RT**	**Response**	**RT**
L729800-01	89767	5.14	784858	14.11	481968	9.81
MSD WG751293	84059	5.14	726824	14.11	441209	9.81
MS WG751293	89337	5.15	763093	14.11	464971	9.81
LCSD WG751293	94545	5.14	747422	14.11	476998	9.81
LCS WG751293	93651	5.15	762748	14.11	482872	9.81
BLANK WG751293	91395	5.14	703517	14.11	459520	9.81

Legend:
DCB -- 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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Quality Control Summary
SDG: L729800
URS Corporation - Tucson AZ - 1088308

Test:	Semi-Volatiles by Method 8270C		
Project No:	23446543.0053AA	Matrix:	Water - ug/L
Project:	Holloman AFB	EPA ID:	TN00003
Collection Date:	10/23/2014	**Analytic Batch:**	**WG751293**
Analysis Date:	10/29/2014	Analyst:	280
Instrument ID:	BNAMS11	Prep Date:	10/28/2014
Sample Numbers:	L729800-01		

Surrogate Summary

			TBP		2-Fluorobiphenyl		2FP		Nitrobenzene-d5	
Laboratory Sample ID	Instrument	File ID	ppm	% Rec	ppm	% Rec	ppm	% Rec	ppm	% Rec
L729800-01	BNAMS11	1028A_16	0.0157	78.5	0.00602	60.2	0.0101	50.7	0.00549	54.9
LCS WG751293	BNAMS11	1028A_04-	0.0160	79.9	0.00612	61.2	0.00962	48.1	0.00613	61.3
MS WG751293	BNAMS11	1028A_17-	0.0153	76.7	0.00617	61.7	0.00858	42.9	0.00545	54.5
LCSD WG751293	BNAMS11	1028A_05-	0.0161	80.7	0.00614	61.4	0.0108	54.0	0.00612	61.2
BLANK WG751293	BNAMS11	1028A_06-	0.0132	66.1	0.00607	60.7	0.0106	53.2	0.00591	59.1
MSD WG751293	BNAMS11	1028A_18-	0.0177	88.4	0.00639	63.9	0.00978	48.9	0.00611	61.1

TBP --2,4,6-TRIBROMOPHENOL	True Value: 0.02 ppm	Limits: 11.2 - 130
2-Fluorobiphenyl --2-FLUOROBIPHENYL	True Value: 0.01 ppm	Limits: 29.5 - 131
2FP --2-FLUOROPHENOL	True Value: 0.02 ppm	Limits: 10 - 77.9
Nitrobenzene-d5 --NITROBENZENE-D5	True Value: 0.01 ppm	Limits: 21.8 - 123
p-Terphenyl-d14 --P-TERPHENYL-D14	True Value: 0.01 ppm	Limits: 29.3 - 137
PHL --PHENOL-D5	True Value: 0.02 ppm	Limits: 5 - 70.1

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Quality Control Summary
SDG: L729800
URS Corporation - Tucson AZ - 1088308

Test:	Semi-Volatiles by Method 8270C		
Project No:	23446543.0053AA	Matrix:	Water - ug/L
Project:	Holloman AFB	EPA ID:	TN00003
Collection Date:	10/23/2014	**Analytic Batch:**	**WG751293**
Analysis Date:	10/29/2014	Analyst:	280
Instrument ID:	BNAMS11	Prep Date:	10/28/2014
Sample Numbers:	L729800-01		

Surrogate Summary

Laboratory Sample ID	Instrument	File ID	p-Terphenyl-d14 ppm	p-Terphenyl-d14 % Rec	PHL ppm	PHL % Rec
L729800-01	BNAMS11	1028A_16	0.00587	58.7	0.00760	38.0
LCS WG751293	BNAMS11	1028A_04-	0.00593	59.3	0.00745	37.3
MS WG751293	BNAMS11	1028A_17-	0.00541	54.1	0.00709	35.5
LCSD WG751293	BNAMS11	1028A_05-	0.00596	59.6	0.00794	39.7
BLANK WG751293	BNAMS11	1028A_06-	0.00574	57.4	0.00735	36.7
MSD WG751293	BNAMS11	1028A_18-	0.00598	59.8	0.00750	37.5

TBP --2,4,6-TRIBROMOPHENOL	True Value: 0.02 ppm	Limits: 11.2 - 130
2-Fluorobiphenyl --2-FLUOROBIPHENYL	True Value: 0.01 ppm	Limits: 29.5 - 131
2FP --2-FLUOROPHENOL	True Value: 0.02 ppm	Limits: 10 - 77.9
Nitrobenzene-d5 --NITROBENZENE-D5	True Value: 0.01 ppm	Limits: 21.8 - 123
p-Terphenyl-d14 --P-TERPHENYL-D14	True Value: 0.01 ppm	Limits: 29.3 - 137
PHL --PHENOL-D5	True Value: 0.02 ppm	Limits: 5 - 70.1

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Quality Control Summary
SDG: L729800
URS Corporation - Tucson AZ - 1088308

Test:	Semi-Volatiles by Method 8270C		
Project No:	23446543.0053AA	Matrix:	Water - mg/L
Project:	Holloman AFB	EPA ID:	TN00003
Collection Date:	10/23/2014	**Analytic Batch:**	**WG751293**
Analysis Date:	10/29/2014	Analyst:	280
Instrument ID:	BNAMS11	Prep Date:	10/28/2014
Sample Numbers:	L729800-01		

Instrument Performance Summary

FileID:1028A_01.D Date:10/29/2014 Time: 2:52 AM

m/e	Ion Abundance Criteria	% Relative Abundance
51	30 - 60% of mass 198	39.7
68	Less than 2% of mass 69	1.9
69	Less than 100% of mass 198	41.1
70	Less than 2% of mass 69	0.5
127	40 - 60% of mass 198	50.6
197	Less than 1% of mass 198	0.3
198	Base Peak, 100% relative abundance	100.0
199	5 - 9% of mass 198	6.8
275	10 - 30% of mass 198	28.9
365	1 - 100% of mass 198	5.6
441	Present, but less than mass 443	76.0
442	40 - 100% of mass 198	93.2
443	17 - 23% 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 WG751293	LCS WG751293	1028A_04.D	10/29/2014	3:58 AM
LCSD WG751293	LCSD WG751293	1028A_05.D	10/29/2014	4:19 AM
Blank WG751293	Blank WG751293	1028A_06.D	10/29/2014	4:40 AM
H-TU904-GW03-NT01	L729800-01	1028A_16.D	10/29/2014	8:13 AM
MS WG751293	MS WG751293	1028A_17.D	10/29/2014	8:34 AM
MSD WG751293	MSD WG751293	1028A_18.D	10/29/2014	8:56 AM

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Quality Control Summary
SDG: L729800
URS Corporation - Tucson AZ - 1088308

Test: Semi-Volatiles by Method 8270C
Project: Holloman AFB
Instrument ID: BNAMS11
Method Name : S811J04N.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	2.315	2.107	2.082	2.150	2.243	1.999	1.971	1.989	1.962	2.090828	6.02
N-Nitrosodimethylamine	1.271	1.393	1.292	1.355	1.521	1.227	1.253	1.270	1.239	1.313538	7.22
2-Fluorophenol	1.182	1.257	1.280	1.330	1.361	1.315	1.300	1.343	1.318	1.298264	4.15
Aniline	0.770	0.913	0.817	0.879	0.823	0.857	0.844	0.854	0.843	0.844494	4.76
bis(2-Chloroethyl)ether	1.173	1.182	1.118	1.157	1.155	1.074	1.038	1.030	1.010	1.104090	6.09
Phenol-d5	1.576	1.663	1.616	1.662	1.739	1.684	1.649	1.716	1.655	1.662095	2.94
Phenol	1.470	1.708	1.653	1.717	1.764	1.676	1.672	1.695	1.668	1.669388	4.89
Benzaldehyde										0.685862	10.63
2-Chlorophenol	1.465	1.507	1.456	1.501	1.481	1.469	1.468	1.470	1.468	1.476132	1.18
n-Decane	1.167	1.204	1.061	1.108	1.132	1.001	0.967	0.941	0.925	1.056357	9.70
1,3-Dichlorobenzene	1.571	1.780	1.664	1.669	1.659	1.625	1.612	1.673	1.672	1.658414	3.45
1,4-Dichlorobenzene	1.775	1.721	1.674	1.687	1.708	1.684	1.649	1.701	1.678	1.697583	2.12
Benzyl Alcohol	1.264	1.368	1.237	1.340	1.421	1.343	1.336	1.396	1.336	1.337978	4.33
1,2-Dichlorobenzene	1.607	1.657	1.589	1.595	1.567	1.571	1.551	1.587	1.576	1.588679	1.91
bis(2-Chloroisopropyl)ether	0.474	0.470	0.469	0.472	0.481	0.460	0.441	0.449	0.455	0.463460	2.83
2-Methylphenol	1.126	1.301	1.297	1.328	1.299	1.283	1.240	1.280	1.267	1.269117	4.64
Hexachloroethane	0.616	0.787	0.749	0.766	0.777	0.758	0.756	0.772	0.745	0.747519	6.85
N-Nitrosodi-n-propylamine	1.012	1.129	1.089	1.108	1.115	1.070	1.043	1.063	1.074	1.077981	3.43
3&4-Methyl phenol	1.352	1.598	1.433	1.544	1.539	1.499	1.472	1.513	1.466	1.490602	4.78
Acetophenone										1.900184	6.47
Nitrobenzene-d5	0.336	0.393	0.391	0.395	0.416	0.405	0.411	0.400	0.402	0.394320	5.89
Nitrobenzene	0.327	0.403	0.396	0.412	0.406	0.399	0.402	0.397	0.403	0.393881	6.48
Isophorone	0.565	0.681	0.635	0.667	0.688	0.672	0.675	0.669	0.661	0.657088	5.70
2-Nitrophenol	0.156	0.177	0.183	0.191	0.191	0.195	0.200	0.203	0.205	0.189026	8.13
2,4-Dimethylphenol	0.342	0.415	0.394	0.390	0.381	0.383	0.381	0.384	0.387	0.384039	4.93
bis(2-Chlorethoxy)methane	0.412	0.462	0.422	0.428	0.424	0.414	0.410	0.406	0.411	0.421024	4.11
2,4-Dichlorophenol	0.269	0.290	0.284	0.306	0.301	0.304	0.315	0.322	0.323	0.301569	5.93
Benzoic Acid										0.193154	30.09

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Quality Control Summary
SDG: L729800
URS Corporation - Tucson AZ - 1088308

Test: Semi-Volatiles by Method 8270C
Project: Holloman AFB
Instrument ID: BNAMS11
Method Name : S811J04N.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	0.330	0.375	0.356	0.358	0.349	0.365	0.362	0.366	0.376	0.359610	3.88
Naphthalene	1.344	1.179	1.114	1.094	1.098	1.098	1.110	1.099	1.107	1.137933	7.15
4-Chloroaniline	0.136	0.174	0.154	0.159	0.163	0.156	0.155	0.153	0.153	0.156009	6.42
Hexachloro-1,3-butadiene	0.222	0.232	0.238	0.233	0.231	0.245	0.248	0.249	0.257	0.239333	4.66
Caprolactam										0.093760	8.24
4-Chloro-3-methylphenol	0.302	0.334	0.341	0.357	0.362	0.365	0.370	0.374	0.371	0.352744	6.68
2-Methylnaphthalene	0.778	0.811	0.804	0.807	0.805	0.826	0.833	0.835	0.834	0.814702	2.32
1-Methylnaphthalene	0.716	0.771	0.750	0.761	0.738	0.749	0.761	0.754	0.762	0.751458	2.16
1,2,4,5-Tetrachlorobenzene										0.382003	4.23
Hexachlorocyclopentadiene			0.319	0.349	0.390	0.423	0.438	0.459	0.474	0.407331	14.08
2,4,6-Trichlorophenol	0.363	0.342	0.368	0.380	0.384	0.392	0.403	0.413	0.418	0.384821	6.40
2,4,5-Trichlorophenol	0.374	0.375	0.383	0.389	0.414	0.417	0.430	0.438	0.428	0.405343	6.23
2-Fluorobiphenyl	1.418	1.400	1.416	1.397	1.463	1.446	1.468	1.460	1.478	1.438507	2.15
Biphenyl	1.501	1.582	1.619	1.586	1.631	1.617	1.640	1.632	1.624	1.603536	2.70
2-Chloronaphthalene	1.223	1.249	1.223	1.222	1.214	1.230	1.220	1.231	1.211	1.224788	0.92
2-Nitroaniline			0.326	0.378	0.400	0.409	0.412	0.423	0.416	0.394898	8.53
Acenaphthylene	1.870	1.882	1.939	1.957	1.995	2.033	2.006	1.995	1.998	1.963875	2.89
Dimethyl phthalate	1.228	1.333	1.359	1.327	1.399	1.434	1.433	1.426	1.442	1.375591	5.16
2,6-Dinitrotoluene		0.269	0.296	0.308	0.326	0.325	0.329	0.333	0.332	0.314906	7.15
3-Nitroaniline		0.309	0.338	0.342	0.358	0.369	0.364	0.367	0.365	0.351592	5.91
Acenaphthene	1.408	1.272	1.298	1.320	1.337	1.328	1.325	1.331	1.334	1.328109	2.73
2,4-Dinitrophenol			0.111	0.142	0.183	0.205	0.222	0.230	0.234	0.189665	24.87
Dibenzofuran	1.824	1.875	1.810	1.751	1.813	1.790	1.821	1.814	1.848	1.816161	1.90
2,4-Dinitrotoluene			0.371	0.394	0.432	0.450	0.454	0.462	0.460	0.431880	8.27
2,3,4,6-Tetrachlorophenol										0.284487	10.95
4-Nitrophenol			0.236	0.255	0.289	0.294	0.297	0.302	0.304	0.282413	9.28
Fluorene	1.504	1.491	1.507	1.467	1.508	1.534	1.552	1.579	1.584	1.524978	2.63
4-Chlorophenyl-phenylether	0.769	0.776	0.713	0.717	0.737	0.767	0.781	0.811	0.820	0.765725	4.91
Diethyl phthalate	1.310	1.430	1.440	1.454	1.588	1.619	1.603	1.607	1.621	1.519097	7.43

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Quality Control Summary
SDG: L729800
URS Corporation - Tucson AZ - 1088308

Test: Semi-Volatiles by Method 8270C
Project: Holloman AFB
Instrument ID: BNAMS11
Method Name : S811J04N.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		0.301	0.321	0.334	0.349	0.361	0.365	0.367	0.367	0.345584	7.20
Azobenzene	1.338	1.544	1.531	1.595	1.678	1.615	1.659	1.667	1.686	1.590273	6.94
Atrazine										0.390180	10.42
4,6-Dinitro-2-methylphenol			0.104	0.120	0.135	0.139	0.141	0.149	0.153	0.134374	12.86
N-Nitrosodiphenylamine	0.644	0.682	0.646	0.639	0.639	0.675	0.666	0.677	0.694	0.662707	3.17
2,4,6-Tribromophenol		0.092	0.097	0.098	0.100	0.110	0.113	0.121	0.128	0.107443	11.80
4-Bromophenyl-phenylether	0.198	0.208	0.205	0.211	0.211	0.229	0.229	0.237	0.250	0.219874	7.91
Hexachlorobenzene	0.224	0.239	0.234	0.233	0.227	0.250	0.249	0.262	0.272	0.243254	6.62
n-octadecane	0.171	0.176	0.148	0.164	0.178	0.162	0.159	0.155	0.155	0.163008	6.21
Pentachlorophenol	0.070	0.091	0.102	0.114	0.131	0.146	0.150	0.159	0.155	0.124098	25.49
Phenanthrene	1.269	1.244	1.144	1.153	1.171	1.194	1.162	1.192	1.229	1.195286	3.63
Anthracene	1.055	1.199	1.133	1.160	1.190	1.208	1.206	1.214	1.232	1.177511	4.66
Carbazole	1.113	1.175	1.123	1.162	1.147	1.142	1.142	1.163	1.184	1.150055	2.03
Di-n-butyl phthalate	1.165	1.332	1.352	1.502	1.551	1.629	1.632	1.650	1.689	1.500241	11.94
2-nitrodiphenylamine										0.283613	25.76
Fluoranthene	1.376	1.448	1.432	1.457	1.478	1.551	1.560	1.621	1.664	1.509683	6.29
Benzidine										0.638760	25.09
Pyrene	1.288	1.352	1.292	1.298	1.410	1.416	1.364	1.371	1.394	1.353860	3.70
p-Terphenyl-d14	0.959	0.973	0.950	0.991	1.040	1.055	1.034	1.062	1.081	1.016176	4.77
Benzylbutyl phthalate	0.490	0.521	0.524	0.603	0.687	0.693	0.694	0.696	0.700	0.623145	14.31
3,3-Dichlorobenzidine										0.471320	8.89
Benzo(a)anthracene	1.349	1.329	1.322	1.322	1.369	1.410	1.383	1.389	1.383	1.361649	2.39
Chrysene	1.201	1.244	1.197	1.224	1.242	1.260	1.249	1.263	1.270	1.238787	2.13
bis(2-Ethylhexyl)phthalate	1.177	0.837	0.802	0.927	1.026	1.036	1.025	1.013	1.026	0.985453	11.55
Di-n-octyl phthalate	1.139	1.430	1.436	1.612	1.800	1.840	1.808	1.806	1.800	1.630273	15.08
Benzo(b)fluoranthene	1.229	1.339	1.274	1.263	1.242	1.270	1.295	1.351	1.322	1.287246	3.31
Benzo(k)fluoranthene	1.215	1.103	1.094	1.131	1.212	1.234	1.252	1.210	1.270	1.191277	5.46
Benzo(a)pyrene	1.131	1.183	1.142	1.168	1.220	1.265	1.277	1.280	1.280	1.216419	5.07
Indeno(1,2,3-cd)pyrene	1.438	1.437	1.403	1.400	1.475	1.544	1.482	1.474	1.448	1.455632	3.05

12065 Lebanon Rd
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(615) 758-5858
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Tax I.D 62-0814289
Est. 1970

Quality Control Summary
SDG: L729800
URS Corporation - Tucson AZ - 1088308

Test: Semi-Volatiles by Method 8270C
Project: Holloman AFB
Instrument ID: BNAMS11
Method Name : S811J04N.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	1.229	1.223	1.194	1.187	1.253	1.331	1.288	1.280	1.263	1.249735	3.72
Benzo(g,h,i)perylene	1.204	1.206	1.184	1.170	1.197	1.222	1.160	1.123	1.085	1.172422	3.76

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Quality Control Summary
SDG: L729800
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: BNAMS11

Method Name : S811J04N.M Date : 10/29/2014
FileName : 1028A_02.D Time : 3:15 AM

Continuing Calibration Verification

Compound Name	Average RRF	CCC RRF	%D		
n-Nitrosodimethylamine	1.3135	1.0738	18.3		
Bis(2-chloroethyl)ether	1.1041	1.0338	6.37		
Phenol	1.6694	1.7275	3.48		
2-Chlorophenol	1.4761	1.4850	0.6		
1,4-Dichlorobenzene	1.6976	1.7691	4.22		
Benzyl Alcohol	1.3380	1.3041	2.53		
Bis(2-chloroisopropyl)ether	0.4635	0.4654	0.42		
2-Methylphenol	1.2691	1.2805	0.9		
Hexachloroethane	0.7475	0.6998	6.38		
n-Nitrosodi-n-propylamine	1.0780	1.0427	3.27	>0.05	
3&4-Methyl Phenol	1.4906	0.7429	50.2		
Nitrobenzene	0.3939	0.3742	5		
Isophorone	0.6571	0.6354	3.31		
2-Nitrophenol	0.1890	0.1970	4.24		
2,4-Dimethylphenol	0.3840	0.3287	14.4		
Bis(2-chlorethoxy)methane	0.4210	0.4222	0.29		
2,4-Dichlorophenol	0.3016	0.3243	7.55		
1,2,4-Trichlorobenzene	0.3596	0.3787	5.31		
4-Chloroaniline	0.1560	0.1410	9.59		
Hexachloro-1,3-butadiene	0.2393	0.2479	3.57		
4-Chloro-3-methylphenol	0.3527	0.3347	5.12		
Hexachlorocyclopentadiene	0.4073	0.2923	28.2	>0.05	
2,4,6-Trichlorophenol	0.3848	0.3845	0.09		
2,4,5-Trichlorophenol	0.4053	0.4133	1.97		
2-Chloronaphthalene	1.2248	1.2240	0.06		
2-Nitroaniline	0.3949	0.3695	6.44		
Dimethyl phthalate	1.3756	1.2947	5.88		
2,6-Dinitrotoluene	0.3149	0.3042	3.4		
3-Nitroaniline	0.3516	0.3323	5.49		
Acenaphthene	1.3281	1.2627	4.92		
2,4-Dinitrophenol	0.1897	0.1336	29.6	>0.05	**

*** - calibrated by linear regression*

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Quality Control Summary
SDG: L729800
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: BNAMS11

Method Name : S811J04N.M Date : 10/29/2014
FileName : 1028A_02.D Time : 3:15 AM

Continuing Calibration Verification

Compound Name	Average RRF	CCC RRF	%D		
Dibenzofuran	1.8162	1.7225	5.16		
2,4-Dinitrotoluene	0.4319	0.4082	5.48		
4-Nitrophenol	0.2824	0.2416	14.4	>0.05	
4-Chlorophenyl-phenylether	0.7657	0.7021	8.31		
Diethyl phthalate	1.5191	1.3782	9.27		
4-Nitroaniline	0.3456	0.3349	3.1		
1,2-Diphenylhydrazine	1.5903	1.3874	12.8		
4,6-Dinitro-2-methylphenol	0.1344	0.1247	7.19		
n-Nitrosodiphenylamine	0.6627	0.6236	5.91		
4-Bromophenyl-phenylether	0.2199	0.2369	7.75		
Hexachlorobenzene	0.2433	0.2908	19.6		
Pentachlorophenol	0.1241	0.1357	9.38		**
Carbazole	1.1501	1.1118	3.33		
Di-n-butyl phthalate	1.5002	1.4275	4.85		
Fluoranthene	1.5097	1.4336	5.04		
Benzylbutyl phthalate	0.6231	0.5611	9.95		
Bis(2-ethylhexyl)phthalate	0.9855	0.8708	11.6		
Di-n-octyl phthalate	1.6303	1.5325	6		
Benzo(a)pyrene	1.2164	1.2013	1.24		

*** - calibrated by linear regression*

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Quality Control Summary
SDG: L729800
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: BNAMS11

Method Name : S811J04N.M Date : 10/29/2014
FileName : 1028A_03.D Time : 3:36 AM

Continuing Calibration Verification

Compound Name	Average RRF	CCC RRF	%D	
Benzoic acid	0.1932	0.1729	10.5	**

*** - calibrated by linear regression*

Raw Data

BNA RV SVOCs Benchsheet

Batch #: WG751293

Analyst: STM601 **Prep Start Date/Time:** 10/28/14 14:28:08 **Prep End Date/Time:** 10/29/14 03:57:28

Na2SO4: 14I12389 Amt. Used: 10 Exp. Date:03/12/15 **MeCl2:** 14J11832 Amt. Used: 36 Exp. Date:04/11/15 **NaOH:** 14J01287 Amt. Used: 1 Exp. Date:02/01/15

H2SO4: 14J20253 Amt. Used: 3.50 Exp. Date:04/04/15 **Surrogate:** 14J08667 Amt. Used: 100 µL Exp. Date:11/22/14 **LCS/MS Spike:** 14J20252 Amt. Used: 250 µL Exp. Date:10/31/14

Sample Number	Qualifiers	Extracted Vol. (mL)	Adjusted pH<2	Adjusted pH >11	Solvent Vol. (mL)	Emulsion	Final Sample Vol.(mL)	Extract Color	Sample Comments
BLANK		100	<2	>11	36	No Emulsion	0.5	Colorless	
LCS		100	<2	>11	36	No Emulsion	0.5	Yellow	
LCSD		100	<2	>11	36	No Emulsion	0.5	Yellow	
MS(L729800-01)		100	<2	>11	36	No Emulsion	0.5	Yellow	
MSD(L729800-01)		100	<2	>11	36	No Emulsion	0.5	Yellow	
1. L729453-12		100	<2	>11	36	No Emulsion	0.5	Colorless	SPC subbed direct to A&B Lab PO#S20888
2. L729542-13		100	<2	>11	36	No Emulsion	0.5	Yellow	SGT needed on DROCAER on column. Hot sample. PID readings >10,000ppmv.
3. L729542-14		100	<2	>11	36	No Emulsion	0.5	Yellow	SGT needed on DROCAER on column.
4. L729542-15		100	<2	>11	36	No Emulsion	0.5	Colorless	SGT needed on DROCAER on column.
5. L729654-06		100	<2	>11	36	No Emulsion	0.5	Colorless	
6. L729745-01		100	<2	>11	36	No Emulsion	0.5	Yellow	possible 2x surr
7. L729745-02		100	<2	>11	36	No Emulsion	0.5	Yellow	
8. L729745-03		100	<2	>11	36	No	0.5	Colorless	

						Emulsion			
9. L729745-04		100	<2	>11	36	No Emulsion	0.5	Yellow	
10. L729745-05		100	<2	>11	36	No Emulsion	0.5	Colorless	
11. L729798-02		100	<2	>11	36	No Emulsion	0.5	Yellow	QC4/EDD
12. L729798-04		100	<2	>11	36	No Emulsion	0.5	Colorless	QC4/EDD
13. L729798-06		100	<2	>11	36	No Emulsion	0.5	Colorless	QC4/EDD
14. L729800-01		100	<2	>11	36	No Emulsion	0.5	Colorless	QC4/EDD. MS/MSD
15. L729812-01		100	<2	>11	36	No Emulsion	0.5	Colorless	

Comments:

Reviewed By:CJR140 on 10/29/14 03:57:28

Environmental Science Corporation
12065 Lebanon Rd., Mt. Juliet, TN 37122

Injection Log

Instrument ID : BNAMS11
Computer Name : SVCOMPAC

Released By : Chris McCord
Date Released : 10/29/2014 4:11:01 PM

Run ID : 102814A
Signature : _____

#	File ID	Sample ID	Method	WG	Product	Matrix	Account #	State	Dil.	Mult.	Injected	Misc.
1	1028A_00	INSTBLK	S811J04N						1	1	10/29/14 0231	"instrument blank"
2	1028A_01	TUNE 50 PPM 14F19703	TUNEC						1	1	10/29/14 0252	"DFTPP"
3	1028A_01 T	TUNE 50 PPM 14F19703								1	10/29/14 0252	
4	1028A_02	ICVRL SVMS 10K PPB 14G09881	S811J04N						1	1	10/29/14 0315	"8270 Primary Standard"
4	1028A_02-1	ICVRL SVMS 10K PPB 14G09881	S811J04N						1	1	10/29/14 0315	"8270 Primary Standard"
4	1028A_02 RL	ICVRL SVMS 10K PPB 14G09881	S811J04N						1	1	10/29/14 0315	"8270 Primary Standard"
4	1028A_02 RL-1	ICVRL SVMS 10K PPB 14G09881	S811J04N						1	1	10/29/14 0315	"8270 Primary Standard"
5	1028A_03	ICV TCL 10K1 PPB 14G09882	S811J04N						1	1	10/29/14 0336	"8270 TCL Standard"
5	1028A_03-1	ICV TCL 10K1 PPB 14G09882	S811J04N						1	1	10/29/14 0336	"8270 TCL Standard"
6	1028A_04	LCS	S811J04N	WG751293	8270D	GW			1	0.005	10/29/14 0358	"water 14J08667/14J20252"
6	1028A_04-2	LCS	S811J04N	WG751293	8270	GW	BNSF6TRC		1	0.005	10/29/14 0358	"water 14J08667/14J20252"
7	1028A_05	LCSD	S811J04N	WG751293	8270D	GW			1	0.005	10/29/14 0419	"water 14J08667/14J20252"
7	1028A_05-2	LCSD	S811J04N	WG751293	8270	GW	BNSF6TRC		1	0.005	10/29/14 0419	"water 14J08667/14J20252"
8	1028A_06	BLANK	S811J04N	WG751293	8270D	GW			1	0.005	10/29/14 0440	"water 14J08667/14J20252"
8	1028A_06-2	BLANK	S811J04N	WG751293	8270	GW	BNSF6TRC		1	0.005	10/29/14 0440	"water 14J08667/14J20252"
9	1028A_07	BLANK	S811J04N	WG751089	8270AP9	GW			1	0.005	10/29/14 0501	"water14J08667/14J20252"
10	1028A_08	L729453-12	S811J04N	WG751293	8270	GW	BNSF6TRC	TX	1	0.005	10/29/14 0523	"water14J08667/14J20252"

Environmental Science Corporation
12065 Lebanon Rd., Mt. Juliet, TN 37122

Injection Log

Instrument ID : BNAMS11
Computer Name : SVCOMPAC

Released By : Chris McCord
Date Released : 10/29/2014 4:11:01 PM

Run ID : 102814A
Signature : _____

#	File ID	Sample ID	Method	WG	Product	Matrix	Account #	State	Dil.	Mult.	Injected	Misc.
11	1028A_09	L729542-15	S811J04N	WG751293	8270	GW	ERMWCCA	CA	1	0.005	10/29/14 0544	"water14J08667/14J20252"
12	1028A_10	L729654-06	S811J04N	WG751293	8270D	GW	METSOLPVA	VA	1	0.005	10/29/14 0605	"water14J08667/14J20252"
13	1028A_11	L729745-01	S811J04N	WG751293	8270	GW	TAYGEOPA	PA	1	0.005	10/29/14 0627	"water14J08667/14J20252"
14	1028A_12	L729745-03	S811J04N	WG751293	8270	GW	TAYGEOPA	PA	1	0.005	10/29/14 0648	"water14J08667/14J20252"
15	1028A_13	L729745-05	S811J04N	WG751293	8270	GW	TAYGEOPA	PA	1	0.005	10/29/14 0709	"water14J08667/14J20252"
16	1028A_14	L729798-04	S811J04N	WG751293	8270	GW	URSTAZ	NM	1	0.005	10/29/14 0730	"water14J08667/14J20252"
17	1028A_15	L729798-06	S811J04N	WG751293	8270	GW	URSTAZ	NM	1	0.005	10/29/14 0752	"water14J08667/14J20252"
18	1028A_16	L729800-01	S811J04N	WG751293	8270	GW	URSTAZ	NM	1	0.005	10/29/14 0813	"water14J08667/14J20252"
19	1028A_17	MS	S811J04N	WG751293	8270D	GW			1	0.005	10/29/14 0834	"water14J08667/14J20252"
19	1028A_17-2	MS	S811J04N	WG751293	8270	GW	BNSF6TRC		1	0.005	10/29/14 0834	"water14J08667/14J20252"
20	1028A_18	MSD	S811J04N	WG751293	8270D	GW			1	0.005	10/29/14 0856	"water14J08667/14J20252"
20	1028A_18-2	MSD	S811J04N	WG751293	8270	GW	BNSF6TRC		1	0.005	10/29/14 0856	"water14J08667/14J20252"
21	1028A_19	L729812-01	S811J04N	WG751293	8270	GW	VERLALNV	NV	1	0.005	10/29/14 0917	"water14J08667/14J20252"
22	1028A_20	L729745-04	S811J04N	WG751293	8270	GW	TAYGEOPA	PA	1	0.005	10/29/14 0938	"water14J08667/14J20252"
23	1028A_21	L729745-02	S811J04N	WG751293	8270	GW	TAYGEOPA	PA	1	0.005	10/29/14 1000	"water14J08667/14J20252"
24	1028A_22	L729798-02	S811J04N	WG751293	8270	GW	URSTAZ	NM	1	0.005	10/29/14 1021	"water14J08667/14J20252"
25	1028A_23	L729542-13	S811J04N	WG751293	8270	GW	ERMWCCA	CA	5	0.025	10/29/14 1042	"water14J08667/14J20252"
26	1028A_24	L729542-14	S811J04N	WG751293	8270	GW	ERMWCCA	CA	5	0.025	10/29/14 1104	"water14J08667/14J20252"
27	1028A_25	DNR L729206-02	S811J04N	WG751293					5	0.025	10/29/14 1125	"water14J08667/14J20252"
28	1028A_26	L729229-02	S811J04N	WG751089	8270AP9	GW	BIGWESTUT	WY	1	0.005	10/29/14 1146	"water14J08667/14J20252"
29	1028A_27	L729229-07	S811J04N	WG751089	8270AP9	GW	BIGWESTUT	WY	1	0.005	10/29/14 1208	"water14J08667/14J20252"
30	1028A_28	DNR L729206-07	S811J04N	WG751089					5	0.025	10/29/14 1229	"water14J08667/14J20252"
31	1028A_29	L729229-13	S811J04N	WG751089	8270AP9	GW	BIGWESTUT	WY	10	0.05	10/29/14 1251	"water14J08667/14J20252"

Environmental Science Corporation
12065 Lebanon Rd., Mt. Juliet, TN 37122

Injection Log

Instrument ID : BNAMS11
Computer Name : SVCOMPAC

Released By : Chris McCord
Date Released : 10/29/2014 4:11:01 PM

Run ID : 102814A
Signature : _____

#	File ID	Sample ID	Method	WG	Product	Matrix	Account #	State	Dil.	Mult.	Injected	Misc.
32	1028A_30	L729206-02	S811J04N	WG751089	8270AP9	GW	BIGWESTUT	WY	1	0.005	10/29/14 1312	"water14J08667/14J20252"
33	1028A_31	L729206-07	S811J04N	WG751089	8270AP9	GW	BIGWESTUT	WY	1	0.005	10/29/14 1333	"water14J08667/14J20252"
34	1028A_32	L729229-13	S811J04N	WG751089	8270AP9	GW	BIGWESTUT	WY	1	0.005	10/29/14 1355	"water14J08667/14J20252"
35	1028A_33	L729812-01	S811J04N	WG751293	8270	GW	VERLALNV	NV	50	0.25	10/29/14 1416	"water14J08667/14J20252 final 1-77"

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\102814A\1028A 01.D Vial: 1
Acq On : 29 Oct 2014 2:52 am Operator: 280
Sample : TUNE 50 PPM 14F19703 Inst : BNAMS11
Misc : DFTPP Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 29 3:13 2014 Quant Results File: TUNEC.RES

Quant Method : C:\MSDCHEM\1\METHODS\TUNEC.M (RTE Integrator)
Title : 8270 BNA
Last Update : Mon Sep 15 15:56:23 2014
Response via : Initial Calibration
DataAcq Meth : BNA11A

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)

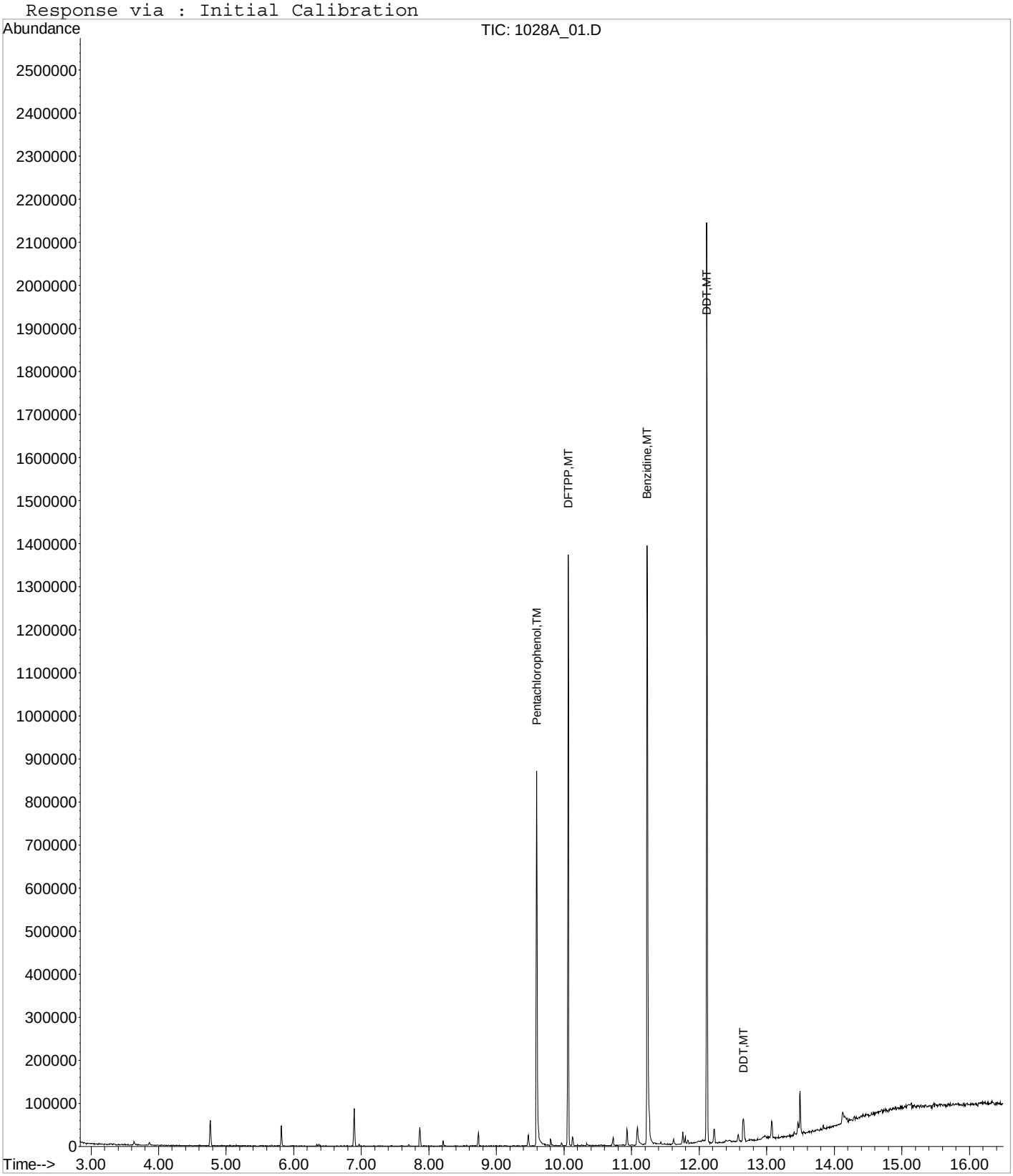
Target Compounds					Qvalue
1) Pentachlorophenol	9.60	264	66304	14.8364951 ug/mL	100
2) DFTPP	10.06	198	119074	16.0923859 ug/mL	100
3) Benzidine	11.23	184	605803	16.3827597 ug/mL	100
4) DDT	12.65	TIC	86037	4.3848598 ug/ml	100
5) DDT	12.11	235	381779	28.3719351 ug/mL	100

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\102814A\1028A 01.D Vial: 1
Acq On : 29 Oct 2014 2:52 am Operator: 280
Sample : TUNE 50 PPM 14F19703 Inst : BNAMS11
Misc : DFTPP Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 29 3:13 2014 Quant Results File: TUNEC.RES

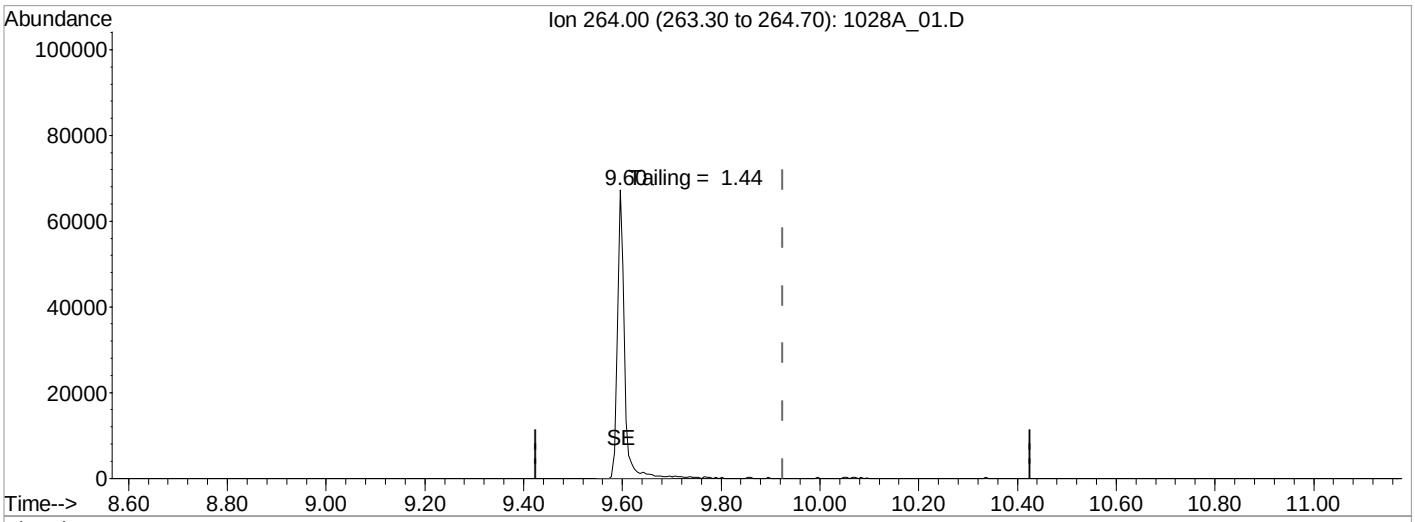
Method : C:\MSDCHEM\1\METHODS\TUNEC.M (RTE Integrator)
Title : 8270 BNA
Last Update : Mon Sep 15 15:56:23 2014
Response via : Initial Calibration

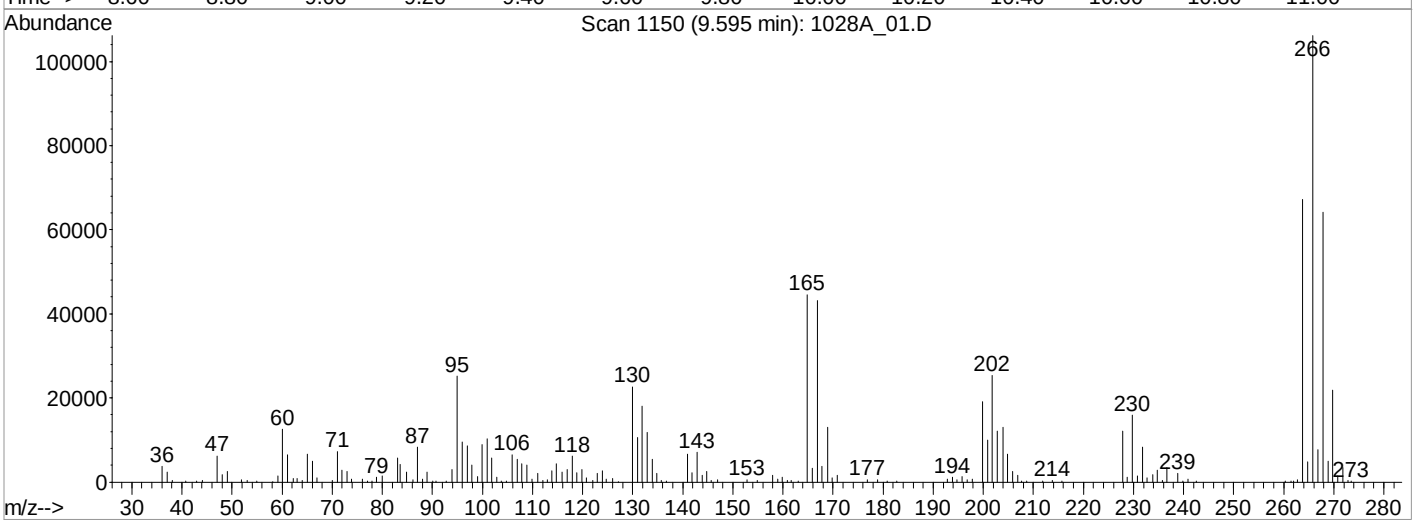


Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\102814A\1028A 01.D Vial: 1
Acq On : 29 Oct 2014 2:52 am Operator: 280
Sample : TUNE 50 PPM 14F19703 Inst : BNAMS11
Misc : DFTPP Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 29 3:13 2014 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\TUNEC.M (RTE Integrator)
Title : 8270 BNA
Last Update : Mon Sep 15 15:56:23 2014
Response via : Single Level Calibration





TIC: 1028A_01.D

(1) Pentachlorophenol (TM)

9.60min (-0.329) 14.8364951 ug/mL

Qvalue = 100

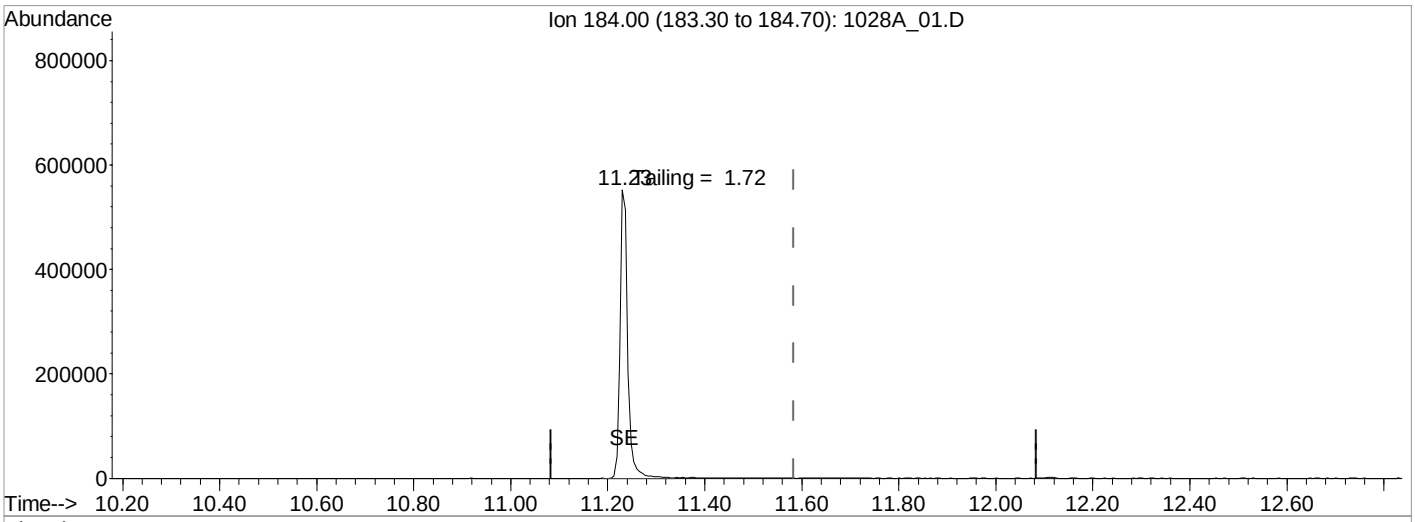
response 66304

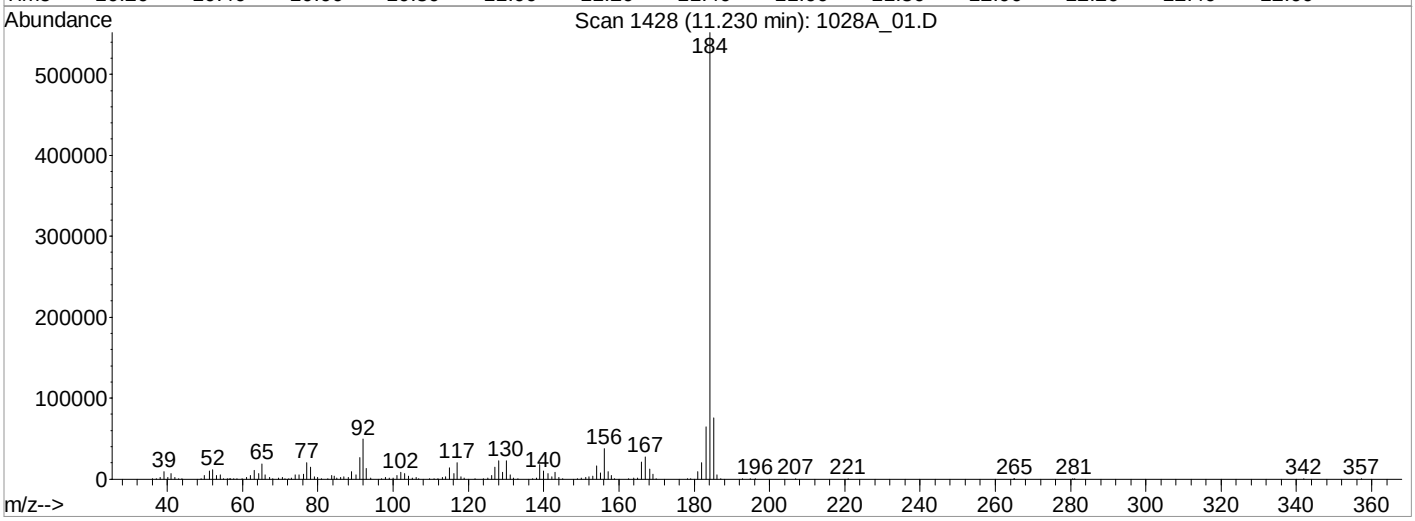
Ion	Exp%	Act%
264.00	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\102814A\1028A 01.D Vial: 1
Acq On : 29 Oct 2014 2:52 am Operator: 280
Sample : TUNE 50 PPM 14F19703 Inst : BNAMS11
Misc : DFTPP Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 29 3:13 2014 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\TUNEC.M (RTE Integrator)
Title : 8270 BNA
Last Update : Mon Sep 15 15:56:23 2014
Response via : Single Level Calibration





TIC: 1028A_01.D

(3) Benzidine (MT)

11.23min (-0.353) 16.3827597 ug/mL

Qvalue = 100

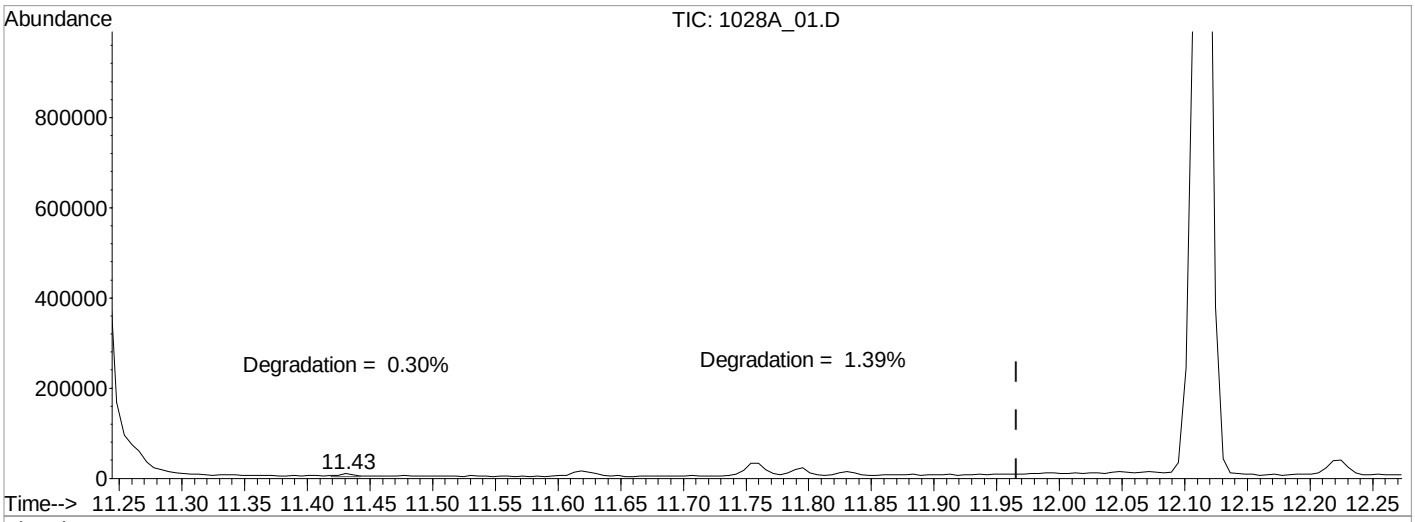
response 605803

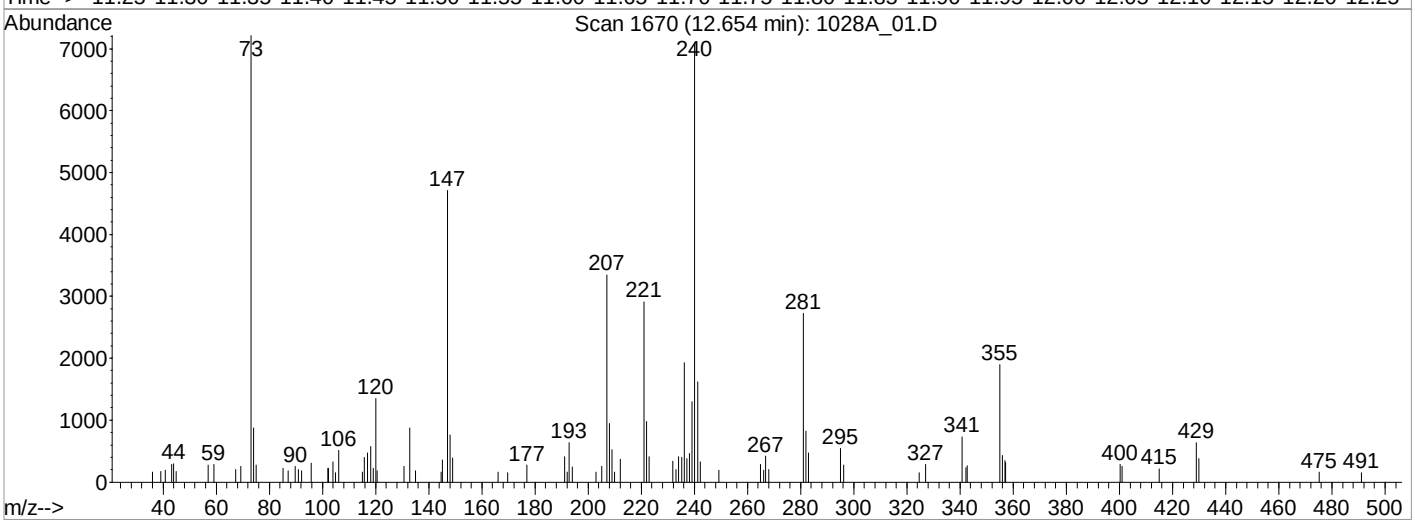
Ion	Exp%	Act%
184.00	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\102814A\1028A 01.D Vial: 1
Acq On : 29 Oct 2014 2:52 am Operator: 280
Sample : TUNE 50 PPM 14F19703 Inst : BNAMS11
Misc : DFTPP Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 29 3:13 2014 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\S811J04N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Sat Oct 04 20:15:55 2014
Response via : Single Level Calibration





TIC: 1028A_01.D

(4) DDT (MT)

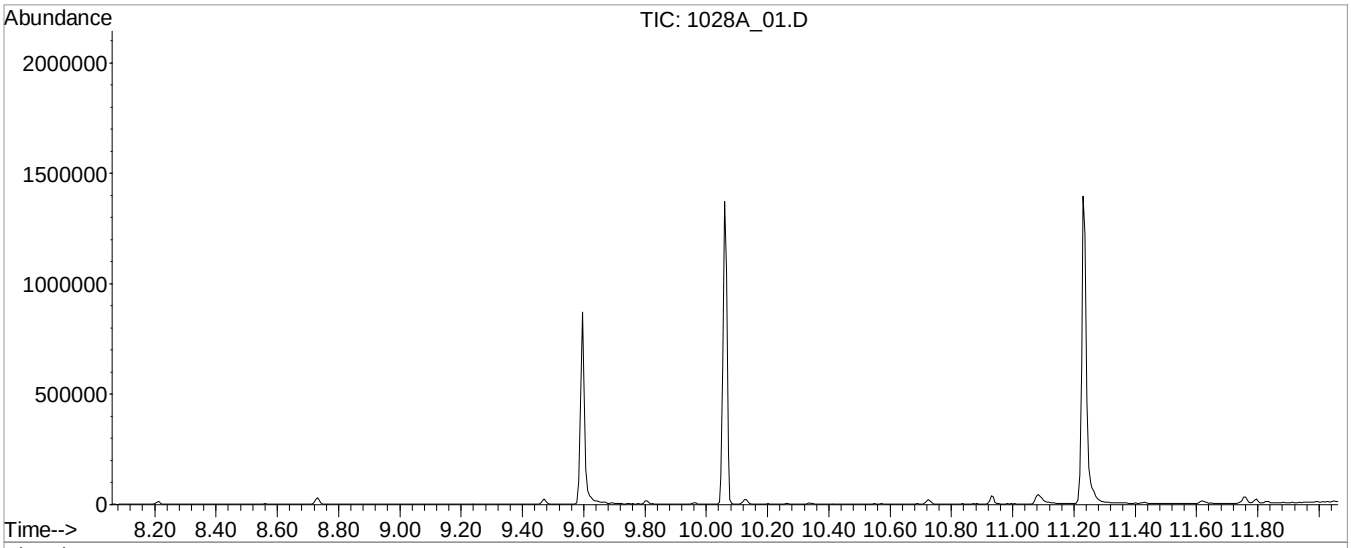
12.65min (+0.188) 4.3848598 ug/ml

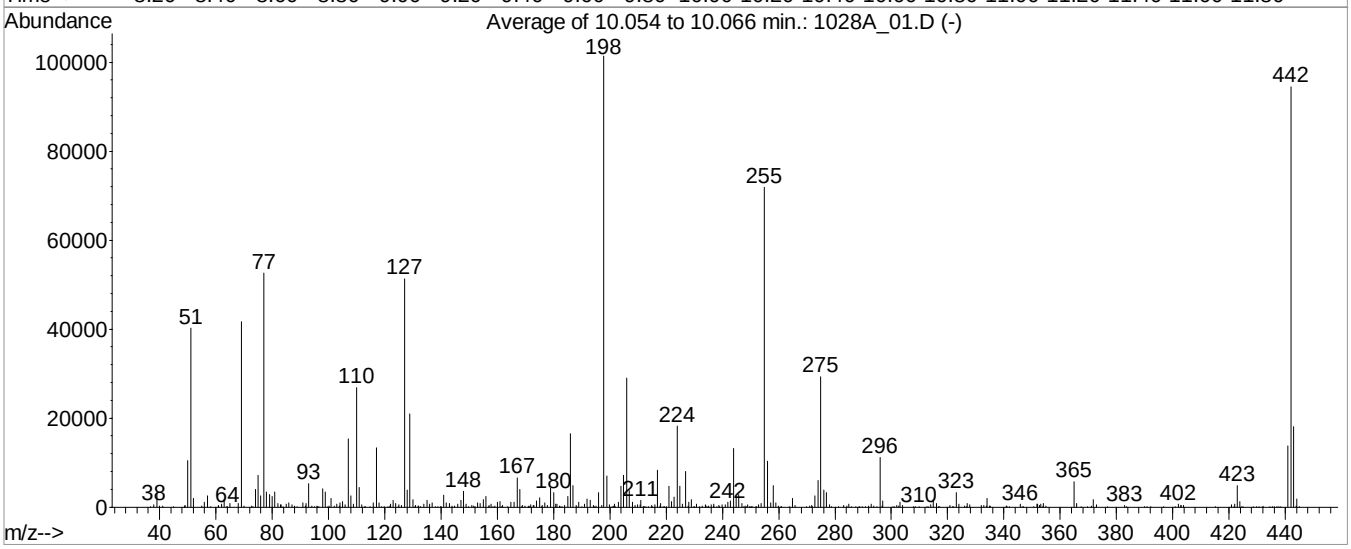
Qvalue = 100

response 86037

Signal	Exp%	Act%
TIC	100	100
0.00	6.60	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Data File : C:\MSDCHEM\1\DATA\102814A\1028A 01.D Vial: 1
Acq On : 29 Oct 2014 2:52 am Operator: 280
Sample : TUNE 50 PPM 14F19703 Inst : BNAMS11
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 10.054 to 10.066 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	39.7	40218	PASS
68	69	0.00	2	1.9	789	PASS
69	198	0.00	100	41.1	41663	PASS
70	69	0.00	2	0.5	229	PASS
127	198	40	60	50.6	51312	PASS
197	198	0.00	1	0.3	341	PASS
198	198	100	100	100.0	101410	PASS
199	198	5	9	6.8	6944	PASS
275	198	10	30	28.9	29263	PASS
365	198	1	100	5.6	5701	PASS
441	443	0.01	100	76.0	13696	PASS
442	198	40	100	93.2	94530	PASS
443	442	17	23	19.1	18023	PASS

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\102814A\1028A 02.D Vial: 2
Acq On : 29 Oct 2014 3:15 am Operator: 280
Sample : ICVRL SVMS 10K PPB 14G09881 Inst : BNAMS11
Misc : 8270 Primary Standard Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 29 10:59 2014 Quant Results File: S811J04N.RES

Quant Method : C:\MSDCHEM\1\METHODS\S811J04N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Sat Oct 04 20:15:55 2014
Response via : Initial Calibration
DataAcq Meth : BNA11A

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	5.14	152	59383	8000.00 ppb	-0.02
22) Naphthalene-d8	6.37	136	248734	8000.00 ppb	-0.03
40) Acenaphthene-d10	8.21	164	162088	8000.00 ppb	-0.04
64) Phenanthrene-d10	9.81	188	300936m	8000.00 ppb	-0.04
78) Chrysene-d12	12.65	240	368062	8000.00 ppb	-0.04
88) Perylene-d12	14.11	264	450678	8000.00 ppb	-0.02

System Monitoring Compounds

4) 2-Fluorophenol	4.08	112	105555	10953.2683751 ppb	0.00
Spiked Amount 20.000	Range 10 - 74		Recovery = 54766.34%#		
7) Phenol-d5	4.78	99	126943	10289.1800243 ppb	-0.01
Spiked Amount 20.000	Range 10 - 63		Recovery = 51445.90%#		
23) Nitrobenzene-d5	5.65	82	118936	9701.0739687 ppb	-0.02
Spiked Amount 10.000	Range 28 - 123		Recovery = 97010.74%#		
44) 2-Fluorobiphenyl	7.48	172	284507	9761.5770510 ppb	-0.04
Spiked Amount 10.000	Range 35 - 133		Recovery = 97615.77%#		
67) 2,4,6-Tribromophenol	9.05	330	46504	11506.0698039 ppb	-0.04
Spiked Amount 20.000	Range 22 - 154		Recovery = 57530.35%#		
81) p-Terphenyl-d14	11.49	244	454518	9721.8968445 ppb	-0.05
Spiked Amount 10.000	Range 30 - 148		Recovery = 97218.97%#		

Target Compounds

					Qvalue
2) Pyridine	3.14	79	176196	11352.8657282 ppb #	78
3) N-Nitrosodimethylamine	3.12	42	79707	8174.8836523 ppb #	65
5) Aniline	4.85	66	55798	8901.2289113 ppb	92
6) bis(2-Chloroethyl)ether	4.89	63	76737	9363.2817057 ppb	87
8) Phenol	4.80	94	128229	10348.0121266 ppb	88
9) Benzaldehyde	4.76	105	481	94.4792484 ppb #	1
10) 2-Chlorophenol	4.95	128	110228	10059.9237255 ppb	93
11) n-Decane	4.97	41	60578	7725.5998142 ppb	95
12) 1,3-Dichlorobenzene	5.10	146	125586	10201.7829958 ppb	94
13) 1,4-Dichlorobenzene	5.15	146	131321	10421.5206447 ppb	97
14) Benzyl Alcohol	5.25	79	96805	9747.1289192 ppb	92
15) 1,2-Dichlorobenzene	5.30	146	121708	10320.7408883 ppb	95
16) bis(2-Chloroisopropyl)ethe	5.37	121	34545	10041.5606658 ppb	100
17) 2-Methylphenol	5.34	108	95053	10090.0228038 ppb	93
18) Hexachloroethane	5.61	117	51948	9362.1252830 ppb	91
19) N-Nitrosodi-n-propylamine	5.50	70	77398	9672.6731888 ppb #	82
20) 3&4-Methyl phenol	5.48	107	110294	9968.2314297 ppb	94
21) Acetophenone	5.48	105	959	67.9909057 ppb #	1
24) Nitrobenzene	5.67	77	116346	9500.3875926 ppb	85
25) Isophorone	5.90	82	197548	9669.4916043 ppb	98
26) 2-Nitrophenol	5.98	139	61263	10423.9437009 ppb	80
27) 2,4-Dimethylphenol	6.00	107	102199	8559.0550111 ppb	97
28) bis(2-Chlorethoxy)methane	6.10	93	131279	10028.6582821 ppb	89
29) 2,4-Dichlorophenol	6.22	162	100846	10755.4190917 ppb #	84
30) Benzoic Acid	6.00	105	2986	1600.7721111 ppb #	1
31) 1,2,4-Trichlorobenzene	6.31	180	117741	10530.5563973 ppb	96
32) Naphthalene	6.40	128	349115	9867.4860722 ppb	99
33) 4-Chloroaniline	6.44	65	43854	9040.9704427 ppb	81
34) Hexachloro-1,3-butadiene	6.51	225	77072	10357.3751599 ppb	98
35) Caprolactam	6.92	113	2833	971.8132957 ppb #	23
36) 4-Chloro-3-methylphenol	6.92	107	104060	9488.1039385 ppb	94
37) 2-Methylnaphthalene	7.11	142	256241	10115.9084415 ppb	96
38) 1-Methylnaphthalene	7.21	142	235209	10067.0968211 ppb	97

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\102814A\1028A 02.D Vial: 2
Acq On : 29 Oct 2014 3:15 am Operator: 280
Sample : ICVRL SVMS 10K PPB 14G09881 Inst : BNAMS11
Misc : 8270 Primary Standard Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 29 10:59 2014 Quant Results File: S811J04N.RES

Quant Method : C:\MSDCHEM\1\METHODS\S811J04N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Sat Oct 04 20:15:55 2014
Response via : Initial Calibration
DataAcq Meth : BNA11A

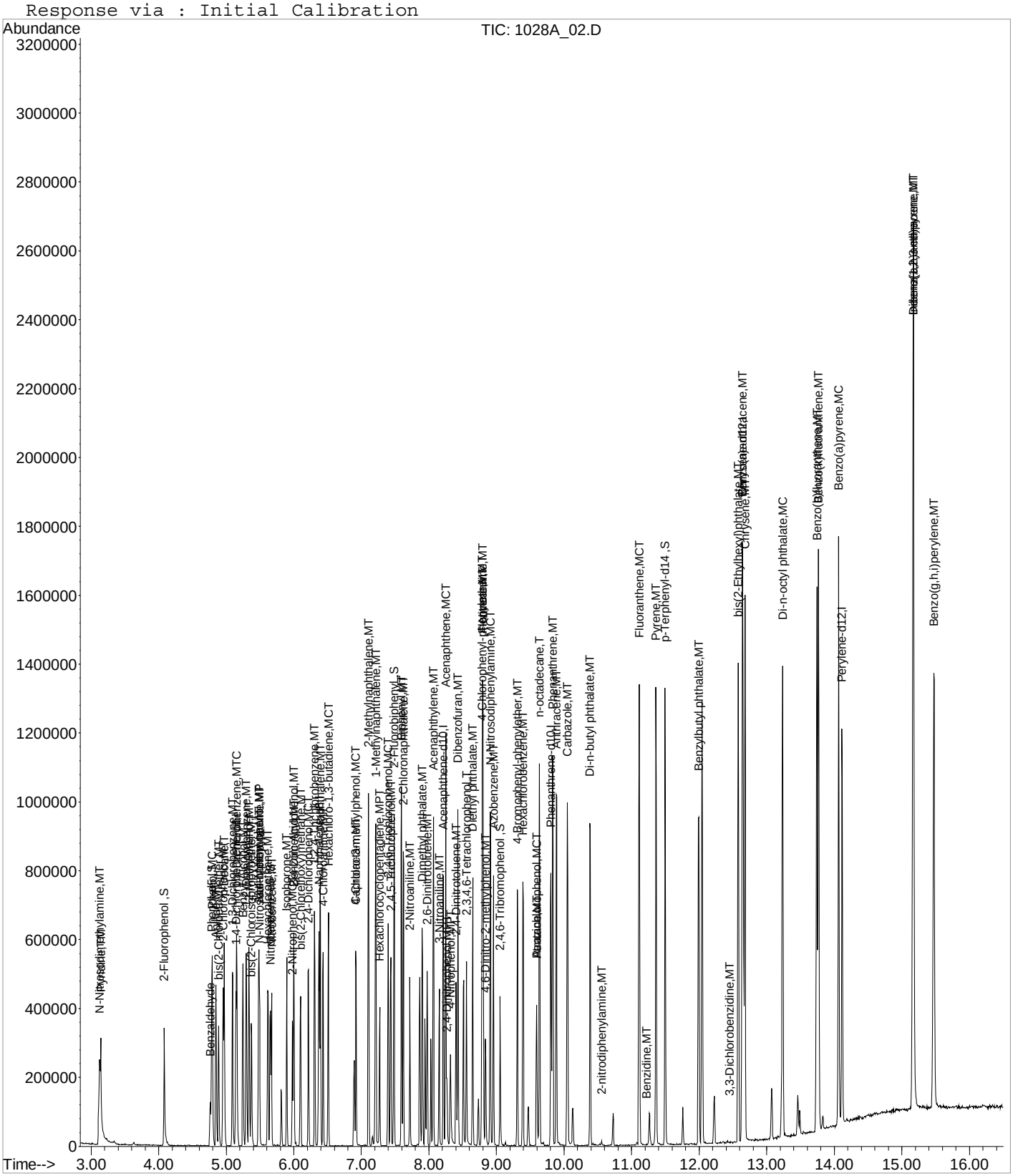
	Compound	R.T.	QIon	Response	Conc Unit		Qvalue
39)	1,2,4,5-Tetrachlorobenzene	0.00	216	0	N.D.		
41)	Hexachlorocyclopentadiene	7.27	237	59223	7175.9978819 ppb		96
42)	2,4,6-Trichlorophenol	7.40	196	77896	9990.6836599 ppb		90
43)	2,4,5-Trichlorophenol	7.44	196	83741	10196.5924431 ppb		93
45)	Biphenyl	7.60	154	315665	9715.9879641 ppb		100
46)	2-Chloronaphthalene	7.62	162	247998	9993.6987712 ppb		95
47)	2-Nitroaniline	7.72	138	74860	9356.3086817 ppb		88
48)	Acenaphthylene	8.07	152	382559	9614.4313947 ppb		99
49)	Dimethyl phthalate	7.90	163	262313	9411.7308707 ppb		96
50)	2,6-Dinitrotoluene	7.97	165	61634	9660.0315751 ppb		90
51)	3-Nitroaniline	8.15	138	67324	9450.8198034 ppb		92
52)	Acenaphthene	8.25	153	255840	9507.6617574 ppb		100
53)	2,4-Dinitrophenol	8.27	184	27063	7137.4922671 ppb	#	52
54)	Dibenzofuran	8.43	168	348991	9484.1635168 ppb		98
55)	2,4-Dinitrotoluene	8.40	165	82706	9451.7779910 ppb		84
56)	2,3,4,6-Tetrachlorophenol	8.55	232	66180	11481.6127427 ppb		90
57)	4-Nitrophenol	8.32	139	48960	8556.4972561 ppb	#	73
58)	Fluorene	8.80	166	286920	9286.1656137 ppb		96
59)	4-Chlorophenyl-phenylether	8.78	204	142252	9169.0582831 ppb		97
60)	Diethyl phthalate	8.65	149	279242	9072.6556074 ppb		97
61)	4-Nitroaniline	8.80	138	67848	9689.9772450 ppb		88
62)	Azobenzene	8.95	77	281095	8724.1001590 ppb		86
63)	Atrazine	9.60	200	8116	1026.6349959 ppb	#	32
65)	4,6-Dinitro-2-methylphenol	8.84	198	46912	9280.7572594 ppb	#	79
66)	N-Nitrosodiphenylamine	8.91	169	234569	9409.4630462 ppb		97
68)	4-Bromophenyl-phenylether	9.31	248	89118	10774.7704471 ppb		88
69)	Hexachlorobenzene	9.40	284	109398	11955.4261159 ppb		96
70)	n-octadecane	9.64	55	44057	7184.9204618 ppb	#	89
71)	Pentachlorophenol	9.60	266	51061	9175.3631565 ppb		94
72)	Phenanthrene	9.83	178	431797	9603.3674164 ppb		98
73)	Anthracene	9.89	178	444784	10041.5371089 ppb		99
74)	Carbazole	10.05	167	418226	9667.3643778 ppb		99
75)	Di-n-butyl phthalate	10.39	149	536996	9515.3731876 ppb		98
76)	2-nitrodiphenylamine	10.55	167	58	795.0453260 ppb	#	1
77)	Fluoranthene	11.11	202	539269	9495.8838605 ppb		99
79)	Benzidine	11.22	184	73	772.9114294 ppb	#	68
80)	Pyrene	11.36	202	568638	9129.1675808 ppb		97
82)	Benzylbutyl phthalate	11.99	149	258157	9004.5912041 ppb		86
83)	3,3-Dichlorobenzidine	12.45	252	63	2.9053165 ppb	#	32
84)	Benzo(a)anthracene	12.64	228	611040	9753.7934740 ppb		98
85)	Chrysene	12.68	228	548747	9628.1861239 ppb		99
86)	bis(2-Ethylhexyl)phthalate	12.58	149	400619	8836.1822041 ppb		99
87)	Di-n-octyl phthalate	13.24	149	705052	9400.0414830 ppb		99
89)	Benzo(b)fluoranthene	13.74	252	699031m	9639.5902983 ppb		
90)	Benzo(k)fluoranthene	13.77	252	637853m	9504.5502373 ppb		
91)	Benzo(a)pyrene	14.07	252	676739	9875.5577554 ppb		95
92)	Indeno(1,2,3-cd)pyrene	15.17	276	935993	11414.1772503 ppb		91
93)	Dibenz(a,h)anthracene	15.17	278	786269	11168.0362446 ppb		89
94)	Benzo(g,h,i)perylene	15.47	276	757211	11464.5391298 ppb		94

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\102814A\1028A 02.D Vial: 2
Acq On : 29 Oct 2014 3:15 am Operator: 280
Sample : ICVRL SVMS 10K PPB 14G09881 Inst : BNAMS11
Misc : 8270 Primary Standard Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 29 10:59 2014 Quant Results File: S811J04N.RES

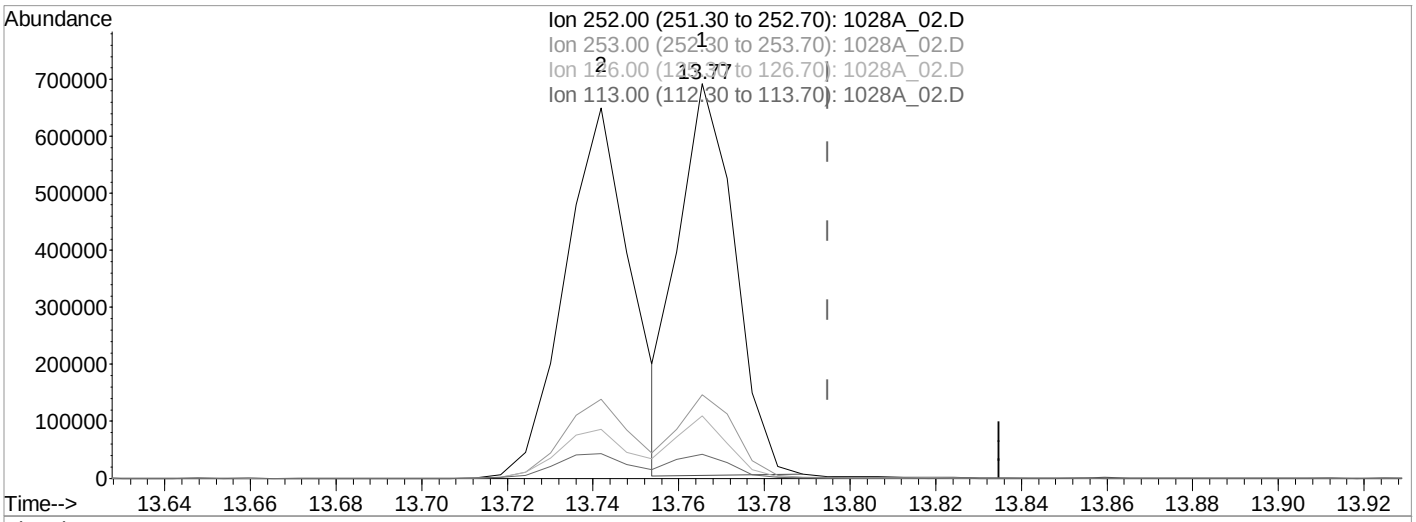
Method : C:\MSDCHEM\1\METHODS\S811J04N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Sat Oct 04 20:15:55 2014
Response via : Initial Calibration

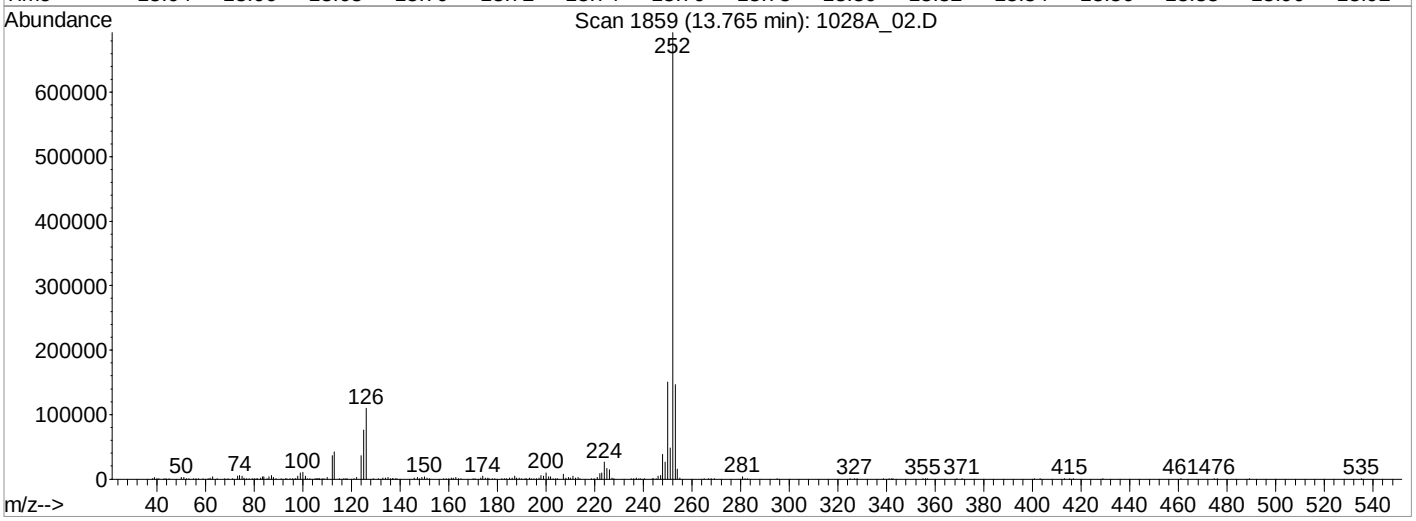


Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\102814A\1028A 02.D Vial: 2
Acq On : 29 Oct 2014 3:15 am Operator: 280
Sample : ICV SVMS 10K PPB 14G09881 Inst : BNAMS11
Misc : 8270 Primary Standard Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 29 3:48 2014 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\S811J04N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Sat Oct 04 20:15:55 2014
Response via : Multiple Level Calibration





TIC: 1028A_02.D

(89) Benzo(b)fluoranthene (MT)

13.77min (-0.029) 8567.5747365 ppb

Qvalue = 98

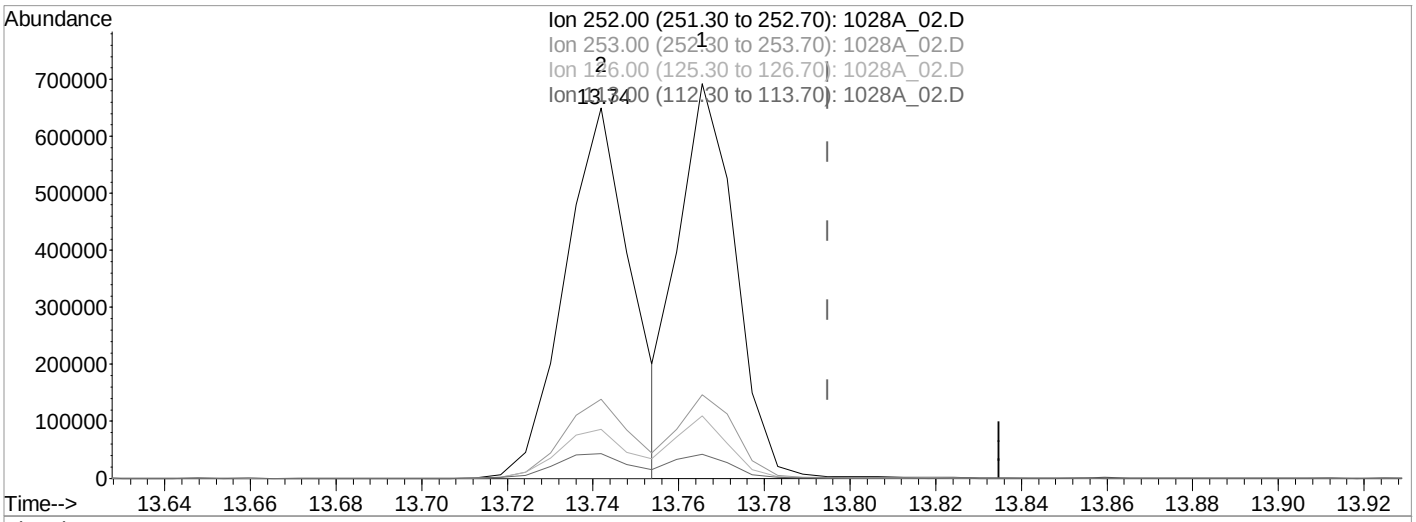
response 621292

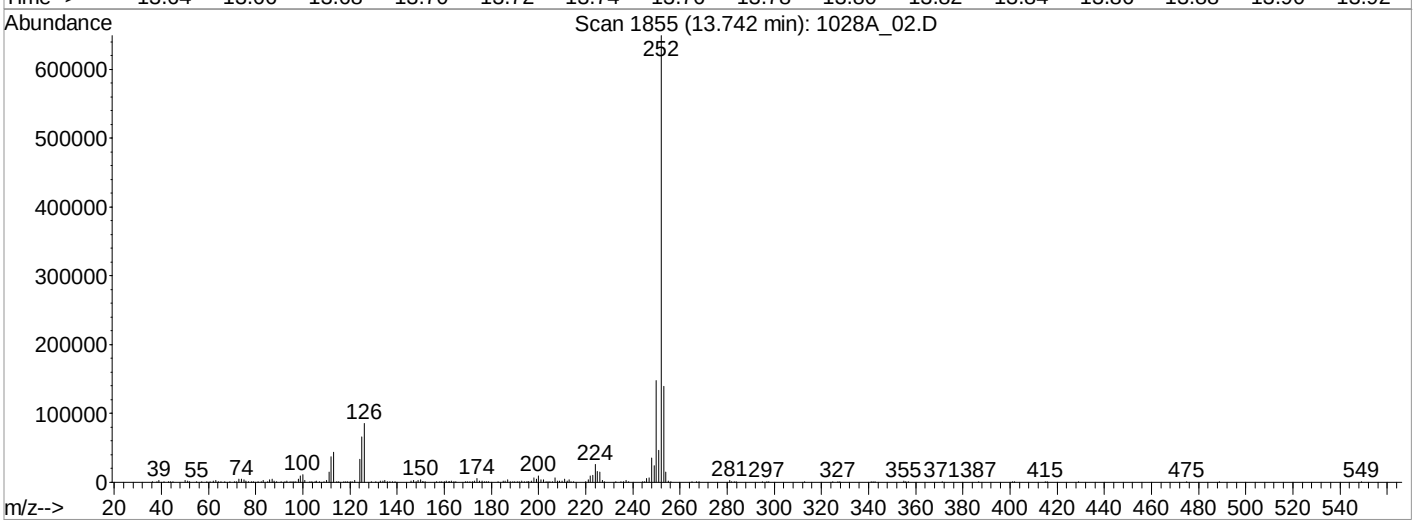
Ion	Exp%	Act%
252.00	100	100
253.00	21.20	20.92
126.00	16.00	15.64
113.00	7.90	5.90

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\102814A\1028A 02.D Vial: 2
Acq On : 29 Oct 2014 3:15 am Operator: 280
Sample : ICV SVMS 10K PPB 14G09881 Inst : BNAMS11
Misc : 8270 Primary Standard Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 29 3:48 2014 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\S811J04N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Sat Oct 04 20:15:55 2014
Response via : Multiple Level Calibration





TIC: 1028A_02.D

(89) Benzo(b)fluoranthene (MT)

13.74min (-0.053) 9639.5902983 ppb m

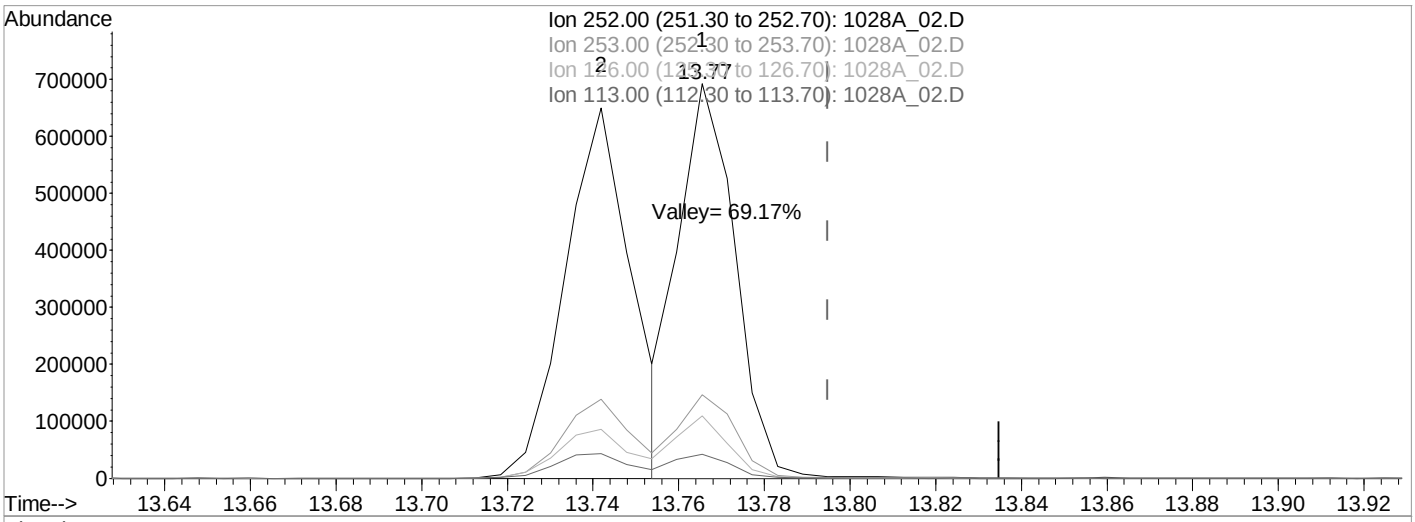
response 699031

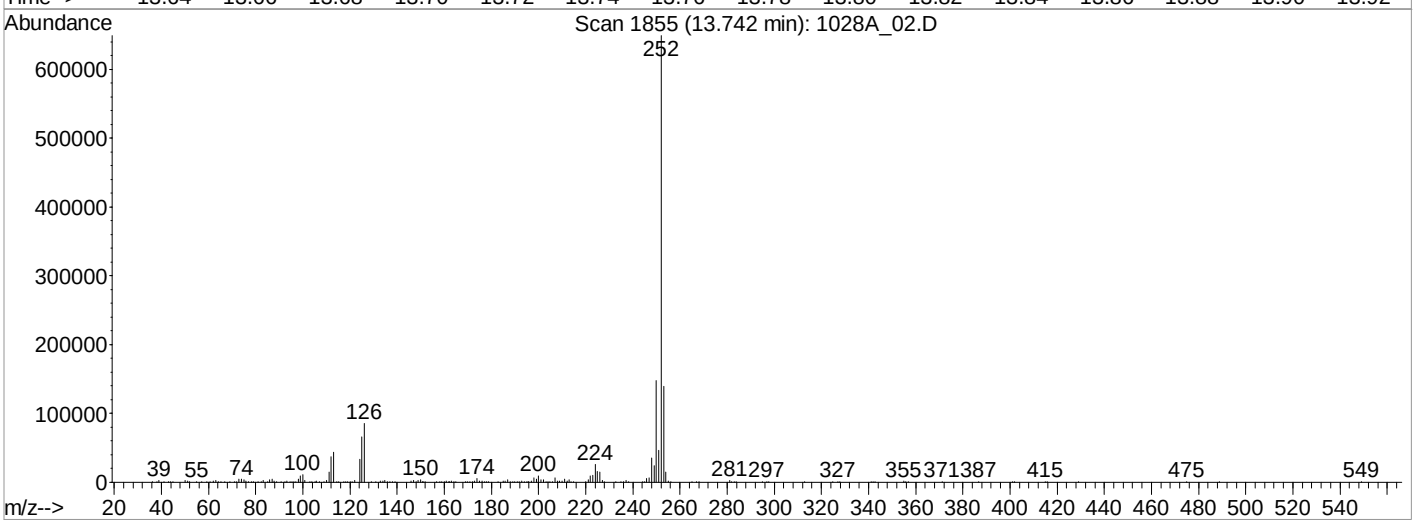
Ion	Exp%	Act%
252.00	100	100
253.00	21.20	21.39
126.00	16.00	13.16
113.00	7.90	6.72

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\102814A\1028A 02.D Vial: 2
Acq On : 29 Oct 2014 3:15 am Operator: 280
Sample : ICV SVMS 10K PPB 14G09881 Inst : BNAMS11
Misc : 8270 Primary Standard Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 29 3:48 2014 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\S811J04N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Sat Oct 04 20:15:55 2014
Response via : Multiple Level Calibration





TIC: 1028A_02.D

(89) Benzo(b)fluoranthene (MT)

13.74min (-0.053) 9639.5902983 ppb m

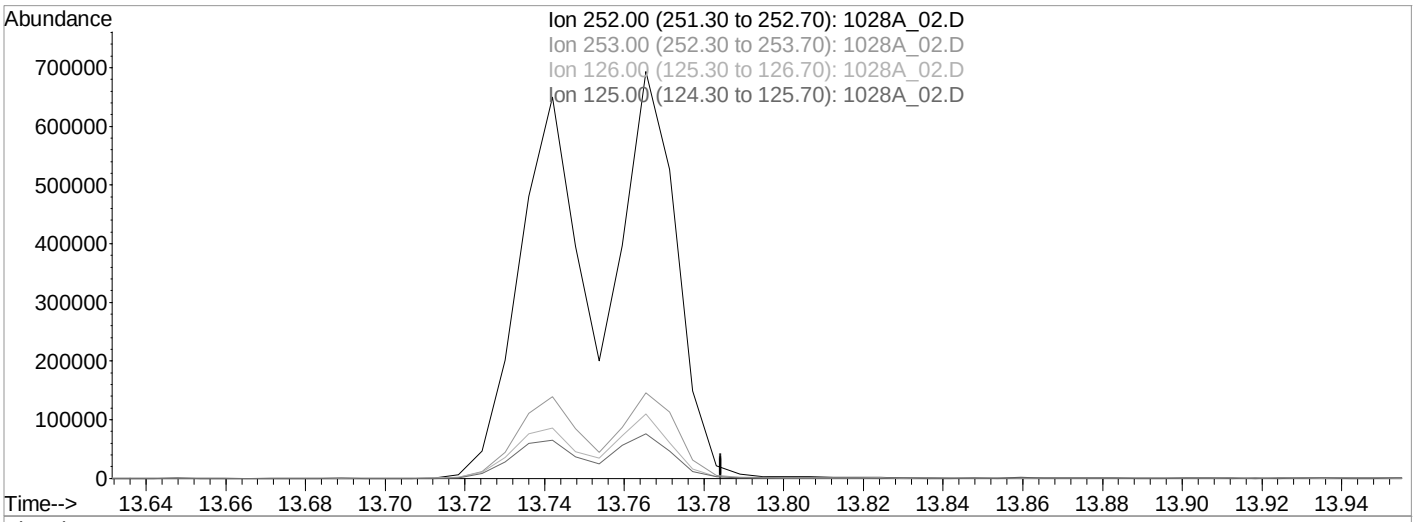
response 699031

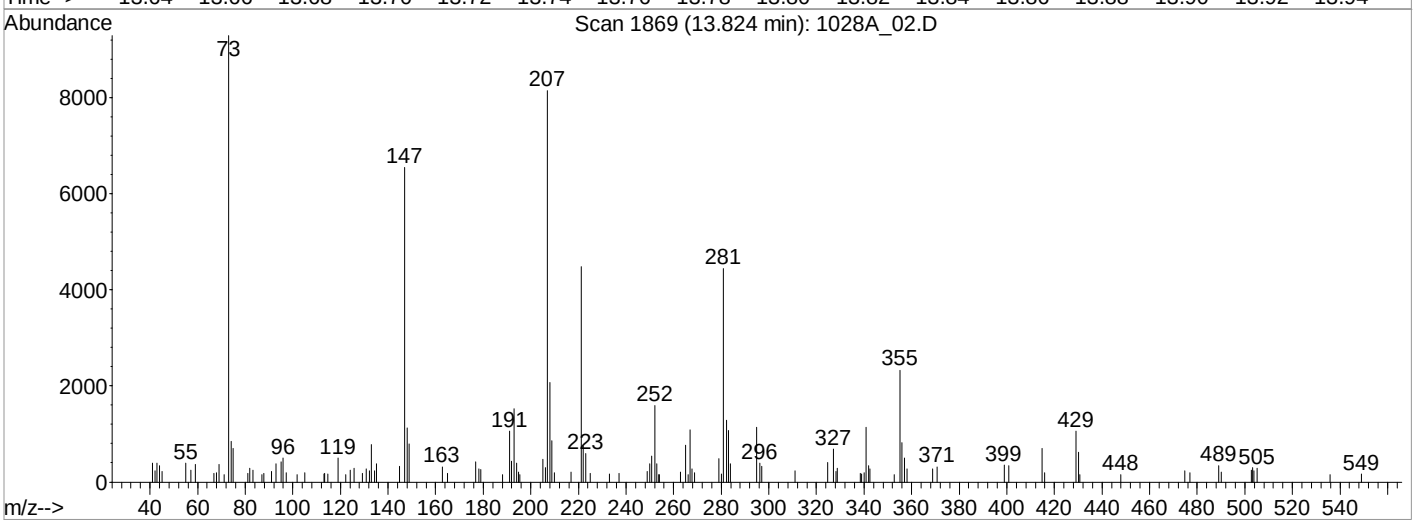
Ion	Exp%	Act%
252.00	100	100
253.00	21.20	21.39
126.00	16.00	13.16
113.00	7.90	6.72

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\102814A\1028A 02.D Vial: 2
Acq On : 29 Oct 2014 3:15 am Operator: 280
Sample : ICV SVMS 10K PPB 14G09881 Inst : BNAMS11
Misc : 8270 Primary Standard Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 29 3:48 2014 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\S811J04N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Sat Oct 04 20:15:55 2014
Response via : Multiple Level Calibration





TIC: 1028A_02.D

(90) Benzo(k)fluoranthene (MT)

13.82min (-13.824) 0.0000000 ppb

Qvalue = 0

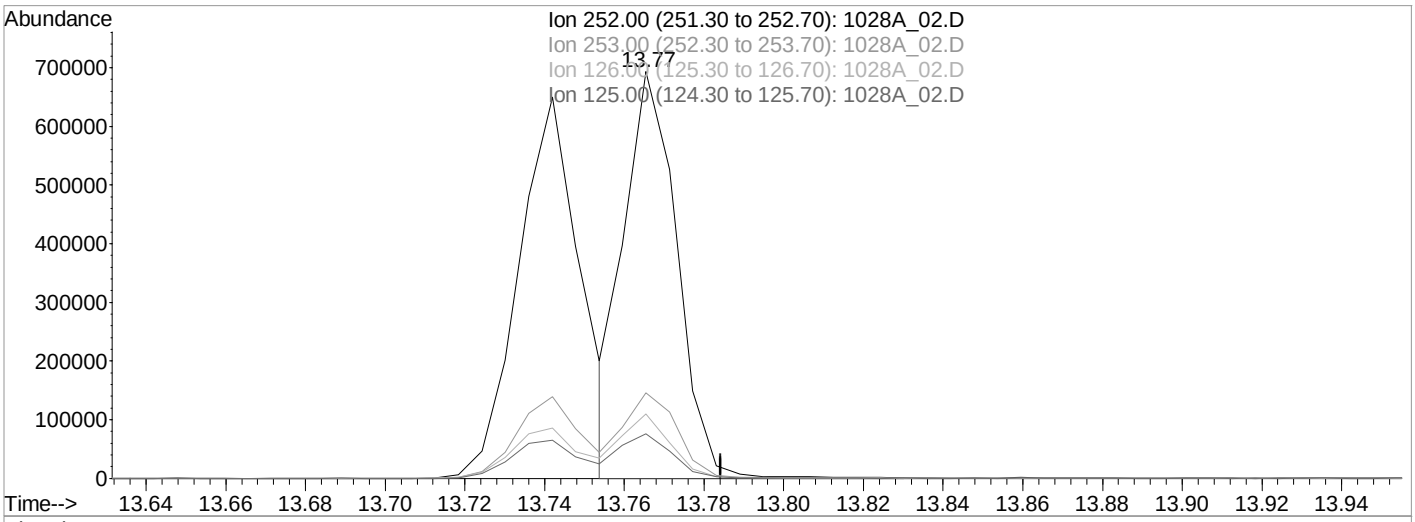
response 0

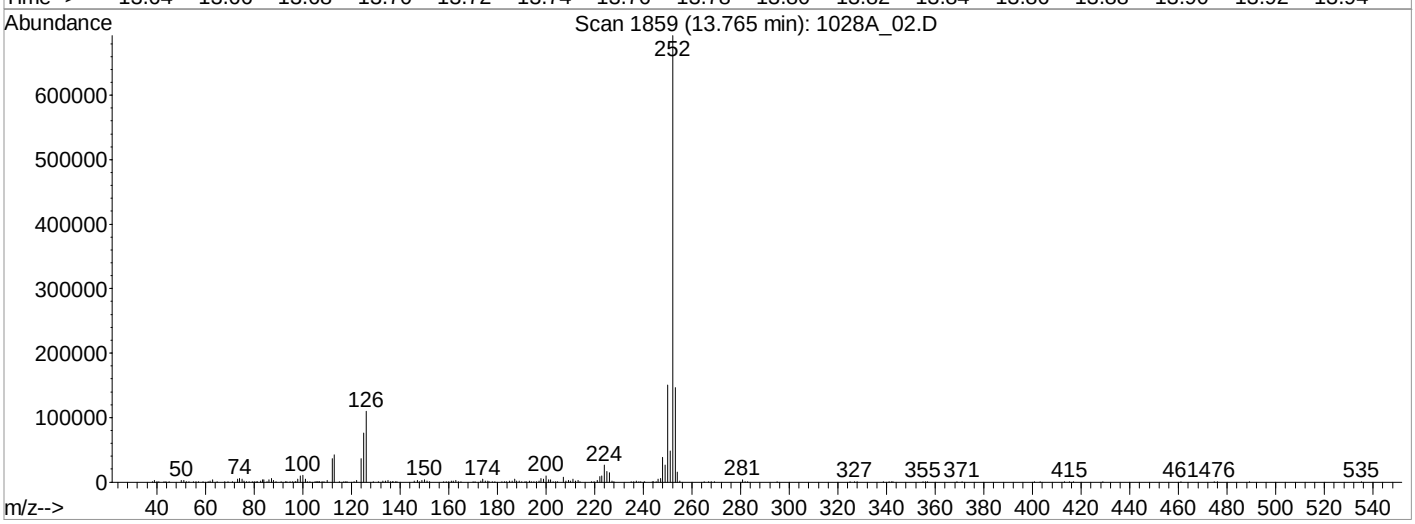
Ion	Exp%	Act%
252.00	100	0.00
253.00	21.60	0.00#
126.00	15.70	0.00
125.00	11.00	0.00

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\102814A\1028A 02.D Vial: 2
Acq On : 29 Oct 2014 3:15 am Operator: 280
Sample : ICV SVMS 10K PPB 14G09881 Inst : BNAMS11
Misc : 8270 Primary Standard Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 29 3:49 2014 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\S811J04N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Sat Oct 04 20:15:55 2014
Response via : Multiple Level Calibration





TIC: 1028A_02.D

(90) Benzo(k)fluoranthene (MT)

13.77min (-0.059) 9504.5502373 ppb m

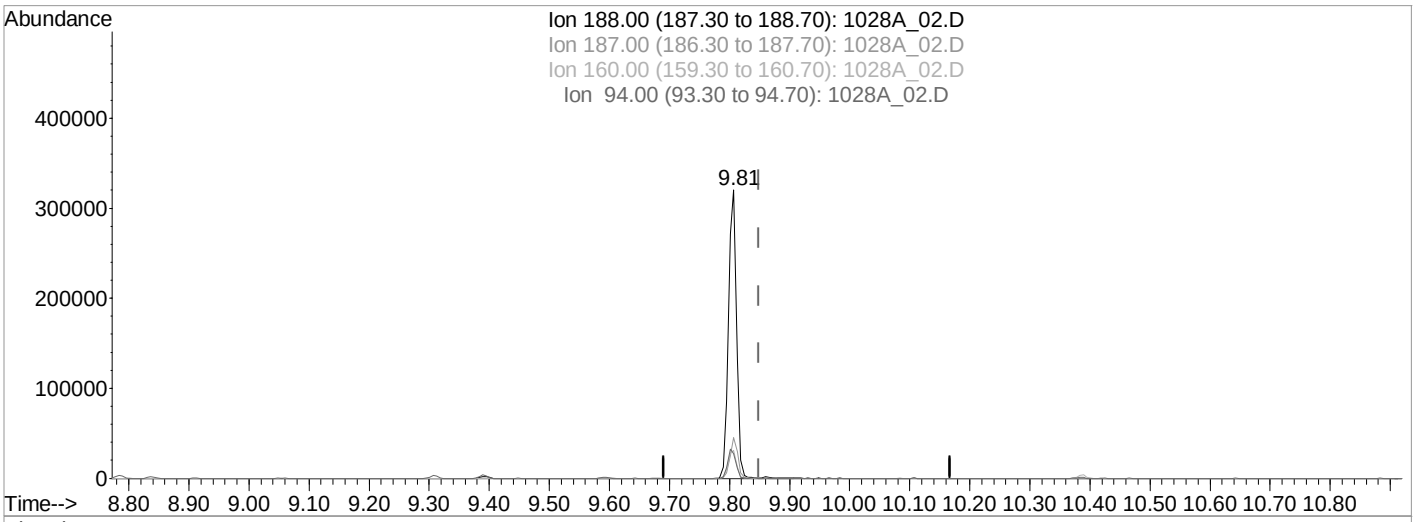
response 637853

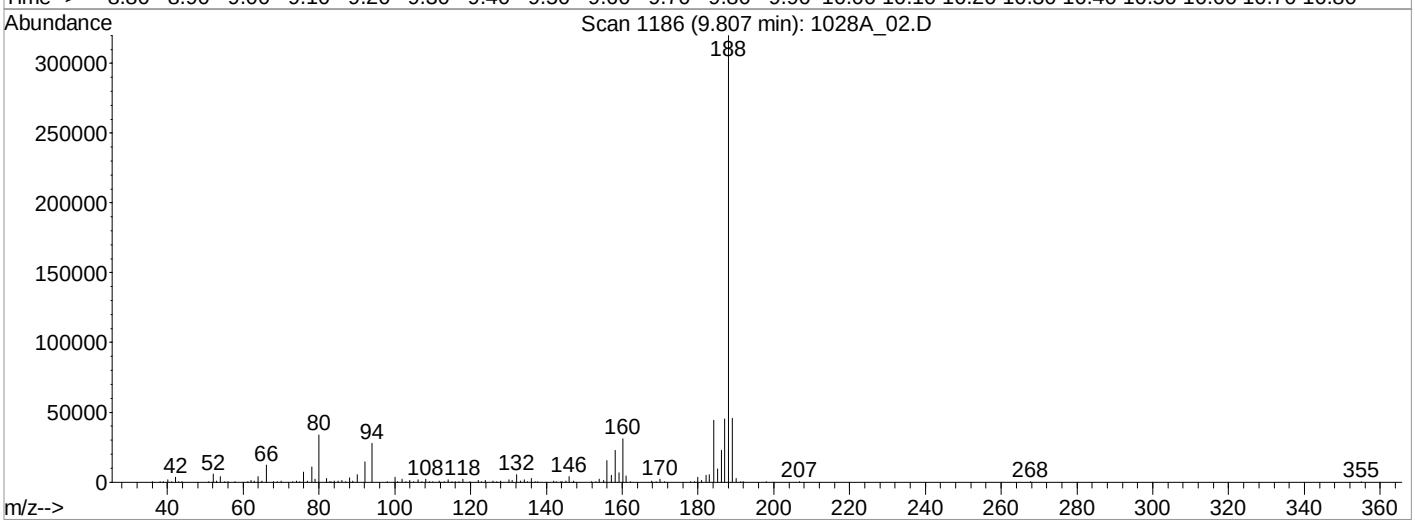
Ion	Exp%	Act%
252.00	100	100
253.00	21.60	21.10
126.00	15.70	15.86
125.00	11.00	10.94

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\102814A\1028A 02.D Vial: 2
Acq On : 29 Oct 2014 3:15 am Operator: 280
Sample : ICV SVMS 10K PPB 14G09881 Inst : BNAMS11
Misc : 8270 Primary Standard Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 29 10:59 2014 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\S811J04N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Sat Oct 04 20:15:55 2014
Response via : Multiple Level Calibration





TIC: 1028A_02.D

(64) Phenanthrene-d10 (I)

9.81min (-0.041) 8000.0000000 ppb m

response 300936

Ion	Exp%	Act%
188.00	100	100
187.00	15.80	14.15
160.00	10.60	9.70
94.00	9.80	8.64

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\102814A\1028A 02.D Vial: 2
Acq On : 29 Oct 2014 3:15 am Operator: 280
Sample : ICVRL SVMS 10K PPB 14G09881 Inst : BNAMS11
Misc : 8270 Primary Standard Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 29 10:59 2014 Quant Results File: S811J04N.RES

Quant Method : C:\MSDCHEM\1\METHODS\S811J04N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Sat Oct 04 20:15:55 2014
Response via : Initial Calibration
DataAcq Meth : BNA11A

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	5.14	152	59383	8000.00 ppb	-0.02
22) Naphthalene-d8	6.37	136	248734	8000.00 ppb	-0.03
40) Acenaphthene-d10	8.21	164	162088	8000.00 ppb	-0.04
64) Phenanthrene-d10	9.81	188	300936m	8000.00 ppb	-0.04
78) Chrysene-d12	12.65	240	368062	8000.00 ppb	-0.04
88) Perylene-d12	14.11	264	450678	8000.00 ppb	-0.02

System Monitoring Compounds

4) 2-Fluorophenol	4.08	112	105555	10953.2683751 ppb	0.00
Spiked Amount 20.000	Range 10 - 74		Recovery = 54766.34%#		
7) Phenol-d5	4.78	99	126943	10289.1800243 ppb	-0.01
Spiked Amount 20.000	Range 10 - 63		Recovery = 51445.90%#		
23) Nitrobenzene-d5	5.65	82	118936	9701.0739687 ppb	-0.02
Spiked Amount 10.000	Range 28 - 123		Recovery = 97010.74%#		
44) 2-Fluorobiphenyl	7.48	172	284507	9761.5770510 ppb	-0.04
Spiked Amount 10.000	Range 35 - 133		Recovery = 97615.77%#		
67) 2,4,6-Tribromophenol	9.05	330	46504	11506.0698039 ppb	-0.04
Spiked Amount 20.000	Range 22 - 154		Recovery = 57530.35%#		
81) p-Terphenyl-d14	11.49	244	454518	9721.8968445 ppb	-0.05
Spiked Amount 10.000	Range 30 - 148		Recovery = 97218.97%#		

Target Compounds

					Qvalue
2) Pyridine	3.14	79	176196	11352.8657282 ppb #	78
3) N-Nitrosodimethylamine	3.12	42	79707	8174.8836523 ppb #	65
5) Aniline	4.85	66	55798	8901.2289113 ppb	92
6) bis(2-Chloroethyl)ether	4.89	63	76737	9363.2817057 ppb	87
8) Phenol	4.80	94	128229	10348.0121266 ppb	88
9) Benzaldehyde	4.76	105	481	94.4792484 ppb #	1
10) 2-Chlorophenol	4.95	128	110228	10059.9237255 ppb	93
11) n-Decane	4.97	41	60578	7725.5998142 ppb	95
12) 1,3-Dichlorobenzene	5.10	146	125586	10201.7829958 ppb	94
13) 1,4-Dichlorobenzene	5.15	146	131321	10421.5206447 ppb	97
14) Benzyl Alcohol	5.25	79	96805	9747.1289192 ppb	92
15) 1,2-Dichlorobenzene	5.30	146	121708	10320.7408883 ppb	95
16) bis(2-Chloroisopropyl)ethe	5.37	121	34545	10041.5606658 ppb	100
17) 2-Methylphenol	5.34	108	95053	10090.0228038 ppb	93
18) Hexachloroethane	5.61	117	51948	9362.1252830 ppb	91
19) N-Nitrosodi-n-propylamine	5.50	70	77398	9672.6731888 ppb #	82
20) 3&4-Methyl phenol	5.48	107	110294	9968.2314297 ppb	94
21) Acetophenone	5.48	105	959	67.9909057 ppb #	1
24) Nitrobenzene	5.67	77	116346	9500.3875926 ppb	85
25) Isophorone	5.90	82	197548	9669.4916043 ppb	98
26) 2-Nitrophenol	5.98	139	61263	10423.9437009 ppb	80
27) 2,4-Dimethylphenol	6.00	107	102199	8559.0550111 ppb	97
28) bis(2-Chlorethoxy)methane	6.10	93	131279	10028.6582821 ppb	89
29) 2,4-Dichlorophenol	6.22	162	100846	10755.4190917 ppb #	84
30) Benzoic Acid	6.00	105	2986	1600.7721111 ppb #	1
31) 1,2,4-Trichlorobenzene	6.31	180	117741	10530.5563973 ppb	96
32) Naphthalene	6.40	128	349115	9867.4860722 ppb	99
33) 4-Chloroaniline	6.44	65	43854	9040.9704427 ppb	81
34) Hexachloro-1,3-butadiene	6.51	225	77072	10357.3751599 ppb	98
35) Caprolactam	6.92	113	2833	971.8132957 ppb #	23
36) 4-Chloro-3-methylphenol	6.92	107	104060	9488.1039385 ppb	94
37) 2-Methylnaphthalene	7.11	142	256241	10115.9084415 ppb	96
38) 1-Methylnaphthalene	7.21	142	235209	10067.0968211 ppb	97

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\102814A\1028A 02.D Vial: 2
Acq On : 29 Oct 2014 3:15 am Operator: 280
Sample : ICVRL SVMS 10K PPB 14G09881 Inst : BNAMS11
Misc : 8270 Primary Standard Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 29 10:59 2014 Quant Results File: S811J04N.RES

Quant Method : C:\MSDCHEM\1\METHODS\S811J04N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Sat Oct 04 20:15:55 2014
Response via : Initial Calibration
DataAcq Meth : BNA11A

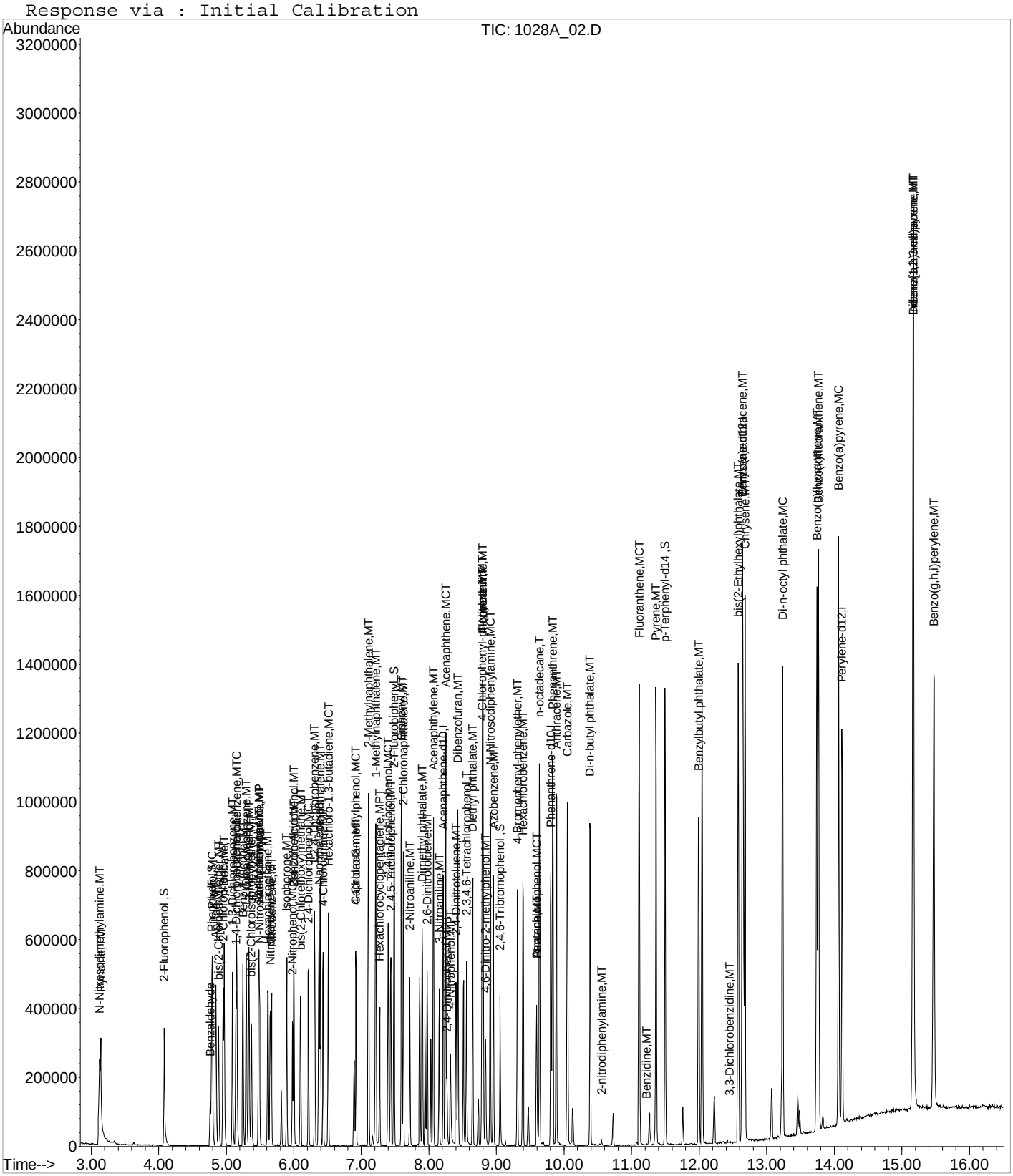
	Compound	R.T.	QIon	Response	Conc Unit		Qvalue
39)	1,2,4,5-Tetrachlorobenzene	0.00	216	0	N.D.		
41)	Hexachlorocyclopentadiene	7.27	237	59223	7175.9978819 ppb		96
42)	2,4,6-Trichlorophenol	7.40	196	77896	9990.6836599 ppb		90
43)	2,4,5-Trichlorophenol	7.44	196	83741	10196.5924431 ppb		93
45)	Biphenyl	7.60	154	315665	9715.9879641 ppb		100
46)	2-Chloronaphthalene	7.62	162	247998	9993.6987712 ppb		95
47)	2-Nitroaniline	7.72	138	74860	9356.3086817 ppb		88
48)	Acenaphthylene	8.07	152	382559	9614.4313947 ppb		99
49)	Dimethyl phthalate	7.90	163	262313	9411.7308707 ppb		96
50)	2,6-Dinitrotoluene	7.97	165	61634	9660.0315751 ppb		90
51)	3-Nitroaniline	8.15	138	67324	9450.8198034 ppb		92
52)	Acenaphthene	8.25	153	255840	9507.6617574 ppb		100
53)	2,4-Dinitrophenol	8.27	184	27063	7137.4922671 ppb	#	52
54)	Dibenzofuran	8.43	168	348991	9484.1635168 ppb		98
55)	2,4-Dinitrotoluene	8.40	165	82706	9451.7779910 ppb		84
56)	2,3,4,6-Tetrachlorophenol	8.55	232	66180	11481.6127427 ppb		90
57)	4-Nitrophenol	8.32	139	48960	8556.4972561 ppb	#	73
58)	Fluorene	8.80	166	286920	9286.1656137 ppb		96
59)	4-Chlorophenyl-phenylether	8.78	204	142252	9169.0582831 ppb		97
60)	Diethyl phthalate	8.65	149	279242	9072.6556074 ppb		97
61)	4-Nitroaniline	8.80	138	67848	9689.9772450 ppb		88
62)	Azobenzene	8.95	77	281095	8724.1001590 ppb		86
63)	Atrazine	9.60	200	8116	1026.6349959 ppb	#	32
65)	4,6-Dinitro-2-methylphenol	8.84	198	46912	9280.7572594 ppb	#	79
66)	N-Nitrosodiphenylamine	8.91	169	234569	9409.4630462 ppb		97
68)	4-Bromophenyl-phenylether	9.31	248	89118	10774.7704471 ppb		88
69)	Hexachlorobenzene	9.40	284	109398	11955.4261159 ppb		96
70)	n-octadecane	9.64	55	44057	7184.9204618 ppb	#	89
71)	Pentachlorophenol	9.60	266	51061	9175.3631565 ppb		94
72)	Phenanthrene	9.83	178	431797	9603.3674164 ppb		98
73)	Anthracene	9.89	178	444784	10041.5371089 ppb		99
74)	Carbazole	10.05	167	418226	9667.3643778 ppb		99
75)	Di-n-butyl phthalate	10.39	149	536996	9515.3731876 ppb		98
76)	2-nitrodiphenylamine	10.55	167	58	795.0453260 ppb	#	1
77)	Fluoranthene	11.11	202	539269	9495.8838605 ppb		99
79)	Benzidine	11.22	184	73	772.9114294 ppb	#	68
80)	Pyrene	11.36	202	568638	9129.1675808 ppb		97
82)	Benzylbutyl phthalate	11.99	149	258157	9004.5912041 ppb		86
83)	3,3-Dichlorobenzidine	12.45	252	63	2.9053165 ppb	#	32
84)	Benzo(a)anthracene	12.64	228	611040	9753.7934740 ppb		98
85)	Chrysene	12.68	228	548747	9628.1861239 ppb		99
86)	bis(2-Ethylhexyl)phthalate	12.58	149	400619	8836.1822041 ppb		99
87)	Di-n-octyl phthalate	13.24	149	705052	9400.0414830 ppb		99
89)	Benzo(b)fluoranthene	13.74	252	699031m	9639.5902983 ppb		
90)	Benzo(k)fluoranthene	13.77	252	637853m	9504.5502373 ppb		
91)	Benzo(a)pyrene	14.07	252	676739	9875.5577554 ppb		95
92)	Indeno(1,2,3-cd)pyrene	15.17	276	935993	11414.1772503 ppb		91
93)	Dibenz(a,h)anthracene	15.17	278	786269	11168.0362446 ppb		89
94)	Benzo(g,h,i)perylene	15.47	276	757211	11464.5391298 ppb		94

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\102814A\1028A 02.D Vial: 2
Acq On : 29 Oct 2014 3:15 am Operator: 280
Sample : ICVRL SVMS 10K PPB 14G09881 Inst : BNAMS11
Misc : 8270 Primary Standard Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 29 10:59 2014 Quant Results File: S811J04N.RES

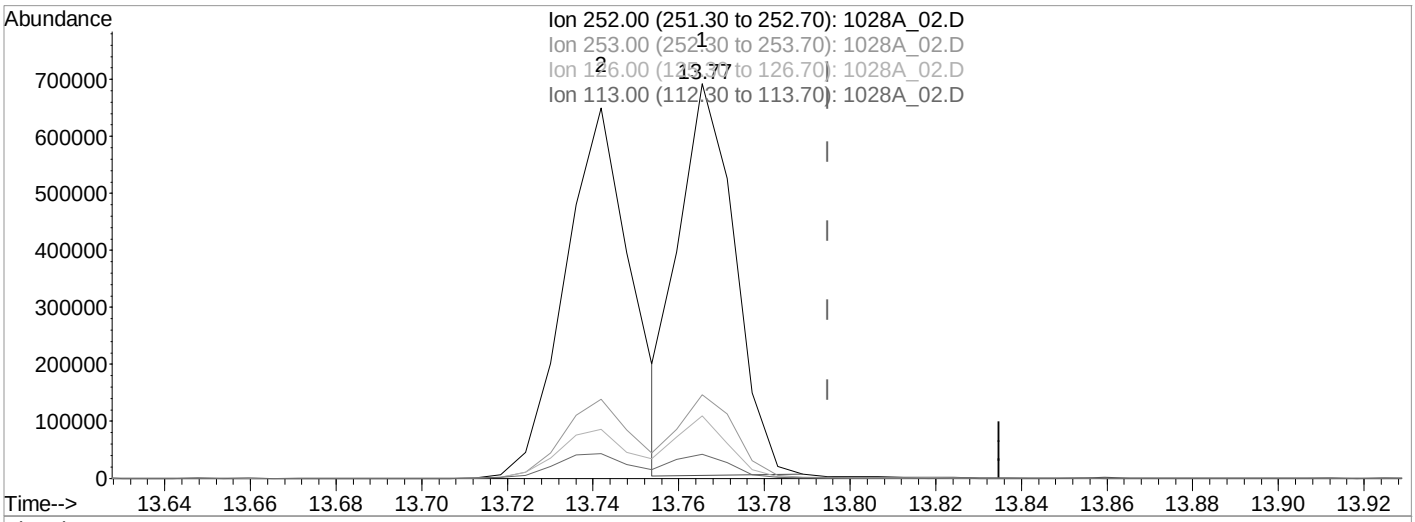
Method : C:\MSDCHEM\1\METHODS\S811J04N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Sat Oct 04 20:15:55 2014
Response via : Initial Calibration

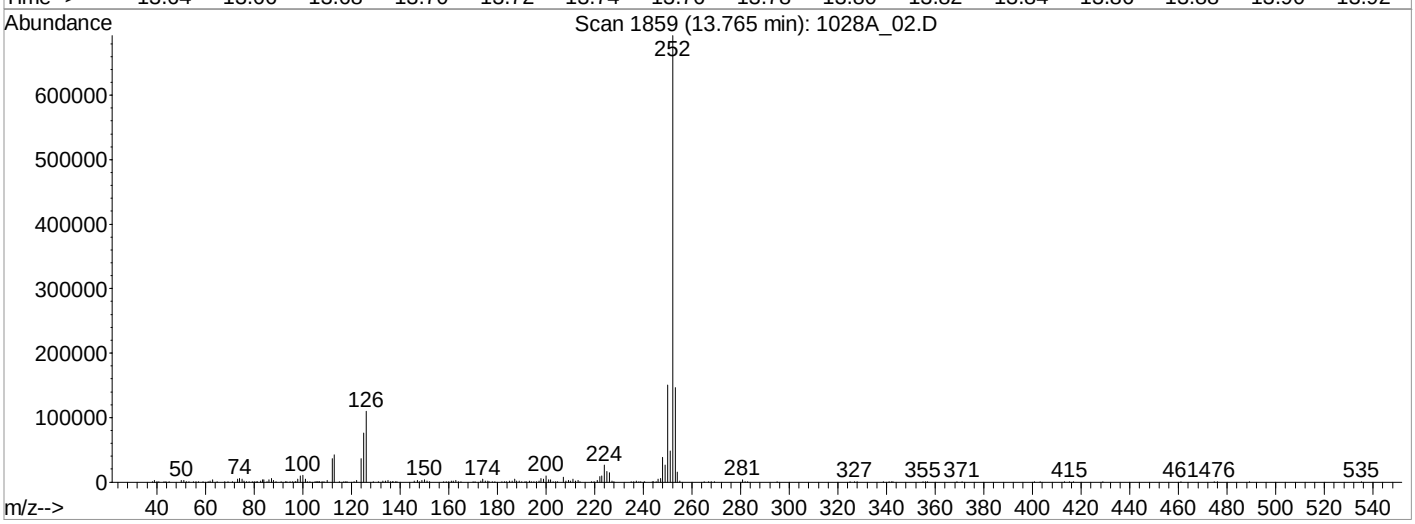


Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\102814A\1028A 02.D Vial: 2
Acq On : 29 Oct 2014 3:15 am Operator: 280
Sample : ICV SVMS 10K PPB 14G09881 Inst : BNAMS11
Misc : 8270 Primary Standard Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 29 3:48 2014 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\S811J04N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Sat Oct 04 20:15:55 2014
Response via : Multiple Level Calibration





TIC: 1028A_02.D

(89) Benzo(b)fluoranthene (MT)

13.77min (-0.029) 8567.5747365 ppb

Qvalue = 98

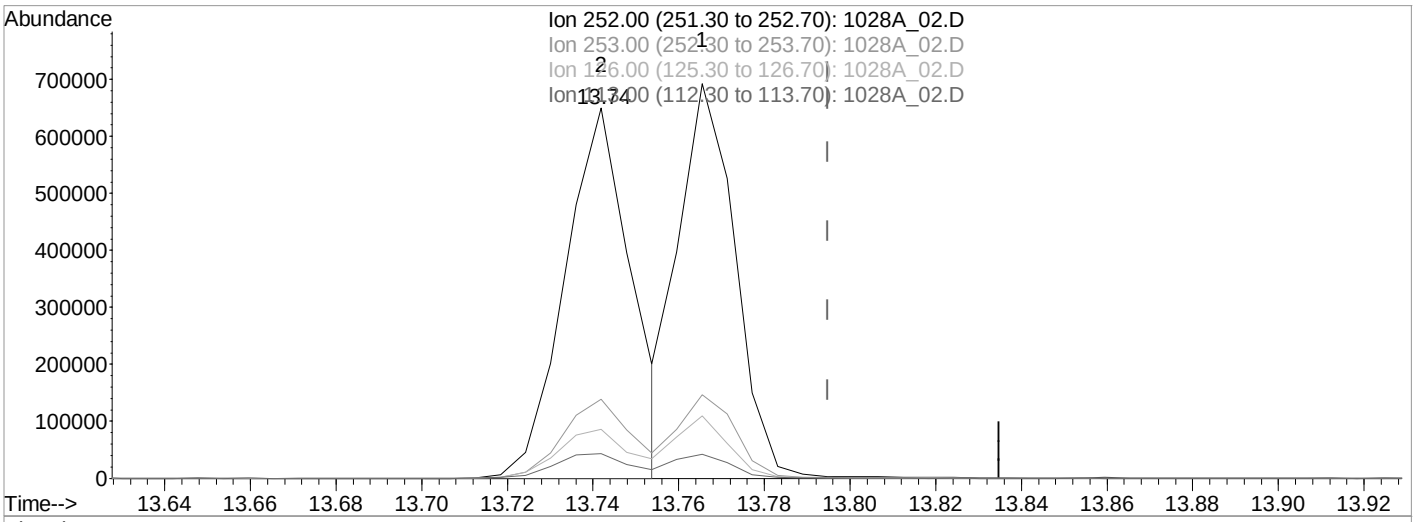
response 621292

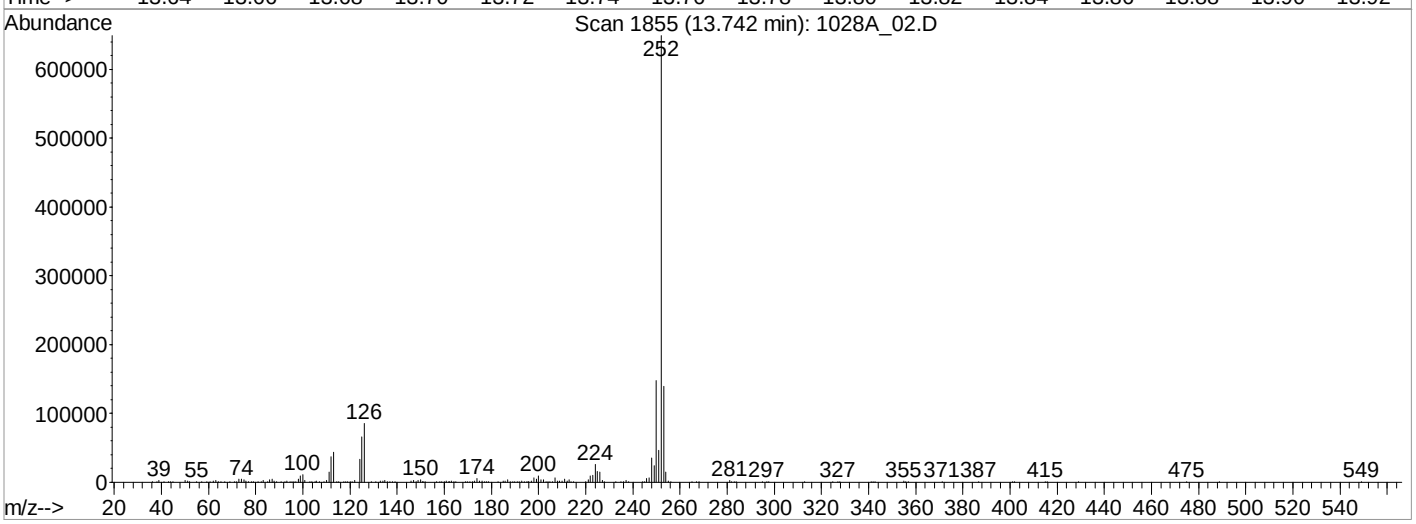
Ion	Exp%	Act%
252.00	100	100
253.00	21.20	20.92
126.00	16.00	15.64
113.00	7.90	5.90

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\102814A\1028A 02.D Vial: 2
Acq On : 29 Oct 2014 3:15 am Operator: 280
Sample : ICV SVMS 10K PPB 14G09881 Inst : BNAMS11
Misc : 8270 Primary Standard Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 29 3:48 2014 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\S811J04N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Sat Oct 04 20:15:55 2014
Response via : Multiple Level Calibration





TIC: 1028A_02.D

(89) Benzo(b)fluoranthene (MT)

13.74min (-0.053) 9639.5902983 ppb m

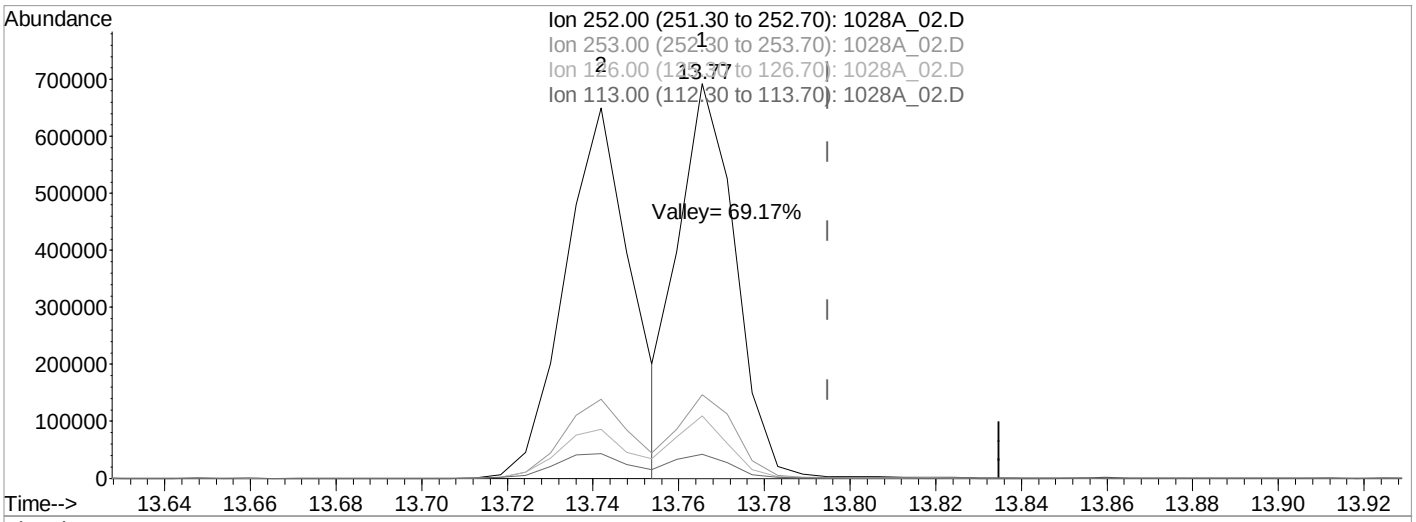
response 699031

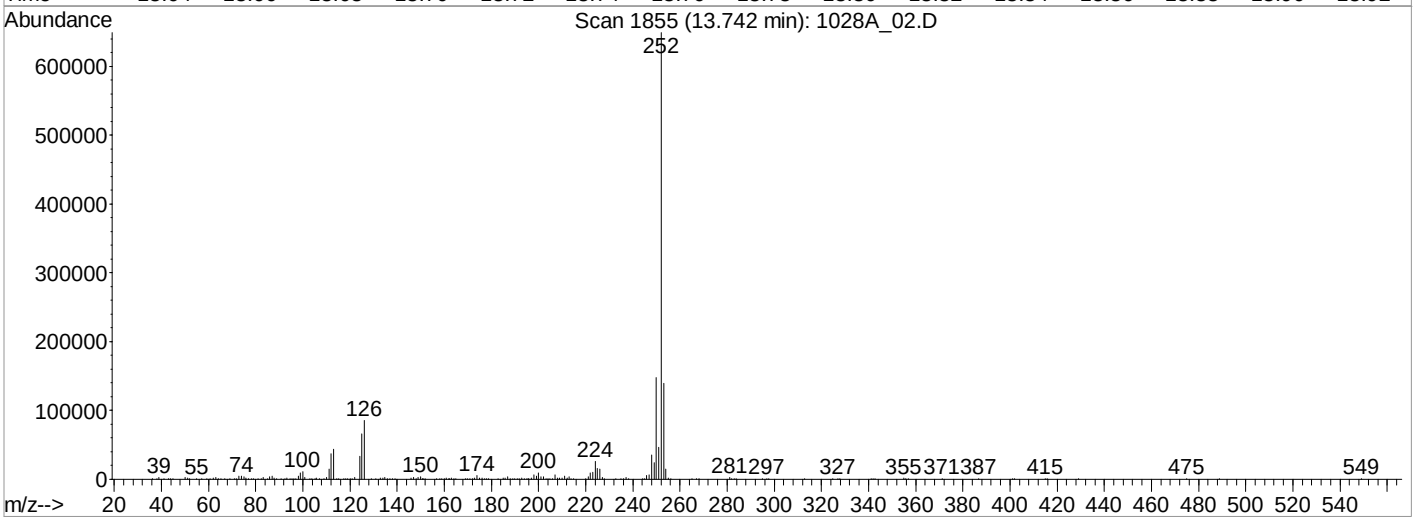
Ion	Exp%	Act%
252.00	100	100
253.00	21.20	21.39
126.00	16.00	13.16
113.00	7.90	6.72

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\102814A\1028A 02.D Vial: 2
Acq On : 29 Oct 2014 3:15 am Operator: 280
Sample : ICV SVMS 10K PPB 14G09881 Inst : BNAMS11
Misc : 8270 Primary Standard Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 29 3:48 2014 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\S811J04N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Sat Oct 04 20:15:55 2014
Response via : Multiple Level Calibration





TIC: 1028A_02.D

(89) Benzo(b)fluoranthene (MT)

13.74min (-0.053) 9639.5902983 ppb m

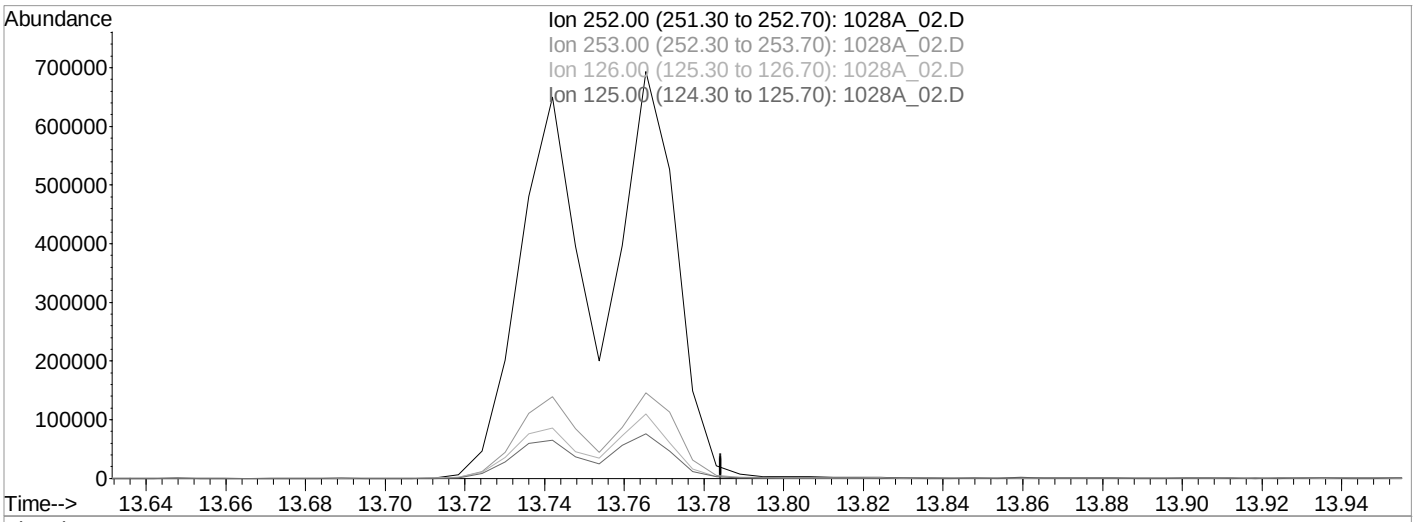
response 699031

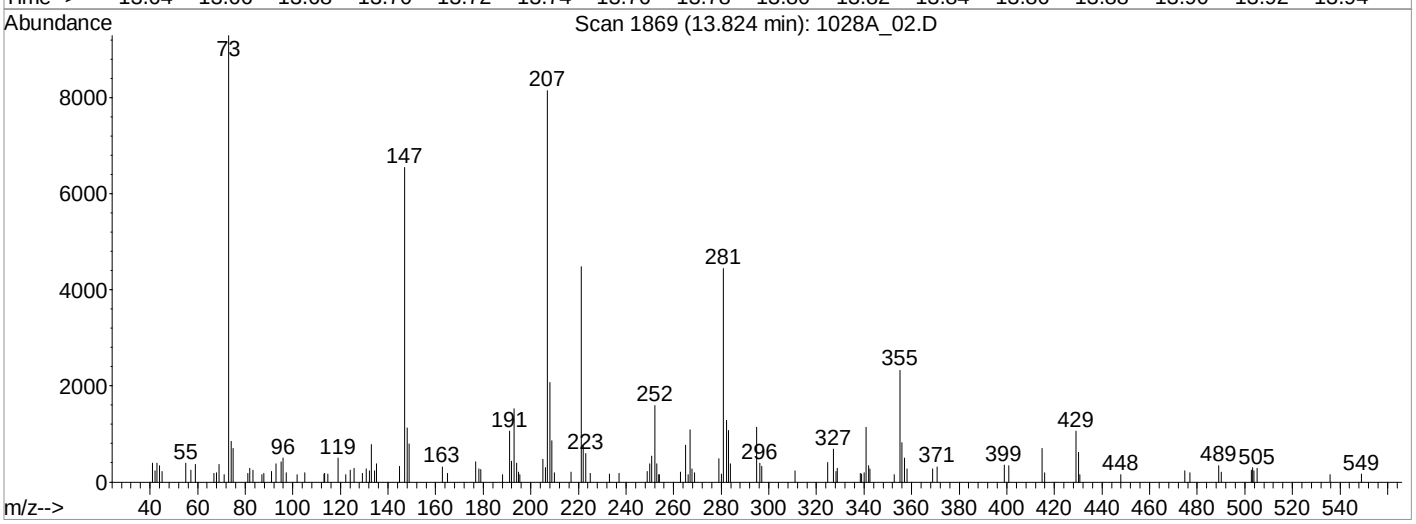
Ion	Exp%	Act%
252.00	100	100
253.00	21.20	21.39
126.00	16.00	13.16
113.00	7.90	6.72

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\102814A\1028A 02.D Vial: 2
Acq On : 29 Oct 2014 3:15 am Operator: 280
Sample : ICV SVMS 10K PPB 14G09881 Inst : BNAMS11
Misc : 8270 Primary Standard Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 29 3:48 2014 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\S811J04N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Sat Oct 04 20:15:55 2014
Response via : Multiple Level Calibration





TIC: 1028A_02.D

(90) Benzo(k)fluoranthene (MT)

13.82min (-13.824) 0.0000000 ppb

Qvalue = 0

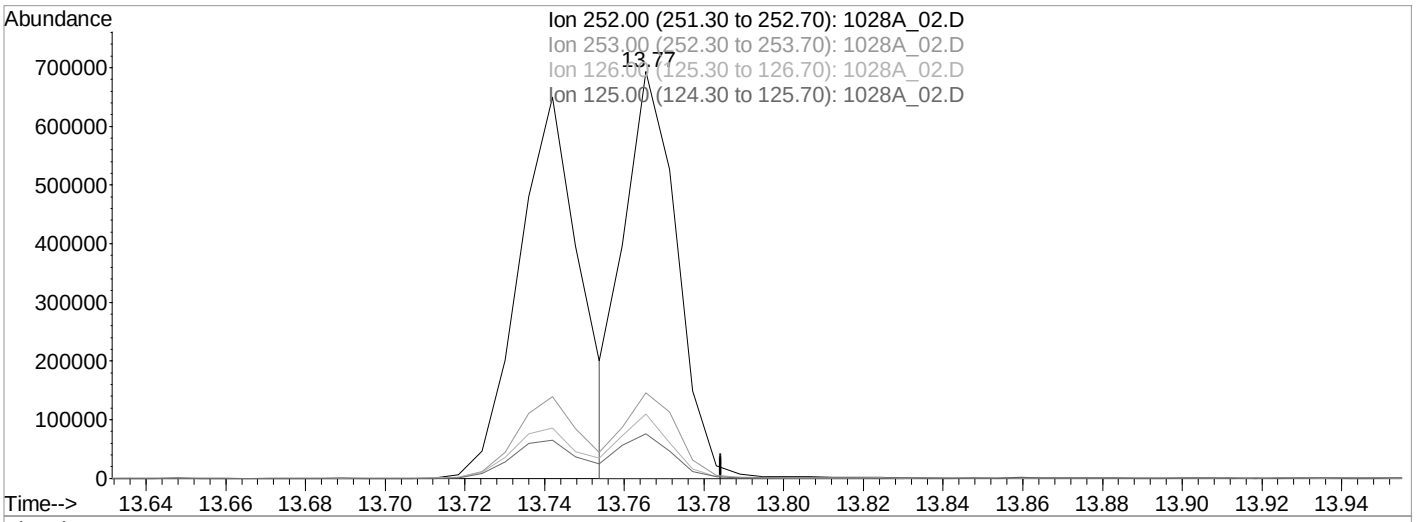
response 0

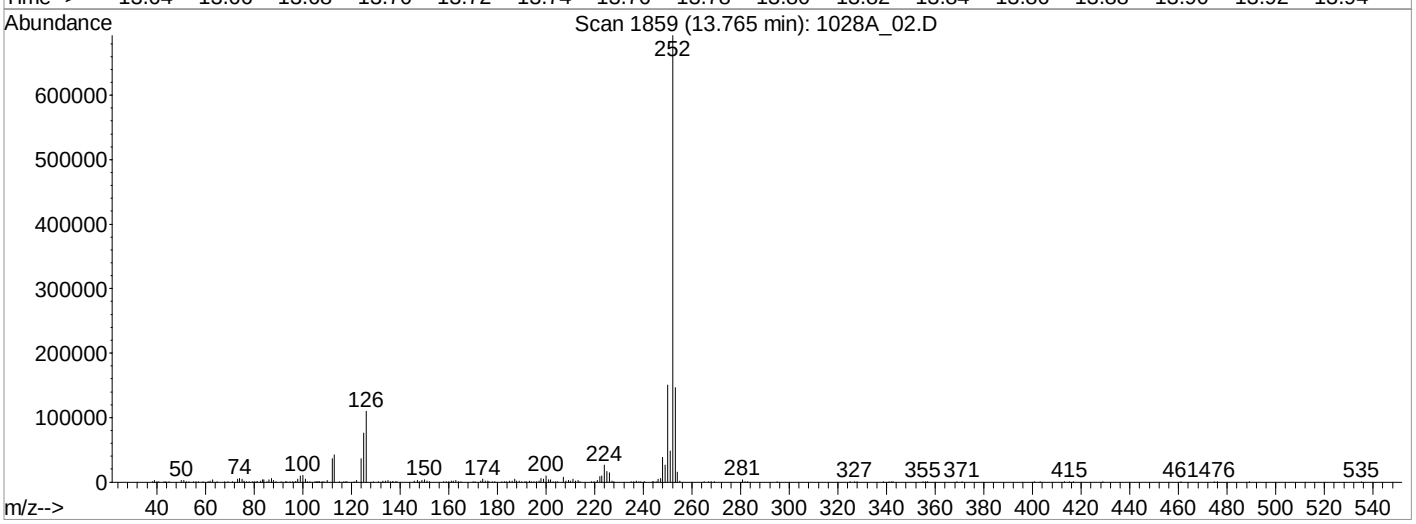
Ion	Exp%	Act%
252.00	100	0.00
253.00	21.60	0.00#
126.00	15.70	0.00
125.00	11.00	0.00

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\102814A\1028A 02.D Vial: 2
Acq On : 29 Oct 2014 3:15 am Operator: 280
Sample : ICV SVMS 10K PPB 14G09881 Inst : BNAMS11
Misc : 8270 Primary Standard Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 29 3:49 2014 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\S811J04N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Sat Oct 04 20:15:55 2014
Response via : Multiple Level Calibration





TIC: 1028A_02.D

(90) Benzo(k)fluoranthene (MT)

13.77min (-0.059) 9504.5502373 ppb m

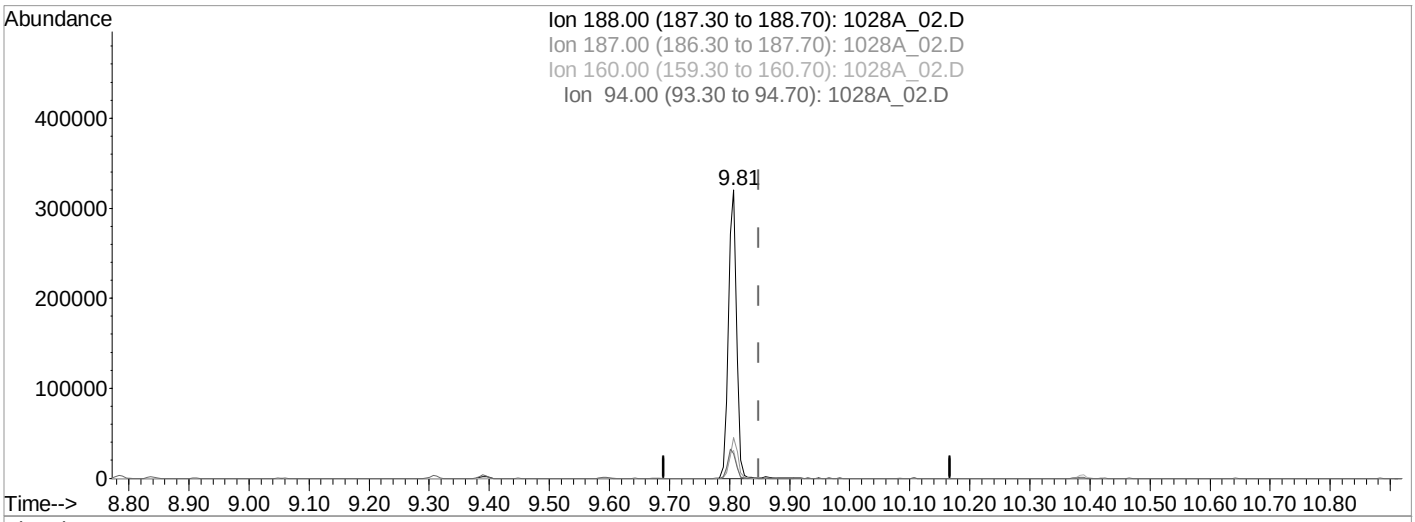
response 637853

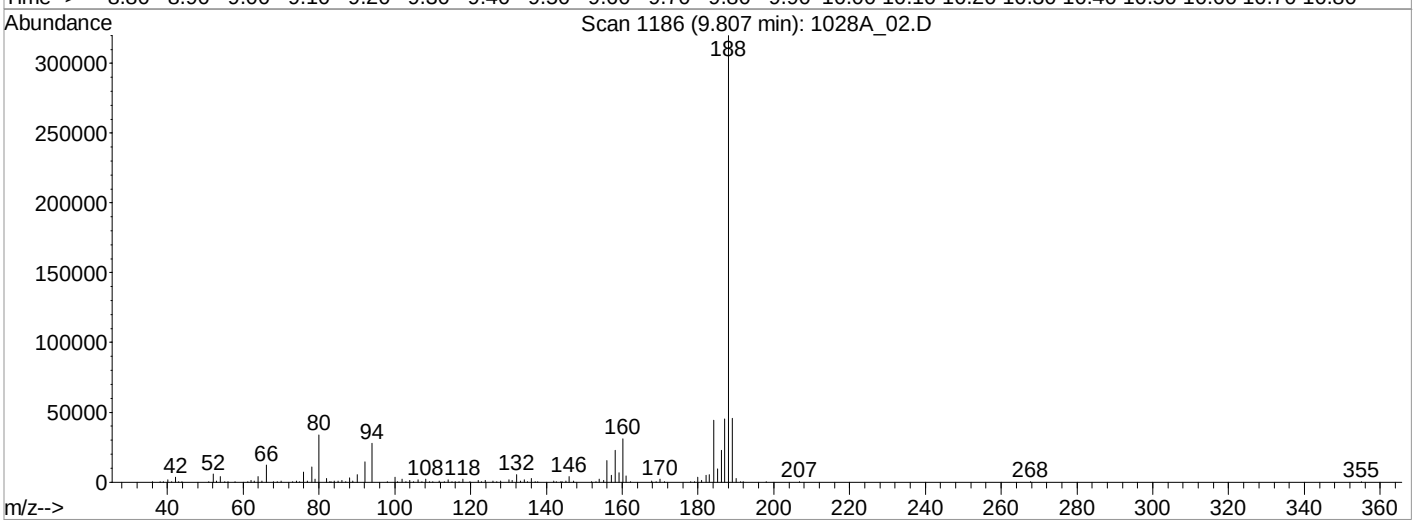
Ion	Exp%	Act%
252.00	100	100
253.00	21.60	21.10
126.00	15.70	15.86
125.00	11.00	10.94

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\102814A\1028A 02.D Vial: 2
Acq On : 29 Oct 2014 3:15 am Operator: 280
Sample : ICV SVMS 10K PPB 14G09881 Inst : BNAMS11
Misc : 8270 Primary Standard Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 29 10:59 2014 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\S811J04N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Sat Oct 04 20:15:55 2014
Response via : Multiple Level Calibration





TIC: 1028A_02.D

(64) Phenanthrene-d10 (I)

9.81min (-0.041) 8000.0000000 ppb m

response 300936

Ion	Exp%	Act%
188.00	100	100
187.00	15.80	14.15
160.00	10.60	9.70
94.00	9.80	8.64

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\102814A\1028A 03.D Vial: 3
Acq On : 29 Oct 2014 3:36 am Operator: 280
Sample : ICV TCL 10K1 PPB 14G09882 Inst : BNAMS11
Misc : 8270 TCL Standard Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 29 10:20 2014 Quant Results File: S811J04N.RES

Quant Method : C:\MSDCHEM\1\METHODS\S811J04N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Sat Oct 04 20:15:55 2014
Response via : Initial Calibration
DataAcq Meth : BNA11A

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	5.14	152	76250	8000.00 ppb	-0.02
22) Naphthalene-d8	6.37	136	314837	8000.00 ppb	-0.03
40) Acenaphthene-d10	8.21	164	205491	8000.00 ppb	-0.04
64) Phenanthrene-d10	9.81	188	365332	8000.00 ppb	-0.04
78) Chrysene-d12	12.65	240	445617	8000.00 ppb	-0.04
88) Perylene-d12	14.11	264	568009	8000.00 ppb	-0.02

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	0	0.0000000 ppb	
Spiked Amount 20.000	Range 10 - 63		Recovery = 0.00%#		
23) Nitrobenzene-d5	5.55	82	61	3.9308431 ppb	-0.12
Spiked Amount 10.000	Range 28 - 123		Recovery = 39.31%		
44) 2-Fluorobiphenyl	7.55	172	311	8.4167703 ppb	0.04
Spiked Amount 10.000	Range 35 - 133		Recovery = 84.17%		
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	0.00	244	0	0.0000000 ppb	
Spiked Amount 10.000	Range 30 - 148		Recovery = 0.00%#		

Target Compounds					Qvalue
2) Pyridine	3.24	79	57	2.8602672 ppb #	17
3) N-Nitrosodimethylamine	3.12	42	120	9.5849235 ppb #	1
5) Aniline	4.77	66	59	7.3300280 ppb #	1
6) bis(2-Chloroethyl)ether	4.77	63	2548	242.1279823 ppb #	10
8) Phenol	0.00	94	0	N.D.	
9) Benzaldehyde	4.77	105	66465	10167.3236504 ppb #	90
10) 2-Chlorophenol	5.00	128	54	3.8381223 ppb #	34
11) n-Decane	4.93	41	330	32.7758153 ppb #	46
12) 1,3-Dichlorobenzene	0.00	146	0	N.D.	
13) 1,4-Dichlorobenzene	0.00	146	0	N.D.	
14) Benzyl Alcohol	5.25	79	121	9.4882600 ppb	88
15) 1,2-Dichlorobenzene	0.00	146	0	N.D.	
16) bis(2-Chloroisopropyl)ethe	5.51	121	4337	981.8106250 ppb #	1
17) 2-Methylphenol	0.00	108	0	N.D.	
18) Hexachloroethane	5.50	117	62	8.7020103 ppb #	11
19) N-Nitrosodi-n-propylamine	5.48	70	56	5.4503839 ppb #	12
20) 3&4-Methyl phenol	5.51	107	887	62.4327020 ppb #	1
21) Acetophenone	5.51	105	179226	9895.9050014 ppb #	94
24) Nitrobenzene	5.51	77	147112	9490.4620174 ppb #	56
25) Isophorone	6.05	82	63	2.4362449 ppb	59
26) 2-Nitrophenol	5.82	139	64	8.6032622 ppb #	26
27) 2,4-Dimethylphenol	6.08	107	59	3.9037372 ppb #	1
28) bis(2-Chlorethoxy)methane	6.10	93	67	4.0436333 ppb #	60
29) 2,4-Dichlorophenol	0.00	162	0	N.D.	
30) Benzoic Acid	6.08	105	68063	9440.3034469 ppb	98
31) 1,2,4-Trichlorobenzene	6.31	180	494	34.9059881 ppb #	72
32) Naphthalene	6.40	128	2941	65.6723302 ppb	91
33) 4-Chloroaniline	6.38	65	893	145.4476419 ppb #	6
34) Hexachloro-1,3-butadiene	0.00	225	0	N.D.	
35) Caprolactam	6.78	113	37569	10181.5825278 ppb #	75
36) 4-Chloro-3-methylphenol	6.66	107	65	4.6822905 ppb #	14
37) 2-Methylnaphthalene	0.00	142	0	N.D.	
38) 1-Methylnaphthalene	7.28	142	1303	44.0599616 ppb #	40

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\102814A\1028A 03.D Vial: 3
Acq On : 29 Oct 2014 3:36 am Operator: 280
Sample : ICV TCL 10K1 PPB 14G09882 Inst : BNAMS11
Misc : 8270 TCL Standard Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 29 10:20 2014 Quant Results File: S811J04N.RES

Quant Method : C:\MSDCHEM\1\METHODS\S811J04N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Sat Oct 04 20:15:55 2014
Response via : Initial Calibration
DataAcq Meth : BNA11A

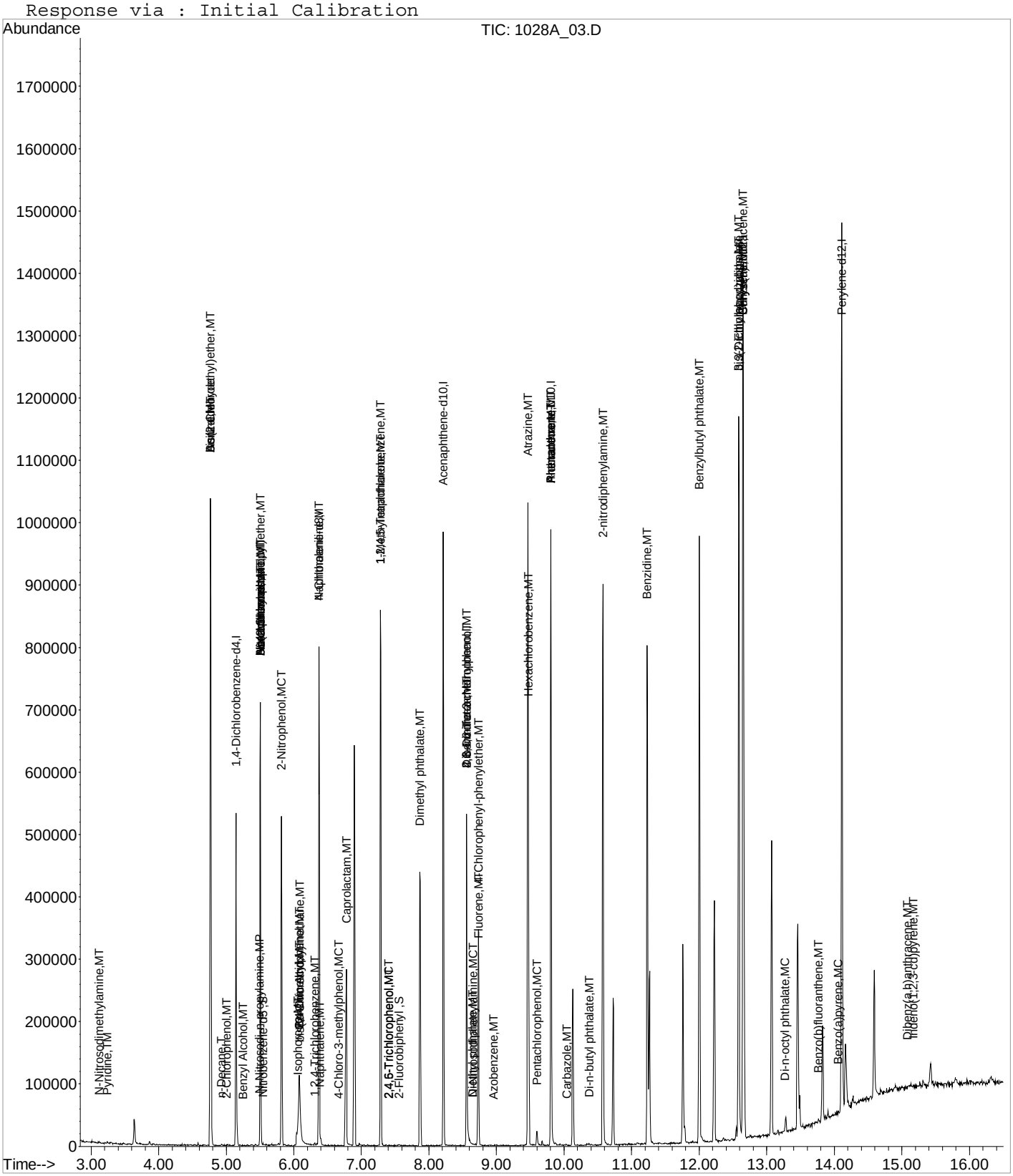
	Compound	R.T.	QIon	Response	Conc Unit		Qvalue
39)	1,2,4,5-Tetrachlorobenzene	7.29	216	153868	10234.9502688 ppb		99
41)	Hexachlorocyclopentadiene	0.00	237	0	N.D.		
42)	2,4,6-Trichlorophenol	7.40	196	80	8.0933458 ppb	#	12
43)	2,4,5-Trichlorophenol	7.42	196	63	6.0508380 ppb	#	16
45)	Biphenyl	0.00	154	0	N.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	7.87	163	99	2.8018375 ppb	#	61
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.		
53)	2,4-Dinitrophenol	0.00	184	0	N.D.		
54)	Dibenzofuran	8.56	168	21375	458.1935667 ppb	#	44
55)	2,4-Dinitrotoluene	0.00	165	0	N.D.		
56)	2,3,4,6-Tetrachlorophenol	8.56	232	69236	9474.7150836 ppb		84
57)	4-Nitrophenol	0.00	139	0	N.D.		
58)	Fluorene	8.74	166	80	2.0423193 ppb		85
59)	4-Chlorophenyl-phenylether	8.74	204	79	4.0165345 ppb	#	23
60)	Diethyl phthalate	8.64	149	81	2.0758538 ppb		65
61)	4-Nitroaniline	0.00	138	0	N.D.		
62)	Azobenzene	8.95	77	53	1.2974823 ppb	#	1
63)	Atrazine	9.47	200	98145	9792.6506923 ppb	#	88
65)	4,6-Dinitro-2-methylphenol	8.56	198	3102	505.5075988 ppb	#	26
66)	N-Nitrosodiphenylamine	8.65	169	55	1.8173700 ppb	#	3
68)	4-Bromophenyl-phenylether	0.00	248	0	N.D.		
69)	Hexachlorobenzene	9.48	284	368	33.1275964 ppb	#	1
70)	n-octadecane	9.81	55	264	35.4647906 ppb	#	1
71)	Pentachlorophenol	9.60	266	3091	683.2399366 ppb	#	79
72)	Phenanthrene	9.81	178	103	1.8869812 ppb	#	1
73)	Anthracene	9.81	178	103	1.9154671 ppb	#	40
74)	Carbazole	10.05	167	64	1.2186064 ppb	#	62
75)	Di-n-butyl phthalate	10.38	149	273	3.9847754 ppb		78
76)	2-nitrodiphenylamine	10.58	167	123811	8528.3142384 ppb		94
77)	Fluoranthene	0.00	202	0	N.D.		
79)	Benzidine	11.23	184	321443	8126.4631842 ppb		98
80)	Pyrene	0.00	202	0	N.D.		
82)	Benzylbutyl phthalate	11.99	149	512	14.7505865 ppb	#	1
83)	3,3-Dichlorobenzidine	12.58	252	272321	10372.7345911 ppb		98
84)	Benzo(a)anthracene	12.64	228	1699	22.4004387 ppb	#	1
85)	Chrysene	12.64	228	1699	24.6220908 ppb		75
86)	bis(2-Ethylhexyl)phthalate	12.58	149	5729	104.3689161 ppb		92
87)	Di-n-octyl phthalate	13.27	149	4285	47.1865992 ppb		73
89)	Benzo(b)fluoranthene	13.76	252	130	1.4223833 ppb	#	61
90)	Benzo(k)fluoranthene	13.79	252	58	N.D.		
91)	Benzo(a)pyrene	14.05	252	300	3.4735442 ppb		67
92)	Indeno(1,2,3-cd)pyrene	15.17	276	162	1.5674661 ppb	#	1
93)	Dibenz(a,h)anthracene	15.08	278	143	1.6115836 ppb	#	20
94)	Benzo(g,h,i)perylene	15.47	276	77	N.D.		

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\102814A\1028A 03.D Vial: 3
Acq On : 29 Oct 2014 3:36 am Operator: 280
Sample : ICV TCL 10K1 PPB 14G09882 Inst : BNAMS11
Misc : 8270 TCL Standard Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 29 10:20 2014 Quant Results File: S811J04N.RES

Method : C:\MSDCHEM\1\METHODS\S811J04N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Sat Oct 04 20:15:55 2014
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\102814A\1028A 04.D Vial: 61
Acq On : 29 Oct 2014 3:58 am Operator: 280
Sample : LCS 1x WG751293 100-0.5 Inst : BNAMS11
Misc : water 14J08667/14J20252 Multiplr: 0.01
MS Integration Params: RTEINT.P
Quant Time: Oct 29 11:09 2014 Quant Results File: S811J04N.RES

Quant Method : C:\MSDCHEM\1\METHODS\S811J04N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Sat Oct 04 20:15:55 2014
Response via : Initial Calibration
DataAcq Meth : BNA11A

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	5.15	152	93651	8000.00 ppb	-0.02
22) Naphthalene-d8	6.37	136	387941	8000.00 ppb	-0.03
40) Acenaphthene-d10	8.22	164	259378	8000.00 ppb	-0.03
64) Phenanthrene-d10	9.81	188	482872	8000.00 ppb	-0.04
78) Chrysene-d12	12.65	240	586092	8000.00 ppb	-0.04
88) Perylene-d12	14.11	264	762748	8000.00 ppb	-0.02

System Monitoring Compounds					
4) 2-Fluorophenol	4.09	112	29229	9.6160917 ppb	0.00
Spiked Amount 20.000	Range 10 - 74		Recovery = 48.08%		
7) Phenol-d5	4.79	99	28997	7.4515187 ppb	0.00
Spiked Amount 20.000	Range 10 - 63		Recovery = 37.26%		
23) Nitrobenzene-d5	5.65	82	23448	6.1312888 ppb	-0.02
Spiked Amount 10.000	Range 28 - 123		Recovery = 61.31%		
44) 2-Fluorobiphenyl	7.49	172	57079	6.1191502 ppb	-0.03
Spiked Amount 10.000	Range 35 - 133		Recovery = 61.19%		
67) 2,4,6-Tribromophenol	9.06	330	20718	15.9733736 ppb	-0.04
Spiked Amount 20.000	Range 22 - 154		Recovery = 79.87%		
81) p-Terphenyl-d14	11.49	244	88235	5.9260595 ppb	-0.05
Spiked Amount 10.000	Range 30 - 148		Recovery = 59.26%		

Target Compounds						Qvalue
2) Pyridine	3.15	79	48779	9.9646505 ppb	#	72
3) N-Nitrosodimethylamine	3.13	42	25359	8.2458790 ppb	#	55
5) Aniline	4.85	66	28763m	14.5473952 ppb		
6) bis(2-Chloroethyl)ether	4.89	63	37493	14.5041801 ppb		92
8) Phenol	4.80	94	37516	9.5985785 ppb		94
9) Benzaldehyde	4.77	105	29235	18.2059846 ppb		93
10) 2-Chlorophenol	4.95	128	53832	15.5762531 ppb		91
11) n-Decane	4.98	41	24457	9.8887223 ppb	#	96
12) 1,3-Dichlorobenzene	5.10	146	50595	13.0305328 ppb		97
13) 1,4-Dichlorobenzene	5.16	146	51125	12.8632276 ppb		96
14) Benzyl Alcohol	5.25	79	45283	14.4555237 ppb		93
15) 1,2-Dichlorobenzene	5.30	146	50358	13.5387928 ppb		93
16) bis(2-Chloroisopropyl)ethe	5.38	121	17706	16.3175968 ppb		89
17) 2-Methylphenol	5.34	108	43963	14.7956265 ppb		94
18) Hexachloroethane	5.62	117	19838	11.3350443 ppb		88
19) N-Nitrosodi-n-propylamine	5.50	70	41324	16.3733991 ppb		85
20) 3&4-Methyl phenol	5.48	107	56325	16.1393911 ppb		86
21) Acetophenone	5.51	105	74617	16.7721880 ppb		96
24) Nitrobenzene	5.67	77	59338	15.5332470 ppb		86
25) Isophorone	5.90	82	118155	18.5405488 ppb		96
26) 2-Nitrophenol	5.98	139	30183	16.4640122 ppb		89
27) 2,4-Dimethylphenol	6.01	107	62279	16.7209242 ppb		96
28) bis(2-Chlorethoxy)methane	6.10	93	70152	17.1801562 ppb		87
29) 2,4-Dichlorophenol	6.22	162	51302	17.5405188 ppb	#	87
30) Benzoic Acid	6.04	105	2046	6.6449572 ppb		98
31) 1,2,4-Trichlorobenzene	6.31	180	49013	14.0531720 ppb		92
32) Naphthalene	6.40	128	161914	14.6710735 ppb		98
33) 4-Chloroaniline	6.44	65	23549	15.5638768 ppb		81
34) Hexachloro-1,3-butadiene	6.51	225	29326	12.6341313 ppb		94
35) Caprolactam	6.76	113	5096	5.6040907 ppb	#	76
36) 4-Chloro-3-methylphenol	6.92	107	56497	16.5143117 ppb		97
37) 2-Methylnaphthalene	7.11	142	121337	15.3563853 ppb		96
38) 1-Methylnaphthalene	7.21	142	124605	17.0972104 ppb		96

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\102814A\1028A 04.D Vial: 61
Acq On : 29 Oct 2014 3:58 am Operator: 280
Sample : LCS 1x WG751293 100-0.5 Inst : BNAMS11
Misc : water 14J08667/14J20252 Multiplr: 0.01
MS Integration Params: RTEINT.P
Quant Time: Oct 29 11:09 2014 Quant Results File: S811J04N.RES

Quant Method : C:\MSDCHEM\1\METHODS\S811J04N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Sat Oct 04 20:15:55 2014
Response via : Initial Calibration
DataAcq Meth : BNA11A

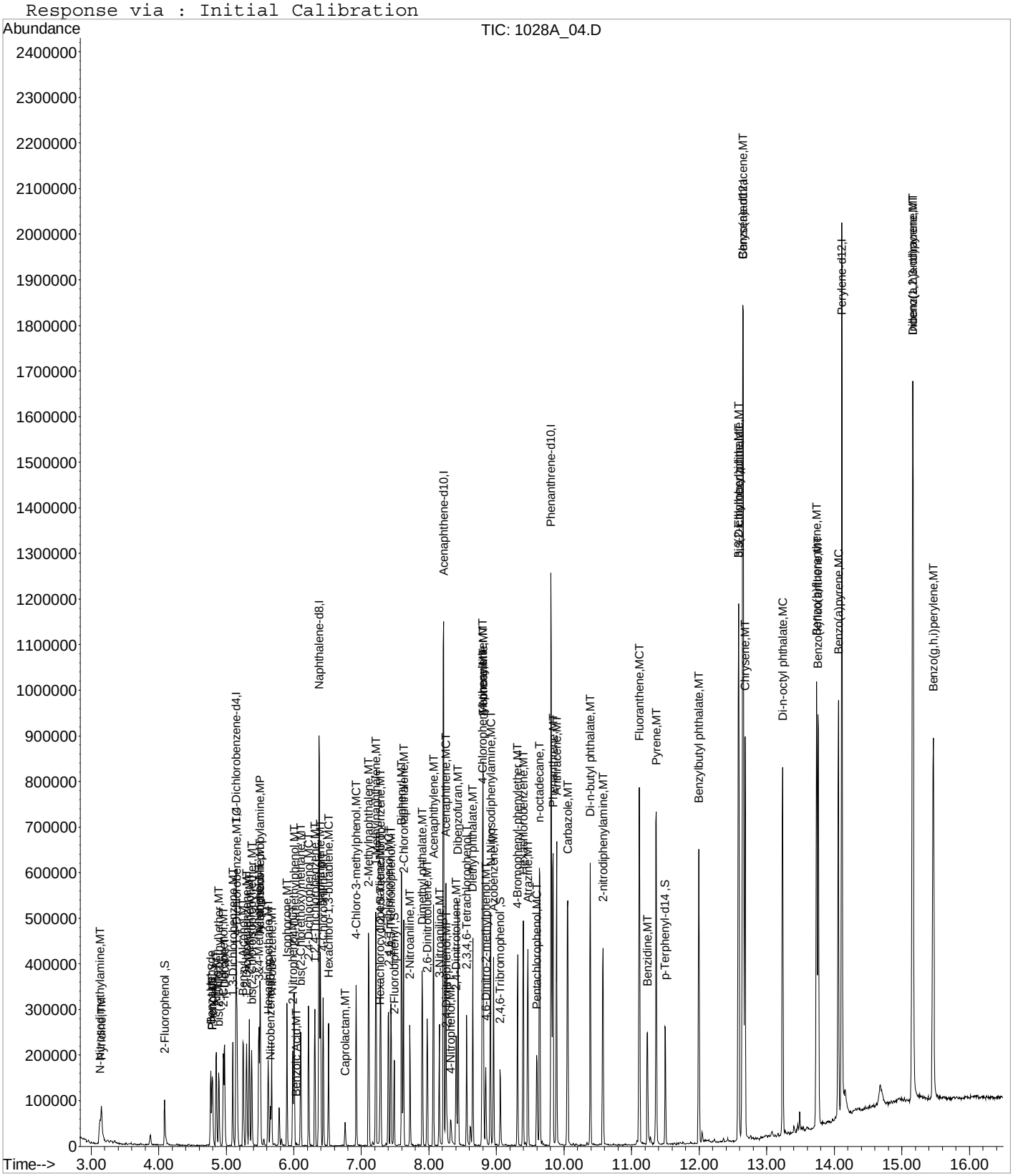
	Compound	R.T.	QIon	Response	Conc Unit		Qvalue
39)	1,2,4,5-Tetrachlorobenzene	7.28	216	57447	15.5058247 ppb		97
41)	Hexachlorocyclopentadiene	7.27	237	14607	5.5301977 ppb		94
42)	2,4,6-Trichlorophenol	7.40	196	40826	16.3608029 ppb	#	89
43)	2,4,5-Trichlorophenol	7.44	196	47401	18.0340036 ppb		94
45)	Biphenyl	7.60	154	171753	16.5178151 ppb		98
46)	2-Chloronaphthalene	7.62	162	128880	16.2274894 ppb		96
47)	2-Nitroaniline	7.72	138	41182	16.0823639 ppb		92
48)	Acenaphthylene	8.07	152	212940	16.7213047 ppb		99
49)	Dimethyl phthalate	7.90	163	152244	17.0678022 ppb		99
50)	2,6-Dinitrotoluene	7.97	165	33011	16.1660755 ppb		95
51)	3-Nitroaniline	8.15	138	36847	16.1617891 ppb		92
52)	Acenaphthene	8.25	153	137661	15.9846793 ppb		97
53)	2,4-Dinitrophenol	8.27	184	9511	13.4506527 ppb	#	60
54)	Dibenzofuran	8.43	168	199497	16.9398245 ppb		98
55)	2,4-Dinitrotoluene	8.41	165	46927	16.7566430 ppb	#	79
56)	2,3,4,6-Tetrachlorophenol	8.56	232	36360	19.7100505 ppb		88
57)	4-Nitrophenol	8.32	139	14043	7.6683554 ppb	#	67
58)	Fluorene	8.80	166	160718	16.2527873 ppb		95
59)	4-Chlorophenyl-phenylether	8.79	204	76207	15.3478996 ppb		92
60)	Diethyl phthalate	8.65	149	160303	16.2735786 ppb		97
61)	4-Nitroaniline	8.80	138	37068	16.5414125 ppb		95
62)	Azobenzene	8.96	77	163479	15.8532105 ppb		86
63)	Atrazine	9.47	200	47957	18.9545625 ppb	#	90
65)	4,6-Dinitro-2-methylphenol	8.84	198	24143	14.8834230 ppb	#	73
66)	N-Nitrosodiphenylamine	8.91	169	135230	16.9036074 ppb		97
68)	4-Bromophenyl-phenylether	9.31	248	49524	18.6582297 ppb		95
69)	Hexachlorobenzene	9.40	284	63178	21.5146198 ppb		94
70)	n-octadecane	9.64	55	27402	13.9251997 ppb	#	90
71)	Pentachlorophenol	9.60	266	26114	15.4316229 ppb		94
72)	Phenanthrene	9.84	178	249871	17.3169700 ppb		98
73)	Anthracene	9.89	178	255624	17.9831097 ppb		99
74)	Carbazole	10.05	167	238881	17.2064309 ppb		99
75)	Di-n-butyl phthalate	10.39	149	303094	16.7357138 ppb		99
76)	2-nitrodiphenylamine	10.58	167	58119	17.6934787 ppb		92
77)	Fluoranthene	11.11	202	305857	16.7826481 ppb		98
79)	Benzidine	11.24	184	109550	13.3844022 ppb		99
80)	Pyrene	11.37	202	321778	16.2209708 ppb		97
82)	Benzylbutyl phthalate	11.99	149	146349	16.0285799 ppb		93
83)	3,3-Dichlorobenzidine	12.59	252	131724	19.0740538 ppb		95
84)	Benzo(a)anthracene	12.64	228	356164	17.8516814 ppb		96
85)	Chrysene	12.68	228	318563	17.5506354 ppb		99
86)	bis(2-Ethylhexyl)phthalate	12.58	149	227082	15.7268239 ppb		98
87)	Di-n-octyl phthalate	13.24	149	409880	17.1589434 ppb		98
89)	Benzo(b)fluoranthene	13.74	252	389281m	15.8591765 ppb		
90)	Benzo(k)fluoranthene	13.77	252	383185m	16.8684335 ppb		
91)	Benzo(a)pyrene	14.06	252	387237	16.6944671 ppb		96
92)	Indeno(1,2,3-cd)pyrene	15.17	276	541865	19.5217343 ppb		90
93)	Dibenz(a,h)anthracene	15.16	278	442845	18.5828659 ppb		92
94)	Benzo(g,h,i)perylene	15.47	276	443430	19.8344446 ppb		93

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\102814A\1028A 04.D Vial: 61
Acq On : 29 Oct 2014 3:58 am Operator: 280
Sample : LCS 1x WG751293 100-0.5 Inst : BNAMS11
Misc : water 14J08667/14J20252 Multiplr: 0.01
MS Integration Params: RTEINT.P
Quant Time: Oct 29 11:09 2014 Quant Results File: S811J04N.RES

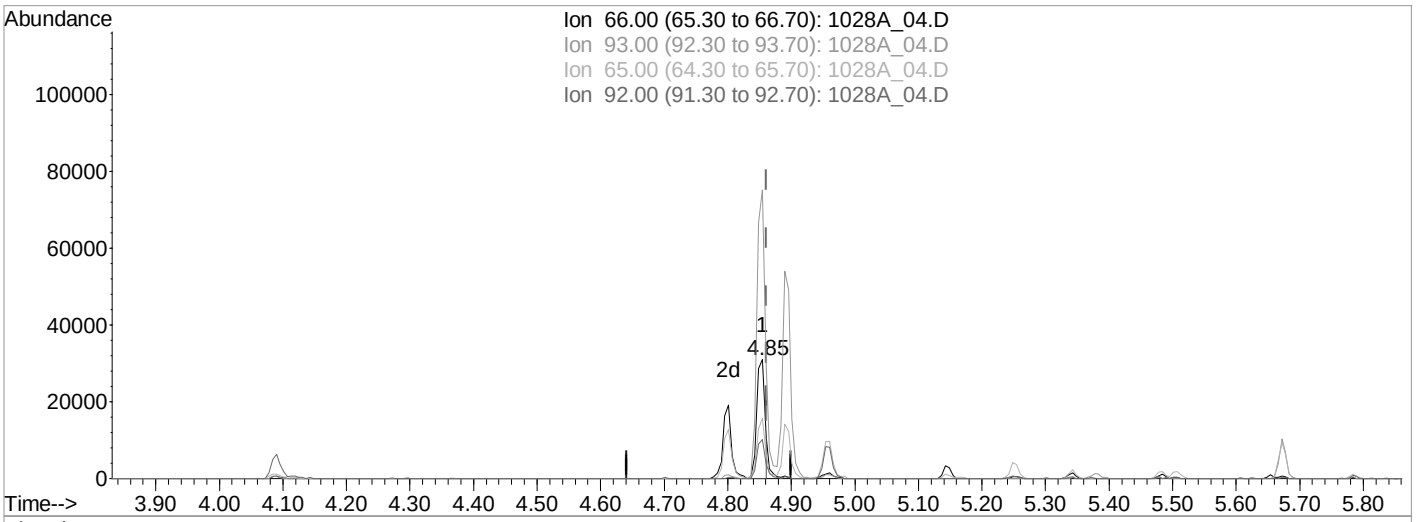
Method : C:\MSDCHEM\1\METHODS\S811J04N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Sat Oct 04 20:15:55 2014
Response via : Initial Calibration

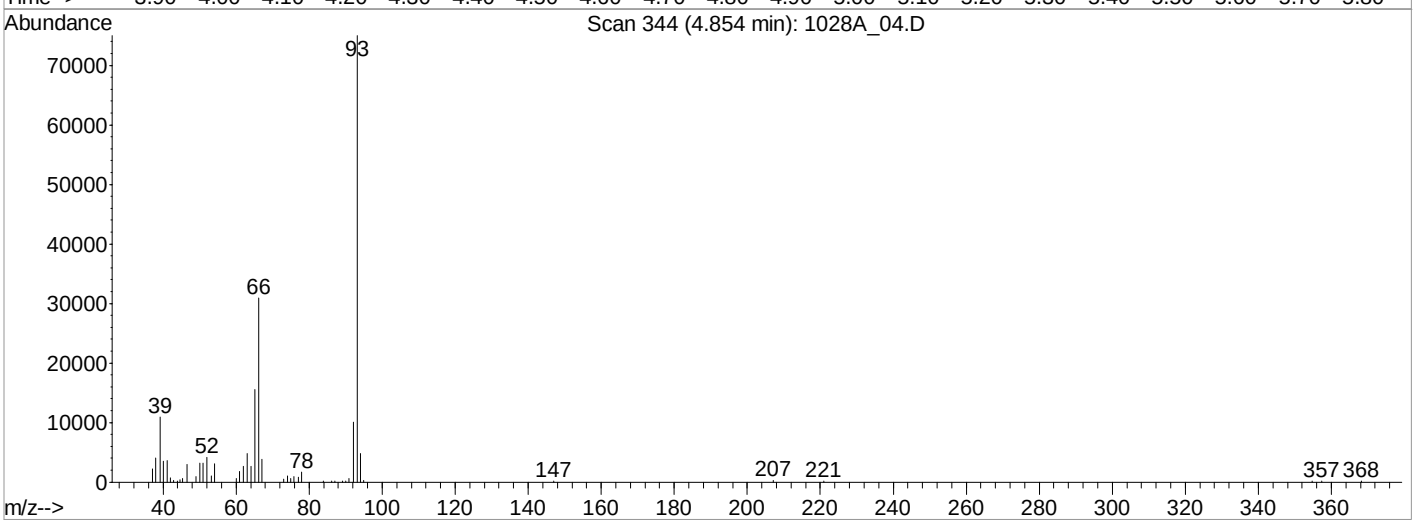


Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\102814A\1028A 04.D Vial: 61
Acq On : 29 Oct 2014 3:58 am Operator: 280
Sample : LCS 1x WG751293 100-0.5 Inst : BNAMS11
Misc : water 14J08667/14J20252 Multiplr: 0.01
MS Integration Params: RTEINT.P
Quant Time: Oct 29 10:21 2014 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\S811J04N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Sat Oct 04 20:15:55 2014
Response via : Multiple Level Calibration





TIC: 1028A_04.D

(5) Aniline (MT)

4.85min (-0.006) 13.6390365 ppb

Qvalue = 91

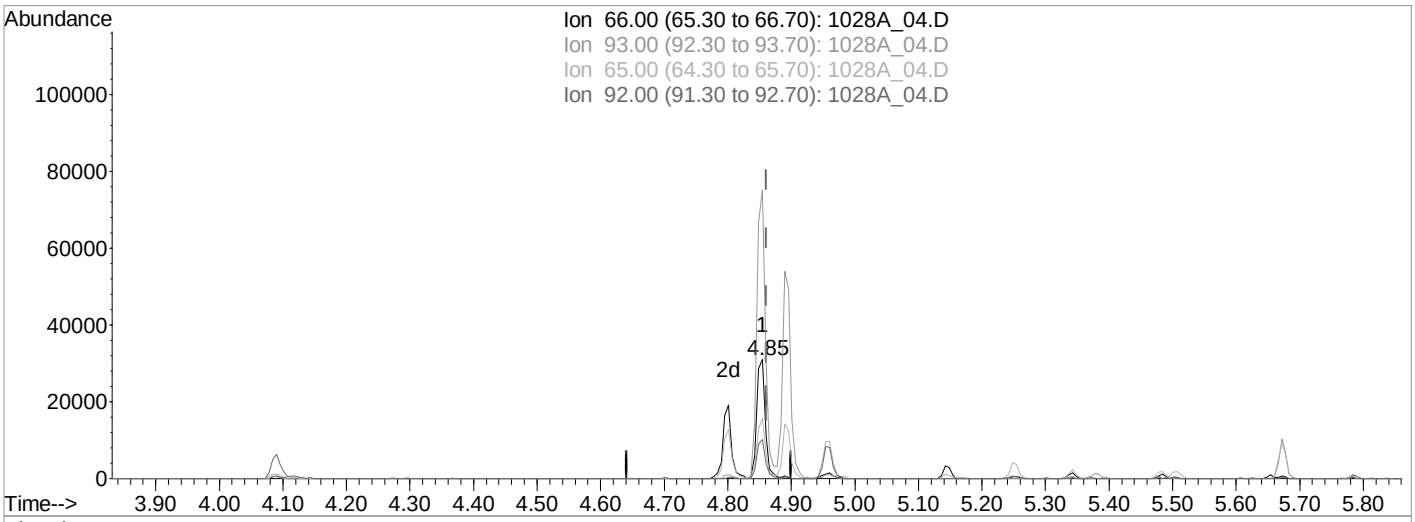
response 26967

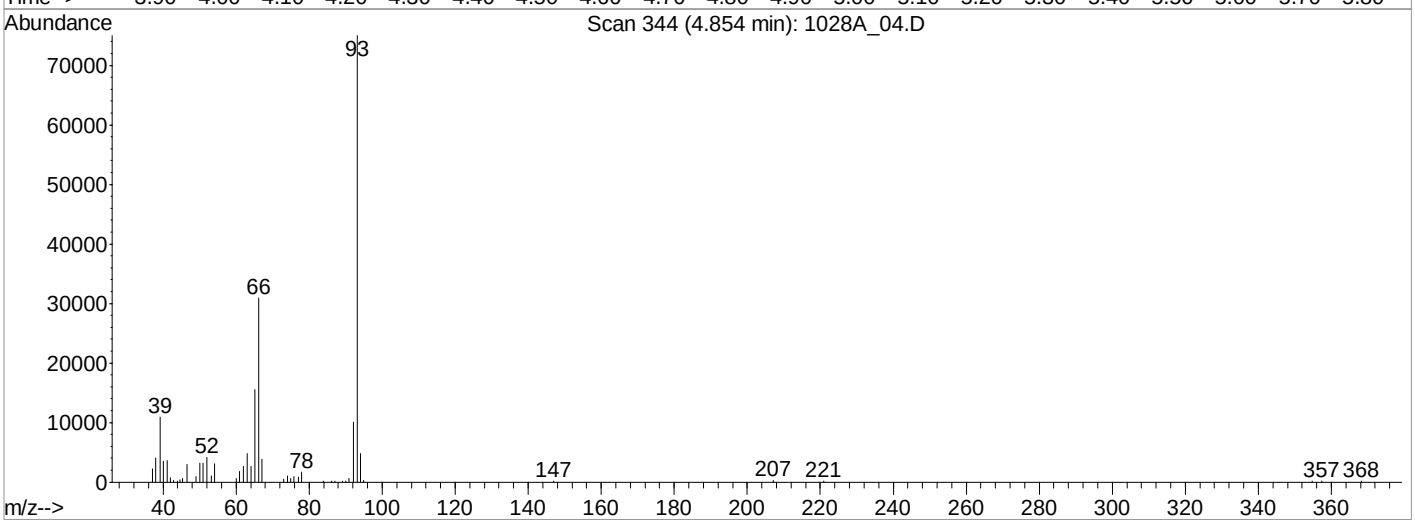
Ion	Exp%	Act%
66.00	100	100
93.00	226.20	243.71
65.00	51.10	49.87
92.00	28.60	32.29

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\102814A\1028A 04.D Vial: 61
Acq On : 29 Oct 2014 3:58 am Operator: 280
Sample : LCS 1x WG751293 100-0.5 Inst : BNAMS11
Misc : water 14J08667/14J20252 Multiplr: 0.01
MS Integration Params: RTEINT.P
Quant Time: Oct 29 11:08 2014 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\S811J04N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Sat Oct 04 20:15:55 2014
Response via : Multiple Level Calibration





TIC: 1028A_04.D

(5) Aniline (MT)

4.85min (-0.006) 14.5473952 ppb m

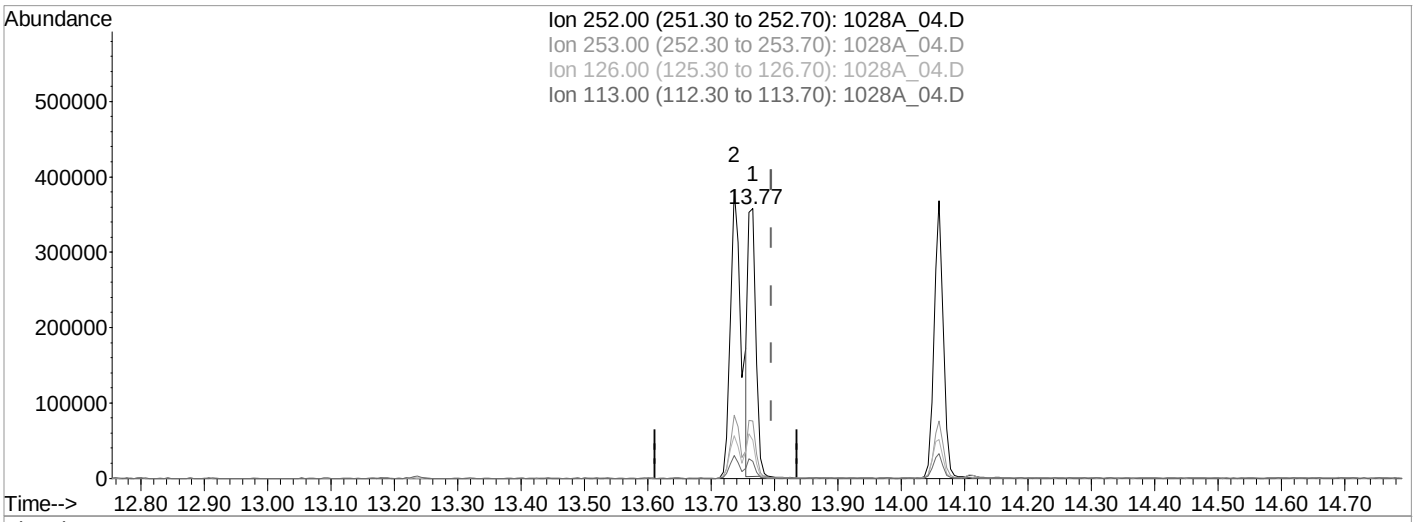
response 28763

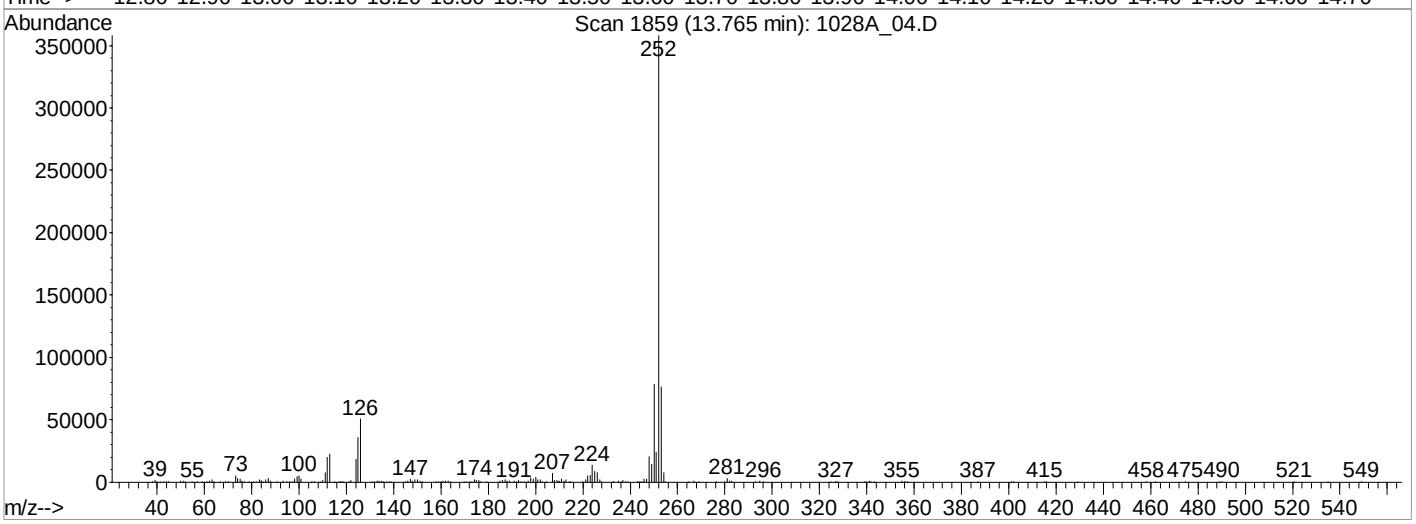
Ion	Exp%	Act%
66.00	100	100
93.00	226.20	228.49
65.00	51.10	46.76
92.00	28.60	30.28

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\102814A\1028A 04.D Vial: 61
Acq On : 29 Oct 2014 3:58 am Operator: 280
Sample : LCS 1x WG751293 100-0.5 Inst : BNAMS11
Misc : water 14J08667/14J20252 Multiplr: 0.01
MS Integration Params: RTEINT.P
Quant Time: Oct 29 11:08 2014 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\S811J04N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Sat Oct 04 20:15:55 2014
Response via : Multiple Level Calibration





TIC: 1028A_04.D

(89) Benzo(b)fluoranthene (MT)

13.77min (-0.029) 12.7222225 ppb

Qvalue = 96

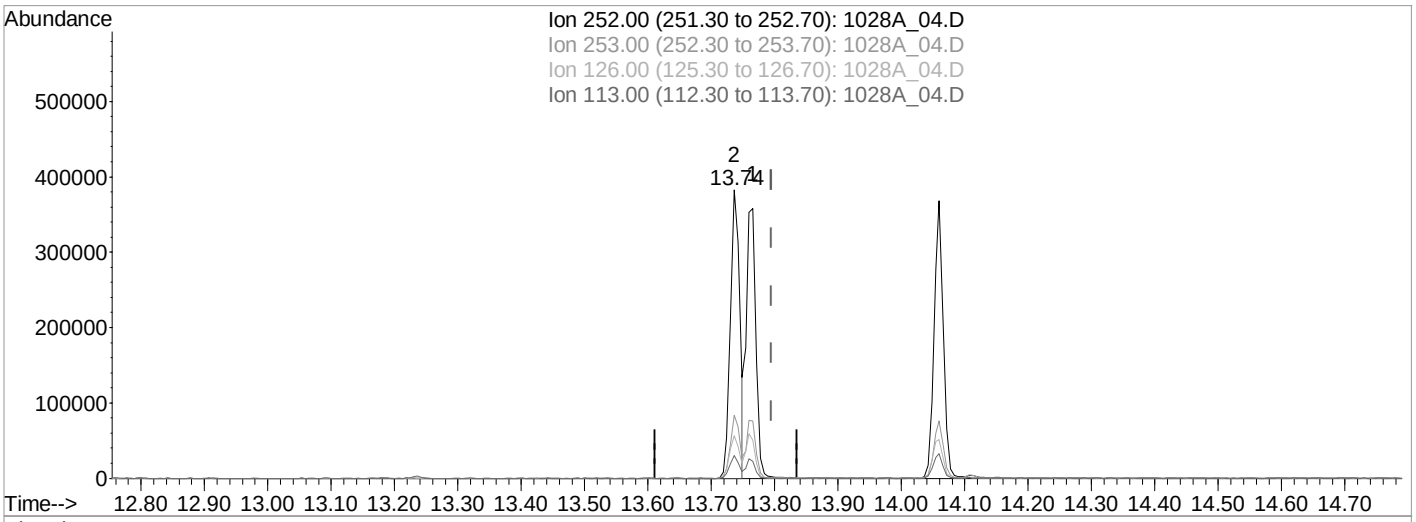
response 312281

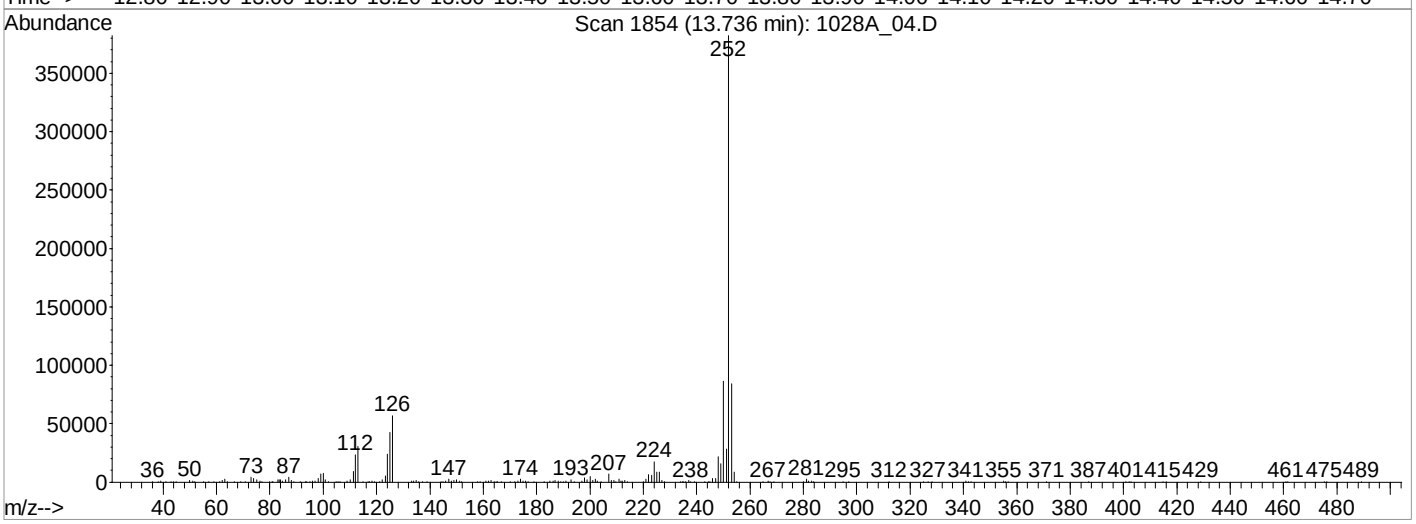
Ion	Exp%	Act%
252.00	100	100
253.00	21.20	21.23
126.00	16.00	11.98
113.00	7.90	5.71

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\102814A\1028A 04.D Vial: 61
Acq On : 29 Oct 2014 3:58 am Operator: 280
Sample : LCS 1x WG751293 100-0.5 Inst : BNAMS11
Misc : water 14J08667/14J20252 Multiplr: 0.01
MS Integration Params: RTEINT.P
Quant Time: Oct 29 11:09 2014 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\S811J04N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Sat Oct 04 20:15:55 2014
Response via : Multiple Level Calibration





TIC: 1028A_04.D

(89) Benzo(b)fluoranthene (MT)

13.74min (-0.059) 15.8591765 ppb m

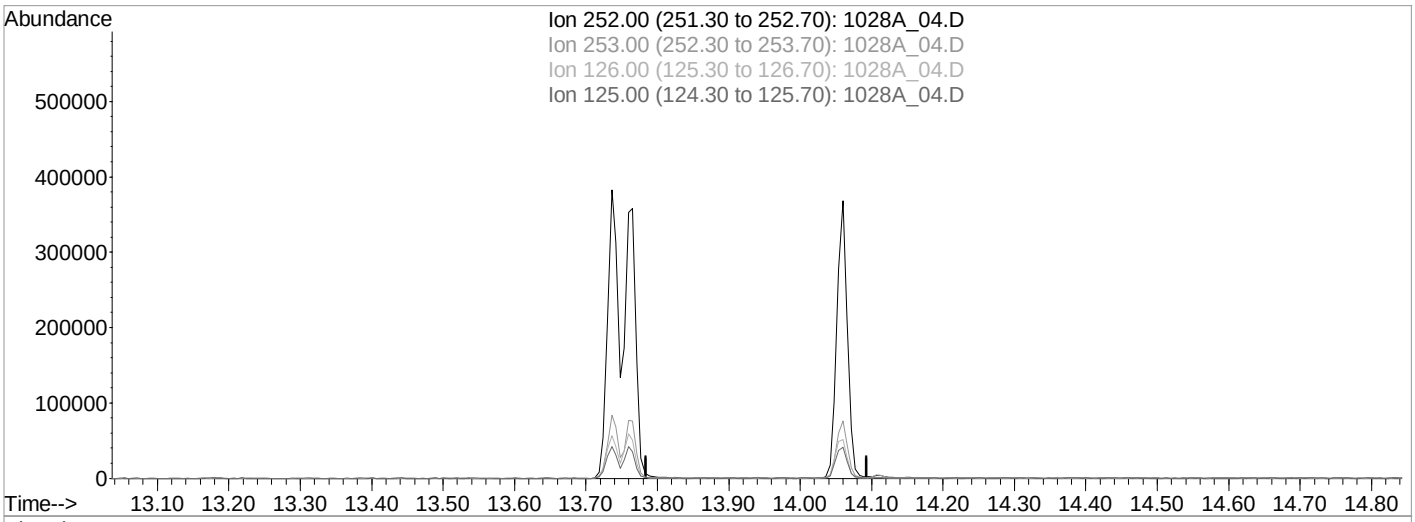
response 389281

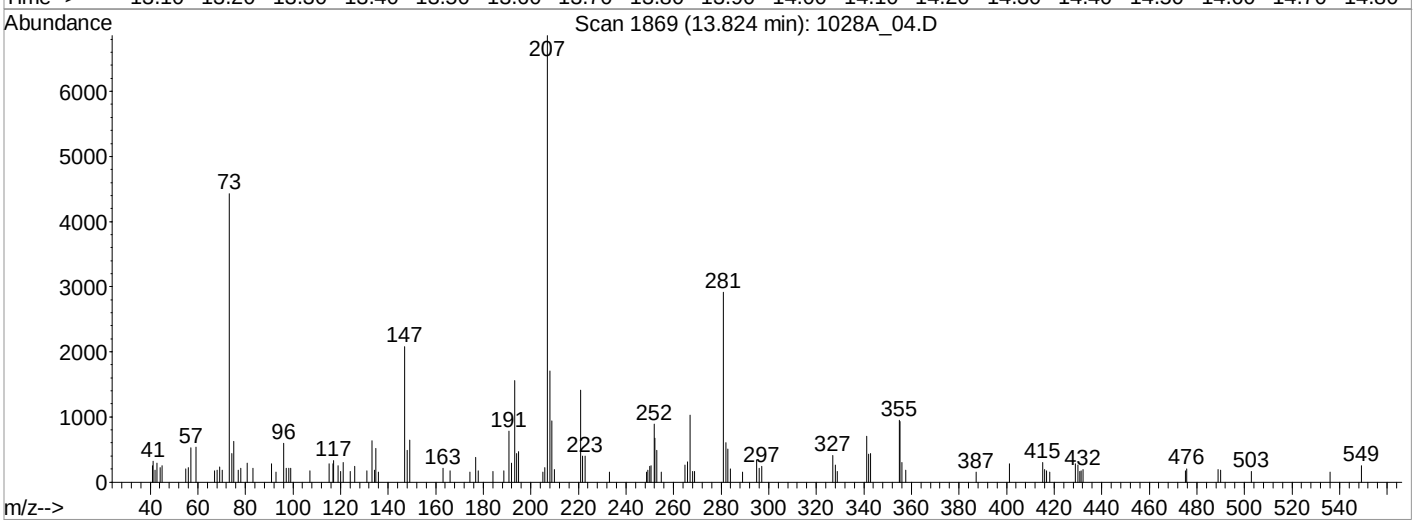
Ion	Exp%	Act%
252.00	100	100
253.00	21.20	21.98
126.00	16.00	14.77
113.00	7.90	7.94

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\102814A\1028A 04.D Vial: 61
Acq On : 29 Oct 2014 3:58 am Operator: 280
Sample : LCS 1x WG751293 100-0.5 Inst : BNAMS11
Misc : water 14J08667/14J20252 Multiplr: 0.01
MS Integration Params: RTEINT.P
Quant Time: Oct 29 11:09 2014 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\S811J04N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Sat Oct 04 20:15:55 2014
Response via : Multiple Level Calibration





TIC: 1028A_04.D

(90) Benzo(k)fluoranthene (MT)

13.82min (-13.824) 0.0000000 ppb

Qvalue = 0

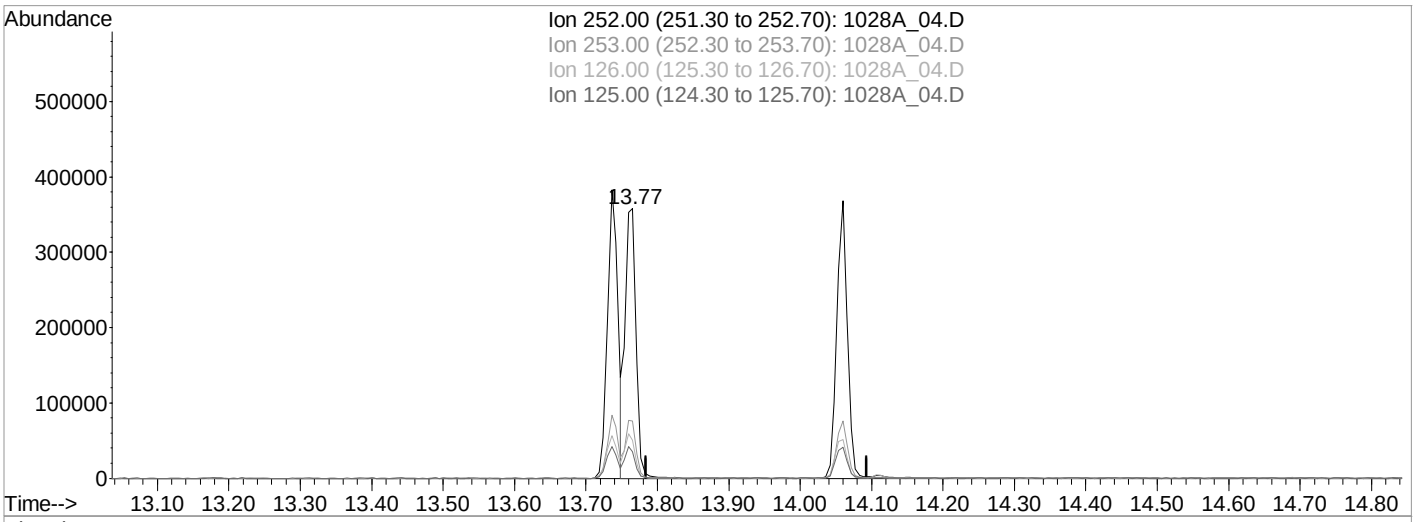
response 0

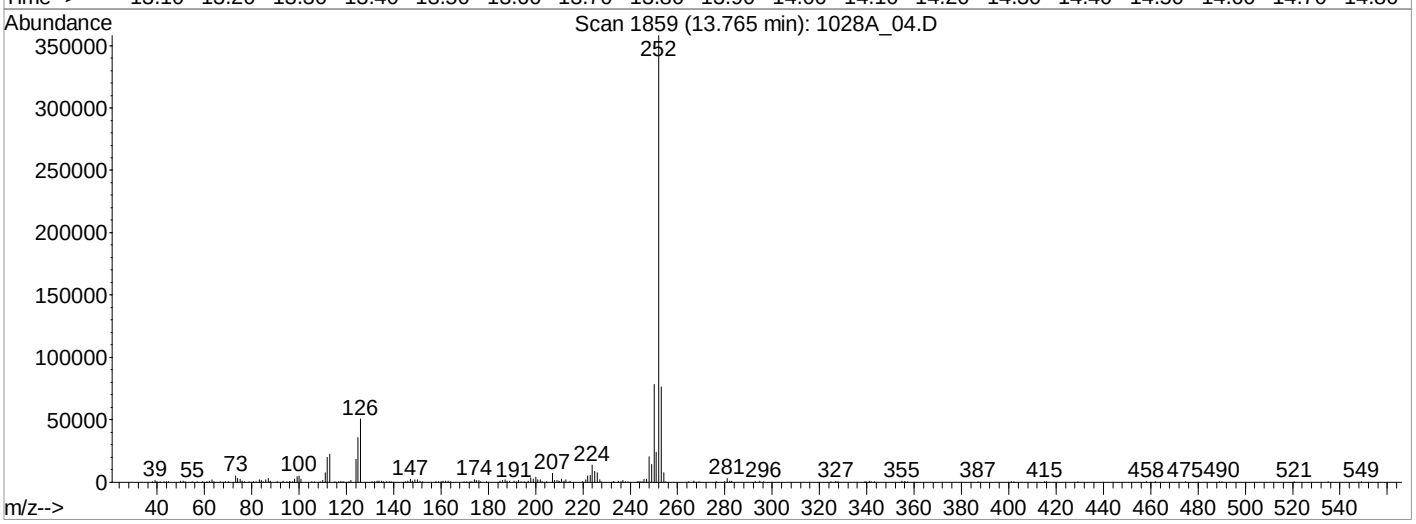
Ion	Exp%	Act%
252.00	100	0.00
253.00	21.60	0.00#
126.00	15.70	0.00
125.00	11.00	0.00

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\102814A\1028A 04.D Vial: 61
Acq On : 29 Oct 2014 3:58 am Operator: 280
Sample : LCS 1x WG751293 100-0.5 Inst : BNAMS11
Misc : water 14J08667/14J20252 Multiplr: 0.01
MS Integration Params: RTEINT.P
Quant Time: Oct 29 11:09 2014 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\S811J04N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Sat Oct 04 20:15:55 2014
Response via : Multiple Level Calibration





TIC: 1028A_04.D

(90) Benzo(k)fluoranthene (MT)

13.77min (-0.059) 16.8684335 ppb m

response 383185

Ion	Exp%	Act%
252.00	100	100
253.00	21.60	21.21
126.00	15.70	14.12
125.00	11.00	9.89

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\102814A\1028A 05.D Vial: 62
Acq On : 29 Oct 2014 4:19 am Operator: 280
Sample : LCSD 1x WG751293 100-0.5 Inst : BNAMS11
Misc : water 14J08667/14J20252 Multiplr: 0.01
MS Integration Params: RTEINT.P
Quant Time: Oct 29 11:10 2014 Quant Results File: S811J04N.RES

Quant Method : C:\MSDCHEM\1\METHODS\S811J04N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Sat Oct 04 20:15:55 2014
Response via : Initial Calibration
DataAcq Meth : BNA11A

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	5.14	152	94545	8000.00 ppb	-0.02
22) Naphthalene-d8	6.37	136	389288	8000.00 ppb	-0.03
40) Acenaphthene-d10	8.22	164	260412	8000.00 ppb	-0.03
64) Phenanthrene-d10	9.81	188	476998	8000.00 ppb	-0.04
78) Chrysene-d12	12.65	240	578992	8000.00 ppb	-0.04
88) Perylene-d12	14.11	264	747422	8000.00 ppb	-0.03

System Monitoring Compounds					
4) 2-Fluorophenol	4.09	112	33164	10.8075038 ppb	0.00
Spiked Amount 20.000	Range 10 - 74		Recovery = 54.04%		
7) Phenol-d5	4.79	99	31182	7.9372406 ppb	0.00
Spiked Amount 20.000	Range 10 - 63		Recovery = 39.69%		
23) Nitrobenzene-d5	5.65	82	23503	6.1244054 ppb	-0.02
Spiked Amount 10.000	Range 28 - 123		Recovery = 61.24%		
44) 2-Fluorobiphenyl	7.49	172	57494	6.1391668 ppb	-0.03
Spiked Amount 10.000	Range 35 - 133		Recovery = 61.39%		
67) 2,4,6-Tribromophenol	9.05	330	20668	16.1310537 ppb	-0.04
Spiked Amount 20.000	Range 22 - 154		Recovery = 80.66%		
81) p-Terphenyl-d14	11.49	244	87649	5.9588892 ppb	-0.05
Spiked Amount 10.000	Range 30 - 148		Recovery = 59.59%		

Target Compounds						Qvalue
2) Pyridine	3.15	79	52583	10.6401656 ppb	#	77
3) N-Nitrosodimethylamine	3.13	42	28451	9.1638131 ppb	#	73
5) Aniline	4.85	66	30289m	15.1743412 ppb		
6) bis(2-Chloroethyl)ether	4.89	63	40065	15.3526020 ppb		93
8) Phenol	4.80	94	40784	10.3360372 ppb		88
9) Benzaldehyde	4.77	105	32418	19.9972899 ppb		93
10) 2-Chlorophenol	4.95	128	56931	16.3171815 ppb		94
11) n-Decane	4.97	41	24607	9.8552925 ppb	#	94
12) 1,3-Dichlorobenzene	5.10	146	51886	13.2366662 ppb		97
13) 1,4-Dichlorobenzene	5.16	146	52561	13.0994814 ppb		98
14) Benzyl Alcohol	5.25	79	44903	14.1986761 ppb		96
15) 1,2-Dichlorobenzene	5.30	146	53635	14.2834660 ppb		94
16) bis(2-Chloroisopropyl)ethe	5.38	121	17824	16.2710195 ppb		98
17) 2-Methylphenol	5.34	108	47005	15.6698179 ppb		92
18) Hexachloroethane	5.62	117	20082	11.3659607 ppb	#	82
19) N-Nitrosodi-n-propylamine	5.50	70	42039	16.4991938 ppb		88
20) 3&4-Methyl phenol	5.48	107	58639	16.6435649 ppb		89
21) Acetophenone	5.51	105	77422	17.2381310 ppb	#	81
24) Nitrobenzene	5.67	77	63583	16.5868923 ppb		89
25) Isophorone	5.90	82	121528	19.0038457 ppb		95
26) 2-Nitrophenol	5.98	139	32341	17.5801017 ppb		90
27) 2,4-Dimethylphenol	6.01	107	64724	17.3172395 ppb		95
28) bis(2-Chlorethoxy)methane	6.10	93	69524	16.9674456 ppb		90
29) 2,4-Dichlorophenol	6.22	162	56569	19.2744194 ppb	#	88
30) Benzoic Acid	6.04	105	4913	8.1279288 ppb		86
31) 1,2,4-Trichlorobenzene	6.31	180	51913	14.8331663 ppb		93
32) Naphthalene	6.40	128	169332	15.2901305 ppb		99
33) 4-Chloroaniline	6.44	65	24291	15.9987250 ppb		83
34) Hexachloro-1,3-butadiene	6.51	225	29783	12.7866171 ppb		92
35) Caprolactam	6.76	113	5197	5.6953854 ppb	#	71
36) 4-Chloro-3-methylphenol	6.92	107	60022	17.4839766 ppb		97
37) 2-Methylnaphthalene	7.11	142	122019	15.3892648 ppb		96
38) 1-Methylnaphthalene	7.21	142	131016	17.9146690 ppb		96

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\102814A\1028A 05.D Vial: 62
Acq On : 29 Oct 2014 4:19 am Operator: 280
Sample : LCSD 1x WG751293 100-0.5 Inst : BNAMS11
Misc : water 14J08667/14J20252 Multiplr: 0.01
MS Integration Params: RTEINT.P
Quant Time: Oct 29 11:10 2014 Quant Results File: S811J04N.RES

Quant Method : C:\MSDCHEM\1\METHODS\S811J04N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Sat Oct 04 20:15:55 2014
Response via : Initial Calibration
DataAcq Meth : BNA11A

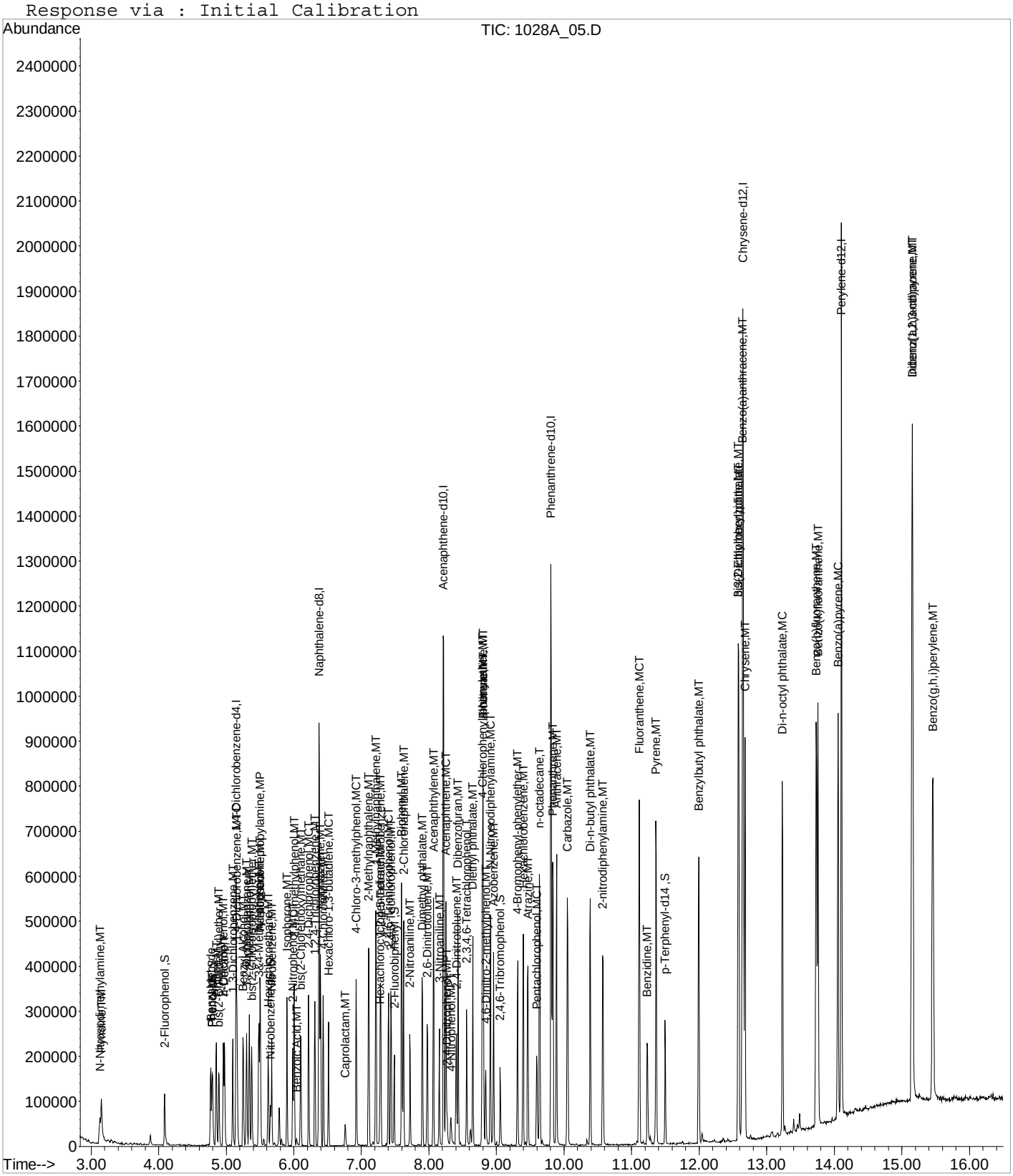
	Compound	R.T.	QIon	Response	Conc Unit		Qvalue
39)	1,2,4,5-Tetrachlorobenzene	7.29	216	58403	15.7093182 ppb		97
41)	Hexachlorocyclopentadiene	7.27	237	16687	6.2925987 ppb		96
42)	2,4,6-Trichlorophenol	7.40	196	41229	16.4566990 ppb		90
43)	2,4,5-Trichlorophenol	7.44	196	48200	18.2651747 ppb		96
45)	Biphenyl	7.60	154	171035	16.3834516 ppb		99
46)	2-Chloronaphthalene	7.62	162	130758	16.3985792 ppb		96
47)	2-Nitroaniline	7.72	138	41869	16.2857282 ppb		90
48)	Acenaphthylene	8.07	152	209850	16.4132290 ppb		99
49)	Dimethyl phthalate	7.90	163	153073	17.0926010 ppb		96
50)	2,6-Dinitrotoluene	7.98	165	34687	16.9193941 ppb		85
51)	3-Nitroaniline	8.15	138	35774	15.6288473 ppb		97
52)	Acenaphthene	8.25	153	138069	15.9683973 ppb		96
53)	2,4-Dinitrophenol	8.27	184	10283	13.9317417 ppb	#	50
54)	Dibenzofuran	8.43	168	191314	16.1804812 ppb		98
55)	2,4-Dinitrotoluene	8.41	165	46531	16.5492667 ppb		79
56)	2,3,4,6-Tetrachlorophenol	8.56	232	37305	20.1420213 ppb		87
57)	4-Nitrophenol	8.32	139	14596	7.9386807 ppb	#	75
58)	Fluorene	8.80	166	162100	16.3274549 ppb		98
59)	4-Chlorophenyl-phenylether	8.79	204	75180	15.0809447 ppb		95
60)	Diethyl phthalate	8.65	149	160941	16.2734733 ppb		96
61)	4-Nitroaniline	8.80	138	38867	17.2753399 ppb		91
62)	Azobenzene	8.96	77	159857	15.4404181 ppb		88
63)	Atrazine	9.47	200	49271	19.3965852 ppb	#	89
65)	4,6-Dinitro-2-methylphenol	8.84	198	21811	13.6113949 ppb	#	75
66)	N-Nitrosodiphenylamine	8.91	169	138042	17.4675927 ppb		99
68)	4-Bromophenyl-phenylether	9.31	248	49038	18.7026409 ppb		95
69)	Hexachlorobenzene	9.40	284	60519	20.8629161 ppb		97
70)	n-octadecane	9.64	55	26247	13.5025037 ppb	#	90
71)	Pentachlorophenol	9.60	266	27058	16.1282732 ppb		93
72)	Phenanthrene	9.83	178	244132	17.1275886 ppb		99
73)	Anthracene	9.89	178	249224	17.7487795 ppb		98
74)	Carbazole	10.05	167	237301	17.3031120 ppb		99
75)	Di-n-butyl phthalate	10.39	149	293420	16.4010661 ppb		99
76)	2-nitrodiphenylamine	10.58	167	59500	18.1931942 ppb		95
77)	Fluoranthene	11.11	202	304871	16.9345494 ppb		98
79)	Benzidine	11.23	184	102645	12.8932204 ppb		98
80)	Pyrene	11.36	202	312673	15.9552680 ppb		96
82)	Benzylbutyl phthalate	11.99	149	145304	16.1092785 ppb		92
83)	3,3-Dichlorobenzidine	12.58	252	131703	19.3048749 ppb		94
84)	Benzo(a)anthracene	12.64	228	346303	17.5702763 ppb		98
85)	Chrysene	12.68	228	312962	17.4534927 ppb		98
86)	bis(2-Ethylhexyl)phthalate	12.58	149	225862	15.8341485 ppb		96
87)	Di-n-octyl phthalate	13.23	149	403347	17.0925113 ppb		99
89)	Benzo(b)fluoranthene	13.73	252	424615m	17.6533836 ppb		
90)	Benzo(k)fluoranthene	13.76	252	331304m	14.8836049 ppb		
91)	Benzo(a)pyrene	14.05	252	377616	16.6135063 ppb		98
92)	Indeno(1,2,3-cd)pyrene	15.15	276	512058	18.8261560 ppb		94
93)	Dibenz(a,h)anthracene	15.15	278	431615	18.4830091 ppb		93
94)	Benzo(g,h,i)perylene	15.46	276	437668	19.9781361 ppb		90

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\102814A\1028A 05.D Vial: 62
Acq On : 29 Oct 2014 4:19 am Operator: 280
Sample : LCSD 1x WG751293 100-0.5 Inst : BNAMS11
Misc : water 14J08667/14J20252 Multiplr: 0.01
MS Integration Params: RTEINT.P
Quant Time: Oct 29 11:10 2014 Quant Results File: S811J04N.RES

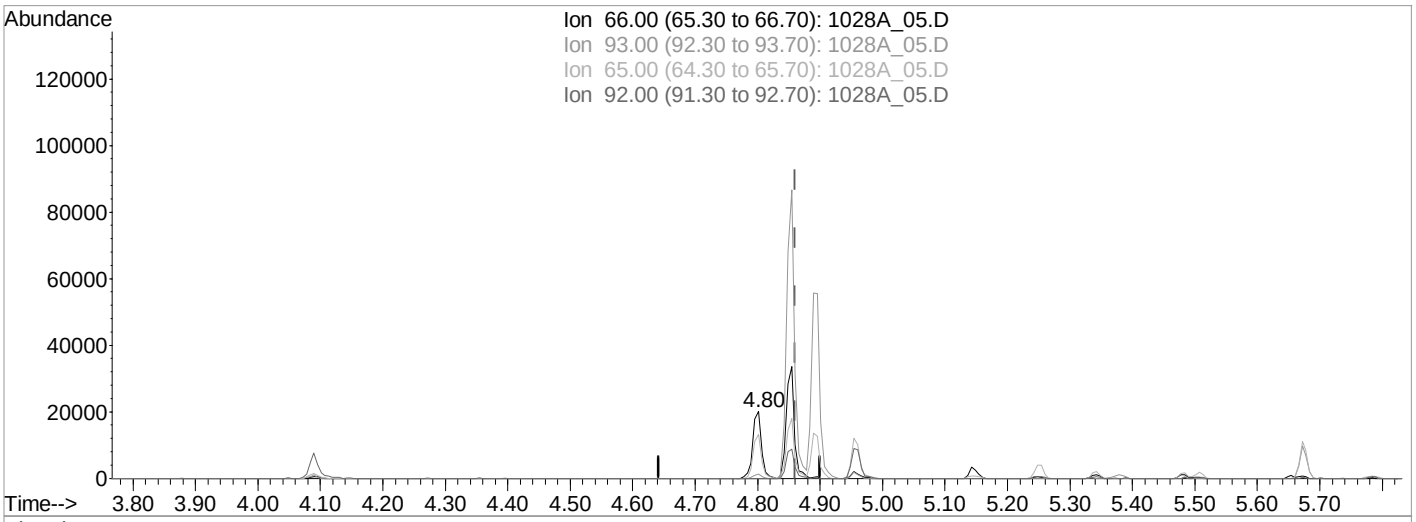
Method : C:\MSDCHEM\1\METHODS\S811J04N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Sat Oct 04 20:15:55 2014
Response via : Initial Calibration

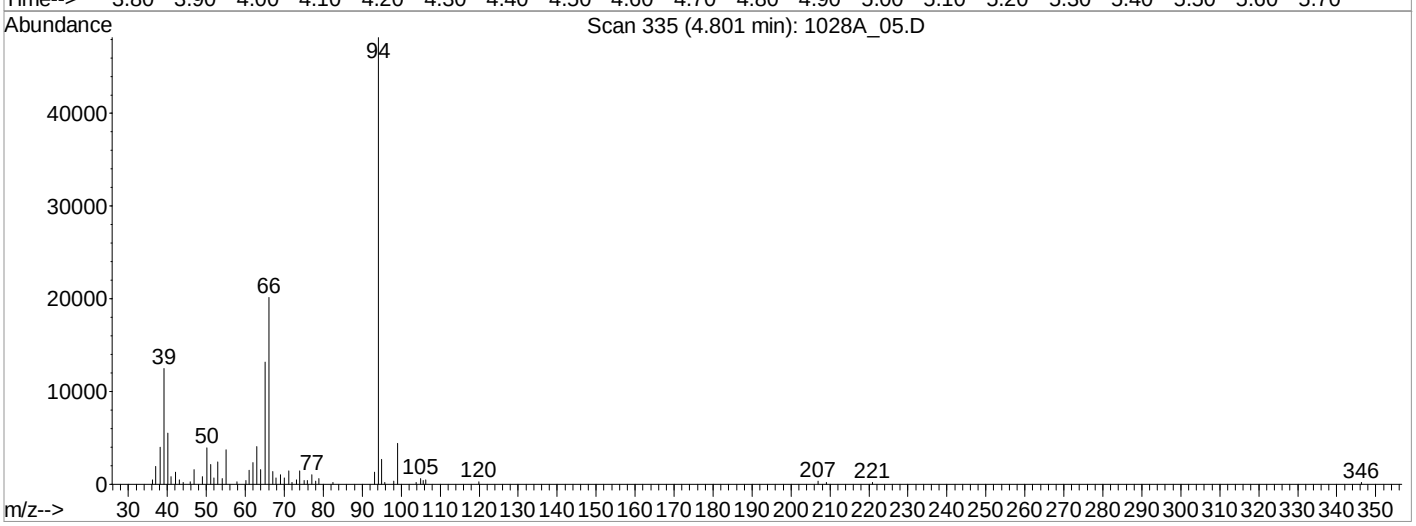


Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\102814A\1028A 05.D Vial: 62
Acq On : 29 Oct 2014 4:19 am Operator: 280
Sample : LCSD 1x WG751293 100-0.5 Inst : BNAMS11
Misc : water 14J08667/14J20252 Multiplr: 0.01
MS Integration Params: RTEINT.P
Quant Time: Oct 29 10:21 2014 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\S811J04N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Sat Oct 04 20:15:55 2014
Response via : Multiple Level Calibration





TIC: 1028A_05.D

(5) Aniline (MT)

4.80min (-0.059) 9.6139063 ppb

Qvalue = 1

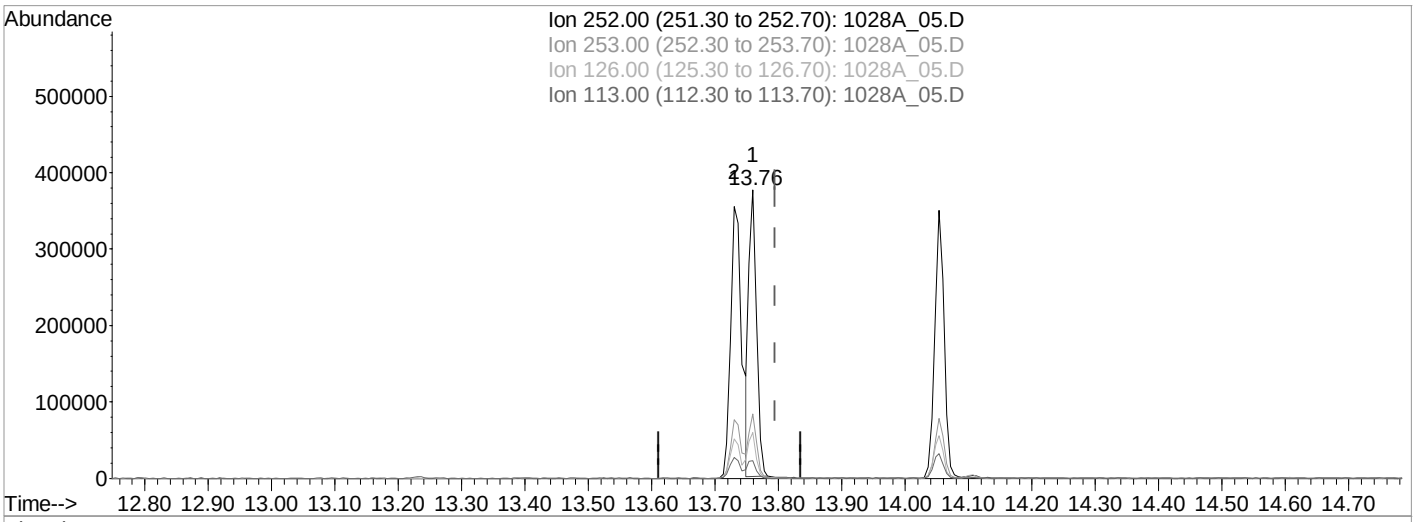
response 19190

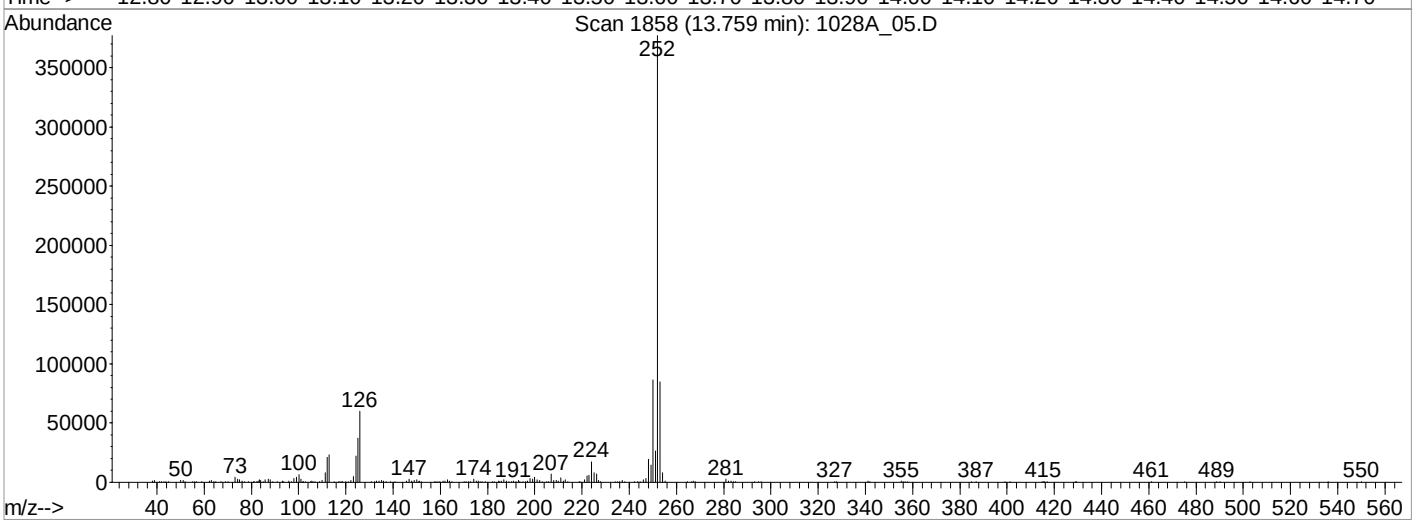
Ion	Exp%	Act%
66.00	100	100
93.00	226.20	0.00#
65.00	51.10	62.71#
92.00	28.60	0.00#

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\102814A\1028A 05.D Vial: 62
Acq On : 29 Oct 2014 4:19 am Operator: 280
Sample : LCSD 1x WG751293 100-0.5 Inst : BNAMS11
Misc : water 14J08667/14J20252 Multiplr: 0.01
MS Integration Params: RTEINT.P
Quant Time: Oct 29 11:09 2014 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\S811J04N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Sat Oct 04 20:15:55 2014
Response via : Multiple Level Calibration





TIC: 1028A_05.D

(89) Benzo(b)fluoranthene (MT)

13.76min (-0.035) 13.3875771 ppb

Qvalue = 97

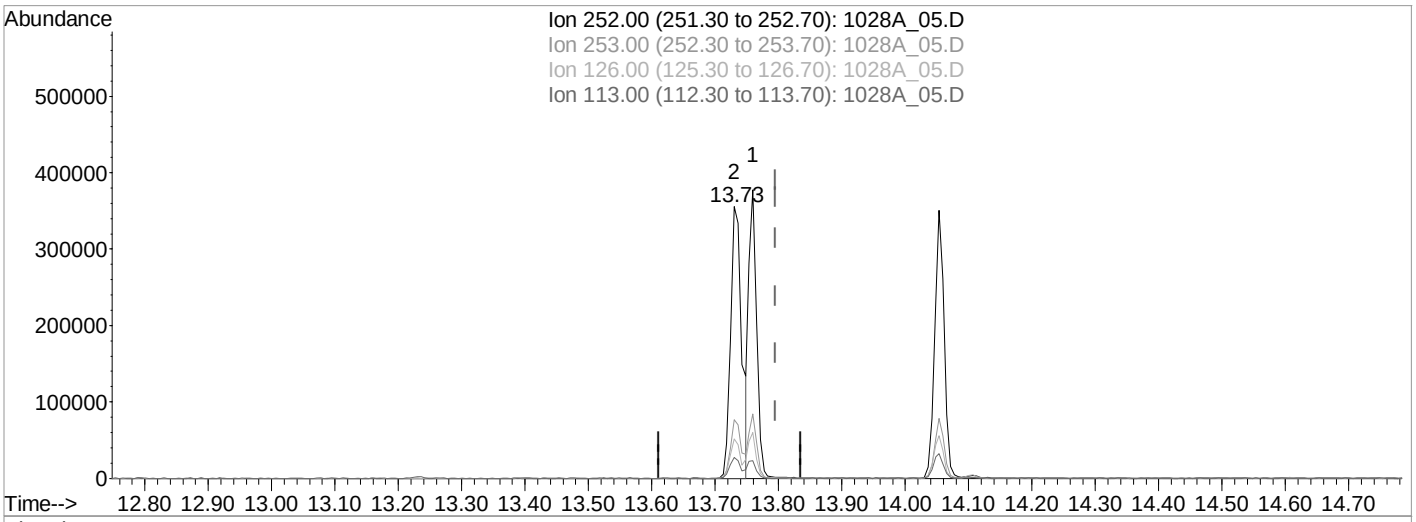
response 322010

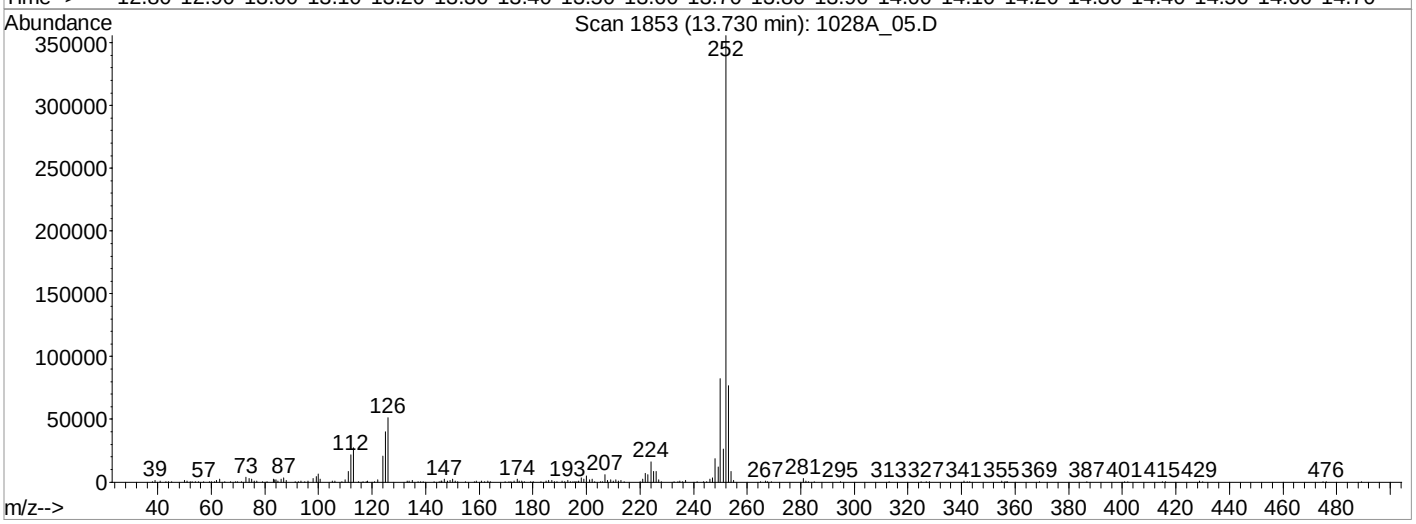
Ion	Exp%	Act%
252.00	100	100
253.00	21.20	22.11
126.00	16.00	15.18
113.00	7.90	5.45

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\102814A\1028A 05.D Vial: 62
Acq On : 29 Oct 2014 4:19 am Operator: 280
Sample : LCSD 1x WG751293 100-0.5 Inst : BNAMS11
Misc : water 14J08667/14J20252 Multiplr: 0.01
MS Integration Params: RTEINT.P
Quant Time: Oct 29 11:10 2014 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\S811J04N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Sat Oct 04 20:15:55 2014
Response via : Multiple Level Calibration





TIC: 1028A_05.D

(89) Benzo(b)fluoranthene (MT)

13.73min (-0.065) 17.6533836 ppb m

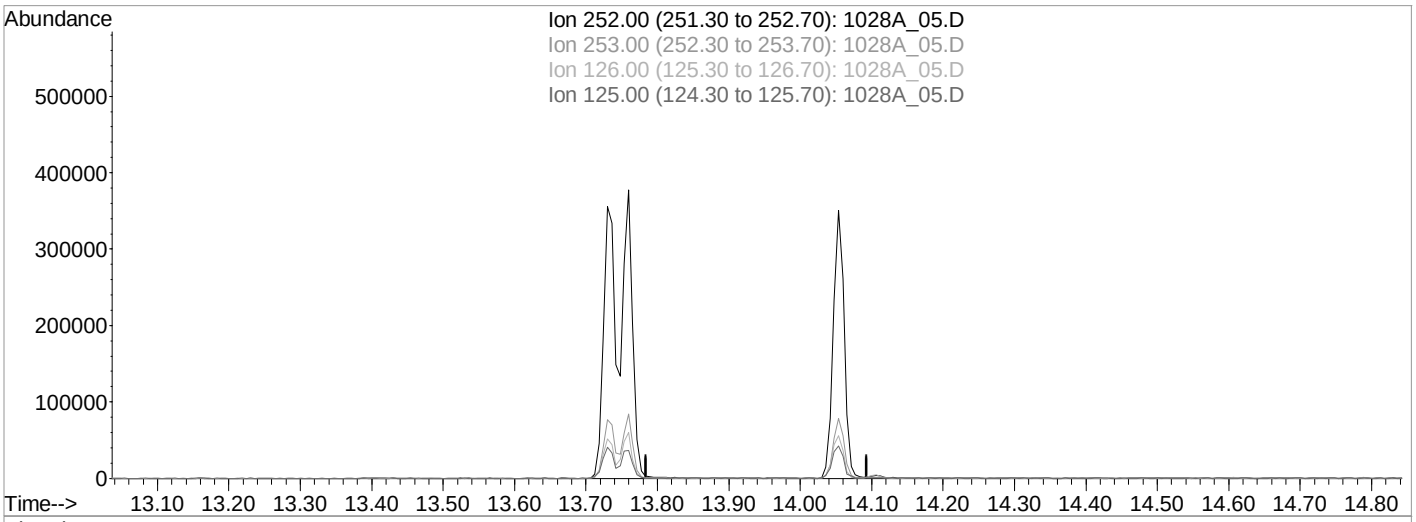
response 424615

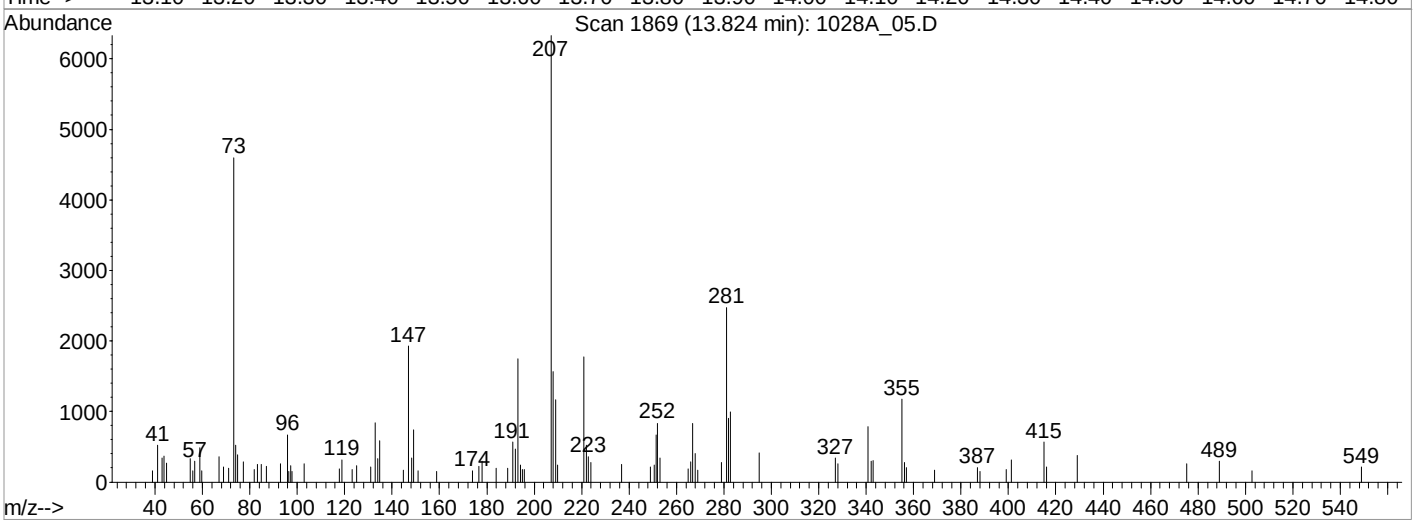
Ion	Exp%	Act%
252.00	100	100
253.00	21.20	21.63
126.00	16.00	14.44
113.00	7.90	7.69

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\102814A\1028A 05.D Vial: 62
Acq On : 29 Oct 2014 4:19 am Operator: 280
Sample : LCSD 1x WG751293 100-0.5 Inst : BNAMS11
Misc : water 14J08667/14J20252 Multiplr: 0.01
MS Integration Params: RTEINT.P
Quant Time: Oct 29 11:10 2014 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\S811J04N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Sat Oct 04 20:15:55 2014
Response via : Multiple Level Calibration





TIC: 1028A_05.D

(90) Benzo(k)fluoranthene (MT)

13.82min (-13.824) 0.0000000 ppb

Qvalue = 0

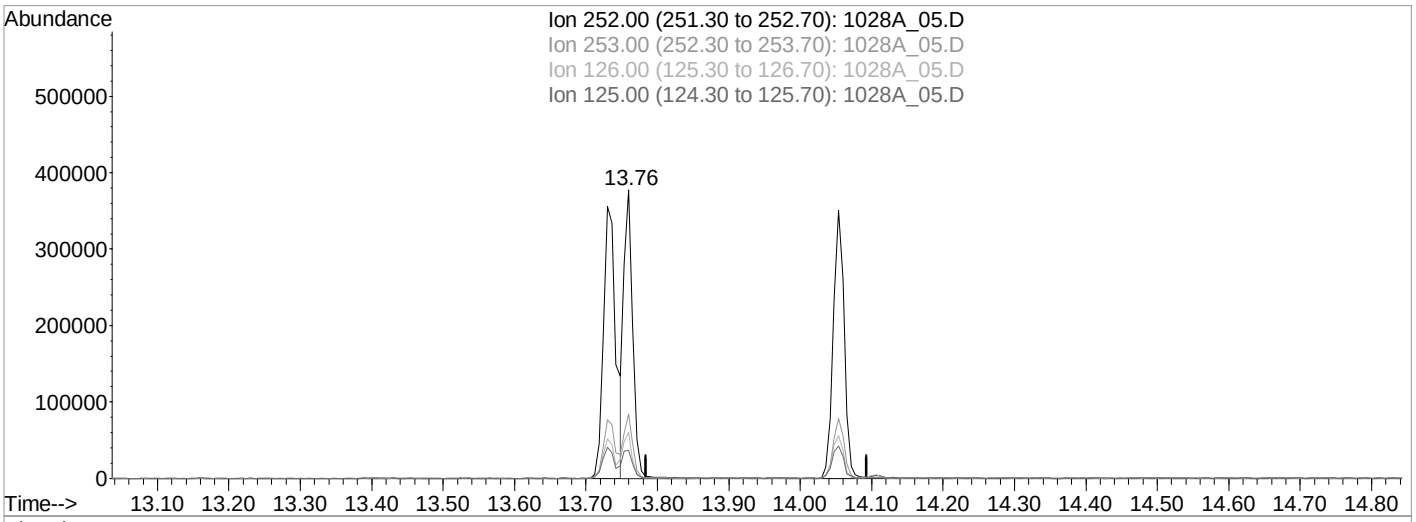
response 0

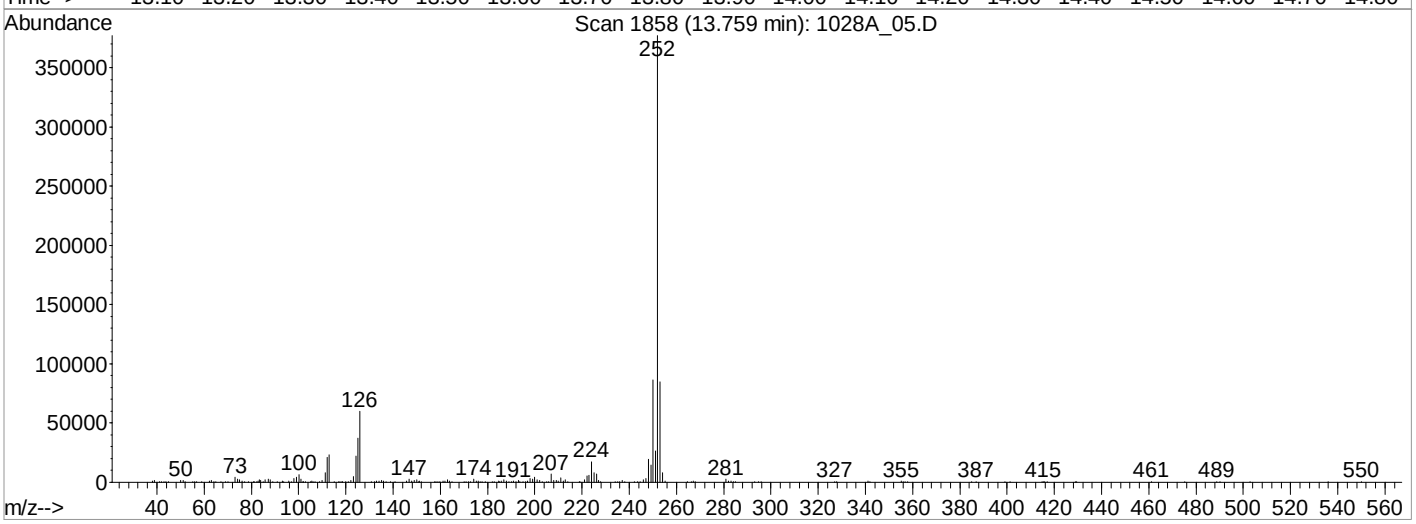
Ion	Exp%	Act%
252.00	100	0.00
253.00	21.60	0.00#
126.00	15.70	0.00
125.00	11.00	0.00

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\102814A\1028A 05.D Vial: 62
Acq On : 29 Oct 2014 4:19 am Operator: 280
Sample : LCSD 1x WG751293 100-0.5 Inst : BNAMS11
Misc : water 14J08667/14J20252 Multiplr: 0.01
MS Integration Params: RTEINT.P
Quant Time: Oct 29 11:10 2014 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\S811J04N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Sat Oct 04 20:15:55 2014
Response via : Multiple Level Calibration





TIC: 1028A_05.D

(90) Benzo(k)fluoranthene (MT)

13.76min (-0.065) 14.8836049 ppb m

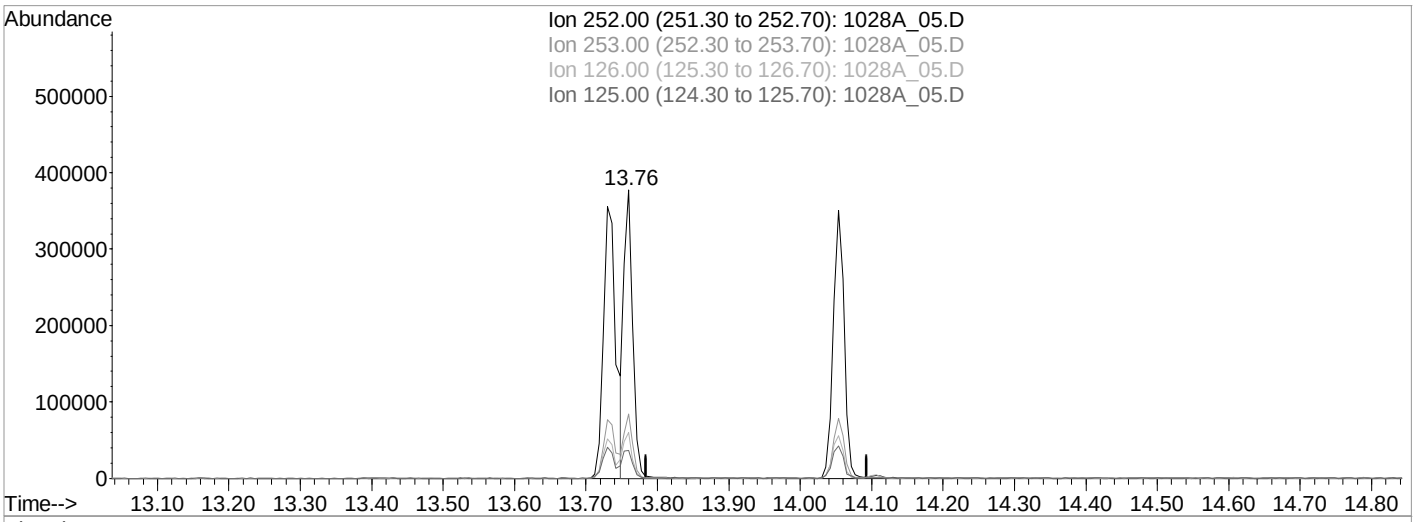
response 331304

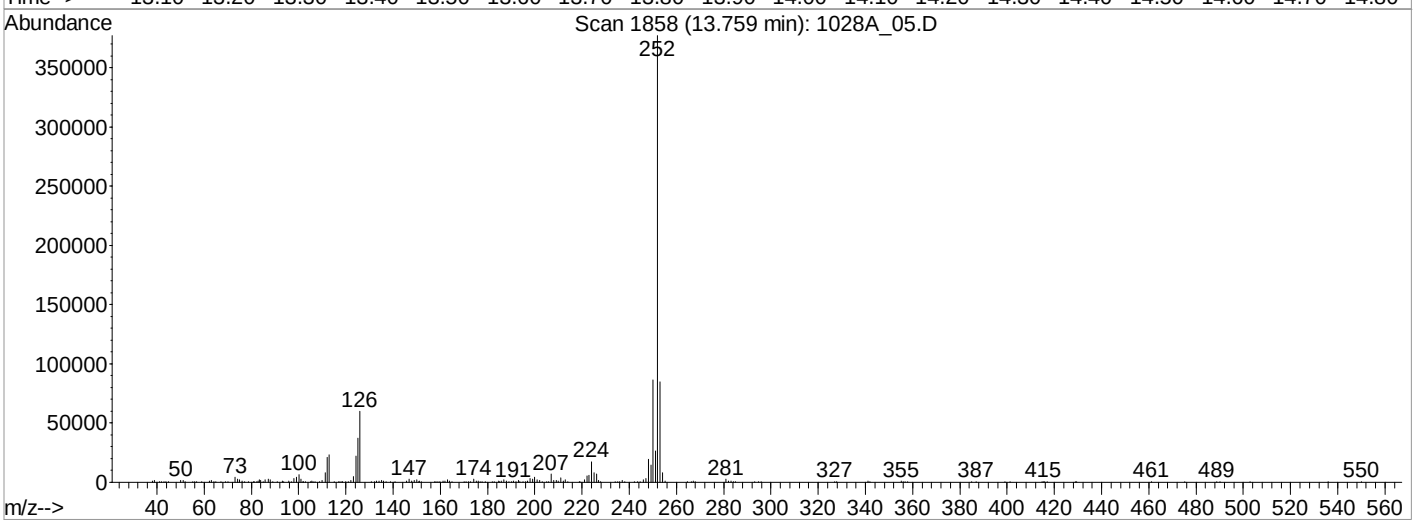
Ion	Exp%	Act%
252.00	100	100
253.00	21.60	22.37
126.00	15.70	15.78
125.00	11.00	9.76

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\102814A\1028A 05.D Vial: 62
Acq On : 29 Oct 2014 4:19 am Operator: 280
Sample : LCSD 1x WG751293 100-0.5 Inst : BNAMS11
Misc : water 14J08667/14J20252 Multiplr: 0.01
MS Integration Params: RTEINT.P
Quant Time: Oct 29 11:10 2014 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\S811J04N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Sat Oct 04 20:15:55 2014
Response via : Multiple Level Calibration





TIC: 1028A_05.D

(90) Benzo(k)fluoranthene (MT)

13.76min (-0.065) 14.8836049 ppb m

response 331304

Ion	Exp%	Act%
252.00	100	100
253.00	21.60	22.37
126.00	15.70	15.78
125.00	11.00	9.76

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\102814A\1028A 06.D Vial: 63
Acq On : 29 Oct 2014 4:40 am Operator: 280
Sample : BLANK 1x WG751293 100-0.5 Inst : BNAMS11
Misc : water 14J08667/14J20252 Multiplr: 0.01
MS Integration Params: RTEINT.P
Quant Time: Oct 29 11:13 2014 Quant Results File: S811J04N.RES

Quant Method : C:\MSDCHEM\1\METHODS\S811J04N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Sat Oct 04 20:15:55 2014
Response via : Initial Calibration
DataAcq Meth : BNA11A

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	5.14	152	91395	8000.00 ppb	-0.02
22) Naphthalene-d8	6.37	136	383520	8000.00 ppb	-0.03
40) Acenaphthene-d10	8.21	164	247736	8000.00 ppb	-0.04
64) Phenanthrene-d10	9.81	188	459520	8000.00 ppb	-0.04
78) Chrysene-d12	12.65	240	543478	8000.00 ppb	-0.04
88) Perylene-d12	14.11	264	703517	8000.00 ppb	-0.03

System Monitoring Compounds					
4) 2-Fluorophenol	4.09	112	31548	10.6352194 ppb	0.00
Spiked Amount 20.000	Range 10 - 74		Recovery = 53.18%		
7) Phenol-d5	4.79	99	27902	7.3471185 ppb	0.00
Spiked Amount 20.000	Range 10 - 63		Recovery = 36.74%		
23) Nitrobenzene-d5	5.65	82	22328	5.9057282 ppb	-0.02
Spiked Amount 10.000	Range 28 - 123		Recovery = 59.06%		
44) 2-Fluorobiphenyl	7.49	172	54036	6.0651559 ppb	-0.03
Spiked Amount 10.000	Range 35 - 133		Recovery = 60.65%		
67) 2,4,6-Tribromophenol	9.06	330	16322	13.2236029 ppb	-0.04
Spiked Amount 20.000	Range 22 - 154		Recovery = 66.12%		
81) p-Terphenyl-d14	11.50	244	79297	5.7433555 ppb	-0.05
Spiked Amount 10.000	Range 30 - 148		Recovery = 57.43%		

Target Compounds					Qvalue
2) Pyridine	3.07	79	58	N.D.	
3) N-Nitrosodimethylamine	3.11	42	116	N.D.	
5) Aniline	0.00	66	0	N.D. d	
6) bis(2-Chloroethyl)ether	0.00	63	0	N.D. d	
8) Phenol	4.80	94	77	N.D.	
9) Benzaldehyde	4.77	105	64	N.D.	
10) 2-Chlorophenol	0.00	128	0	N.D.	
11) n-Decane	4.98	41	729	0.3020331 ppb #	76
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.	
15) 1,2-Dichlorobenzene	0.00	146	0	N.D.	
16) bis(2-Chloroisopropyl)ethe	0.00	121	0	N.D.	
17) 2-Methylphenol	0.00	108	0	N.D.	
18) Hexachloroethane	5.55	117	54	N.D.	
19) N-Nitrosodi-n-propylamine	0.00	70	0	N.D.	
20) 3&4-Methyl phenol	0.00	107	0	N.D.	
21) Acetophenone	5.50	105	359	N.D.	
24) Nitrobenzene	5.50	77	93	N.D.	
25) Isophorone	0.00	82	0	N.D.	
26) 2-Nitrophenol	0.00	139	0	N.D.	
27) 2,4-Dimethylphenol	5.79	107	88	N.D.	
28) bis(2-Chlorethoxy)methane	0.00	93	0	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	6.30	180	84	N.D.	
32) Naphthalene	6.40	128	1998	0.1831263 ppb	93
33) 4-Chloroaniline	0.00	65	0	N.D. d	
34) Hexachloro-1,3-butadiene	0.00	225	0	N.D.	
35) Caprolactam	6.38	113	87	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	0.00	142	0	N.D.	

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\102814A\1028A 06.D Vial: 63
Acq On : 29 Oct 2014 4:40 am Operator: 280
Sample : BLANK 1x WG751293 100-0.5 Inst : BNAMS11
Misc : water 14J08667/14J20252 Multiplr: 0.01
MS Integration Params: RTEINT.P
Quant Time: Oct 29 11:13 2014 Quant Results File: S811J04N.RES

Quant Method : C:\MSDCHEM\1\METHODS\S811J04N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Sat Oct 04 20:15:55 2014
Response via : Initial Calibration
DataAcq Meth : BNA11A

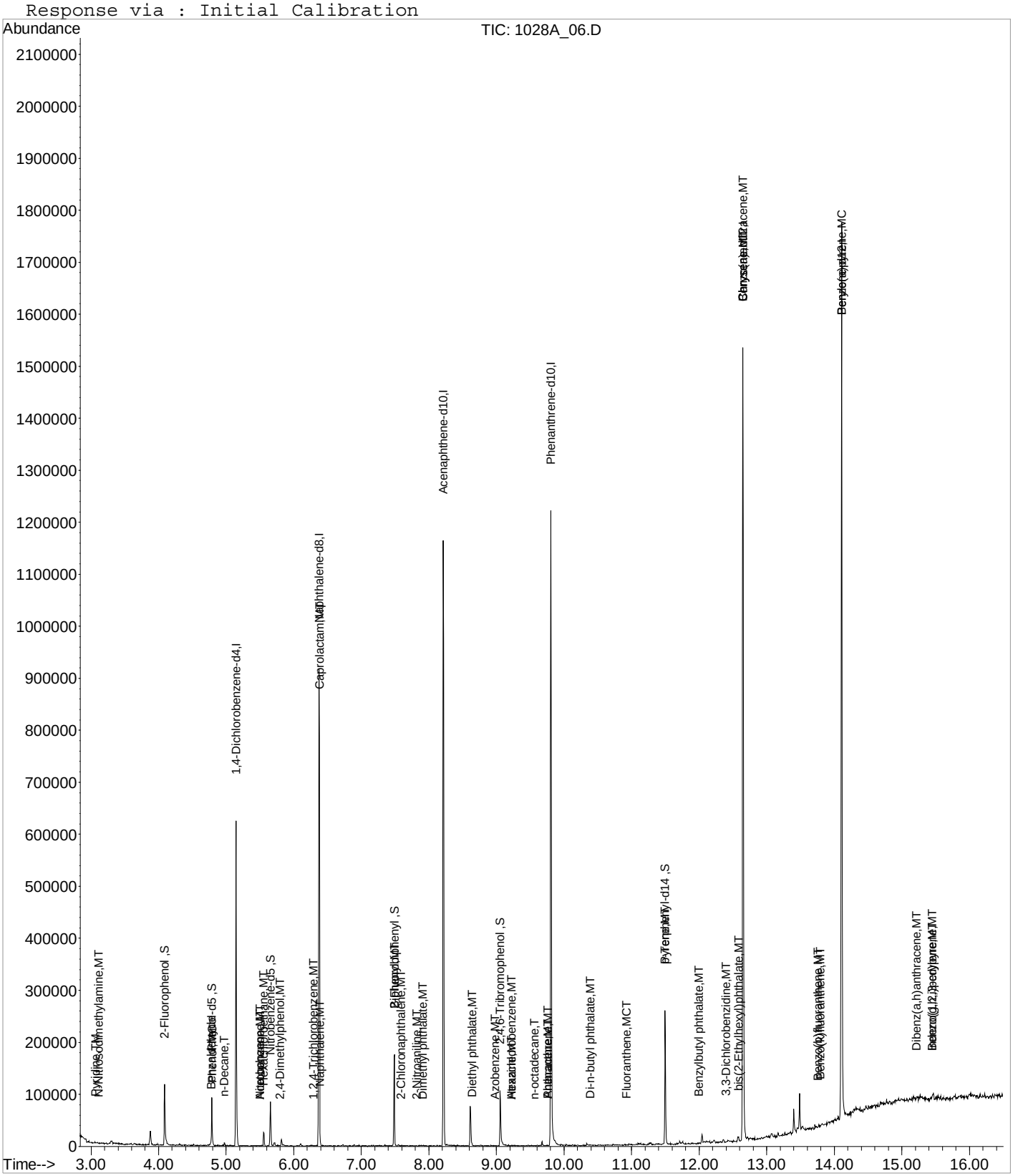
	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
39)	1,2,4,5-Tetrachlorobenzene	0.00	216	0	N.D.	
41)	Hexachlorocyclopentadiene	0.00	237	0	N.D.	
42)	2,4,6-Trichlorophenol	0.00	196	0	N.D.	
43)	2,4,5-Trichlorophenol	0.00	196	0	N.D.	
45)	Biphenyl	7.48	154	128	N.D.	
46)	2-Chloronaphthalene	7.58	162	56	N.D.	
47)	2-Nitroaniline	7.81	138	53	N.D.	
48)	Acenaphthylene	0.00	152	0	N.D.	
49)	Dimethyl phthalate	7.90	163	285	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.	
53)	2,4-Dinitrophenol	0.00	184	0	N.D.	
54)	Dibenzofuran	0.00	168	0	N.D.	
55)	2,4-Dinitrotoluene	0.00	165	0	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	8.64	149	108	N.D.	
61)	4-Nitroaniline	0.00	138	0	N.D.	
62)	Azobenzene	8.98	77	68	N.D.	
63)	Atrazine	9.22	200	62	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	9.21	284	61	N.D.	
70)	n-octadecane	9.57	55	60	N.D.	
71)	Pentachlorophenol	0.00	266	0	N.D. d	
72)	Phenanthrene	9.75	178	63	N.D.	
73)	Anthracene	9.75	178	63	N.D.	
74)	Carbazole	0.00	167	0	N.D.	
75)	Di-n-butyl phthalate	10.39	149	1321	N.D.	
76)	2-nitrodiphenylamine	0.00	167	0	N.D.	
77)	Fluoranthene	10.93	202	55	N.D.	
79)	Benzidine	0.00	184	0	N.D.	
80)	Pyrene	11.50	202	337	N.D.	
82)	Benzylbutyl phthalate	12.00	149	111	N.D.	
83)	3,3-Dichlorobenzidine	12.40	252	61	N.D.	
84)	Benzo(a)anthracene	12.65	228	1564	N.D.	
85)	Chrysene	12.65	228	1564	N.D.	
86)	bis(2-Ethylhexyl)phthalate	12.58	149	2836	0.2118109 ppb	87
87)	Di-n-octyl phthalate	0.00	149	0	N.D. d	
89)	Benzo(b)fluoranthene	13.75	252	70	N.D.	
90)	Benzo(k)fluoranthene	13.79	252	125	N.D.	
91)	Benzo(a)pyrene	14.11	252	2635	N.D.	
92)	Indeno(1,2,3-cd)pyrene	15.44	276	61	N.D.	
93)	Dibenz(a,h)anthracene	15.21	278	58	N.D.	
94)	Benzo(g,h,i)perylene	15.44	276	61	N.D.	

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\102814A\1028A 06.D Vial: 63
Acq On : 29 Oct 2014 4:40 am Operator: 280
Sample : BLANK 1x WG751293 100-0.5 Inst : BNAMS11
Misc : water 14J08667/14J20252 Multiplr: 0.01
MS Integration Params: RTEINT.P
Quant Time: Oct 29 11:13 2014 Quant Results File: S811J04N.RES

Method : C:\MSDCHEM\1\METHODS\S811J04N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Sat Oct 04 20:15:55 2014
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\102814A\1028A 16.D Vial: 73
Acq On : 29 Oct 2014 8:13 am Operator: 280
Sample : L729800-01 1x WG751293 100-0.5 Inst : BNAMS11
Misc : water14J08667/14J20252 Multiplr: 0.01
MS Integration Params: RTEINT.P
Quant Time: Nov 4 16:01 2014 Quant Results File: S811J04N.RES

Quant Method : C:\MSDCHEM\1\METHODS\S811J04N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Sat Oct 04 20:15:55 2014
Response via : Initial Calibration
DataAcq Meth : BNA11A

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	5.14	152	89767	8000.00 ppb	-0.02
22) Naphthalene-d8	6.37	136	375262	8000.00 ppb	-0.03
40) Acenaphthene-d10	8.21	164	259501	8000.00 ppb	-0.04
64) Phenanthrene-d10	9.81	188	481968	8000.00 ppb	-0.04
78) Chrysene-d12	12.65	240	590725	8000.00 ppb	-0.04
88) Perylene-d12	14.11	264	784858	8000.00 ppb	-0.03

System Monitoring Compounds					
4) 2-Fluorophenol	4.09	112	29559	10.1454212 ppb	0.00
Spiked Amount 20.000	Range 10 - 74		Recovery = 50.73%		
7) Phenol-d5	4.79	99	28364	7.6042242 ppb	0.00
Spiked Amount 20.000	Range 10 - 63		Recovery = 38.02%		
23) Nitrobenzene-d5	5.65	82	20326	5.4945101 ppb	-0.02
Spiked Amount 10.000	Range 28 - 123		Recovery = 54.95%		
44) 2-Fluorobiphenyl	7.49	172	56215	6.0236687 ppb	-0.03
Spiked Amount 10.000	Range 35 - 133		Recovery = 60.24%		
67) 2,4,6-Tribromophenol	9.05	330	20337	15.7090357 ppb	-0.04
Spiked Amount 20.000	Range 22 - 154		Recovery = 78.55%		
81) p-Terphenyl-d14	11.49	244	88086	5.8696532 ppb	-0.05
Spiked Amount 10.000	Range 30 - 148		Recovery = 58.70%		

Target Compounds					Qvalue
2) Pyridine	3.10	79	65	N.D.	
3) N-Nitrosodimethylamine	3.12	42	110	N.D.	
5) Aniline	4.85	66	83	N.D.	
6) bis(2-Chloroethyl)ether	4.80	63	108	N.D.	
8) Phenol	4.80	94	1209	0.3227100 ppb #	79
9) Benzaldehyde	0.00	105	0	N.D. d	
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	5.26	79	1761	0.5864807 ppb	99
15) 1,2-Dichlorobenzene	0.00	146	0	N.D.	
16) bis(2-Chloroisopropyl)ethe	0.00	121	0	N.D.	
17) 2-Methylphenol	0.00	108	0	N.D. d	
18) Hexachloroethane	5.50	117	70	N.D.	
19) N-Nitrosodi-n-propylamine	0.00	70	0	N.D. d	
20) 3&4-Methyl phenol	5.48	107	108	N.D.	
21) Acetophenone	0.00	105	0	N.D. d	
24) Nitrobenzene	5.62	77	79	N.D.	
25) Isophorone	5.95	82	55	N.D.	
26) 2-Nitrophenol	5.74	139	58	N.D.	
27) 2,4-Dimethylphenol	6.02	107	65	N.D.	
28) bis(2-Chlorethoxy)methane	6.10	93	54	N.D.	
29) 2,4-Dichlorophenol	0.00	162	0	N.D.	
30) Benzoic Acid	6.04	105	6538	9.0942572 ppb	95
31) 1,2,4-Trichlorobenzene	0.00	180	0	N.D.	
32) Naphthalene	6.40	128	2524	0.2364275 ppb	93
33) 4-Chloroaniline	0.00	65	0	N.D. d	
34) Hexachloro-1,3-butadiene	0.00	225	0	N.D.	
35) Caprolactam	0.00	113	0	N.D. d	
36) 4-Chloro-3-methylphenol	6.92	107	60	N.D.	
37) 2-Methylnaphthalene	7.11	142	1016	N.D.	
38) 1-Methylnaphthalene	7.21	142	889	N.D.	

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\102814A\1028A 16.D Vial: 73
Acq On : 29 Oct 2014 8:13 am Operator: 280
Sample : L729800-01 1x WG751293 100-0.5 Inst : BNAMS11
Misc : water14J08667/14J20252 Multiplr: 0.01
MS Integration Params: RTEINT.P
Quant Time: Nov 4 16:01 2014 Quant Results File: S811J04N.RES

Quant Method : C:\MSDCHEM\1\METHODS\S811J04N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Sat Oct 04 20:15:55 2014
Response via : Initial Calibration
DataAcq Meth : BNA11A

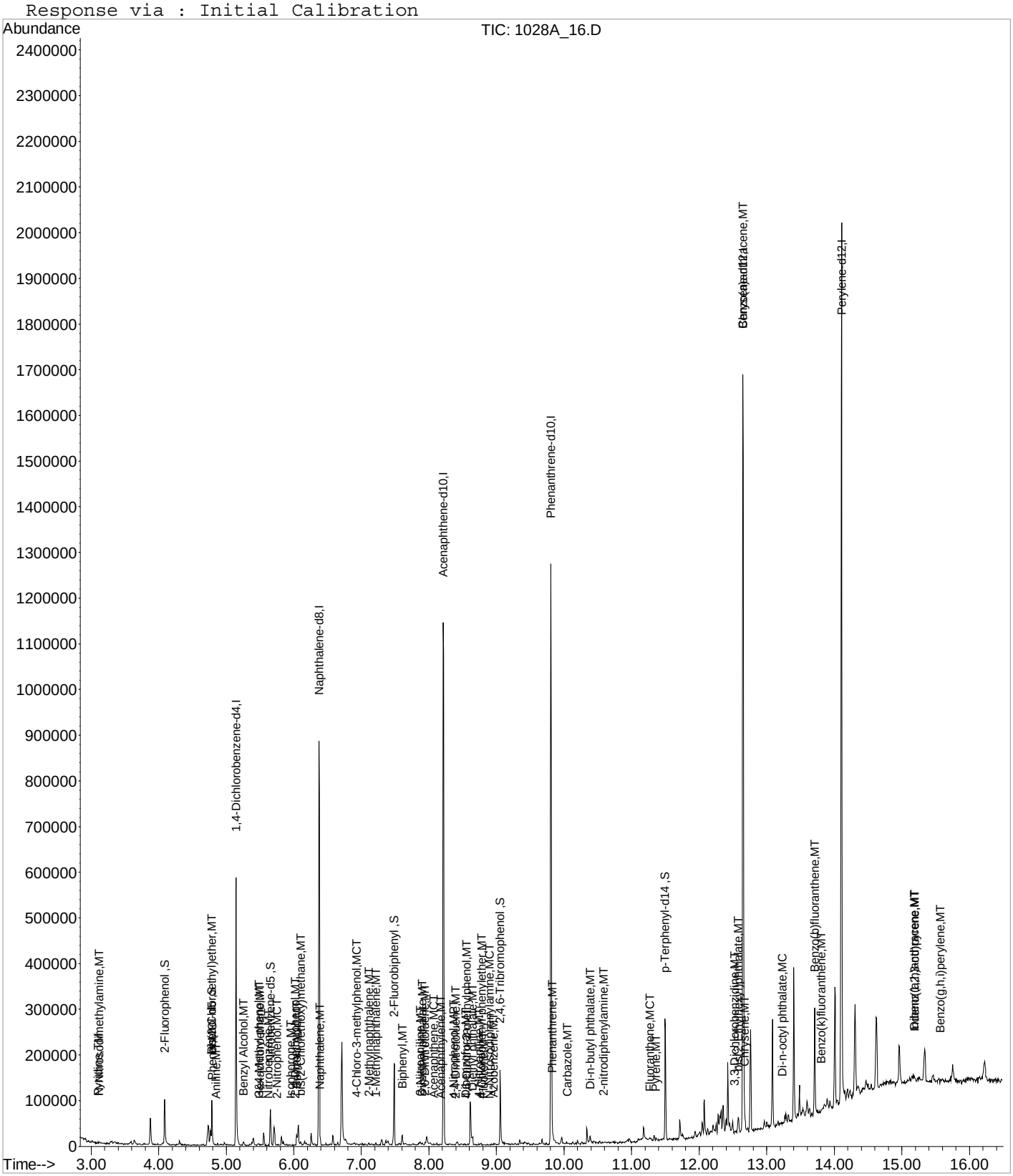
	Compound	R.T.	QIon	Response	Conc Unit		Qvalue
39)	1,2,4,5-Tetrachlorobenzene	0.00	216	0	N.D.		
41)	Hexachlorocyclopentadiene	0.00	237	0	N.D.		
42)	2,4,6-Trichlorophenol	0.00	196	0	N.D.		
43)	2,4,5-Trichlorophenol	0.00	196	0	N.D.		
45)	Biphenyl	7.60	154	190	N.D.		
46)	2-Chloronaphthalene	0.00	162	0	N.D.		
47)	2-Nitroaniline	7.87	138	54	N.D.		
48)	Acenaphthylene	8.18	152	60	N.D.		
49)	Dimethyl phthalate	7.90	163	1191	N.D.		
50)	2,6-Dinitrotoluene	7.95	165	74	N.D.		
51)	3-Nitroaniline	0.00	138	0	N.D.		
52)	Acenaphthene	8.07	153	85	N.D.		
53)	2,4-Dinitrophenol	0.00	184	0	N.D.		
54)	Dibenzofuran	8.55	168	54	N.D.		
55)	2,4-Dinitrotoluene	8.39	165	57	N.D.		
56)	2,3,4,6-Tetrachlorophenol	0.00	232	0	N.D.		
57)	4-Nitrophenol	8.36	139	55	N.D.		
58)	Fluorene	8.80	166	63	N.D.		
59)	4-Chlorophenyl-phenylether	8.78	204	55	N.D.		
60)	Diethyl phthalate	8.65	149	5317	0.5395133 ppb		93
61)	4-Nitroaniline	8.74	138	71	N.D.		
62)	Azobenzene	8.96	77	64	N.D.		
63)	Atrazine	0.00	200	0	N.D.		
65)	4,6-Dinitro-2-methylphenol	8.56	198	63	N.D.		
66)	N-Nitrosodiphenylamine	8.90	169	65	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.		
72)	Phenanthrene	9.83	178	240	N.D.		
73)	Anthracene	0.00	178	0	N.D.	d	
74)	Carbazole	10.05	167	174	N.D.		
75)	Di-n-butyl phthalate	10.39	149	8340	0.4613673 ppb		98
76)	2-nitrodiphenylamine	10.58	167	185	3.9970436 ppb	#	34
77)	Fluoranthene	11.27	202	62	N.D.		
79)	Benzidine	0.00	184	0	N.D.	d	
80)	Pyrene	11.36	202	279	N.D.		
82)	Benzylbutyl phthalate	0.00	149	0	N.D.	d	
83)	3,3-Dichlorobenzidine	12.52	252	75	N.D.		
84)	Benzo(a)anthracene	12.65	228	2049	N.D.		
85)	Chrysene	12.68	228	340	N.D.		
86)	bis(2-Ethylhexyl)phthalate	12.58	149	11954m	0.8213949 ppb		
87)	Di-n-octyl phthalate	13.23	149	513	N.D.		
89)	Benzo(b)fluoranthene	13.72	252	1179	N.D.		
90)	Benzo(k)fluoranthene	13.80	252	57	N.D.		
91)	Benzo(a)pyrene	0.00	252	0	N.D.	d	
92)	Indeno(1,2,3-cd)pyrene	15.19	276	80	N.D.		
93)	Dibenz(a,h)anthracene	15.18	278	85	N.D.		
94)	Benzo(g,h,i)perylene	15.58	276	55	N.D.		

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\102814A\1028A 16.D Vial: 73
Acq On : 29 Oct 2014 8:13 am Operator: 280
Sample : L729800-01 1x WG751293 100-0.5 Inst : BNAMS11
Misc : water14J08667/14J20252 Multiplr: 0.01
MS Integration Params: RTEINT.P
Quant Time: Nov 4 16:01 2014 Quant Results File: S811J04N.RES

Method : C:\MSDCHEM\1\METHODS\S811J04N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Sat Oct 04 20:15:55 2014
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\102814A\1028A 17.D Vial: 74
Acq On : 29 Oct 2014 8:34 am Operator: 280
Sample : MS 1x WG751293 L729800-01 100-0.5 Inst : BNAMS11
Misc : water14J08667/14J20252 Multiplr: 0.01
MS Integration Params: RTEINT.P
Quant Time: Oct 29 14:37 2014 Quant Results File: S811J04N.RES

Quant Method : C:\MSDCHEM\1\METHODS\S811J04N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Sat Oct 04 20:15:55 2014
Response via : Initial Calibration
DataAcq Meth : BNA11A

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	5.15	152	89337	8000.00 ppb	-0.02
22) Naphthalene-d8	6.38	136	365560	8000.00 ppb	-0.02
40) Acenaphthene-d10	8.22	164	247905	8000.00 ppb	-0.03
64) Phenanthrene-d10	9.81	188	464971	8000.00 ppb	-0.04
78) Chrysene-d12	12.65	240	589728	8000.00 ppb	-0.04
88) Perylene-d12	14.11	264	763093	8000.00 ppb	-0.03

System Monitoring Compounds					
4) 2-Fluorophenol	4.09	112	24886	8.5826379 ppb	0.00
Spiked Amount 20.000	Range 10 - 74		Recovery = 42.91%		
7) Phenol-d5	4.79	99	26325	7.0915499 ppb	0.00
Spiked Amount 20.000	Range 10 - 63		Recovery = 35.46%		
23) Nitrobenzene-d5	5.65	82	19650	5.4527493 ppb	-0.02
Spiked Amount 10.000	Range 28 - 123		Recovery = 54.53%		
44) 2-Fluorobiphenyl	7.49	172	54981	6.1670184 ppb	-0.03
Spiked Amount 10.000	Range 35 - 133		Recovery = 61.67%		
67) 2,4,6-Tribromophenol	9.06	330	19169	15.3480934 ppb	-0.04
Spiked Amount 20.000	Range 22 - 154		Recovery = 76.74%		
81) p-Terphenyl-d14	11.50	244	81070	5.4112716 ppb	-0.04
Spiked Amount 10.000	Range 30 - 148		Recovery = 54.11%		

Target Compounds						Qvalue
2) Pyridine	3.16	79	10906	2.3354777 ppb	#	70
3) N-Nitrosodimethylamine	3.13	42	21277	7.2526427 ppb	#	65
5) Aniline	4.85	66	17995m	9.5407818 ppb		
6) bis(2-Chloroethyl)ether	4.89	63	32152	13.0386324 ppb		90
8) Phenol	4.80	94	35012	9.3904924 ppb		87
9) Benzaldehyde	4.77	105	26207	17.1084016 ppb		93
10) 2-Chlorophenol	4.96	128	46377	14.0671522 ppb		88
11) n-Decane	4.97	41	21012	8.9060564 ppb	#	95
12) 1,3-Dichlorobenzene	5.10	146	44291	11.9577953 ppb		95
13) 1,4-Dichlorobenzene	5.16	146	45777	12.0738288 ppb		91
14) Benzyl Alcohol	5.25	79	35645	11.9282934 ppb		96
15) 1,2-Dichlorobenzene	5.30	146	45016	12.6870142 ppb		92
16) bis(2-Chloroisopropyl)ethe	5.38	121	15866	15.3279559 ppb		97
17) 2-Methylphenol	5.34	108	38258	13.4973763 ppb		93
18) Hexachloroethane	5.62	117	17691	10.5964105 ppb		90
19) N-Nitrosodi-n-propylamine	5.50	70	37125	15.4199872 ppb		89
20) 3&4-Methyl phenol	5.48	107	48848	14.6728266 ppb		92
21) Acetophenone	5.51	105	63885	15.0533061 ppb		96
24) Nitrobenzene	5.67	77	54536	15.1502444 ppb		86
25) Isophorone	5.90	82	107323	17.8718824 ppb		94
26) 2-Nitrophenol	5.98	139	27643	16.0016756 ppb		86
27) 2,4-Dimethylphenol	6.01	107	53286	15.1823424 ppb		94
28) bis(2-Chlorethoxy)methane	6.10	93	61477	15.9774229 ppb		92
29) 2,4-Dichlorophenol	6.22	162	48040	17.4308333 ppb	#	88
30) Benzoic Acid	6.06	105	34829	24.4430285 ppb		98
31) 1,2,4-Trichlorobenzene	6.31	180	44405	13.5114501 ppb		94
32) Naphthalene	6.40	128	145451	13.9862477 ppb		99
33) 4-Chloroaniline	6.44	65	18539	13.0028524 ppb		86
34) Hexachloro-1,3-butadiene	6.51	225	26706	12.2097961 ppb		99
35) Caprolactam	6.77	113	6883	8.0326810 ppb		97
36) 4-Chloro-3-methylphenol	6.92	107	55371	17.1760964 ppb		95
37) 2-Methylnaphthalene	7.11	142	111416	14.9640903 ppb		97
38) 1-Methylnaphthalene	7.21	142	116252	16.9276719 ppb		96

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\102814A\1028A 17.D Vial: 74
Acq On : 29 Oct 2014 8:34 am Operator: 280
Sample : MS 1x WG751293 L729800-01 100-0.5 Inst : BNAMS11
Misc : water14J08667/14J20252 Multiplr: 0.01
MS Integration Params: RTEINT.P
Quant Time: Oct 29 14:37 2014 Quant Results File: S811J04N.RES

Quant Method : C:\MSDCHEM\1\METHODS\S811J04N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Sat Oct 04 20:15:55 2014
Response via : Initial Calibration
DataAcq Meth : BNA11A

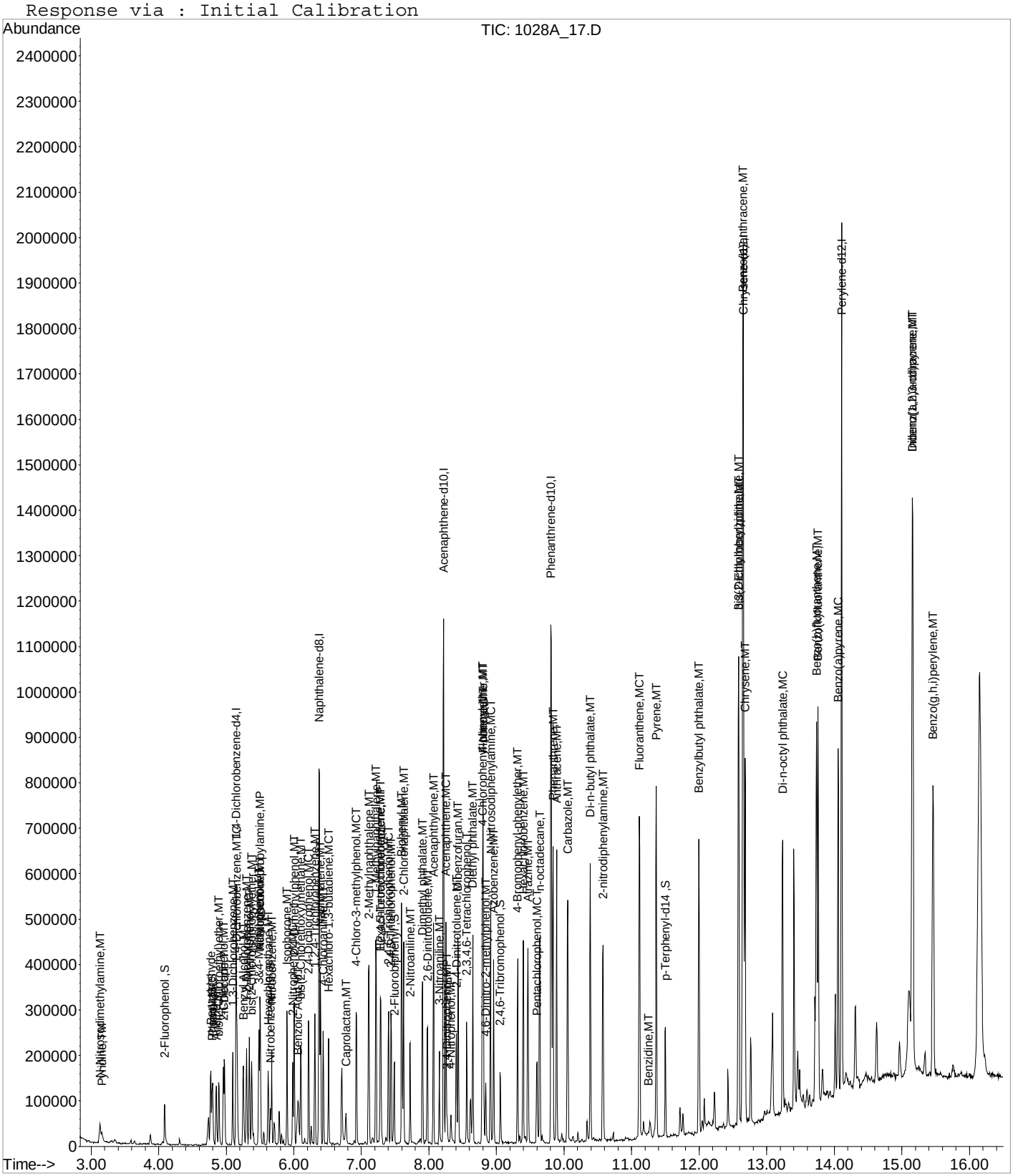
	Compound	R.T.	QIon	Response	Conc Unit		Qvalue
39)	1,2,4,5-Tetrachlorobenzene	7.29	216	54758	15.6849127 ppb		99
41)	Hexachlorocyclopentadiene	7.28	237	13911	5.5104343 ppb		87
42)	2,4,6-Trichlorophenol	7.40	196	36895	15.4697447 ppb		92
43)	2,4,5-Trichlorophenol	7.44	196	42905	17.0789201 ppb		98
45)	Biphenyl	7.60	154	154365	15.5326285 ppb		99
46)	2-Chloronaphthalene	7.62	162	119304	15.7169642 ppb		97
47)	2-Nitroaniline	7.72	138	39123	15.9853611 ppb		93
48)	Acenaphthylene	8.07	152	195472	16.0599918 ppb		99
49)	Dimethyl phthalate	7.91	163	144952	17.0023706 ppb		94
50)	2,6-Dinitrotoluene	7.98	165	32547	16.6764935 ppb		84
51)	3-Nitroaniline	8.15	138	29165	13.3843453 ppb		97
52)	Acenaphthene	8.25	153	126379	15.3537962 ppb		97
53)	2,4-Dinitrophenol	8.27	184	8601	13.1138061 ppb	#	52
54)	Dibenzofuran	8.44	168	182371	16.2022813 ppb		97
55)	2,4-Dinitrotoluene	8.41	165	43561	16.2745848 ppb		79
56)	2,3,4,6-Tetrachlorophenol	8.56	232	31817	18.0455840 ppb		87
57)	4-Nitrophenol	8.32	139	13028	7.4433414 ppb	#	70
58)	Fluorene	8.80	166	150805	15.9561065 ppb		95
59)	4-Chlorophenyl-phenylether	8.79	204	73989	15.5908248 ppb		92
60)	Diethyl phthalate	8.65	149	162296	17.2384052 ppb		97
61)	4-Nitroaniline	8.80	138	31365	14.6442313 ppb		92
62)	Azobenzene	8.96	77	152690	15.4922216 ppb		87
63)	Atrazine	9.47	200	49829	20.6059091 ppb	#	87
65)	4,6-Dinitro-2-methylphenol	8.84	198	17212	11.0191751 ppb	#	77
66)	N-Nitrosodiphenylamine	8.91	169	130811	16.9807462 ppb		99
68)	4-Bromophenyl-phenylether	9.31	248	49934	19.5369711 ppb		91
69)	Hexachlorobenzene	9.40	284	59352	20.9898491 ppb		98
70)	n-octadecane	9.64	55	20955	11.0589270 ppb	#	89
71)	Pentachlorophenol	9.60	266	23215	14.3378668 ppb		90
72)	Phenanthrene	9.84	178	237600	17.1004934 ppb		98
73)	Anthracene	9.89	178	245495	17.9354375 ppb		99
74)	Carbazole	10.05	167	227301	17.0026528 ppb		99
75)	Di-n-butyl phthalate	10.39	149	312974	17.9465642 ppb		98
76)	2-nitrodiphenylamine	10.58	167	60908	18.9072160 ppb		94
77)	Fluoranthene	11.11	202	296249	16.8812699 ppb		97
79)	Benzidine	11.24	184	1654	3.9974423 ppb	#	53
80)	Pyrene	11.37	202	311256	15.5938111 ppb		97
82)	Benzylbutyl phthalate	11.99	149	155130	16.8855467 ppb		93
83)	3,3-Dichlorobenzidine	12.59	252	86657	12.4708423 ppb		94
84)	Benzo(a)anthracene	12.64	228	331631	16.5195523 ppb		96
85)	Chrysene	12.68	228	294726	16.1372678 ppb		98
86)	bis(2-Ethylhexyl)phthalate	12.58	149	241845	16.6459839 ppb		97
87)	Di-n-octyl phthalate	13.24	149	326649	13.5903046 ppb		99
89)	Benzo(b)fluoranthene	13.74	252	359976m	14.6586704 ppb		
90)	Benzo(k)fluoranthene	13.76	252	321095m	14.1287390 ppb		
91)	Benzo(a)pyrene	14.05	252	332613	14.3330475 ppb		97
92)	Indeno(1,2,3-cd)pyrene	15.16	276	447785	16.1250268 ppb		91
93)	Dibenz(a,h)anthracene	15.15	278	368296	15.4476193 ppb		92
94)	Benzo(g,h,i)perylene	15.46	276	365613	16.3463280 ppb		93

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\102814A\1028A 17.D Vial: 74
Acq On : 29 Oct 2014 8:34 am Operator: 280
Sample : MS 1x WG751293 L729800-01 100-0.5 Inst : BNAMS11
Misc : water14J08667/14J20252 Multiplr: 0.01
MS Integration Params: RTEINT.P
Quant Time: Oct 29 14:37 2014 Quant Results File: S811J04N.RES

Method : C:\MSDCHEM\1\METHODS\S811J04N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Sat Oct 04 20:15:55 2014
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\102814A\1028A 18.D Vial: 75
Acq On : 29 Oct 2014 8:56 am Operator: 280
Sample : MSD 1x WG751293 L729800-01 100-0.5 Inst : BNAMS11
Misc : water14J08667/14J20252 Multiplr: 0.01
MS Integration Params: RTEINT.P
Quant Time: Oct 29 14:44 2014 Quant Results File: S811J04N.RES

Quant Method : C:\MSDCHEM\1\METHODS\S811J04N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Sat Oct 04 20:15:55 2014
Response via : Initial Calibration
DataAcq Meth : BNA11A

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	5.14	152	84059	8000.00 ppb	-0.02
22) Naphthalene-d8	6.38	136	348821	8000.00 ppb	-0.02
40) Acenaphthene-d10	8.22	164	238235	8000.00 ppb	-0.03
64) Phenanthrene-d10	9.81	188	441209	8000.00 ppb	-0.04
78) Chrysene-d12	12.65	240	553485	8000.00 ppb	-0.04
88) Perylene-d12	14.11	264	726824	8000.00 ppb	-0.02

System Monitoring Compounds					
4) 2-Fluorophenol	4.09	112	26694	9.7842264 ppb	0.00
Spiked Amount 20.000	Range 10 - 74		Recovery = 48.92%		
7) Phenol-d5	4.79	99	26181	7.4955958 ppb	0.00
Spiked Amount 20.000	Range 10 - 63		Recovery = 37.48%		
23) Nitrobenzene-d5	5.65	82	21020	6.1128218 ppb	-0.02
Spiked Amount 10.000	Range 28 - 123		Recovery = 61.13%		
44) 2-Fluorobiphenyl	7.49	172	54747	6.3900265 ppb	-0.03
Spiked Amount 10.000	Range 35 - 133		Recovery = 63.90%		
67) 2,4,6-Tribromophenol	9.06	330	20951	17.6783300 ppb	-0.03
Spiked Amount 20.000	Range 22 - 154		Recovery = 88.39%		
81) p-Terphenyl-d14	11.50	244	84102	5.9812420 ppb	-0.04
Spiked Amount 10.000	Range 30 - 148		Recovery = 59.81%		

Target Compounds						Qvalue
2) Pyridine	3.16	79	20231	4.6044178 ppb	#	79
3) N-Nitrosodimethylamine	3.13	42	23123	8.3767820 ppb	#	64
5) Aniline	4.85	66	21205m	11.9486141 ppb		
6) bis(2-Chloroethyl)ether	4.89	63	33596	14.4796734 ppb		96
8) Phenol	4.80	94	37478	10.6830436 ppb		85
9) Benzaldehyde	4.77	105	25092	17.4090291 ppb		93
10) 2-Chlorophenol	4.95	128	46401	14.9581547 ppb		94
11) n-Decane	4.98	41	22037	9.9269919 ppb	#	99
12) 1,3-Dichlorobenzene	5.10	146	45095	12.9393114 ppb		98
13) 1,4-Dichlorobenzene	5.16	146	46052	12.9090216 ppb		92
14) Benzyl Alcohol	5.25	79	38174	13.5767090 ppb		93
15) 1,2-Dichlorobenzene	5.30	146	45808	13.7208494 ppb		94
16) bis(2-Chloroisopropyl)ethe	5.38	121	15974	16.4012753 ppb		97
17) 2-Methylphenol	5.34	108	38581	14.4659753 ppb		93
18) Hexachloroethane	5.62	117	18956	12.0670257 ppb		94
19) N-Nitrosodi-n-propylamine	5.50	70	38576	17.0287154 ppb		87
20) 3&4-Methyl phenol	5.48	107	50445	16.1039447 ppb		92
21) Acetophenone	5.51	105	66902	16.7540281 ppb		95
24) Nitrobenzene	5.67	77	55981	16.2979528 ppb		88
25) Isophorone	5.90	82	111604	19.4766069 ppb		99
26) 2-Nitrophenol	5.98	139	28975	17.5776081 ppb		92
27) 2,4-Dimethylphenol	6.01	107	55326	16.5200356 ppb		92
28) bis(2-Chlorethoxy)methane	6.10	93	63245	17.2256773 ppb		89
29) 2,4-Dichlorophenol	6.22	162	48112	18.2946711 ppb	#	88
30) Benzoic Acid	6.06	105	26595	20.7442315 ppb		99
31) 1,2,4-Trichlorobenzene	6.31	180	45139	14.3938863 ppb		93
32) Naphthalene	6.40	128	150291	15.1451480 ppb		99
33) 4-Chloroaniline	6.44	65	20160	14.8183177 ppb		80
34) Hexachloro-1,3-butadiene	6.51	225	26278	12.5906434 ppb		95
35) Caprolactam	6.77	113	7933	9.7023347 ppb	#	75
36) 4-Chloro-3-methylphenol	6.92	107	55879	18.1654756 ppb		96
37) 2-Methylnaphthalene	7.11	142	114947	16.1791777 ppb		97
38) 1-Methylnaphthalene	7.21	142	121017	18.4671224 ppb		97

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\102814A\1028A 18.D Vial: 75
Acq On : 29 Oct 2014 8:56 am Operator: 280
Sample : MSD 1x WG751293 L729800-01 100-0.5 Inst : BNAMS11
Misc : water14J08667/14J20252 Multiplr: 0.01
MS Integration Params: RTEINT.P
Quant Time: Oct 29 14:44 2014 Quant Results File: S811J04N.RES

Quant Method : C:\MSDCHEM\1\METHODS\S811J04N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Sat Oct 04 20:15:55 2014
Response via : Initial Calibration
DataAcq Meth : BNA11A

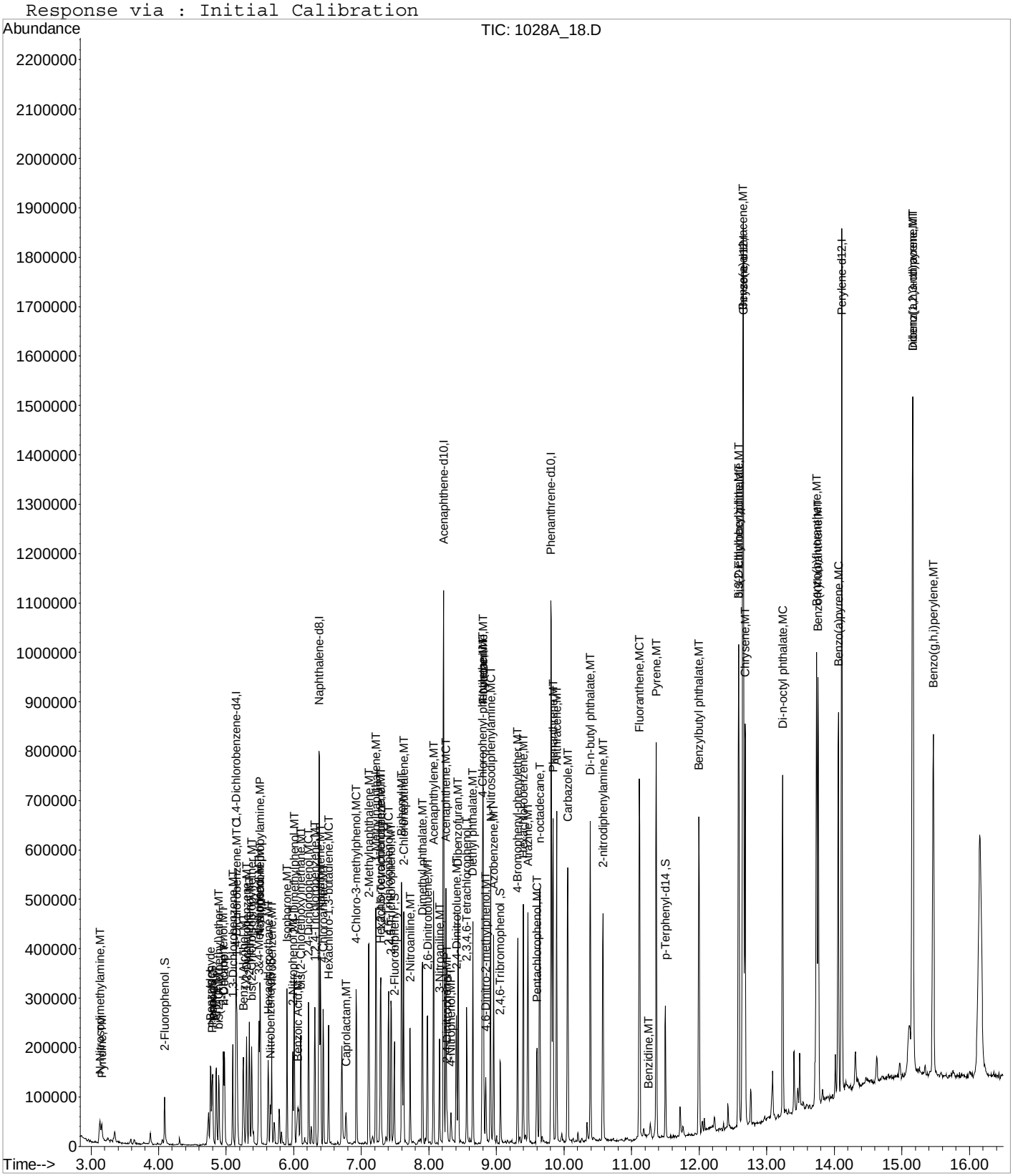
	Compound	R.T.	QIon	Response	Conc Unit		Qvalue
39)	1,2,4,5-Tetrachlorobenzene	7.29	216	55497	16.6594279 ppb		99
41)	Hexachlorocyclopentadiene	7.28	237	14933	6.1553715 ppb		93
42)	2,4,6-Trichlorophenol	7.40	196	40507	17.6736167 ppb		90
43)	2,4,5-Trichlorophenol	7.44	196	46063	19.0802667 ppb		91
45)	Biphenyl	7.60	154	159431	16.6935464 ppb		99
46)	2-Chloronaphthalene	7.62	162	121063	16.5960529 ppb		99
47)	2-Nitroaniline	7.72	138	42235	17.9573613 ppb		92
48)	Acenaphthylene	8.07	152	206539	17.6580423 ppb		99
49)	Dimethyl phthalate	7.91	163	152272	18.5859618 ppb		94
50)	2,6-Dinitrotoluene	7.98	165	35126	18.7284653 ppb		85
51)	3-Nitroaniline	8.15	138	31118m	14.8602649 ppb		
52)	Acenaphthene	8.25	153	130230	16.4638583 ppb		99
53)	2,4-Dinitrophenol	8.27	184	8236	13.0926720 ppb	#	47
54)	Dibenzofuran	8.44	168	189121	17.4839624 ppb		98
55)	2,4-Dinitrotoluene	8.41	165	46449	18.0579383 ppb	#	80
56)	2,3,4,6-Tetrachlorophenol	8.56	232	32329	19.0802344 ppb		88
57)	4-Nitrophenol	8.32	139	12968	7.7097964 ppb	#	72
58)	Fluorene	8.80	166	152115	16.7479998 ppb		92
59)	4-Chlorophenyl-phenylether	8.79	204	74321	16.2964571 ppb		95
60)	Diethyl phthalate	8.65	149	167757	18.5417038 ppb		98
61)	4-Nitroaniline	8.81	138	35942	17.4623725 ppb		86
62)	Azobenzene	8.96	77	158590	16.7439772 ppb		86
63)	Atrazine	9.47	200	48958	21.0674997 ppb		92
65)	4,6-Dinitro-2-methylphenol	8.84	198	17907	12.0815341 ppb	#	75
66)	N-Nitrosodiphenylamine	8.91	169	132887	18.1792728 ppb		98
68)	4-Bromophenyl-phenylether	9.31	248	51487	21.2295099 ppb		90
69)	Hexachlorobenzene	9.40	284	60406	22.5131125 ppb		96
70)	n-octadecane	9.64	55	24160	13.4370446 ppb	#	90
71)	Pentachlorophenol	9.60	266	23904	15.4573871 ppb		92
72)	Phenanthrene	9.84	178	242647	18.4042717 ppb		98
73)	Anthracene	9.89	178	252212	19.4185400 ppb		98
74)	Carbazole	10.05	167	233465	18.4042714 ppb		99
75)	Di-n-butyl phthalate	10.39	149	315512	19.0664765 ppb		99
76)	2-nitrodiphenylamine	10.58	167	64547	20.6541429 ppb		95
77)	Fluoranthene	11.11	202	304471	18.2841872 ppb		98
79)	Benzidine	11.24	184	1557	3.9978707 ppb		79
80)	Pyrene	11.37	202	317342	16.9397886 ppb		97
82)	Benzylbutyl phthalate	12.00	149	160360	18.5977872 ppb		93
83)	3,3-Dichlorobenzidine	12.59	252	90529	13.8811598 ppb		96
84)	Benzo(a)anthracene	12.64	228	337779	17.9275809 ppb		96
85)	Chrysene	12.68	228	309384	18.0490895 ppb		97
86)	bis(2-Ethylhexyl)phthalate	12.58	149	210863	15.4638857 ppb		97
87)	Di-n-octyl phthalate	13.24	149	352537	15.6278220 ppb		100
89)	Benzo(b)fluoranthene	13.74	252	366402m	15.6648802 ppb		
90)	Benzo(k)fluoranthene	13.76	252	344776m	15.9277745 ppb		
91)	Benzo(a)pyrene	14.06	252	339621	15.3653362 ppb		97
92)	Indeno(1,2,3-cd)pyrene	15.16	276	473330	17.8954715 ppb		93
93)	Dibenz(a,h)anthracene	15.16	278	391535	17.2418299 ppb		91
94)	Benzo(g,h,i)perylene	15.47	276	376635	17.6793977 ppb		91

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\102814A\1028A 18.D Vial: 75
Acq On : 29 Oct 2014 8:56 am Operator: 280
Sample : MSD 1x WG751293 L729800-01 100-0.5 Inst : BNAMS11
Misc : water14J08667/14J20252 Multiplr: 0.01
MS Integration Params: RTEINT.P
Quant Time: Oct 29 14:44 2014 Quant Results File: S811J04N.RES

Method : C:\MSDCHEM\1\METHODS\S811J04N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Sat Oct 04 20:15:55 2014
Response via : Initial Calibration



Calibration

Instrument: BNAMS11
Method: S811J04N

Initial Calibration Run Log

File ID	Level ID	Date Analyzed
1004A_05.D	200	10/4/2014 1:54:00 PM
1004A_06.D	1000	10/4/2014 2:15:00 PM
1004A_07.D	2000	10/4/2014 2:36:00 PM
1004A_08.D	5000	10/4/2014 2:58:00 PM
1004A_04.D	10000	10/4/2014 1:33:00 PM
1004A_09.D	20000	10/4/2014 3:19:00 PM
1004A_10.D	30000	10/4/2014 3:40:00 PM
1004A_11.D	40000	10/4/2014 4:01:00 PM
1004A_12.D	50000	10/4/2014 4:23:00 PM
1004A_14.D	.2K1	10/4/2014 5:05:00 PM
1004A_15.D	1K1	10/4/2014 5:26:00 PM
1004A_16.D	2K1	10/4/2014 5:47:00 PM
1004A_17.D	5K1	10/4/2014 6:09:00 PM
1004A_13.D	10K1	10/4/2014 4:44:00 PM
1004A_18.D	20K1	10/4/2014 6:30:00 PM
1004A_19.D	30K1	10/4/2014 6:51:00 PM
1004A_20.D	40K1	10/4/2014 7:12:00 PM
1004A_21.D	50K1	10/4/2014 7:33:00 PM

Environmental Science Corporation
12065 Lebanon Rd., Mt. Juliet, TN 37122

Injection Log

Instrument ID : BNAMS11
Computer Name : SVCOMPAC

Released By : Chris McCord
Date Released : 10/4/2014 8:32:35 PM

Run ID : 100414A
Signature : _____

#	File ID	Sample ID	Method	WG	Product	Matrix	Account #	State	Dil.	Mult.	Injected	Misc.
1	1004A_02	INSTBLK	S811J01N						1	1	10/04/14 1210	"instrument blank"
2	1004A_03	TUNE 50 PPM 14F19703								1	10/4/14 1245	
3	1004A_04	MSTD SVMS 10K PPB 14G09881	S811J04N						1	1	10/04/14 1333	"8270 Primary Calibration"
4	1004A_05	STD SVMS 200 PPB 14G09881	S811J04N						1	1	10/04/14 1354	"8270 Primary Calibration"
5	1004A_05 MRL	MRL SVMS 200 PPB 14G09881	S811J04N						1	1	10/04/14 1354	"8270 Primary Calibration"
6	1004A_06	STD SVMS 1K PPB 14G09881	S811J04N						1	1	10/04/14 1415	"8270 Primary Calibration"
7	1004A_07	STD SVMS 2K PPB 14G09881	S811J04N						1	1	10/04/14 1436	"8270 Primary Calibration"
8	1004A_07 mrl	MRL SVMS 2K PPB 14G09881	S811J04N						1	1	10/04/14 1436	"8270 Primary Calibration"
9	1004A_08	STD SVMS 5K PPB 14G09881	S811J04N						1	1	10/04/14 1458	"8270 Primary Calibration"
10	1004A_09	STD SVMS 20K PPB 14G09881	S811J04N						1	1	10/04/14 1519	"8270 Primary Calibration"
11	1004A_10	STD SVMS 30K PPB 14G09881	S811J04N						1	1	10/04/14 1540	"8270 Primary Calibration"
12	1004A_11	STD SVMS 40K PPB 14G09881	S811J04N						1	1	10/04/14 1601	"8270 Primary Calibration"
13	1004A_12	STD SVMS 50K PPB 14G09881	S811J04N						1	1	10/04/14 1623	"8270 Primary Calibration"
14	1004A_13	MSTD TCL 10K1 PPB 14G09881	S811J04N						1	1	10/04/14 1644	"8270 Primary Calibration"

Environmental Science Corporation
12065 Lebanon Rd., Mt. Juliet, TN 37122

Injection Log

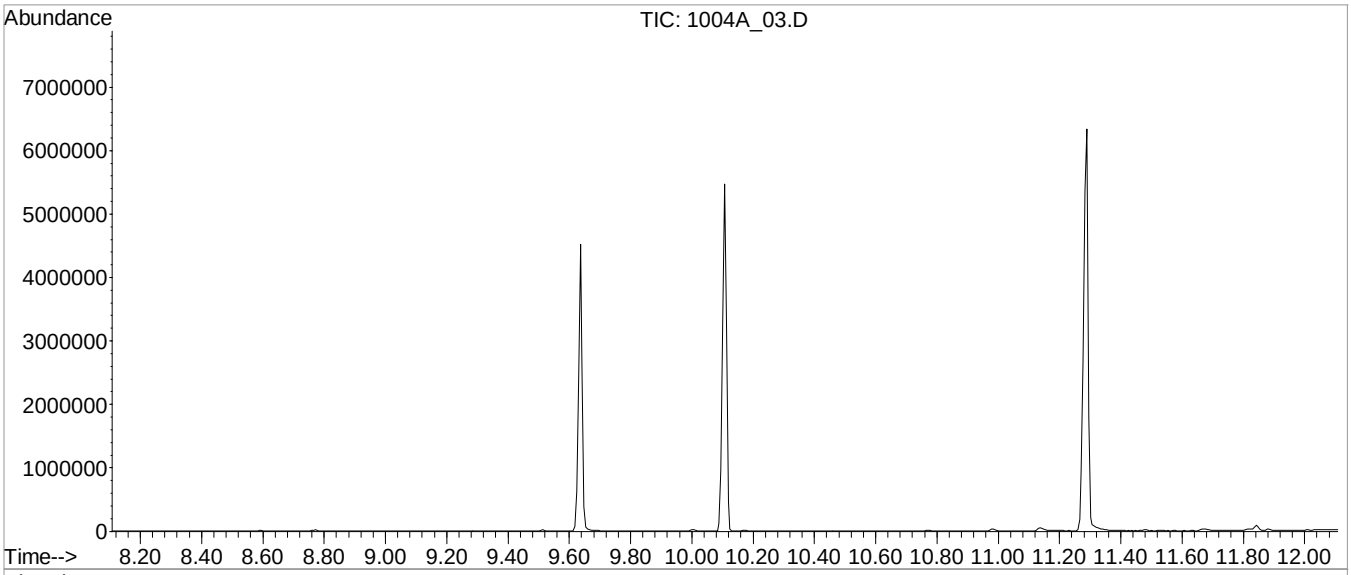
Instrument ID : BNAMS11
Computer Name : SVCOMPAC

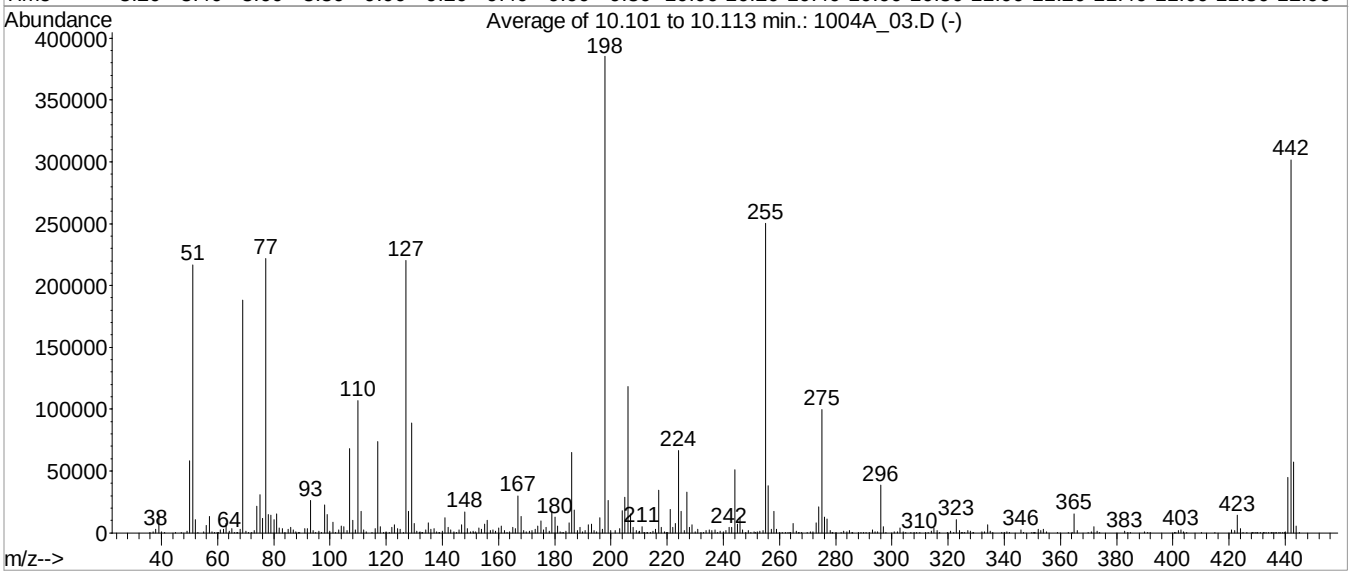
Released By : Chris McCord
Date Released : 10/4/2014 8:32:35 PM

Run ID : 100414A
Signature : _____

#	File ID	Sample ID	Method	WG	Product	Matrix	Account #	State	Dil.	Mult.	Injected	Misc.
15	1004A_14	STD TCL .2K1 PPB 14G21532	S811J04N						1	1	10/04/14 1705	"8270 TCL Calibration"
16	1004A_15	STD TCL 1K1 PPB 14G21532	S811J04N						1	1	10/04/14 1726	"8270 TCL Calibration"
17	1004A_16	STD TCL 2K1 PPB 14G21532	S811J04N						1	1	10/04/14 1747	"8270 TCL Calibration"
18	1004A_16 MRL	MRL TCL 2K1 PPB 14G21532	S811J04N						1	1	10/04/14 1747	"8270 TCL Calibration"
19	1004A_17	STD TCL 5K1 PPB 14G21532	S811J04N						1	1	10/04/14 1809	"8270 TCL Calibration"
20	1004A_18	STD TCL 20K1 PPB 14G21532	S811J04N						1	1	10/04/14 1830	"8270 TCL Calibration"
21	1004A_19	STD TCL 30K1 PPB 14G21532	S811J04N						1	1	10/04/14 1851	"8270 TCL Calibration"
22	1004A_20	STD TCL 40K1 PPB 14G21532	S811J04N						1	1	10/04/14 1912	"8270 TCL Calibration"
23	1004A_21	STD TCL 50K1 PPB 14G21532	S811J04N						1	1	10/04/14 1933	"8270 TCL Calibration"
24	1004A_22	SSCV SVMS 10K PPB 14C29003	S811J04N						1	1	10/04/14 1955	"8270 sscv"

Data File : C:\MSDCHEM\1\DATA\100414A\1004A 03.D Vial: 1
Acq On : 4 Oct 2014 12:45 pm Operator: 280
Sample : TUNE 50 PPM 14F19703 Inst : BNAMS11
Misc : DFTPP Multiplr: 1.00
MS Integration Params: RTEINT.P
Method : C:\MSDCHEM\1\METHODS\TUNED.M (RTE Integrator)
Title : 8270 BNA

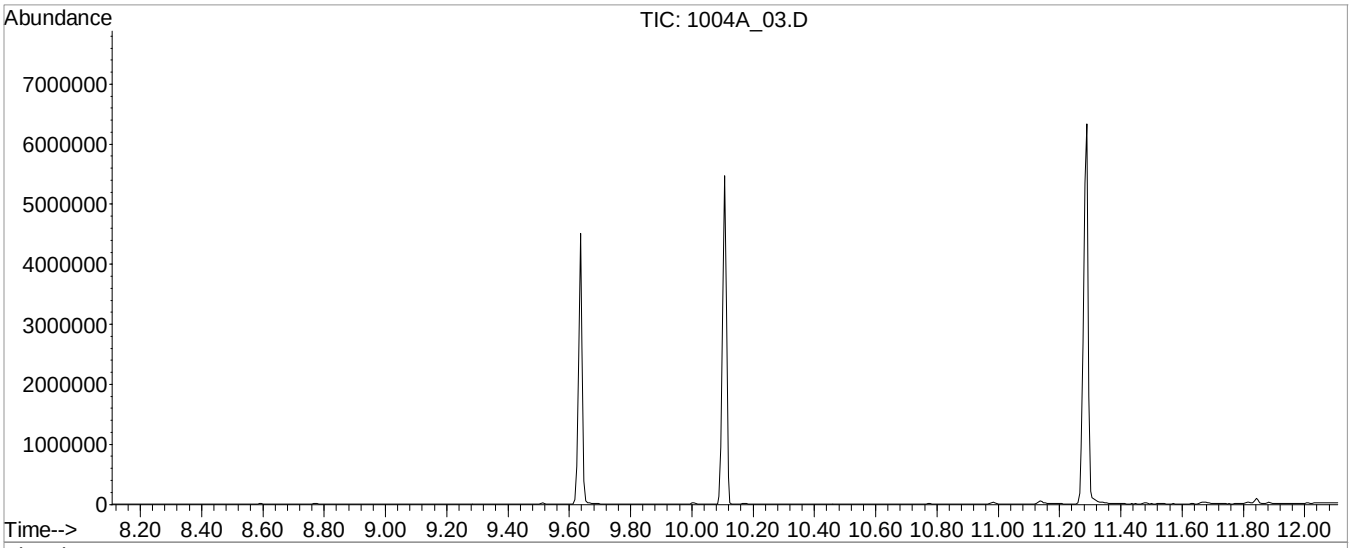


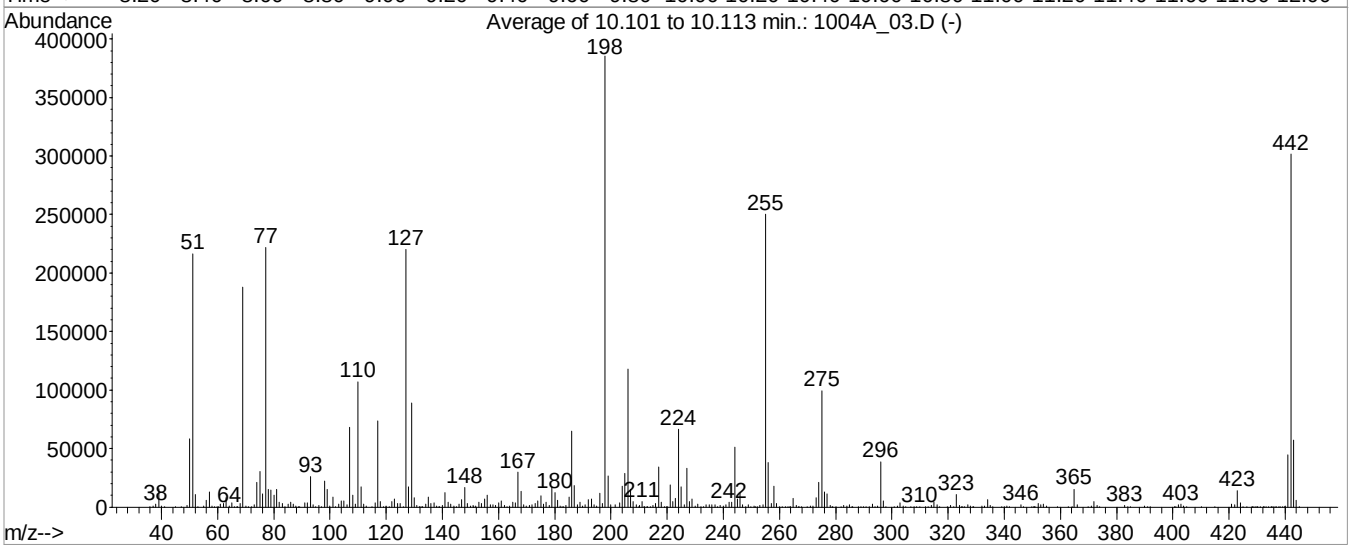


Spectrum Information: Average of 10.101 to 10.113 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	10	80	56.1	216450	PASS
68	69	0.00	2	1.7	3122	PASS
70	69	0.00	2	0.6	1085	PASS
127	198	10	80	57.1	220138	PASS
197	198	0.00	2	0.8	3034	PASS
198	198	50	100	100.0	385514	PASS
199	198	5	9	6.8	26397	PASS
275	198	10	60	25.8	99450	PASS
365	198	1	100	4.0	15328	PASS
441	442	0.01	24	14.8	44680	PASS
442	198	50	100	78.2	301632	PASS
443	442	15	24	19.0	57362	PASS

Data File : C:\MSDCHEM\1\DATA\100414A\1004A 03.D Vial: 1
Acq On : 4 Oct 2014 12:45 pm Operator: 280
Sample : TUNE 50 PPM 14F19703 Inst : BNAMS11
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 10.101 to 10.113 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	56.1	216450	PASS
68	69	0.00	2	1.7	3122	PASS
69	198	0.00	100	48.8	188056	PASS
70	69	0.00	2	0.6	1085	PASS
127	198	40	60	57.1	220138	PASS
197	198	0.00	1	0.8	3034	PASS
198	198	100	100	100.0	385514	PASS
199	198	5	9	6.8	26397	PASS
275	198	10	30	25.8	99450	PASS
365	198	1	100	4.0	15328	PASS
441	443	0.01	100	77.9	44680	PASS
442	198	40	100	78.2	301632	PASS
443	442	17	23	19.0	57362	PASS

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\100414A\1004A 03.D Vial: 1
Acq On : 4 Oct 2014 12:45 pm Operator: 280
Sample : TUNE 50 PPM 14F19703 Inst : BNAMS11
Misc : DFTPP Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 4 17:58 2014 Quant Results File: TUNEC.RES

Quant Method : C:\MSDCHEM\1\METHODS\TUNEC.M (RTE Integrator)
Title : 8270 BNA
Last Update : Mon Sep 15 15:56:23 2014
Response via : Initial Calibration
DataAcq Meth : BNA11

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)

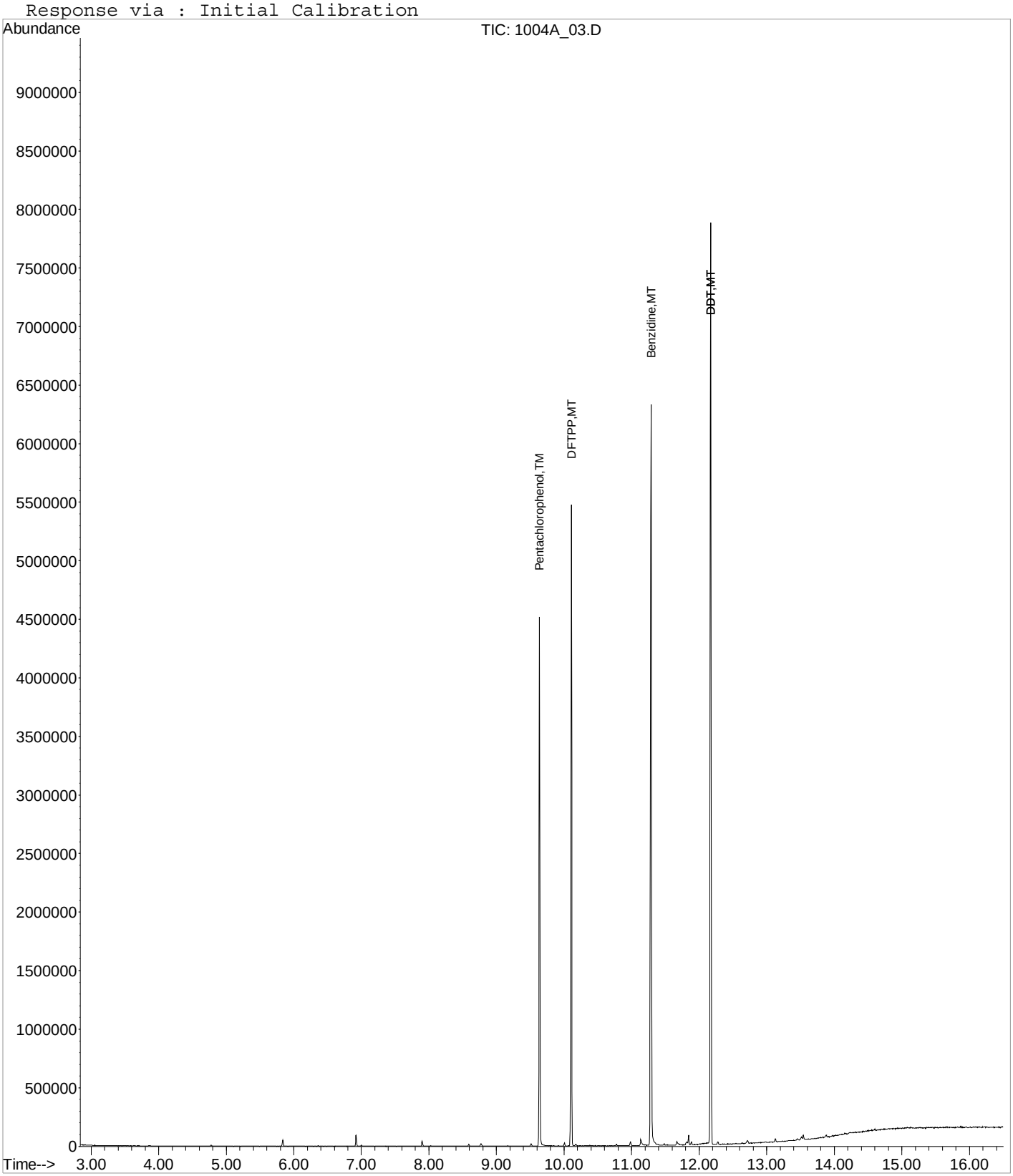
Target Compounds					Qvalue
1) Pentachlorophenol	9.64	264	243875	54.5706179 ug/mL	100
2) DFTPP	10.11	198	455397	61.5451253 ug/mL	100
3) Benzidine	11.29	184	2436631	65.8939296 ug/mL	100
4) DDT	12.17	TIC	7304027	372.2483842 ug/ml	100
5) DDT	12.17	235	1291883	96.0063822 ug/mL	100

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\100414A\1004A 03.D Vial: 1
Acq On : 4 Oct 2014 12:45 pm Operator: 280
Sample : TUNE 50 PPM 14F19703 Inst : BNAMS11
Misc : DFTPP Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 4 17:58 2014 Quant Results File: TUNEC.RES

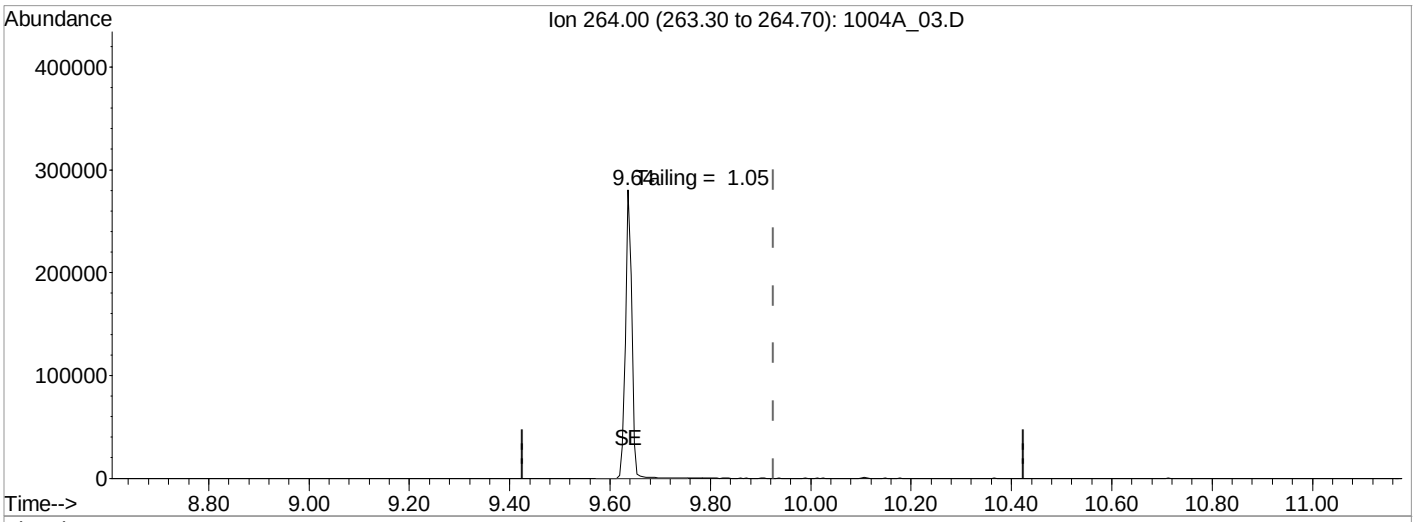
Method : C:\MSDCHEM\1\METHODS\TUNEC.M (RTE Integrator)
Title : 8270 BNA
Last Update : Mon Sep 15 15:56:23 2014
Response via : Initial Calibration

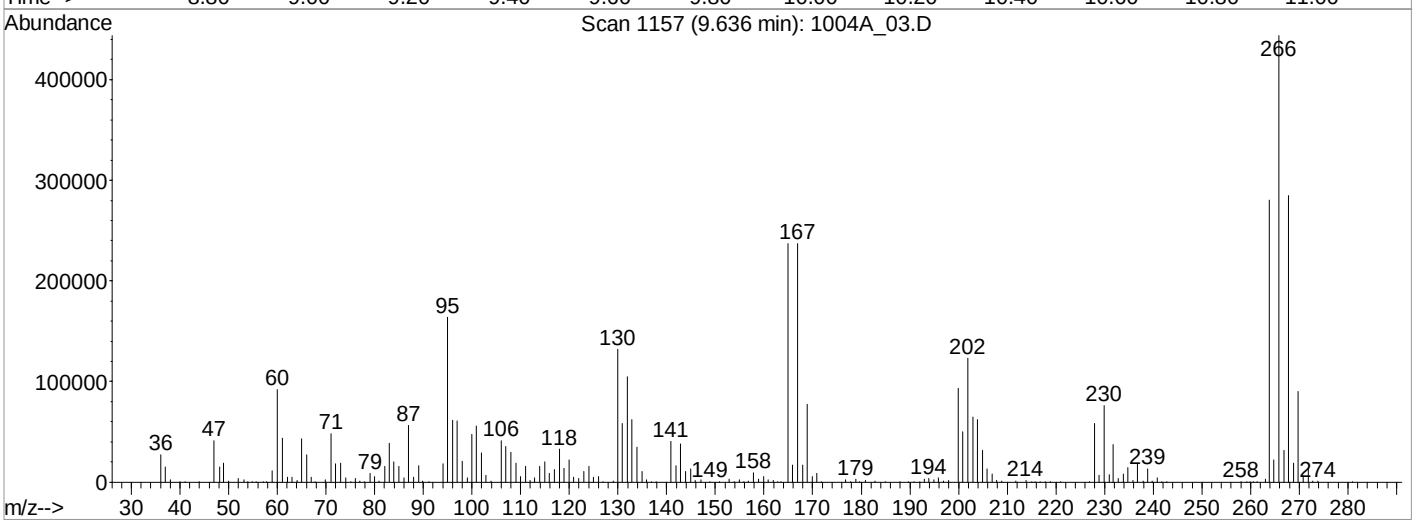


Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\100414A\1004A 03.D Vial: 1
Acq On : 4 Oct 2014 12:45 pm Operator: 280
Sample : TUNE 50 PPM 14F19703 Inst : BNAMS11
Misc : DFTPP Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 4 17:58 2014 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\TUNEC.M (RTE Integrator)
Title : 8270 BNA
Last Update : Mon Sep 15 15:56:23 2014
Response via : Single Level Calibration





TIC: 1004A_03.D

(1) Pentachlorophenol (TM)

9.64min (-0.288) 54.5706179 ug/mL

Qvalue = 100

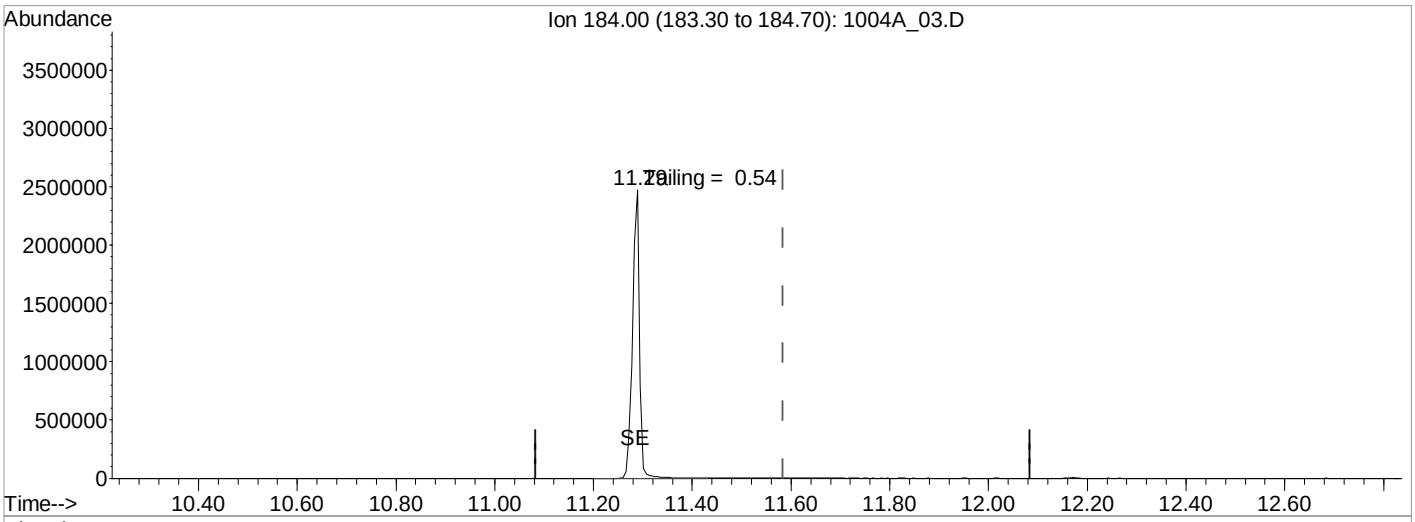
response 243875

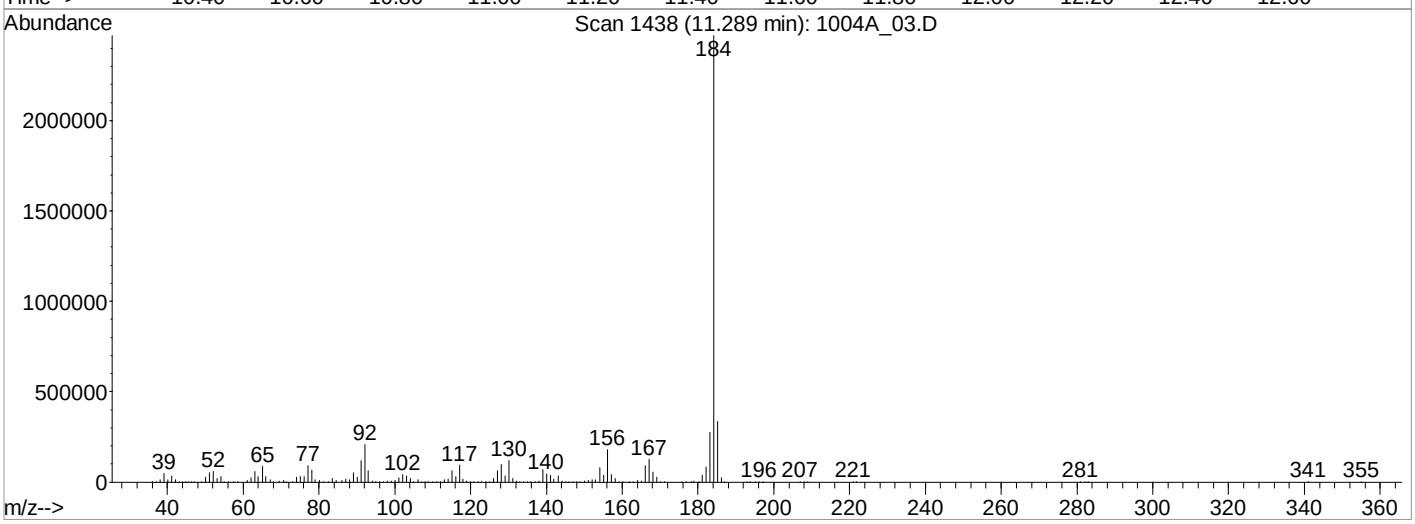
Ion	Exp%	Act%
264.00	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\100414A\1004A 03.D Vial: 1
Acq On : 4 Oct 2014 12:45 pm Operator: 280
Sample : TUNE 50 PPM 14F19703 Inst : BNAMS11
Misc : DFTPP Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 4 17:58 2014 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\TUNEC.M (RTE Integrator)
Title : 8270 BNA
Last Update : Mon Sep 15 15:56:23 2014
Response via : Single Level Calibration





TIC: 1004A_03.D

(3) Benzidine (MT)

11.29min (-0.294) 65.8939296 ug/mL

Qvalue = 100

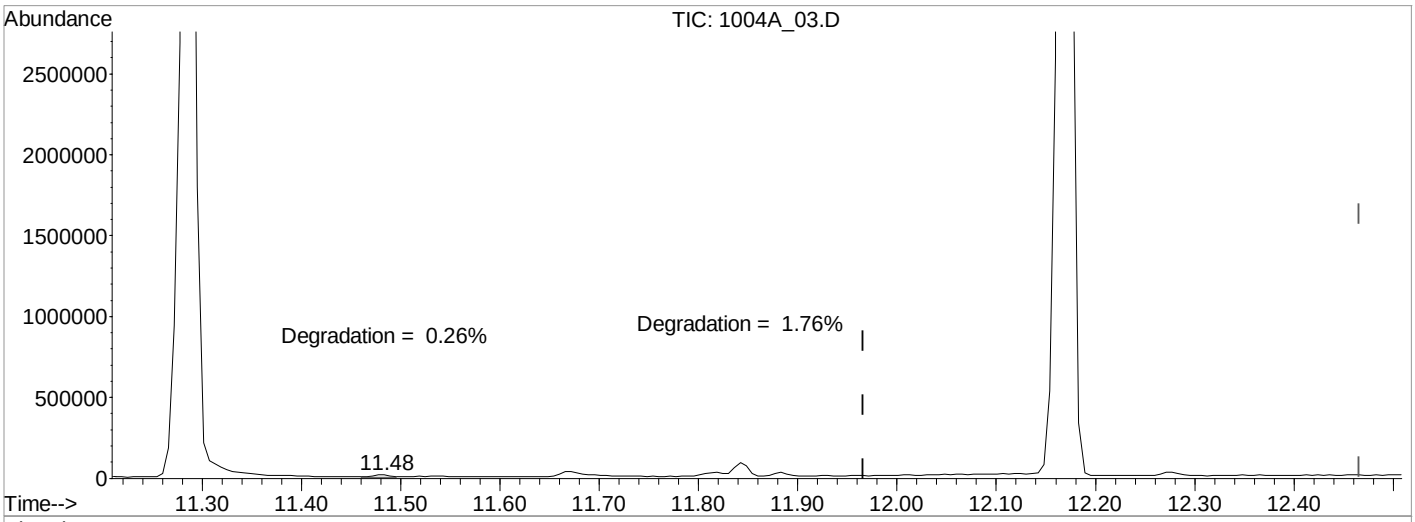
response 2436631

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\100414A\1004A 03.D Vial: 1
Acq On : 4 Oct 2014 12:45 pm Operator: 280
Sample : TUNE 50 PPM 14F19703 Inst : BNAMS11
Misc : DFTPP Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 4 17:58 2014 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\TUNEC.M (RTE Integrator)
Title : 8270 BNA
Last Update : Mon Sep 15 15:56:23 2014
Response via : Single Level Calibration



TIC: 1004A_03.D

(4) DDT (MT)

12.17min (-0.294) 372.2483842 ug/ml

Qvalue = 100

response 7304027

Signal	Exp%	Act%
TIC	100	100
0.00	6.60	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	: BNAMS11	Review Method	: 8270C	Released By	: Chris McCord
Method	: S811J04N	Review Protocol	: SW846	Released On	: 10/4/2014 8:32:35 PM

INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- S811J04N -- ICal Updated Time: Sat Oct 04 20:15:55 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	2.315	2.107	2.082	2.15	2.243	1.999	1.971	1.989	1.962										2.090828	6.02	0.06	1
N-Nitrosodimethylamine	1.271	1.393	1.292	1.355	1.521	1.227	1.253	1.27	1.239										1.313538	7.22	0.072	1
2-Fluorophenol	1.182	1.257	1.28	1.33	1.361	1.315	1.3	1.343	1.318										1.298264	4.15	0.042	1
Aniline	0.77	0.913	0.817	0.879	0.823	0.857	0.844	0.854	0.843										0.844494	4.76	0.048	1
bis(2-Chloroethyl)ether	1.173	1.182	1.118	1.157	1.155	1.074	1.038	1.03	1.01										1.10409	6.09	0.061	1
Phenol-d5	1.576	1.663	1.616	1.662	1.739	1.684	1.649	1.716	1.655										1.662095	2.94	0.029	1
Phenol	1.47	1.708	1.653	1.717	1.764	1.676	1.672	1.695	1.668										1.669388	4.89	0.049	1
Benzaldehyde												0.599	0.588	0.644	0.735	0.745	0.754	0.735	0.685862	10.63	0.106	1
2-Chlorophenol	1.465	1.507	1.456	1.501	1.481	1.469	1.468	1.47	1.468										1.476132	1.18	0.012	1
n-Decane	1.167	1.204	1.061	1.108	1.132	1.001	0.967	0.941	0.925										1.056357	9.7	0.097	1
1,3-Dichlorobenzene	1.571	1.78	1.664	1.669	1.659	1.625	1.612	1.673	1.672										1.658414	3.45	0.035	1
1,4-Dichlorobenzene	1.775	1.721	1.674	1.687	1.708	1.684	1.649	1.701	1.678										1.697583	2.12	0.021	1
Benzyl Alcohol	1.264	1.368	1.237	1.34	1.421	1.343	1.336	1.396	1.336										1.337978	4.33	0.043	1
1,2-Dichlorobenzene	1.607	1.657	1.589	1.595	1.567	1.571	1.551	1.587	1.576										1.588679	1.91	0.019	1
bis(2-Chloroisopropyl)ether	0.474	0.47	0.469	0.472	0.481	0.46	0.441	0.449	0.455										0.46346	2.83	0.028	1
2-Methylphenol	1.126	1.301	1.297	1.328	1.299	1.283	1.24	1.28	1.267										1.269117	4.64	0.046	1
Hexachloroethane	0.616	0.787	0.749	0.766	0.777	0.758	0.756	0.772	0.745										0.747519	6.85	0.068	1
N-Nitrosodi-n-propylamine	1.012	1.129	1.089	1.108	1.115	1.07	1.043	1.063	1.074										1.077981	3.43	0.034	1
3&4-Methyl phenol	1.352	1.598	1.433	1.544	1.539	1.499	1.472	1.513	1.466										1.490602	4.78	0.048	1
Acetophenone										1.613	1.872	1.854	1.889	2.023	1.927	1.965	1.943	2.016	1.900184	6.47	0.065	1
Naphthalene-d8																						

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Environmental Science Corporation
12065 Lebanon Rd., Mt. Juliet, TN 37122

INITIAL CALIBRATION SUMMARY

Instrument ID	: BNAMS11	Review Method	: 8270C	Released By	: Chris McCord
Method	: S811J04N	Review Protocol	: SW846	Released On	: 10/4/2014 8:32:35 PM

INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- S811J04N -- ICal Updated Time: Sat Oct 04 20:15:55 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	0.336	0.393	0.391	0.395	0.416	0.405	0.411	0.4	0.402										0.39432	5.89	0.059	1
Nitrobenzene	0.327	0.403	0.396	0.412	0.406	0.399	0.402	0.397	0.403										0.393881	6.48	0.065	1
Isophorone	0.565	0.681	0.635	0.667	0.688	0.672	0.675	0.669	0.661										0.657088	5.7	0.057	1
2-Nitrophenol	0.156	0.177	0.183	0.191	0.191	0.195	0.2	0.203	0.205										0.189026	8.13	0.081	1
2,4-Dimethylphenol	0.342	0.415	0.394	0.39	0.381	0.383	0.381	0.384	0.387										0.384039	4.93	0.049	1
bis(2-Chlorethoxy)methane	0.412	0.462	0.422	0.428	0.424	0.414	0.41	0.406	0.411										0.421024	4.11	0.041	1
2,4-Dichlorophenol	0.269	0.29	0.284	0.306	0.301	0.304	0.315	0.322	0.323										0.301569	5.93	0.059	1
Benzoic Acid												0.094	0.134	0.199	0.208	0.225	0.238	0.254	0.193154	30.09	1	3
1,2,4-Trichlorobenzene	0.33	0.375	0.356	0.358	0.349	0.365	0.362	0.366	0.376										0.35961	3.88	0.039	1
Naphthalene	1.344	1.179	1.114	1.094	1.098	1.098	1.11	1.099	1.107										1.137933	7.15	0.071	1
4-Chloroaniline	0.136	0.174	0.154	0.159	0.163	0.156	0.155	0.153	0.153										0.156009	6.42	0.064	1
Hexachloro-1,3-butadiene	0.222	0.232	0.238	0.233	0.231	0.245	0.248	0.249	0.257										0.239333	4.66	0.047	1
Caprolactam										0.081	0.088	0.085	0.091	0.101	0.097	0.097	0.101	0.102	0.09376	8.24	0.082	1
4-Chloro-3-methylphenol	0.302	0.334	0.341	0.357	0.362	0.365	0.37	0.374	0.371										0.352744	6.68	0.067	1
2-Methylnaphthalene	0.778	0.811	0.804	0.807	0.805	0.826	0.833	0.835	0.834										0.814702	2.32	0.023	1
1-Methylnaphthalene	0.716	0.771	0.75	0.761	0.738	0.749	0.761	0.754	0.762										0.751458	2.16	0.022	1
1,2,4,5-Tetrachlorobenzene										0.363	0.374	0.374	0.364	0.377	0.385	0.39	0.402	0.41	0.382003	4.23	0.042	1
Acenaphthene-d10																						
Hexachlorocyclopentadiene			0.319	0.349	0.39	0.423	0.438	0.459	0.474										0.407331	14.08	0.141	1
2,4,6-Trichlorophenol	0.363	0.342	0.368	0.38	0.384	0.392	0.403	0.413	0.418										0.384821	6.4	0.064	1
2,4,5-Trichlorophenol	0.374	0.375	0.383	0.389	0.414	0.417	0.43	0.438	0.428										0.405343	6.23	0.062	1
2-Fluorobiphenyl	1.418	1.4	1.416	1.397	1.463	1.446	1.468	1.46	1.478										1.438507	2.15	0.021	1

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Environmental Science Corporation
12065 Lebanon Rd., Mt. Juliet, TN 37122

INITIAL CALIBRATION SUMMARY

Instrument ID	: BNAMS11	Review Method	: 8270C	Released By	: Chris McCord
Method	: S811J04N	Review Protocol	: SW846	Released On	: 10/4/2014 8:32:35 PM

INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- S811J04N -- ICal Updated Time: Sat Oct 04 20:15:55 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	1.501	1.582	1.619	1.586	1.631	1.617	1.64	1.632	1.624										1.603536	2.7	0.027	1
2-Chloronaphthalene	1.223	1.249	1.223	1.222	1.214	1.23	1.22	1.231	1.211										1.224788	0.92	0.009	1
2-Nitroaniline			0.326	0.378	0.4	0.409	0.412	0.423	0.416										0.394898	8.53	0.085	1
Acenaphthylene	1.87	1.882	1.939	1.957	1.995	2.033	2.006	1.995	1.998										1.963875	2.89	0.029	1
Dimethyl phthalate	1.228	1.333	1.359	1.327	1.399	1.434	1.433	1.426	1.442										1.375591	5.16	0.052	1
2,6-Dinitrotoluene		0.269	0.296	0.308	0.326	0.325	0.329	0.333	0.332										0.314906	7.15	0.072	1
3-Nitroaniline		0.309	0.338	0.342	0.358	0.369	0.364	0.367	0.365										0.351592	5.91	0.059	1
Acenaphthene	1.408	1.272	1.298	1.32	1.337	1.328	1.325	1.331	1.334										1.328109	2.73	0.027	1
2,4-Dinitrophenol			0.111	0.142	0.183	0.205	0.222	0.23	0.234										0.189665	24.87	0.997	0
Dibenzofuran	1.824	1.875	1.81	1.751	1.813	1.79	1.821	1.814	1.848										1.816161	1.9	0.019	1
2,4-Dinitrotoluene			0.371	0.394	0.432	0.45	0.454	0.462	0.46										0.43188	8.27	0.083	1
2,3,4,6-Tetrachlorophenol												0.239	0.244	0.291	0.289	0.308	0.302	0.319	0.284487	10.95	0.11	1
4-Nitrophenol			0.236	0.255	0.289	0.294	0.297	0.302	0.304										0.282413	9.28	0.093	1
Fluorene	1.504	1.491	1.507	1.467	1.508	1.534	1.552	1.579	1.584										1.524978	2.63	0.026	1
4-Chlorophenyl-phenylether	0.769	0.776	0.713	0.717	0.737	0.767	0.781	0.811	0.82										0.765725	4.91	0.049	1
Diethyl phthalate	1.31	1.43	1.44	1.454	1.588	1.619	1.603	1.607	1.621										1.519097	7.43	0.074	1
4-Nitroaniline		0.301	0.321	0.334	0.349	0.361	0.365	0.367	0.367										0.345584	7.2	0.072	1
Azobenzene	1.338	1.544	1.531	1.595	1.678	1.615	1.659	1.667	1.686										1.590273	6.94	0.069	1
Atrazine												0.323	0.344	0.393	0.407	0.423	0.414	0.427	0.39018	10.42	0.104	1
Phenanthrene-d10																						
4,6-Dinitro-2-methylphenol			0.104	0.12	0.135	0.139	0.141	0.149	0.153										0.134374	12.86	0.129	1
N-Nitrosodiphenylamine	0.644	0.682	0.646	0.639	0.639	0.675	0.666	0.677	0.694										0.662707	3.17	0.032	1

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Environmental Science Corporation
12065 Lebanon Rd., Mt. Juliet, TN 37122

INITIAL CALIBRATION SUMMARY

Instrument ID	: BNAMS11	Review Method	: 8270C	Released By	: Chris McCord
Method	: S811J04N	Review Protocol	: SW846	Released On	: 10/4/2014 8:32:35 PM

INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- S811J04N -- ICal Updated Time: Sat Oct 04 20:15:55 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		0.092	0.097	0.098	0.1	0.11	0.113	0.121	0.128										0.107443	11.8	0.118	1
4-Bromophenyl-phenylether	0.198	0.208	0.205	0.211	0.211	0.229	0.229	0.237	0.25										0.219874	7.91	0.079	1
Hexachlorobenzene	0.224	0.239	0.234	0.233	0.227	0.25	0.249	0.262	0.272										0.243254	6.62	0.066	1
n-octadecane	0.171	0.176	0.148	0.164	0.178	0.162	0.159	0.155	0.155										0.163008	6.21	0.062	1
Pentachlorophenol	0.07	0.091	0.102	0.114	0.131	0.146	0.15	0.159	0.155										0.124098	25.49	0.995	0
Phenanthrene	1.269	1.244	1.144	1.153	1.171	1.194	1.162	1.192	1.229										1.195286	3.63	0.036	1
Anthracene	1.055	1.199	1.133	1.16	1.19	1.208	1.206	1.214	1.232										1.177511	4.66	0.047	1
Carbazole	1.113	1.175	1.123	1.162	1.147	1.142	1.142	1.163	1.184										1.150055	2.03	0.02	1
Di-n-butyl phthalate	1.165	1.332	1.352	1.502	1.551	1.629	1.632	1.65	1.689										1.500241	11.94	0.119	1
2-nitrodiphenylamine											0.166	0.199	0.238	0.304	0.318	0.337	0.349	0.359	0.283613	25.76	0.997	0
Fluoranthene	1.376	1.448	1.432	1.457	1.478	1.551	1.56	1.621	1.664										1.509683	6.29	0.063	1
Chrysene-d12																						
Benzidine											0.391	0.442	0.541	0.662	0.727	0.778	0.782	0.788	0.63876	25.09	0.997	0
Pyrene	1.288	1.352	1.292	1.298	1.41	1.416	1.364	1.371	1.394										1.35386	3.7	0.037	1
p-Terphenyl-d14	0.959	0.973	0.95	0.991	1.04	1.055	1.034	1.062	1.081										1.016176	4.77	0.048	1
Benzylbutyl phthalate	0.49	0.521	0.524	0.603	0.687	0.693	0.694	0.696	0.7										0.623145	14.31	0.143	1
3,3-Dichlorobenzidine											0.416	0.424	0.436	0.47	0.487	0.508	0.505	0.526	0.47132	8.89	0.089	1
Benzo(a)anthracene	1.349	1.329	1.322	1.322	1.369	1.41	1.383	1.389	1.383										1.361649	2.39	0.024	1
Chrysene	1.201	1.244	1.197	1.224	1.242	1.26	1.249	1.263	1.27										1.238787	2.13	0.021	1
bis(2-Ethylhexyl)phthalate	1.177	0.837	0.802	0.927	1.026	1.036	1.025	1.013	1.026										0.985453	11.55	0.116	1
Di-n-octyl phthalate	1.139	1.43	1.436	1.612	1.8	1.84	1.808	1.806	1.8										1.630273	15.08	0.151	1
Perylene-d12																						

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Environmental Science Corporation
12065 Lebanon Rd., Mt. Juliet, TN 37122

INITIAL CALIBRATION SUMMARY

Instrument ID	:	BNAMS11	Review Method	:	8270C	Released By	:	Chris McCord
Method	:	S811J04N	Review Protocol	:	SW846	Released On	:	10/4/2014 8:32:35 PM

INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- S811J04N -- ICal Updated Time: Sat Oct 04 20:15:55 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(b)fluoranthene	1.229	1.339	1.274	1.263	1.242	1.27	1.295	1.351	1.322										1.287246	3.31	0.033	1
Benzo(k)fluoranthene	1.215	1.103	1.094	1.131	1.212	1.234	1.252	1.21	1.27										1.191277	5.46	0.055	1
Benzo(a)pyrene	1.131	1.183	1.142	1.168	1.22	1.265	1.277	1.28	1.28										1.216419	5.07	0.051	1
Indeno(1,2,3-cd)pyrene	1.438	1.437	1.403	1.4	1.475	1.544	1.482	1.474	1.448										1.455632	3.05	0.031	1
Dibenz(a,h)anthracene	1.229	1.223	1.194	1.187	1.253	1.331	1.288	1.28	1.263										1.249735	3.72	0.037	1
Benzo(g,h,i)perylene	1.204	1.206	1.184	1.17	1.197	1.222	1.16	1.123	1.085										1.172422	3.76	0.038	1

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Environmental Science Corporation
12065 Lebanon Rd., Mt. Juliet, TN 37122

INITIAL CALIBRATION SUMMARY

Instrument ID	: BNAMS11	Review Method	: 625	Released By	: Chris McCord
Method	: S811J04N	Review Protocol	: EPA	Released On	: 10/4/2014 8:31:54 PM

INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- S811J04N -- ICal Updated Time: Sat Oct 04 20:15:55 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	2.315	2.107	2.082	2.15	2.243	1.999	1.971	1.989	1.962										2.090828	6.02	0.06	1
N-Nitrosodimethylamine	1.271	1.393	1.292	1.355	1.521	1.227	1.253	1.27	1.239										1.313538	7.22	0.072	1
2-Fluorophenol	1.182	1.257	1.28	1.33	1.361	1.315	1.3	1.343	1.318										1.298264	4.15	0.042	1
Aniline	0.77	0.913	0.817	0.879	0.823	0.857	0.844	0.854	0.843										0.844494	4.76	0.048	1
bis(2-Chloroethyl)ether	1.173	1.182	1.118	1.157	1.155	1.074	1.038	1.03	1.01										1.10409	6.09	0.061	1
Phenol-d5	1.576	1.663	1.616	1.662	1.739	1.684	1.649	1.716	1.655										1.662095	2.94	0.029	1
Phenol	1.47	1.708	1.653	1.717	1.764	1.676	1.672	1.695	1.668										1.669388	4.89	0.049	1
Benzaldehyde												0.599	0.588	0.644	0.735	0.745	0.754	0.735	0.685862	10.63	0.106	1
2-Chlorophenol	1.465	1.507	1.456	1.501	1.481	1.469	1.468	1.47	1.468										1.476132	1.18	0.012	1
n-Decane	1.167	1.204	1.061	1.108	1.132	1.001	0.967	0.941	0.925										1.056357	9.7	0.097	1
1,3-Dichlorobenzene	1.571	1.78	1.664	1.669	1.659	1.625	1.612	1.673	1.672										1.658414	3.45	0.035	1
1,4-Dichlorobenzene	1.775	1.721	1.674	1.687	1.708	1.684	1.649	1.701	1.678										1.697583	2.12	0.021	1
Benzyl Alcohol	1.264	1.368	1.237	1.34	1.421	1.343	1.336	1.396	1.336										1.337978	4.33	0.043	1
1,2-Dichlorobenzene	1.607	1.657	1.589	1.595	1.567	1.571	1.551	1.587	1.576										1.588679	1.91	0.019	1
bis(2-Chloroisopropyl)ether	0.474	0.47	0.469	0.472	0.481	0.46	0.441	0.449	0.455										0.46346	2.83	0.028	1
2-Methylphenol	1.126	1.301	1.297	1.328	1.299	1.283	1.24	1.28	1.267										1.269117	4.64	0.046	1
Hexachloroethane	0.616	0.787	0.749	0.766	0.777	0.758	0.756	0.772	0.745										0.747519	6.85	0.068	1
N-Nitrosodi-n-propylamine	1.012	1.129	1.089	1.108	1.115	1.07	1.043	1.063	1.074										1.077981	3.43	0.034	1
3&4-Methyl phenol	1.352	1.598	1.433	1.544	1.539	1.499	1.472	1.513	1.466										1.490602	4.78	0.048	1
Acetophenone										1.613	1.872	1.854	1.889	2.023	1.927	1.965	1.943	2.016	1.900184	6.47	0.065	1
Naphthalene-d8																						

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INITIAL CALIBRATION SUMMARY

Instrument ID	: BNAMS11	Review Method	: 625	Released By	: Chris McCord
Method	: S811J04N	Review Protocol	: EPA	Released On	: 10/4/2014 8:31:54 PM

INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- S811J04N -- ICal Updated Time: Sat Oct 04 20:15:55 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	0.336	0.393	0.391	0.395	0.416	0.405	0.411	0.4	0.402										0.39432	5.89	0.059	1
Nitrobenzene	0.327	0.403	0.396	0.412	0.406	0.399	0.402	0.397	0.403										0.393881	6.48	0.065	1
Isophorone	0.565	0.681	0.635	0.667	0.688	0.672	0.675	0.669	0.661										0.657088	5.7	0.057	1
2-Nitrophenol	0.156	0.177	0.183	0.191	0.191	0.195	0.2	0.203	0.205										0.189026	8.13	0.081	1
2,4-Dimethylphenol	0.342	0.415	0.394	0.39	0.381	0.383	0.381	0.384	0.387										0.384039	4.93	0.049	1
bis(2-Chlorethoxy)methane	0.412	0.462	0.422	0.428	0.424	0.414	0.41	0.406	0.411										0.421024	4.11	0.041	1
2,4-Dichlorophenol	0.269	0.29	0.284	0.306	0.301	0.304	0.315	0.322	0.323										0.301569	5.93	0.059	1
Benzoic Acid												0.094	0.134	0.199	0.208	0.225	0.238	0.254	0.193154	30.09	1	3
1,2,4-Trichlorobenzene	0.33	0.375	0.356	0.358	0.349	0.365	0.362	0.366	0.376										0.35961	3.88	0.039	1
Naphthalene	1.344	1.179	1.114	1.094	1.098	1.098	1.11	1.099	1.107										1.137933	7.15	0.071	1
4-Chloroaniline	0.136	0.174	0.154	0.159	0.163	0.156	0.155	0.153	0.153										0.156009	6.42	0.064	1
Hexachloro-1,3-butadiene	0.222	0.232	0.238	0.233	0.231	0.245	0.248	0.249	0.257										0.239333	4.66	0.047	1
Caprolactam										0.081	0.088	0.085	0.091	0.101	0.097	0.097	0.101	0.102	0.09376	8.24	0.082	1
4-Chloro-3-methylphenol	0.302	0.334	0.341	0.357	0.362	0.365	0.37	0.374	0.371										0.352744	6.68	0.067	1
2-Methylnaphthalene	0.778	0.811	0.804	0.807	0.805	0.826	0.833	0.835	0.834										0.814702	2.32	0.023	1
1-Methylnaphthalene	0.716	0.771	0.75	0.761	0.738	0.749	0.761	0.754	0.762										0.751458	2.16	0.022	1
1,2,4,5-Tetrachlorobenzene										0.363	0.374	0.374	0.364	0.377	0.385	0.39	0.402	0.41	0.382003	4.23	0.042	1
Acenaphthene-d10																						
Hexachlorocyclopentadiene			0.319	0.349	0.39	0.423	0.438	0.459	0.474										0.407331	14.08	0.141	1
2,4,6-Trichlorophenol	0.363	0.342	0.368	0.38	0.384	0.392	0.403	0.413	0.418										0.384821	6.4	0.064	1
2,4,5-Trichlorophenol	0.374	0.375	0.383	0.389	0.414	0.417	0.43	0.438	0.428										0.405343	6.23	0.062	1
2-Fluorobiphenyl	1.418	1.4	1.416	1.397	1.463	1.446	1.468	1.46	1.478										1.438507	2.15	0.021	1

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12065 Lebanon Rd., Mt. Juliet, TN 37122

INITIAL CALIBRATION SUMMARY

Instrument ID	: BNAMS11	Review Method	: 625	Released By	: Chris McCord
Method	: S811J04N	Review Protocol	: EPA	Released On	: 10/4/2014 8:31:54 PM

INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- S811J04N -- ICal Updated Time: Sat Oct 04 20:15:55 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	1.501	1.582	1.619	1.586	1.631	1.617	1.64	1.632	1.624										1.603536	2.7	0.027	1
-Chloronaphthalene	1.223	1.249	1.223	1.222	1.214	1.23	1.22	1.231	1.211										1.224788	0.92	0.009	1
-Nitroaniline			0.326	0.378	0.4	0.409	0.412	0.423	0.416										0.394898	8.53	0.085	1
Acenaphthylene	1.87	1.882	1.939	1.957	1.995	2.033	2.006	1.995	1.998										1.963875	2.89	0.029	1
Dimethyl phthalate	1.228	1.333	1.359	1.327	1.399	1.434	1.433	1.426	1.442										1.375591	5.16	0.052	1
,6-Dinitrotoluene		0.269	0.296	0.308	0.326	0.325	0.329	0.333	0.332										0.314906	7.15	0.072	1
-Nitroaniline		0.309	0.338	0.342	0.358	0.369	0.364	0.367	0.365										0.351592	5.91	0.059	1
Acenaphthene	1.408	1.272	1.298	1.32	1.337	1.328	1.325	1.331	1.334										1.328109	2.73	0.027	1
2,4-Dinitrophenol			0.111	0.142	0.183	0.205	0.222	0.23	0.234										0.189665	24.87	0.997	0
Dibenzofuran	1.824	1.875	1.81	1.751	1.813	1.79	1.821	1.814	1.848										1.816161	1.9	0.019	1
2,4-Dinitrotoluene			0.371	0.394	0.432	0.45	0.454	0.462	0.46										0.43188	8.27	0.083	1
2,3,4,6-Tetrachlorophenol												0.239	0.244	0.291	0.289	0.308	0.302	0.319	0.284487	10.95	0.11	1
4-Nitrophenol			0.236	0.255	0.289	0.294	0.297	0.302	0.304										0.282413	9.28	0.093	1
Fluorene	1.504	1.491	1.507	1.467	1.508	1.534	1.552	1.579	1.584										1.524978	2.63	0.026	1
4-Chlorophenyl-phenylether	0.769	0.776	0.713	0.717	0.737	0.767	0.781	0.811	0.82										0.765725	4.91	0.049	1
Diethyl phthalate	1.31	1.43	1.44	1.454	1.588	1.619	1.603	1.607	1.621										1.519097	7.43	0.074	1
4-Nitroaniline		0.301	0.321	0.334	0.349	0.361	0.365	0.367	0.367										0.345584	7.2	0.072	1
Azobenzene	1.338	1.544	1.531	1.595	1.678	1.615	1.659	1.667	1.686										1.590273	6.94	0.069	1
Atrazine												0.323	0.344	0.393	0.407	0.423	0.414	0.427	0.39018	10.42	0.104	1
Phenanthrene-d10																						
,6-Dinitro-2-methylphenol			0.104	0.12	0.135	0.139	0.141	0.149	0.153										0.134374	12.86	0.129	1
-Nitrosodiphenylamine	0.644	0.682	0.646	0.639	0.639	0.675	0.666	0.677	0.694										0.662707	3.17	0.032	1

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Environmental Science Corporation
12065 Lebanon Rd., Mt. Juliet, TN 37122

INITIAL CALIBRATION SUMMARY

Instrument ID	: BNAMS11	Review Method	: 625	Released By	: Chris McCord
Method	: S811J04N	Review Protocol	: EPA	Released On	: 10/4/2014 8:31:54 PM

INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- S811J04N -- ICal Updated Time: Sat Oct 04 20:15:55 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		0.092	0.097	0.098	0.1	0.11	0.113	0.121	0.128										0.107443	11.8	0.118	1
4-Bromophenyl-phenylether	0.198	0.208	0.205	0.211	0.211	0.229	0.229	0.237	0.25										0.219874	7.91	0.079	1
Hexachlorobenzene	0.224	0.239	0.234	0.233	0.227	0.25	0.249	0.262	0.272										0.243254	6.62	0.066	1
n-octadecane	0.171	0.176	0.148	0.164	0.178	0.162	0.159	0.155	0.155										0.163008	6.21	0.062	1
Pentachlorophenol	0.07	0.091	0.102	0.114	0.131	0.146	0.15	0.159	0.155										0.124098	25.49	0.995	0
Phenanthrene	1.269	1.244	1.144	1.153	1.171	1.194	1.162	1.192	1.229										1.195286	3.63	0.036	1
Anthracene	1.055	1.199	1.133	1.16	1.19	1.208	1.206	1.214	1.232										1.177511	4.66	0.047	1
Carbazole	1.113	1.175	1.123	1.162	1.147	1.142	1.142	1.163	1.184										1.150055	2.03	0.02	1
Di-n-butyl phthalate	1.165	1.332	1.352	1.502	1.551	1.629	1.632	1.65	1.689										1.500241	11.94	0.119	1
2-nitrodiphenylamine											0.166	0.199	0.238	0.304	0.318	0.337	0.349	0.359	0.283613	25.76	0.997	0
Fluoranthene	1.376	1.448	1.432	1.457	1.478	1.551	1.56	1.621	1.664										1.509683	6.29	0.063	1
Chrysene-d12																						
Benzidine											0.391	0.442	0.541	0.662	0.727	0.778	0.782	0.788	0.63876	25.09	0.997	0
Pyrene	1.288	1.352	1.292	1.298	1.41	1.416	1.364	1.371	1.394										1.35386	3.7	0.037	1
p-Terphenyl-d14	0.959	0.973	0.95	0.991	1.04	1.055	1.034	1.062	1.081										1.016176	4.77	0.048	1
Benzylbutyl phthalate	0.49	0.521	0.524	0.603	0.687	0.693	0.694	0.696	0.7										0.623145	14.31	0.143	1
3,3-Dichlorobenzidine											0.416	0.424	0.436	0.47	0.487	0.508	0.505	0.526	0.47132	8.89	0.089	1
Benzo(a)anthracene	1.349	1.329	1.322	1.322	1.369	1.41	1.383	1.389	1.383										1.361649	2.39	0.024	1
Chrysene	1.201	1.244	1.197	1.224	1.242	1.26	1.249	1.263	1.27										1.238787	2.13	0.021	1
bis(2-Ethylhexyl)phthalate	1.177	0.837	0.802	0.927	1.026	1.036	1.025	1.013	1.026										0.985453	11.55	0.116	1
Di-n-octyl phthalate	1.139	1.43	1.436	1.612	1.8	1.84	1.808	1.806	1.8										1.630273	15.08	0.151	1
Perylene-d12																						

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Environmental Science Corporation
12065 Lebanon Rd., Mt. Juliet, TN 37122

INITIAL CALIBRATION SUMMARY

Instrument ID	:	BNAMS11	Review Method	:	625	Released By	:	Chris McCord
Method	:	S811J04N	Review Protocol	:	EPA	Released On	:	10/4/2014 8:31:54 PM

INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- S811J04N -- ICal Updated Time: Sat Oct 04 20:15:55 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(b)fluoranthene	1.229	1.339	1.274	1.263	1.242	1.27	1.295	1.351	1.322										1.287246	3.31	0.033	1
Benzo(k)fluoranthene	1.215	1.103	1.094	1.131	1.212	1.234	1.252	1.21	1.27										1.191277	5.46	0.055	1
Benzo(a)pyrene	1.131	1.183	1.142	1.168	1.22	1.265	1.277	1.28	1.28										1.216419	5.07	0.051	1
Indeno(1,2,3-cd)pyrene	1.438	1.437	1.403	1.4	1.475	1.544	1.482	1.474	1.448										1.455632	3.05	0.031	1
Dibenz(a,h)anthracene	1.229	1.223	1.194	1.187	1.253	1.331	1.288	1.28	1.263										1.249735	3.72	0.037	1
Benzo(g,h,i)perylene	1.204	1.206	1.184	1.17	1.197	1.222	1.16	1.123	1.085										1.172422	3.76	0.038	1

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Environmental Science Corporation
12065 Lebanon Rd., Mt. Juliet, TN 37122

INITIAL CALIBRATION SUMMARY

Instrument ID	: BNAMS11	Review Method	: 8270D	Released By	: Chris McCord
Method	: S811J04N	Review Protocol	: SW846	Released On	: 10/4/2014 8:32:15 PM

INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- S811J04N -- ICal Updated Time: Sat Oct 04 20:15:55 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	2.315	2.107	2.082	2.15	2.243	1.999	1.971	1.989	1.962										2.090828	6.02	0.06	1	
N-Nitrosodimethylamine	1.271	1.393	1.292	1.355	1.521	1.227	1.253	1.27	1.239										1.313538	7.22	0.072	1	
2-Fluorophenol	1.182	1.257	1.28	1.33	1.361	1.315	1.3	1.343	1.318										1.298264	4.15	0.042	1	
Aniline	0.77	0.913	0.817	0.879	0.823	0.857	0.844	0.854	0.843										0.844494	4.76	0.048	1	
bis(2-Chloroethyl)ether	1.173	1.182	1.118	1.157	1.155	1.074	1.038	1.03	1.01										1.10409	6.09	0.061	1	0.7
Phenol-d5	1.576	1.663	1.616	1.662	1.739	1.684	1.649	1.716	1.655										1.662095	2.94	0.029	1	
Phenol	1.47	1.708	1.653	1.717	1.764	1.676	1.672	1.695	1.668										1.669388	4.89	0.049	1	0.8
Benzaldehyde												0.599	0.588	0.644	0.735	0.745	0.754	0.735	0.685862	10.63	0.106	1	0.01
2-Chlorophenol	1.465	1.507	1.456	1.501	1.481	1.469	1.468	1.47	1.468										1.476132	1.18	0.012	1	0.8
n-Decane	1.167	1.204	1.061	1.108	1.132	1.001	0.967	0.941	0.925										1.056357	9.7	0.097	1	
1,3-Dichlorobenzene	1.571	1.78	1.664	1.669	1.659	1.625	1.612	1.673	1.672										1.658414	3.45	0.035	1	
1,4-Dichlorobenzene	1.775	1.721	1.674	1.687	1.708	1.684	1.649	1.701	1.678										1.697583	2.12	0.021	1	
Benzyl Alcohol	1.264	1.368	1.237	1.34	1.421	1.343	1.336	1.396	1.336										1.337978	4.33	0.043	1	
1,2-Dichlorobenzene	1.607	1.657	1.589	1.595	1.567	1.571	1.551	1.587	1.576										1.588679	1.91	0.019	1	
bis(2-Chloroisopropyl)ether	0.474	0.47	0.469	0.472	0.481	0.46	0.441	0.449	0.455										0.46346	2.83	0.028	1	
2-Methylphenol	1.126	1.301	1.297	1.328	1.299	1.283	1.24	1.28	1.267										1.269117	4.64	0.046	1	0.7
Hexachloroethane	0.616	0.787	0.749	0.766	0.777	0.758	0.756	0.772	0.745										0.747519	6.85	0.068	1	0.3
N-Nitrosodi-n-propylamine	1.012	1.129	1.089	1.108	1.115	1.07	1.043	1.063	1.074										1.077981	3.43	0.034	1	0.5
3&4-Methyl phenol	1.352	1.598	1.433	1.544	1.539	1.499	1.472	1.513	1.466										1.490602	4.78	0.048	1	0.6
Acetophenone										1.613	1.872	1.854	1.889	2.023	1.927	1.965	1.943	2.016	1.900184	6.47	0.065	1	0.01
Naphthalene-d8																							

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12065 Lebanon Rd., Mt. Juliet, TN 37122

INITIAL CALIBRATION SUMMARY

Instrument ID	: BNAMS11	Review Method	: 8270D	Released By	: Chris McCord
Method	: S811J04N	Review Protocol	: SW846	Released On	: 10/4/2014 8:32:15 PM

INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- S811J04N -- ICal Updated Time: Sat Oct 04 20:15:55 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	0.336	0.393	0.391	0.395	0.416	0.405	0.411	0.4	0.402										0.39432	5.89	0.059	1	
Nitrobenzene	0.327	0.403	0.396	0.412	0.406	0.399	0.402	0.397	0.403										0.393881	6.48	0.065	1	0.2
Isophorone	0.565	0.681	0.635	0.667	0.688	0.672	0.675	0.669	0.661										0.657088	5.7	0.057	1	0.4
2-Nitrophenol	0.156	0.177	0.183	0.191	0.191	0.195	0.2	0.203	0.205										0.189026	8.13	0.081	1	0.1
2,4-Dimethylphenol	0.342	0.415	0.394	0.39	0.381	0.383	0.381	0.384	0.387										0.384039	4.93	0.049	1	0.2
bis(2-Chlorethoxy)methane	0.412	0.462	0.422	0.428	0.424	0.414	0.41	0.406	0.411										0.421024	4.11	0.041	1	0.3
2,4-Dichlorophenol	0.269	0.29	0.284	0.306	0.301	0.304	0.315	0.322	0.323										0.301569	5.93	0.059	1	0.2
Benzoic Acid												0.094	0.134	0.199	0.208	0.225	0.238	0.254	0.193154	30.09	1	3	
1,2,4-Trichlorobenzene	0.33	0.375	0.356	0.358	0.349	0.365	0.362	0.366	0.376										0.35961	3.88	0.039	1	
Naphthalene	1.344	1.179	1.114	1.094	1.098	1.098	1.11	1.099	1.107										1.137933	7.15	0.071	1	0.7
4-Chloroaniline	0.136	0.174	0.154	0.159	0.163	0.156	0.155	0.153	0.153										0.156009	6.42	0.064	1	0.01
Hexachloro-1,3-butadiene	0.222	0.232	0.238	0.233	0.231	0.245	0.248	0.249	0.257										0.239333	4.66	0.047	1	0.01
Caprolactam										0.081	0.088	0.085	0.091	0.101	0.097	0.097	0.101	0.102	0.09376	8.24	0.082	1	0.01
4-Chloro-3-methylphenol	0.302	0.334	0.341	0.357	0.362	0.365	0.37	0.374	0.371										0.352744	6.68	0.067	1	0.2
2-Methylnaphthalene	0.778	0.811	0.804	0.807	0.805	0.826	0.833	0.835	0.834										0.814702	2.32	0.023	1	0.4
1-Methylnaphthalene	0.716	0.771	0.75	0.761	0.738	0.749	0.761	0.754	0.762										0.751458	2.16	0.022	1	
1,2,4,5-Tetrachlorobenzene										0.363	0.374	0.374	0.364	0.377	0.385	0.39	0.402	0.41	0.382003	4.23	0.042	1	0.01
Acenaphthene-d10																							
Hexachlorocyclopentadiene			0.319	0.349	0.39	0.423	0.438	0.459	0.474										0.407331	14.08	0.141	1	0.05
2,4,6-Trichlorophenol	0.363	0.342	0.368	0.38	0.384	0.392	0.403	0.413	0.418										0.384821	6.4	0.064	1	0.2
2,4,5-Trichlorophenol	0.374	0.375	0.383	0.389	0.414	0.417	0.43	0.438	0.428										0.405343	6.23	0.062	1	0.2
2-Fluorobiphenyl	1.418	1.4	1.416	1.397	1.463	1.446	1.468	1.46	1.478										1.438507	2.15	0.021	1	

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Environmental Science Corporation
12065 Lebanon Rd., Mt. Juliet, TN 37122

INITIAL CALIBRATION SUMMARY

Instrument ID	: BNAMS11	Review Method	: 8270D	Released By	: Chris McCord
Method	: S811J04N	Review Protocol	: SW846	Released On	: 10/4/2014 8:32:15 PM

INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- S811J04N -- ICal Updated Time: Sat Oct 04 20:15:55 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	1.501	1.582	1.619	1.586	1.631	1.617	1.64	1.632	1.624										1.603536	2.7	0.027	1	0.01
-Chloronaphthalene	1.223	1.249	1.223	1.222	1.214	1.23	1.22	1.231	1.211										1.224788	0.92	0.009	1	0.8
-Nitroaniline			0.326	0.378	0.4	0.409	0.412	0.423	0.416										0.394898	8.53	0.085	1	0.01
Acenaphthylene	1.87	1.882	1.939	1.957	1.995	2.033	2.006	1.995	1.998										1.963875	2.89	0.029	1	0.9
Dimethyl phthalate	1.228	1.333	1.359	1.327	1.399	1.434	1.433	1.426	1.442										1.375591	5.16	0.052	1	0.01
,6-Dinitrotoluene		0.269	0.296	0.308	0.326	0.325	0.329	0.333	0.332										0.314906	7.15	0.072	1	0.2
-Nitroaniline		0.309	0.338	0.342	0.358	0.369	0.364	0.367	0.365										0.351592	5.91	0.059	1	0.01
Acenaphthene	1.408	1.272	1.298	1.32	1.337	1.328	1.325	1.331	1.334										1.328109	2.73	0.027	1	0.9
2,4-Dinitrophenol			0.111	0.142	0.183	0.205	0.222	0.23	0.234										0.189665	24.87	0.997	0	0.01
Dibenzofuran	1.824	1.875	1.81	1.751	1.813	1.79	1.821	1.814	1.848										1.816161	1.9	0.019	1	0.8
2,4-Dinitrotoluene			0.371	0.394	0.432	0.45	0.454	0.462	0.46										0.43188	8.27	0.083	1	0.2
2,3,4,6-Tetrachlorophenol												0.239	0.244	0.291	0.289	0.308	0.302	0.319	0.284487	10.95	0.11	1	0.01
4-Nitrophenol			0.236	0.255	0.289	0.294	0.297	0.302	0.304										0.282413	9.28	0.093	1	0.01
Fluorene	1.504	1.491	1.507	1.467	1.508	1.534	1.552	1.579	1.584										1.524978	2.63	0.026	1	0.9
4-Chlorophenyl-phenylether	0.769	0.776	0.713	0.717	0.737	0.767	0.781	0.811	0.82										0.765725	4.91	0.049	1	0.4
Diethyl phthalate	1.31	1.43	1.44	1.454	1.588	1.619	1.603	1.607	1.621										1.519097	7.43	0.074	1	0.01
4-Nitroaniline		0.301	0.321	0.334	0.349	0.361	0.365	0.367	0.367										0.345584	7.2	0.072	1	0.01
Azobenzene	1.338	1.544	1.531	1.595	1.678	1.615	1.659	1.667	1.686										1.590273	6.94	0.069	1	
Atrazine												0.323	0.344	0.393	0.407	0.423	0.414	0.427	0.39018	10.42	0.104	1	0.01
Phenanthrene-d10																							
,6-Dinitro-2-methylphenol			0.104	0.12	0.135	0.139	0.141	0.149	0.153										0.134374	12.86	0.129	1	0.01
-Nitrosodiphenylamine	0.644	0.682	0.646	0.639	0.639	0.675	0.666	0.677	0.694										0.662707	3.17	0.032	1	0.01

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Environmental Science Corporation
12065 Lebanon Rd., Mt. Juliet, TN 37122

INITIAL CALIBRATION SUMMARY

Instrument ID	: BNAMS11	Review Method	: 8270D	Released By	: Chris McCord
Method	: S811J04N	Review Protocol	: SW846	Released On	: 10/4/2014 8:32:15 PM

INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- S811J04N -- ICal Updated Time: Sat Oct 04 20:15:55 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		0.092	0.097	0.098	0.1	0.11	0.113	0.121	0.128										0.107443	11.8	0.118	1	
4-Bromophenyl-phenylether	0.198	0.208	0.205	0.211	0.211	0.229	0.229	0.237	0.25										0.219874	7.91	0.079	1	0.1
Hexachlorobenzene	0.224	0.239	0.234	0.233	0.227	0.25	0.249	0.262	0.272										0.243254	6.62	0.066	1	0.1
n-octadecane	0.171	0.176	0.148	0.164	0.178	0.162	0.159	0.155	0.155										0.163008	6.21	0.062	1	
Pentachlorophenol	0.07	0.091	0.102	0.114	0.131	0.146	0.15	0.159	0.155										0.124098	25.49	0.995	0	0.05
Phenanthrene	1.269	1.244	1.144	1.153	1.171	1.194	1.162	1.192	1.229										1.195286	3.63	0.036	1	0.7
Anthracene	1.055	1.199	1.133	1.16	1.19	1.208	1.206	1.214	1.232										1.177511	4.66	0.047	1	0.7
Carbazole	1.113	1.175	1.123	1.162	1.147	1.142	1.142	1.163	1.184										1.150055	2.03	0.02	1	0.01
Di-n-butyl phthalate	1.165	1.332	1.352	1.502	1.551	1.629	1.632	1.65	1.689										1.500241	11.94	0.119	1	0.01
2-nitrodiphenylamine											0.166	0.199	0.238	0.304	0.318	0.337	0.349	0.359	0.283613	25.76	0.997	0	
Fluoranthene	1.376	1.448	1.432	1.457	1.478	1.551	1.56	1.621	1.664										1.509683	6.29	0.063	1	0.6
Chrysene-d12																							
Benzidine											0.391	0.442	0.541	0.662	0.727	0.778	0.782	0.788	0.63876	25.09	0.997	0	
Pyrene	1.288	1.352	1.292	1.298	1.41	1.416	1.364	1.371	1.394										1.35386	3.7	0.037	1	0.6
p-Terphenyl-d14	0.959	0.973	0.95	0.991	1.04	1.055	1.034	1.062	1.081										1.016176	4.77	0.048	1	
Benzylbutyl phthalate	0.49	0.521	0.524	0.603	0.687	0.693	0.694	0.696	0.7										0.623145	14.31	0.143	1	0.01
3,3-Dichlorobenzidine											0.416	0.424	0.436	0.47	0.487	0.508	0.505	0.526	0.47132	8.89	0.089	1	0.01
Benzo(a)anthracene	1.349	1.329	1.322	1.322	1.369	1.41	1.383	1.389	1.383										1.361649	2.39	0.024	1	0.8
Chrysene	1.201	1.244	1.197	1.224	1.242	1.26	1.249	1.263	1.27										1.238787	2.13	0.021	1	0.7
bis(2-Ethylhexyl)phthalate	1.177	0.837	0.802	0.927	1.026	1.036	1.025	1.013	1.026										0.985453	11.55	0.116	1	0.01
Di-n-octyl phthalate	1.139	1.43	1.436	1.612	1.8	1.84	1.808	1.806	1.8										1.630273	15.08	0.151	1	0.01
Perylene-d12																							

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Environmental Science Corporation
12065 Lebanon Rd., Mt. Juliet, TN 37122

INITIAL CALIBRATION SUMMARY

Instrument ID	:	BNAMS11	Review Method	:	8270D	Released By	:	Chris McCord
Method	:	S811J04N	Review Protocol	:	SW846	Released On	:	10/4/2014 8:32:15 PM

INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- S811J04N -- ICal Updated Time: Sat Oct 04 20:15:55 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
Benzo(b)fluoranthene	1.229	1.339	1.274	1.263	1.242	1.27	1.295	1.351	1.322										1.287246	3.31	0.033	1	0.7
Benzo(k)fluoranthene	1.215	1.103	1.094	1.131	1.212	1.234	1.252	1.21	1.27										1.191277	5.46	0.055	1	0.7
Benzo(a)pyrene	1.131	1.183	1.142	1.168	1.22	1.265	1.277	1.28	1.28										1.216419	5.07	0.051	1	0.7
Indeno(1,2,3-cd)pyrene	1.438	1.437	1.403	1.4	1.475	1.544	1.482	1.474	1.448										1.455632	3.05	0.031	1	0.5
Dibenz(a,h)anthracene	1.229	1.223	1.194	1.187	1.253	1.331	1.288	1.28	1.263										1.249735	3.72	0.037	1	0.4
Benzo(g,h,i)perylene	1.204	1.206	1.184	1.17	1.197	1.222	1.16	1.123	1.085										1.172422	3.76	0.038	1	0.5

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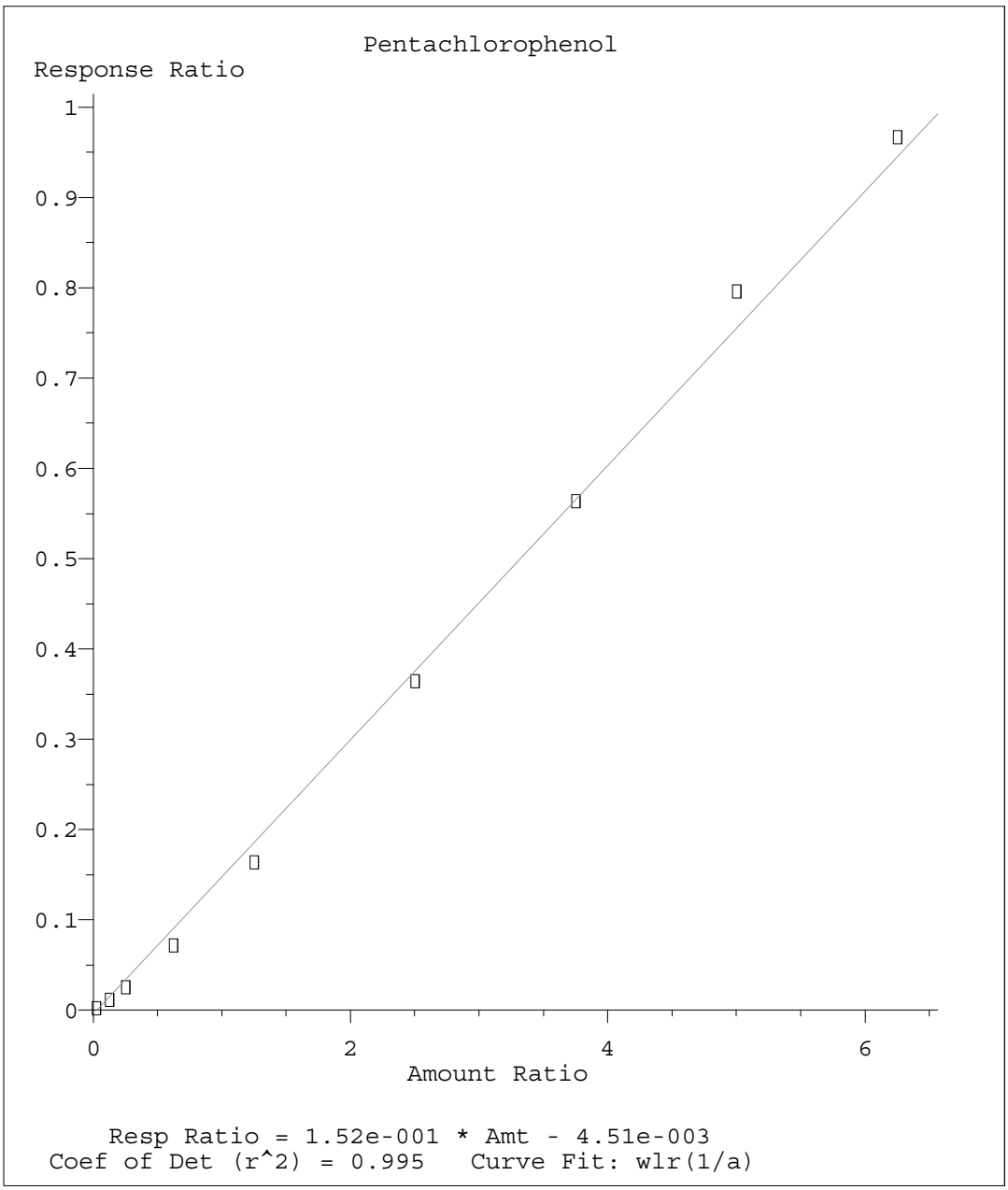
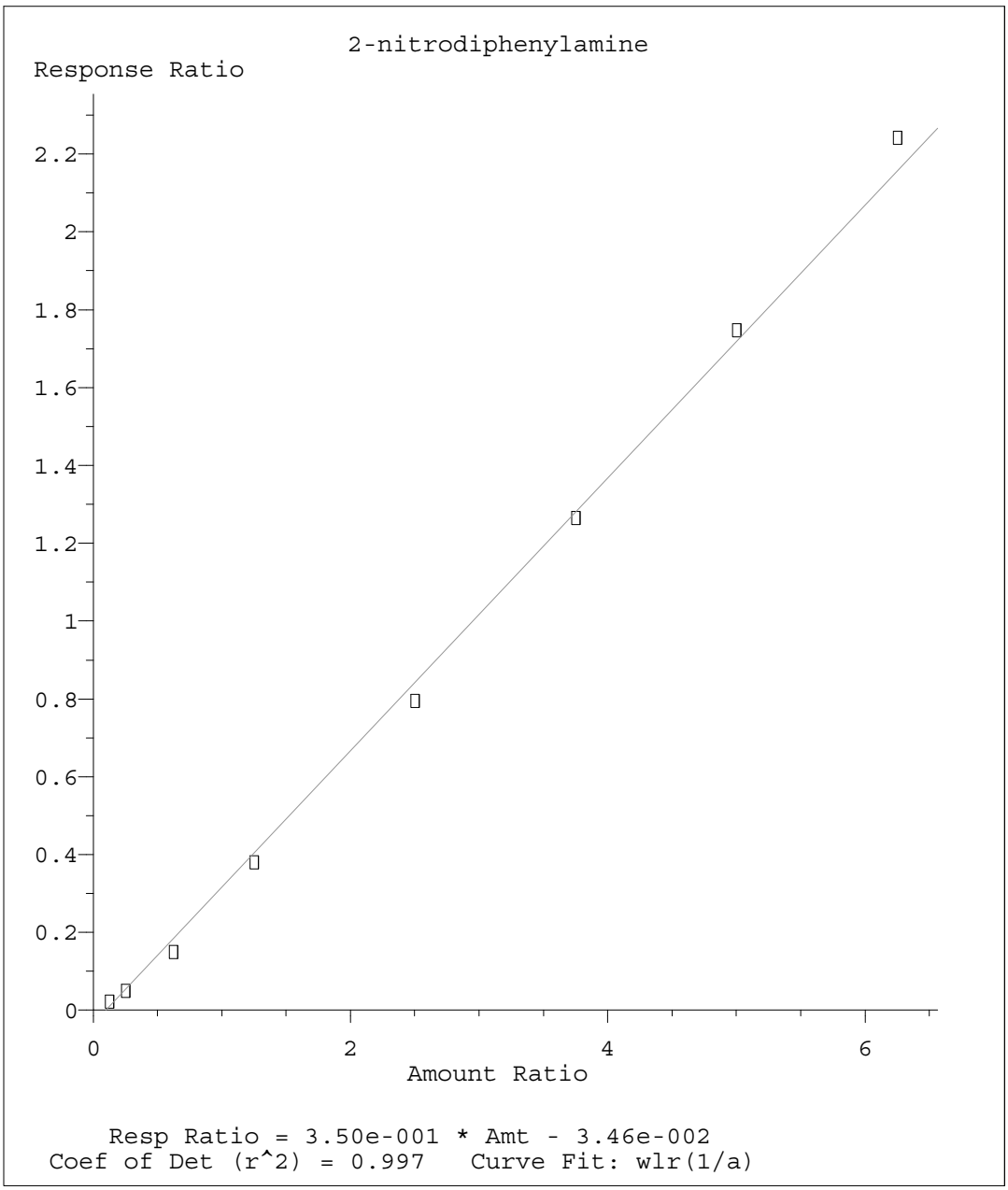
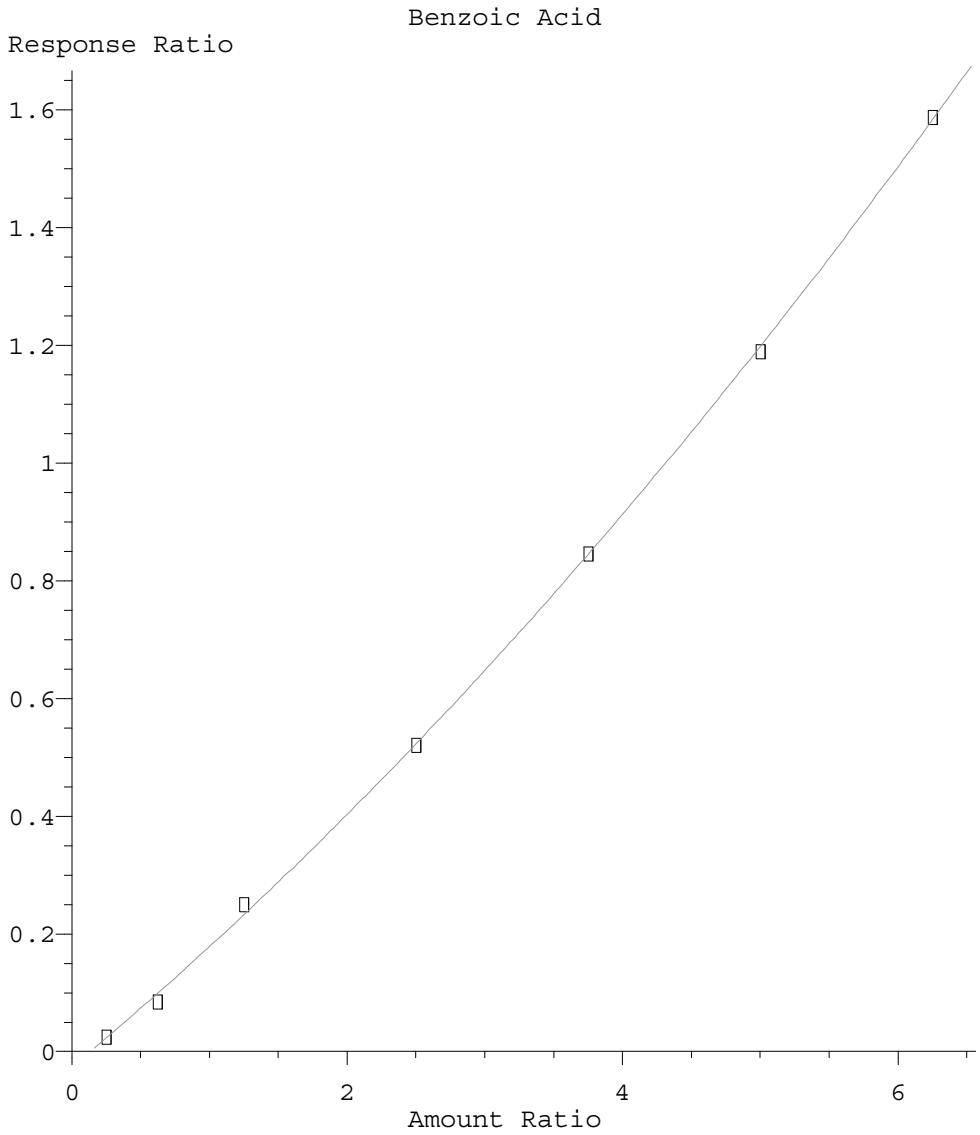


Method Name: C:\MSDCHEM\1\METHODS\S811J04N.M

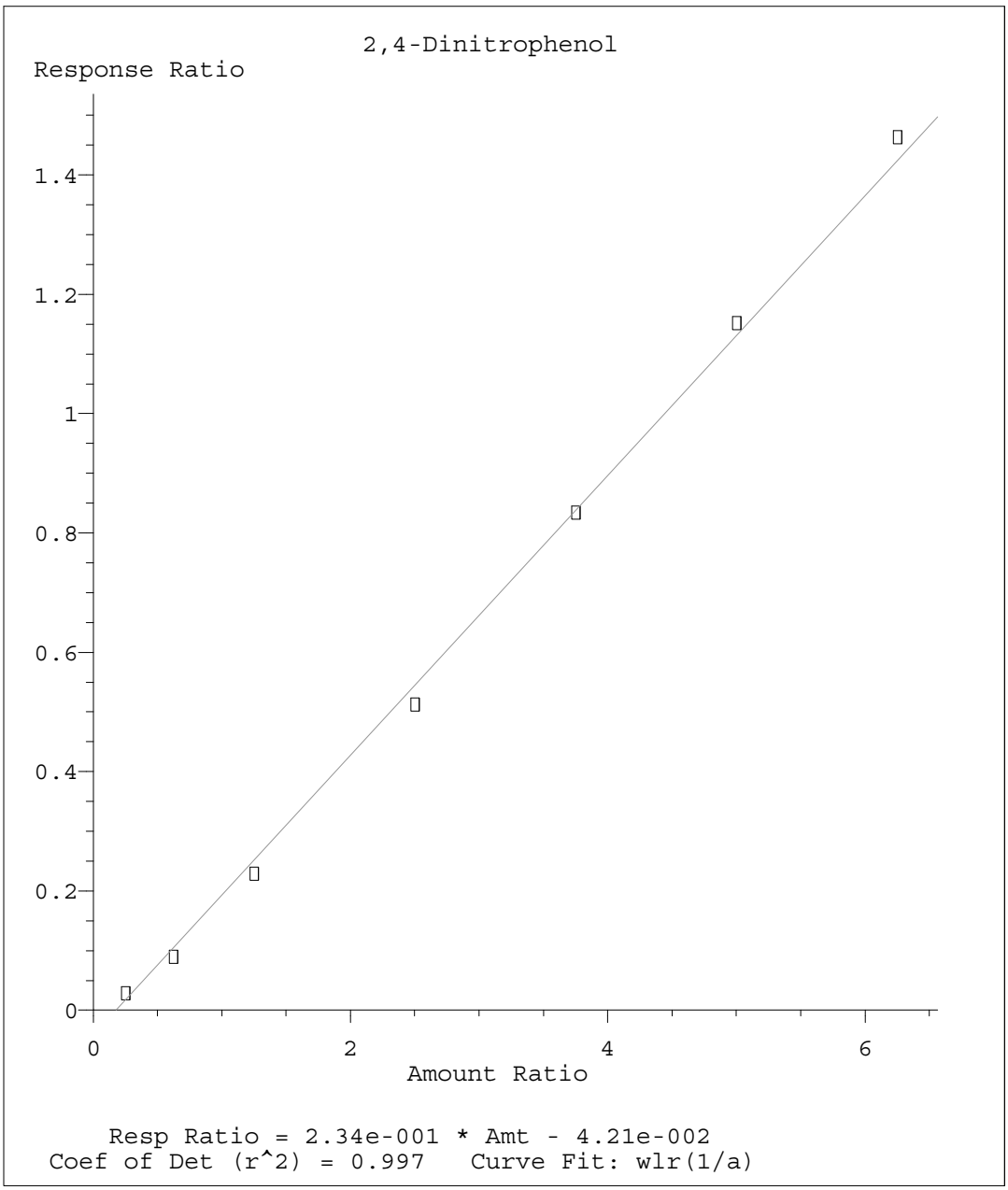


Method Name: C:\MSDCHEM\1\METHODS\S811J04N.M

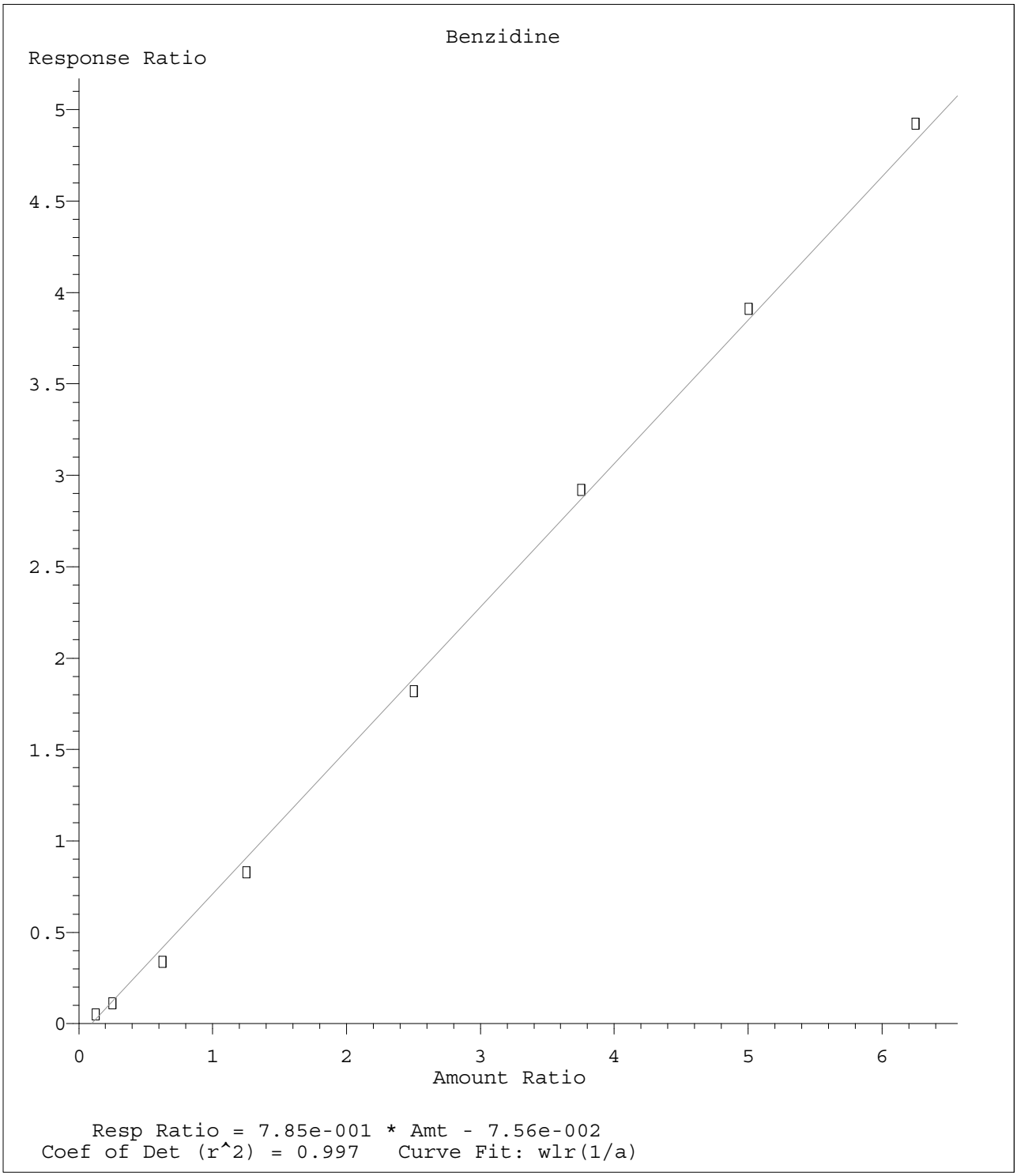


R = 1.01e-002 A*A + 1.94e-001 A - 2.73e-002
Coef of Det (r^2) = 1.000 Curve Fit: Quadratic

Method Name: C:\MSDCHEM\1\METHODS\S811J04N.M



Method Name: C:\MSDCHEM\1\METHODS\S811J04N.M



Method Name: C:\MSDCHEM\1\METHODS\S811J04N.M
Calibration Table Last Updated: Sat Oct 04 20:15:55 2014

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\100414A\1004A 02.D Vial: 100
Acq On : 4 Oct 2014 12:10 pm Operator: 280
Sample : INSTBLK SVOC Inst : BNAMS11
Misc : instrument blank Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 4 12:43 2014 Quant Results File: S811J01N.RES

Quant Method : C:\MSDCHEM\1\METHODS\S811J01N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Wed Oct 01 14:49:17 2014
Response via : Initial Calibration
DataAcq Meth : BNA11

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	0.00	152	0	0.00 ppb	-5.24
22) Naphthalene-d8	0.00	136	0	0.00 ppb	-6.48
40) Acenaphthene-d10	0.00	164	0	0.00 ppb	-8.34
64) Phenanthrene-d10	0.00	188	0	0.00 ppb	-9.95
78) Chrysene-d12	12.68	240	174	8000.00 ppb	-0.12
88) Perylene-d12	14.14	264	457	8000.00 ppb	-0.14

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	4.78	99	95	0.0000000 ppb	-0.08
Spiked Amount 20.000	Range 10 - 63		Recovery	= 0.00%#	
23) Nitrobenzene-d5	5.94	82	61	0.0000000 ppb	0.19
Spiked Amount 10.000	Range 28 - 123		Recovery	= 0.00%#	
44) 2-Fluorobiphenyl	0.00	172	0	0.0000000 ppb	
Spiked Amount 10.000	Range 35 - 133		Recovery	= 0.00%#	
67) 2,4,6-Tribromophenol	9.01	330	54	0.0000000 ppb	-0.18
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	3.23	79	114	N.D.
3) N-Nitrosodimethylamine	3.20	42	224	N.D.
5) Aniline	4.82	66	69	N.D.
6) bis(2-Chloroethyl)ether	5.07	63	59	N.D.
8) Phenol	0.00	94	0	N.D.
9) Benzaldehyde	4.78	105	877	N.D.
10) 2-Chlorophenol	0.00	128	0	N.D.
11) n-Decane	5.04	41	2168	N.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.
15) 1,2-Dichlorobenzene	5.32	146	62	N.D.
16) bis(2-Chloroisopropyl)ethe	0.00	121	0	N.D.
17) 2-Methylphenol	5.28	108	56	N.D.
18) Hexachloroethane	5.84	117	423	N.D.
19) N-Nitrosodi-n-propylamine	5.57	70	689	N.D.
20) 3&4-Methyl phenol	0.00	107	0	N.D.
21) Acetophenone	5.53	105	61	N.D.
24) Nitrobenzene	5.67	77	54	N.D.
25) Isophorone	5.94	82	61	N.D.
26) 2-Nitrophenol	5.84	139	297	N.D.
27) 2,4-Dimethylphenol	0.00	107	0	N.D.
28) bis(2-Chlorethoxy)methane	6.16	93	86	N.D.
29) 2,4-Dichlorophenol	6.24	162	58	N.D.
30) Benzoic Acid	6.05	105	59	No Quad Fit
31) 1,2,4-Trichlorobenzene	0.00	180	0	N.D.
32) Naphthalene	6.42	128	205	N.D.
33) 4-Chloroaniline	0.00	65	0	N.D.
34) Hexachloro-1,3-butadiene	0.00	225	0	N.D.
35) Caprolactam	6.92	113	151	N.D.
36) 4-Chloro-3-methylphenol	6.95	107	57	N.D.
37) 2-Methylnaphthalene	0.00	142	0	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\100414A\1004A 02.D Vial: 100
Acq On : 4 Oct 2014 12:10 pm Operator: 280
Sample : INSTBLK SVOC Inst : BNAMS11
Misc : instrument blank Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 4 12:43 2014 Quant Results File: S811J01N.RES

Quant Method : C:\MSDCHEM\1\METHODS\S811J01N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Wed Oct 01 14:49:17 2014
Response via : Initial Calibration
DataAcq Meth : BNA11

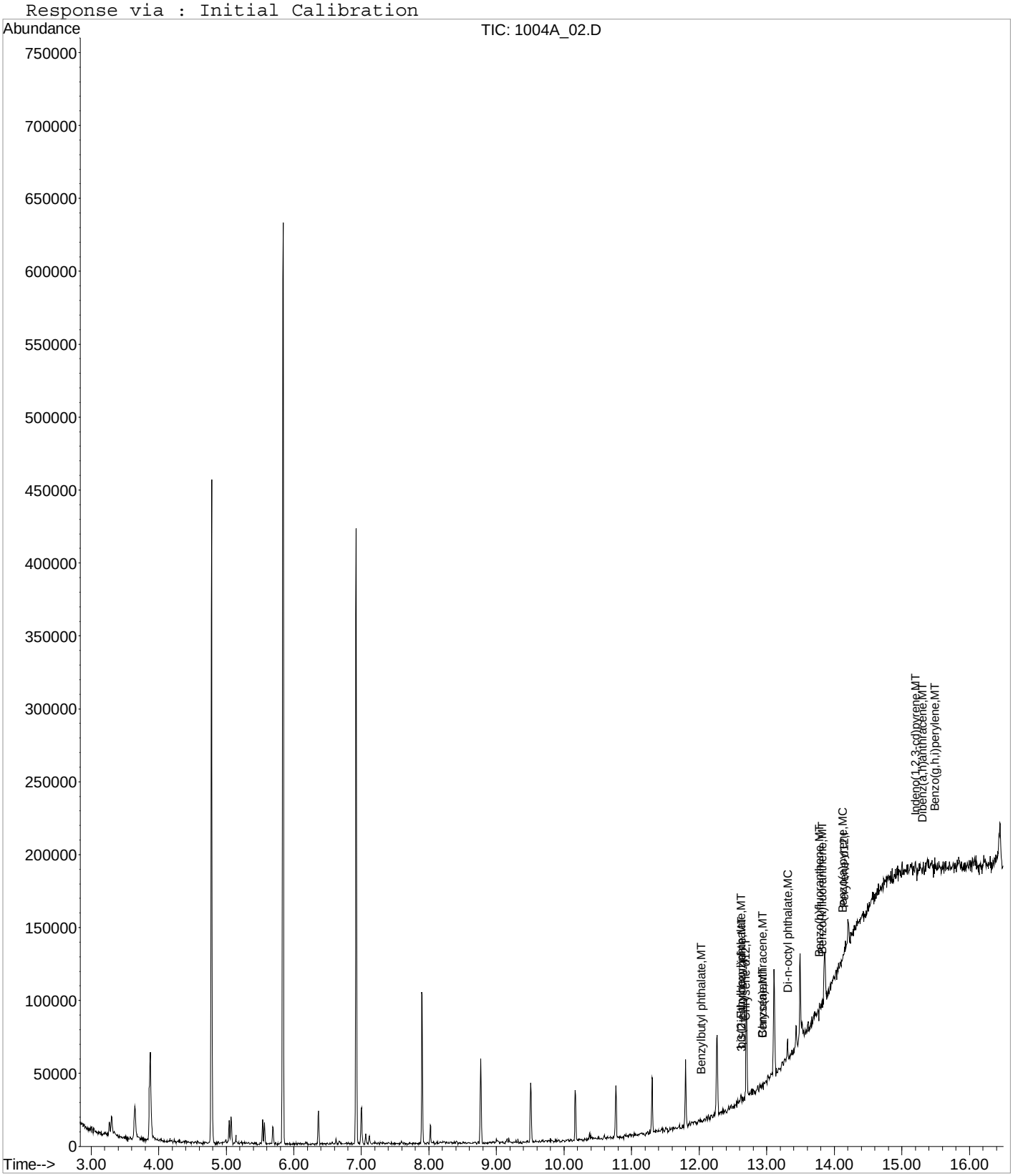
	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
39)	1,2,4,5-Tetrachlorobenzene	0.00	216	0	N.D.	
41)	Hexachlorocyclopentadiene	0.00	237	0	N.D.	
42)	2,4,6-Trichlorophenol	0.00	196	0	N.D.	
43)	2,4,5-Trichlorophenol	7.68	196	54	N.D.	
45)	Biphenyl	0.00	154	0	N.D.	
46)	2-Chloronaphthalene	0.00	162	0	N.D.	
47)	2-Nitroaniline	0.00	138	0	N.D.	
48)	Acenaphthylene	0.00	152	0	N.D.	
49)	Dimethyl phthalate	7.90	163	56	N.D.	
50)	2,6-Dinitrotoluene	8.11	165	55	N.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.	
55)	2,4-Dinitrotoluene	0.00	165	0	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	8.76	149	435	N.D.	
61)	4-Nitroaniline	0.00	138	0	N.D.	
62)	Azobenzene	9.10	77	62	N.D.	
63)	Atrazine	0.00	200	0	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	9.67	248	56	N.D.	
69)	Hexachlorobenzene	0.00	284	0	N.D.	
70)	n-octadecane	9.78	55	219	N.D.	
71)	Pentachlorophenol	9.70	266	63	N.D.	
72)	Phenanthrene	0.00	178	0	N.D.	
73)	Anthracene	0.00	178	0	N.D.	
74)	Carbazole	10.20	167	63	N.D.	
75)	Di-n-butyl phthalate	10.52	149	118	N.D.	
76)	2-nitrodiphenylamine	0.00	167	0	N.D.	
77)	Fluoranthene	0.00	202	0	N.D.	
79)	Benzidine	0.00	184	0	N.D.	
80)	Pyrene	0.00	202	0	N.D.	
82)	Benzylbutyl phthalate	12.04	149	829	73064.9485046 ppb #	27
83)	3,3-Dichlorobenzidine	12.63	252	73	7833.5203145 ppb #	32
84)	Benzo(a)anthracene	12.93	228	67	2707.4239959 ppb #	57
85)	Chrysene	12.93	228	67	3041.4400609 ppb #	54
86)	bis(2-Ethylhexyl)phthalate	12.62	149	2163	142007.2187109 ppb	91
87)	Di-n-octyl phthalate	13.30	149	2353	93742.6074782 ppb	79
89)	Benzo(b)fluoranthene	13.78	252	252	3946.9709890 ppb #	53
90)	Benzo(k)fluoranthene	13.82	252	114	1880.6239380 ppb	81
91)	Benzo(a)pyrene	14.12	252	461	7712.6595481 ppb	76
92)	Indeno(1,2,3-cd)pyrene	15.19	276	175	2442.7962858 ppb #	65
93)	Dibenz(a,h)anthracene	15.29	278	56	920.4009953 ppb #	15
94)	Benzo(g,h,i)perylene	15.49	276	139	2506.2380592 ppb #	31

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\100414A\1004A 02.D Vial: 100
Acq On : 4 Oct 2014 12:10 pm Operator: 280
Sample : INSTBLK SVOC Inst : BNAMS11
Misc : instrument blank Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 4 12:43 2014 Quant Results File: S811J01N.RES

Method : C:\MSDCHEM\1\METHODS\S811J01N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Wed Oct 01 14:49:17 2014
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\100414A\1004A 02.D Vial: 100
Acq On : 4 Oct 2014 12:10 pm Operator: 280
Sample : INSTBLK SVOC Inst : BNAMS11
Misc : instrument blank Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 4 12:43 2014 Quant Results File: S811J01N.RES

Quant Method : C:\MSDCHEM\1\METHODS\S811J01N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Wed Oct 01 14:49:17 2014
Response via : Initial Calibration
DataAcq Meth : BNA11

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	0.00	152	0	0.00 ppb	-5.24
22) Naphthalene-d8	0.00	136	0	0.00 ppb	-6.48
40) Acenaphthene-d10	0.00	164	0	0.00 ppb	-8.34
64) Phenanthrene-d10	0.00	188	0	0.00 ppb	-9.95
78) Chrysene-d12	12.68	240	174	8000.00 ppb	-0.12
88) Perylene-d12	14.14	264	457	8000.00 ppb	-0.14

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	4.78	99	95	0.0000000 ppb	-0.08
Spiked Amount 20.000	Range 10 - 63		Recovery	= 0.00%#	
23) Nitrobenzene-d5	5.94	82	61	0.0000000 ppb	0.19
Spiked Amount 10.000	Range 28 - 123		Recovery	= 0.00%#	
44) 2-Fluorobiphenyl	0.00	172	0	0.0000000 ppb	
Spiked Amount 10.000	Range 35 - 133		Recovery	= 0.00%#	
67) 2,4,6-Tribromophenol	9.01	330	54	0.0000000 ppb	-0.18
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	3.23	79	114	N.D.
3) N-Nitrosodimethylamine	3.20	42	224	N.D.
5) Aniline	4.82	66	69	N.D.
6) bis(2-Chloroethyl)ether	5.07	63	59	N.D.
8) Phenol	0.00	94	0	N.D.
9) Benzaldehyde	4.78	105	877	N.D.
10) 2-Chlorophenol	0.00	128	0	N.D.
11) n-Decane	5.04	41	2168	N.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.
15) 1,2-Dichlorobenzene	5.32	146	62	N.D.
16) bis(2-Chloroisopropyl)ethe	0.00	121	0	N.D.
17) 2-Methylphenol	5.28	108	56	N.D.
18) Hexachloroethane	5.84	117	423	N.D.
19) N-Nitrosodi-n-propylamine	5.57	70	689	N.D.
20) 3&4-Methyl phenol	0.00	107	0	N.D.
21) Acetophenone	5.53	105	61	N.D.
24) Nitrobenzene	5.67	77	54	N.D.
25) Isophorone	5.94	82	61	N.D.
26) 2-Nitrophenol	5.84	139	297	N.D.
27) 2,4-Dimethylphenol	0.00	107	0	N.D.
28) bis(2-Chlorethoxy)methane	6.16	93	86	N.D.
29) 2,4-Dichlorophenol	6.24	162	58	N.D.
30) Benzoic Acid	6.05	105	59	No Quad Fit
31) 1,2,4-Trichlorobenzene	0.00	180	0	N.D.
32) Naphthalene	6.42	128	205	N.D.
33) 4-Chloroaniline	0.00	65	0	N.D.
34) Hexachloro-1,3-butadiene	0.00	225	0	N.D.
35) Caprolactam	6.92	113	151	N.D.
36) 4-Chloro-3-methylphenol	6.95	107	57	N.D.
37) 2-Methylnaphthalene	0.00	142	0	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\100414A\1004A 02.D Vial: 100
Acq On : 4 Oct 2014 12:10 pm Operator: 280
Sample : INSTBLK SVOC Inst : BNAMS11
Misc : instrument blank Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 4 12:43 2014 Quant Results File: S811J01N.RES

Quant Method : C:\MSDCHEM\1\METHODS\S811J01N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Wed Oct 01 14:49:17 2014
Response via : Initial Calibration
DataAcq Meth : BNA11

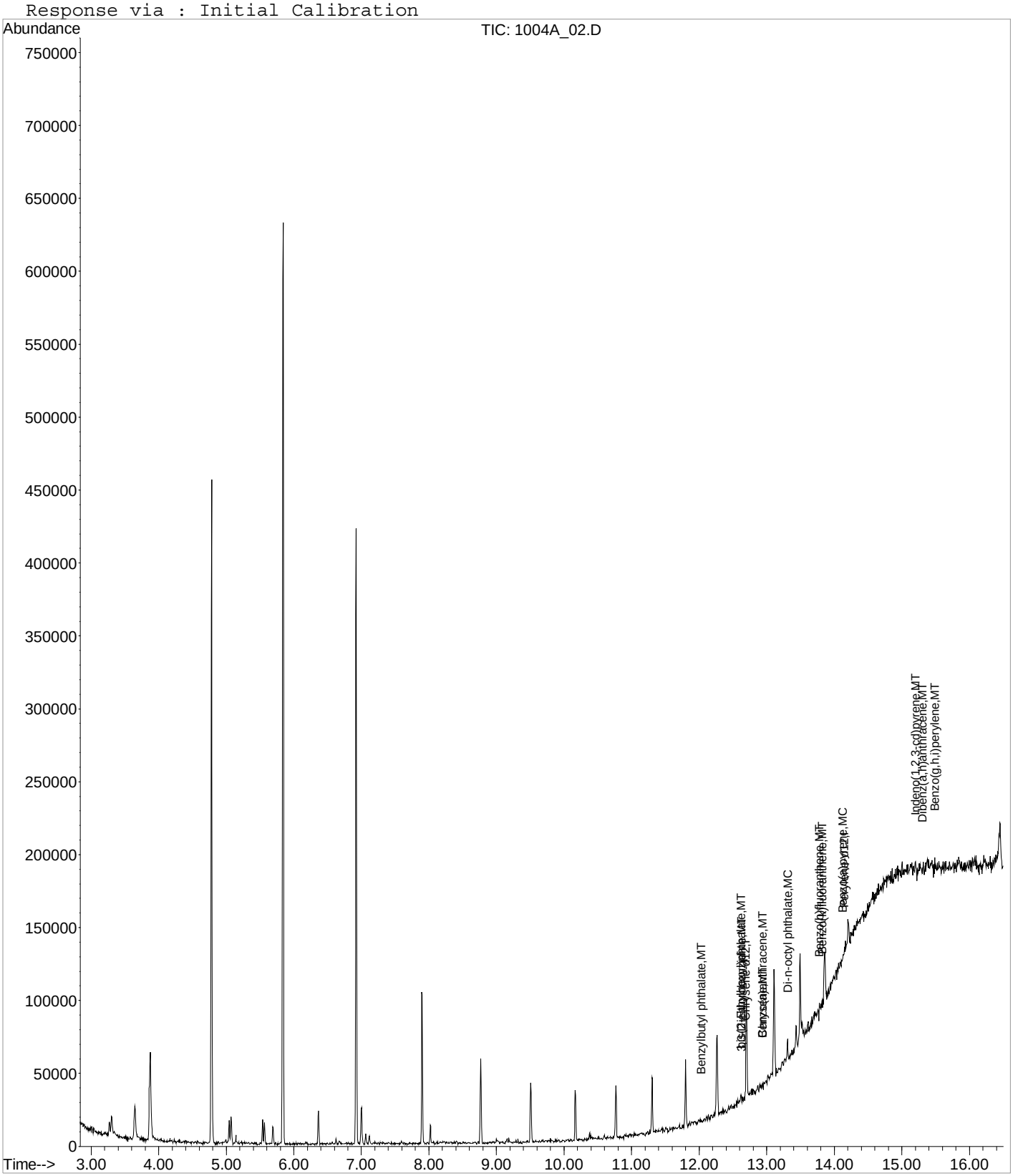
	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
39)	1,2,4,5-Tetrachlorobenzene	0.00	216	0	N.D.	
41)	Hexachlorocyclopentadiene	0.00	237	0	N.D.	
42)	2,4,6-Trichlorophenol	0.00	196	0	N.D.	
43)	2,4,5-Trichlorophenol	7.68	196	54	N.D.	
45)	Biphenyl	0.00	154	0	N.D.	
46)	2-Chloronaphthalene	0.00	162	0	N.D.	
47)	2-Nitroaniline	0.00	138	0	N.D.	
48)	Acenaphthylene	0.00	152	0	N.D.	
49)	Dimethyl phthalate	7.90	163	56	N.D.	
50)	2,6-Dinitrotoluene	8.11	165	55	N.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.	
55)	2,4-Dinitrotoluene	0.00	165	0	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	8.76	149	435	N.D.	
61)	4-Nitroaniline	0.00	138	0	N.D.	
62)	Azobenzene	9.10	77	62	N.D.	
63)	Atrazine	0.00	200	0	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	9.67	248	56	N.D.	
69)	Hexachlorobenzene	0.00	284	0	N.D.	
70)	n-octadecane	9.78	55	219	N.D.	
71)	Pentachlorophenol	9.70	266	63	N.D.	
72)	Phenanthrene	0.00	178	0	N.D.	
73)	Anthracene	0.00	178	0	N.D.	
74)	Carbazole	10.20	167	63	N.D.	
75)	Di-n-butyl phthalate	10.52	149	118	N.D.	
76)	2-nitrodiphenylamine	0.00	167	0	N.D.	
77)	Fluoranthene	0.00	202	0	N.D.	
79)	Benzidine	0.00	184	0	N.D.	
80)	Pyrene	0.00	202	0	N.D.	
82)	Benzylbutyl phthalate	12.04	149	829	73064.9485046 ppb #	27
83)	3,3-Dichlorobenzidine	12.63	252	73	7833.5203145 ppb #	32
84)	Benzo(a)anthracene	12.93	228	67	2707.4239959 ppb #	57
85)	Chrysene	12.93	228	67	3041.4400609 ppb #	54
86)	bis(2-Ethylhexyl)phthalate	12.62	149	2163	142007.2187109 ppb	91
87)	Di-n-octyl phthalate	13.30	149	2353	93742.6074782 ppb	79
89)	Benzo(b)fluoranthene	13.78	252	252	3946.9709890 ppb #	53
90)	Benzo(k)fluoranthene	13.82	252	114	1880.6239380 ppb	81
91)	Benzo(a)pyrene	14.12	252	461	7712.6595481 ppb	76
92)	Indeno(1,2,3-cd)pyrene	15.19	276	175	2442.7962858 ppb #	65
93)	Dibenz(a,h)anthracene	15.29	278	56	920.4009953 ppb #	15
94)	Benzo(g,h,i)perylene	15.49	276	139	2506.2380592 ppb #	31

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\100414A\1004A 02.D Vial: 100
Acq On : 4 Oct 2014 12:10 pm Operator: 280
Sample : INSTBLK SVOC Inst : BNAMS11
Misc : instrument blank Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 4 12:43 2014 Quant Results File: S811J01N.RES

Method : C:\MSDCHEM\1\METHODS\S811J01N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Wed Oct 01 14:49:17 2014
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\100414A\1004A 05MRL.D Vial: 3
Acq On : 4 Oct 2014 1:54 pm Operator: 280
Sample : MRL SVMS 200 PPB 14G09881 Inst : BNAMS11
Misc : 8270 Primary Calibration Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 4 20:23 2014 Quant Results File: S811J04N.RES

Quant Method : C:\MSDCHEM\1\METHODS\S811J04N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Sat Oct 04 20:15:55 2014
Response via : Initial Calibration
DataAcq Meth : BNA11

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	5.17	152	105419	8000.00 ppb	0.00
22) Naphthalene-d8	6.40	136	450907	8000.00 ppb	0.00
40) Acenaphthene-d10	8.25	164	273816	8000.00 ppb	0.00
64) Phenanthrene-d10	9.85	188	497676	8000.00 ppb	0.00
78) Chrysene-d12	12.69	240	579061	8000.00 ppb	0.00
88) Perylene-d12	14.14	264	637007	8000.00 ppb	0.00

System Monitoring Compounds					
4) 2-Fluorophenol	4.10	112	3114	182.0232100 ppb	0.01
Spiked Amount 20.000	Range 10 - 74		Recovery = 910.12%#		
7) Phenol-d5	4.80	99	4153	189.6169608 ppb	0.00
Spiked Amount 20.000	Range 10 - 63		Recovery = 948.08%#		
23) Nitrobenzene-d5	5.67	82	3793	170.6622656 ppb	0.00
Spiked Amount 10.000	Range 28 - 123		Recovery = 1706.62%#		
44) 2-Fluorobiphenyl	7.52	172	9707	197.1533231 ppb	0.00
Spiked Amount 10.000	Range 35 - 133		Recovery = 1971.53%#		
67) 2,4,6-Tribromophenol	9.10	330	993	148.5639334 ppb	0.00
Spiked Amount 20.000	Range 22 - 154		Recovery = 742.82%#		
81) p-Terphenyl-d14	11.54	244	13889	188.8285096 ppb	0.00
Spiked Amount 10.000	Range 30 - 148		Recovery = 1888.29%#		

Target Compounds						Qvalue
2) Pyridine	3.17	79	6100	221.4025067 ppb		97
3) N-Nitrosodimethylamine	3.15	42	3351	193.5988560 ppb		88
5) Aniline	4.87	66	2029	182.3293679 ppb		86
6) bis(2-Chloroethyl)ether	4.91	63	3092	212.5230306 ppb		86
8) Phenol	4.81	94	3875	176.1512066 ppb		90
9) Benzaldehyde	5.16	105	53	5.8642228 ppb	#	1
10) 2-Chlorophenol	4.97	128	3860	198.4418682 ppb		90
11) n-Decane	5.00	41	3075	220.9050474 ppb	#	91
12) 1,3-Dichlorobenzene	5.11	146	4141	189.4887041 ppb		96
13) 1,4-Dichlorobenzene	5.18	146	4679	209.1670152 ppb		83
14) Benzyl Alcohol	5.27	79	3331	188.9282038 ppb		100
15) 1,2-Dichlorobenzene	5.32	146	4235	202.2965171 ppb		98
16) bis(2-Chloroisopropyl)ethe	5.40	121	1248	204.3496257 ppb	#	47
17) 2-Methylphenol	5.36	108	2968	177.4734770 ppb		95
18) Hexachloroethane	5.64	117	1623	164.7659165 ppb		89
19) N-Nitrosodi-n-propylamine	5.51	70	2667	187.7513350 ppb		98
20) 3&4-Methyl phenol	5.50	107	3563	181.3949905 ppb		88
21) Acetophenone	5.16	105	53	2.1166611 ppb	#	1
24) Nitrobenzene	5.70	77	3686	166.0326022 ppb		89
25) Isophorone	5.92	82	6374	172.1041089 ppb		100
26) 2-Nitrophenol	6.01	139	1759	165.1002812 ppb		88
27) 2,4-Dimethylphenol	6.02	107	3857	178.1873983 ppb		89
28) bis(2-Chlorethoxy)methane	6.12	93	4639	195.4880086 ppb		97
29) 2,4-Dichlorophenol	6.24	162	3031	178.3211161 ppb		92
30) Benzoic Acid	6.03	105	78	1122.3897422 ppb	#	1
31) 1,2,4-Trichlorobenzene	6.34	180	3722	183.6319067 ppb		95
32) Naphthalene	6.42	128	15145	236.1323380 ppb		99
33) 4-Chloroaniline	6.46	65	1531	174.1122005 ppb	#	75
34) Hexachloro-1,3-butadiene	6.54	225	2499	185.2539646 ppb		95
35) Caprolactam	6.42	113	60	11.3536549 ppb	#	1
36) 4-Chloro-3-methylphenol	6.95	107	3400	171.0104720 ppb		89
37) 2-Methylnaphthalene	7.14	142	8770	190.9871022 ppb		99
38) 1-Methylnaphthalene	7.24	142	8074	190.6282371 ppb		96

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\100414A\1004A 05MRL.D Vial: 3
Acq On : 4 Oct 2014 1:54 pm Operator: 280
Sample : MRL SVMS 200 PPB 14G09881 Inst : BNAMS11
Misc : 8270 Primary Calibration Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 4 20:23 2014 Quant Results File: S811J04N.RES

Quant Method : C:\MSDCHEM\1\METHODS\S811J04N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Sat Oct 04 20:15:55 2014
Response via : Initial Calibration
DataAcq Meth : BNA11

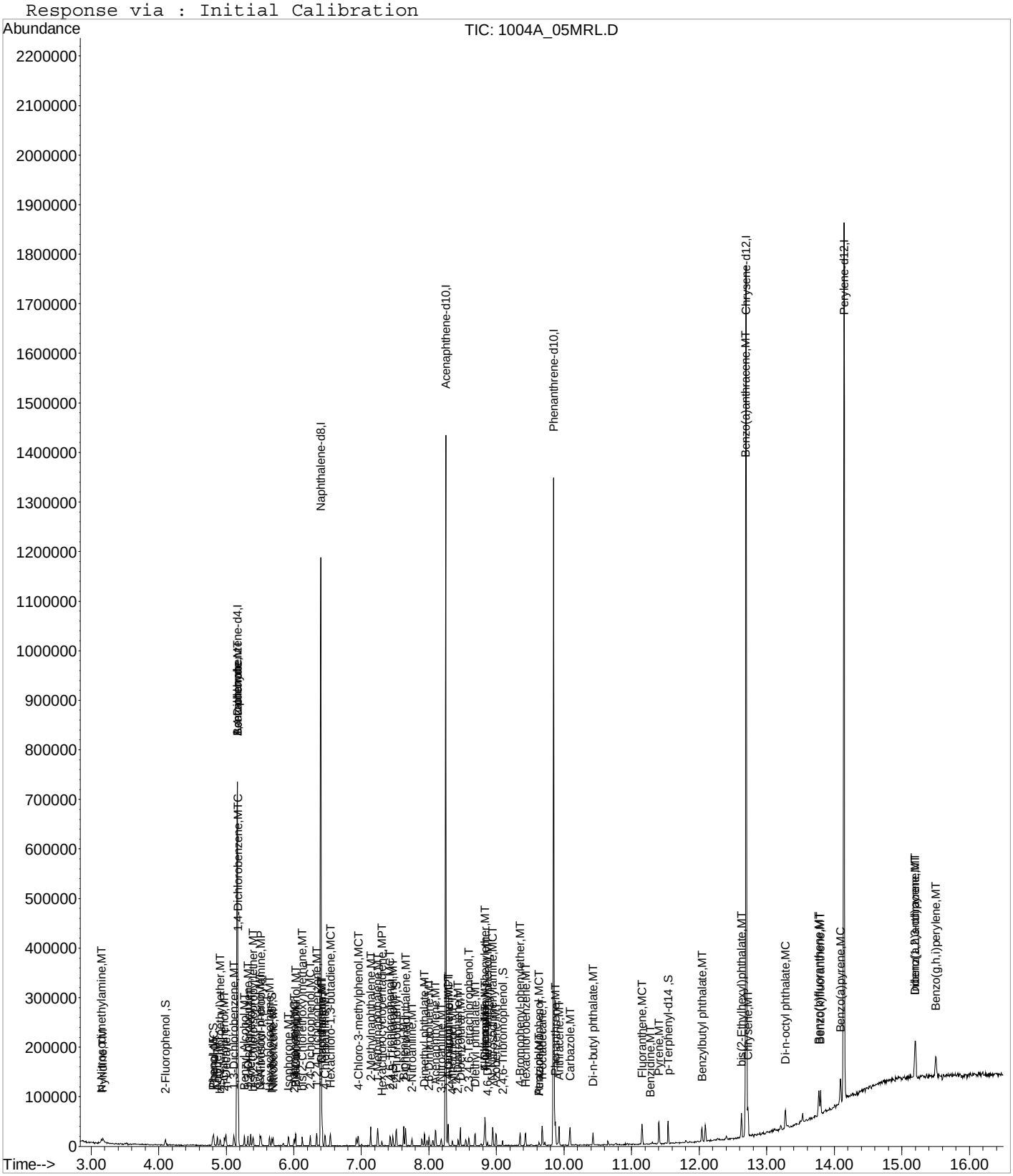
	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
39)	1,2,4,5-Tetrachlorobenzene	0.00	216	0	N.D.			
41)	Hexachlorocyclopentadiene	7.31	237	1336	95.8275530	ppb		98
42)	2,4,6-Trichlorophenol	7.42	196	2483	188.5162587	ppb	#	85
43)	2,4,5-Trichlorophenol	7.47	196	2561	184.5944070	ppb		83
45)	Biphenyl	7.62	154	10274	187.1940929	ppb		93
46)	2-Chloronaphthalene	7.65	162	8374	199.7574911	ppb		98
47)	2-Nitroaniline	7.75	138	2113	156.3314145	ppb	#	88
48)	Acenaphthylene	8.10	152	12804	190.4859238	ppb		97
49)	Dimethyl phthalate	7.93	163	8404	178.4957052	ppb		94
50)	2,6-Dinitrotoluene	8.00	165	1490	138.2408839	ppb	#	80
51)	3-Nitroaniline	8.18	138	1796	149.2443660	ppb	#	84
52)	Acenaphthene	8.28	153	9636	211.9796201	ppb		92
53)	2,4-Dinitrophenol	8.30	184	378	1485.6571255	ppb	#	63
54)	Dibenzofuran	8.47	168	12484	200.8309338	ppb		98
55)	2,4-Dinitrotoluene	8.43	165	1966	133.0001253	ppb		93
56)	2,3,4,6-Tetrachlorophenol	8.59	232	1878	192.8695919	ppb	#	70
57)	4-Nitrophenol	8.35	139	1060	109.6610786	ppb	#	83
58)	Fluorene	8.84	166	10295	197.2395465	ppb		99
59)	4-Chlorophenyl-phenylether	8.82	204	5267	200.9655946	ppb		91
60)	Diethyl phthalate	8.68	149	8969	172.5002590	ppb		88
61)	4-Nitroaniline	8.83	138	1656	140.0032383	ppb		90
62)	Azobenzene	8.99	77	9158	168.2519875	ppb		97
63)	Atrazine	9.63	200	72	5.3913629	ppb	#	1
65)	4,6-Dinitro-2-methylphenol	8.87	198	877	104.9123233	ppb		86
66)	N-Nitrosodiphenylamine	8.94	169	8016	194.4372094	ppb		95
68)	4-Bromophenyl-phenylether	9.35	248	2460	179.8478078	ppb		88
69)	Hexachlorobenzene	9.43	284	2787	184.1705108	ppb		83
70)	n-octadecane	9.68	55	2130	210.0458442	ppb	#	93
71)	Pentachlorophenol	9.63	266	868	329.4290729	ppb	#	83
72)	Phenanthrene	9.87	178	15790	212.3506040	ppb		98
73)	Anthracene	9.92	178	13121	179.1205537	ppb		99
74)	Carbazole	10.09	167	13847	193.5442166	ppb		95
75)	Di-n-butyl phthalate	10.43	149	14501	155.3746538	ppb		95
76)	2-nitrodiphenylamine	0.00	167	0	N.D.			
77)	Fluoranthene	11.15	202	17122	182.3105822	ppb		95
79)	Benzidine	11.28	184	85	772.3858046	ppb	#	68
80)	Pyrene	11.41	202	18652	190.3344376	ppb		96
82)	Benzylbutyl phthalate	12.04	149	7093	157.2558177	ppb		92
83)	3,3-Dichlorobenzidine	0.00	252	0	N.D.			
84)	Benzo(a)anthracene	12.68	228	19523	198.0829679	ppb		94
85)	Chrysene	12.72	228	17382	193.8513052	ppb		97
86)	bis(2-Ethylhexyl)phthalate	12.62	149	17033	238.7926373	ppb		95
87)	Di-n-octyl phthalate	13.28	149	17557m	148.7837827	ppb		
89)	Benzo(b)fluoranthene	13.77	252	19565m	190.8816348	ppb		
90)	Benzo(k)fluoranthene	13.79	252	19272m	203.1701535	ppb		
91)	Benzo(a)pyrene	14.09	252	18016	186.0034308	ppb		97
92)	Indeno(1,2,3-cd)pyrene	15.20	276	22898	197.5566787	ppb		97
93)	Dibenz(a,h)anthracene	15.19	278	19576	196.7214747	ppb		95
94)	Benzo(g,h,i)perylene	15.50	276	19176	205.4091858	ppb		97

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\100414A\1004A 05MRL.D Vial: 3
Acq On : 4 Oct 2014 1:54 pm Operator: 280
Sample : MRL SVMS 200 PPB 14G09881 Inst : BNAMS11
Misc : 8270 Primary Calibration Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 4 20:23 2014 Quant Results File: S811J04N.RES

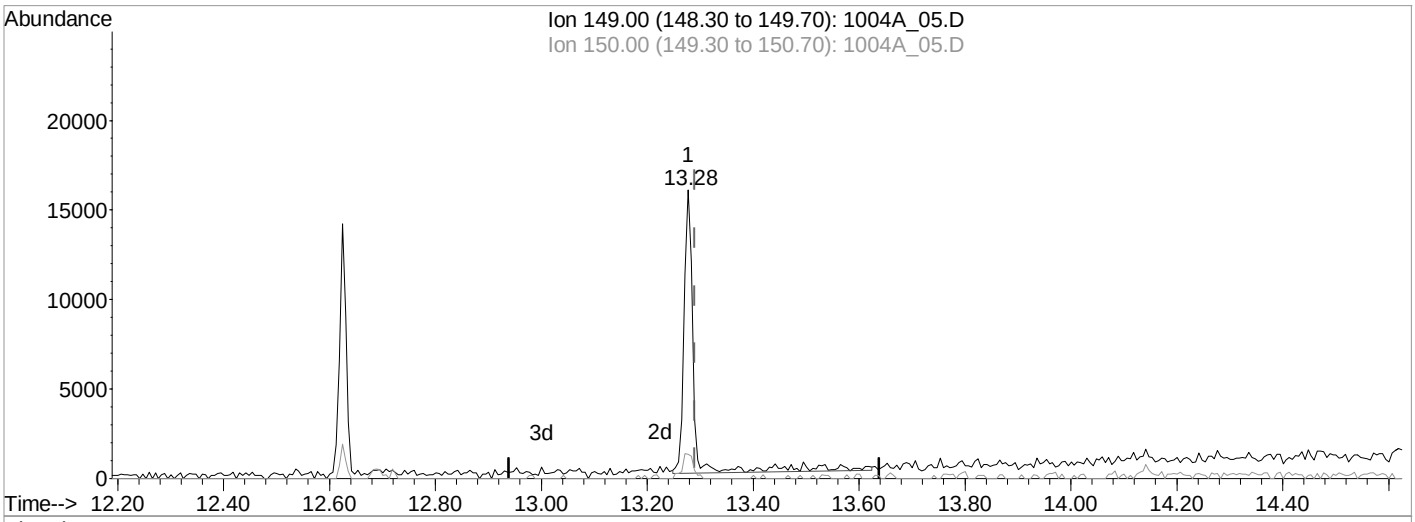
Method : C:\MSDCHEM\1\METHODS\S811J04N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Sat Oct 04 20:15:55 2014
Response via : Initial Calibration



Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\100414A\1004A 05.D Vial: 3
Acq On : 4 Oct 2014 1:54 pm Operator: 280
Sample : STD SVMS 200 PPB 14G09881 Inst : BNAMS11
Misc : 8270 Primary Calibration Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 4 18:08 2014 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\S811J04N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Sat Oct 04 18:08:22 2014
Response via : Multiple Level Calibration



TIC: 1004A_05.D

(87) Di-n-octyl phthalate (MC)

13.28min (-0.012) 156.3796976 ppb

Qvalue = 96

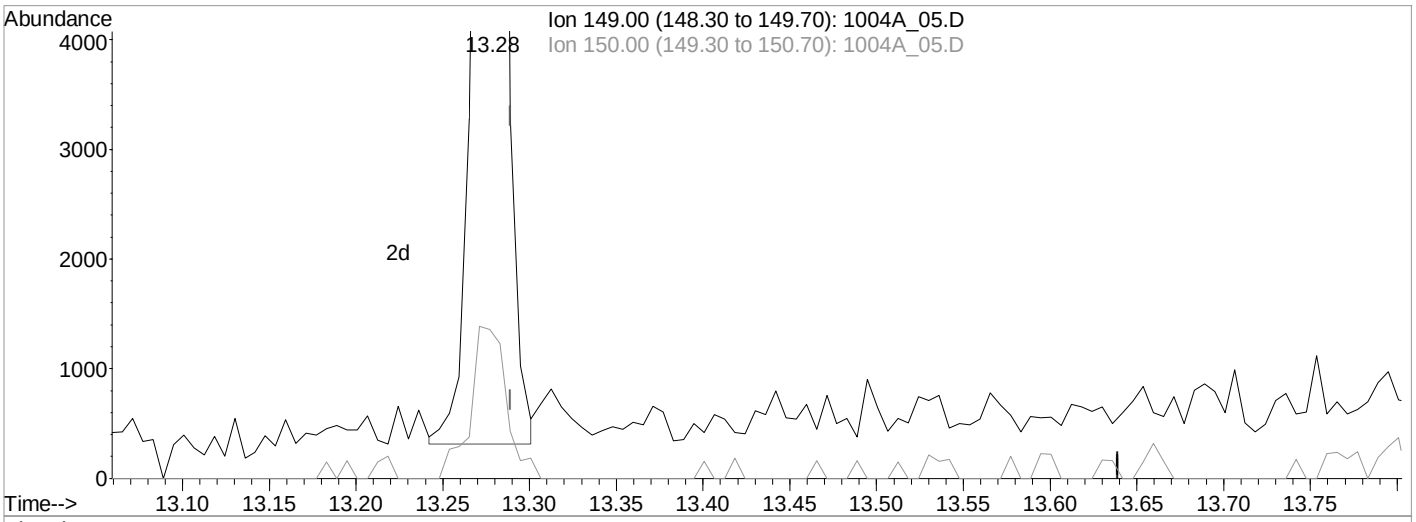
response 20376

Ion	Exp%	Act%
149.00	100	100
150.00	10.00	8.68
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\100414A\1004A 05.D Vial: 3
Acq On : 4 Oct 2014 1:54 pm Operator: 280
Sample : STD SVMS 200 PPB 14G09881 Inst : BNAMS11
Misc : 8270 Primary Calibration Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 4 18:08 2014 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\S811J04N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Sat Oct 04 18:08:22 2014
Response via : Multiple Level Calibration



TIC: 1004A_05.D

(87) Di-n-octyl phthalate (MC)

13.28min (-0.012) 156.3796976 ppb

Qvalue = 96

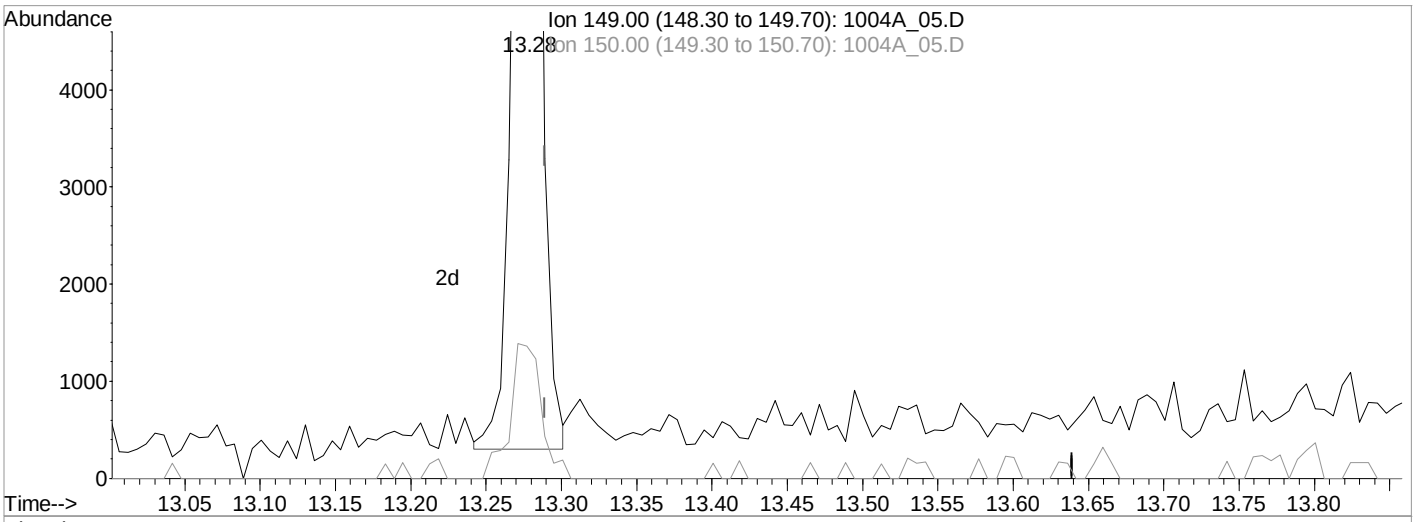
response 20376

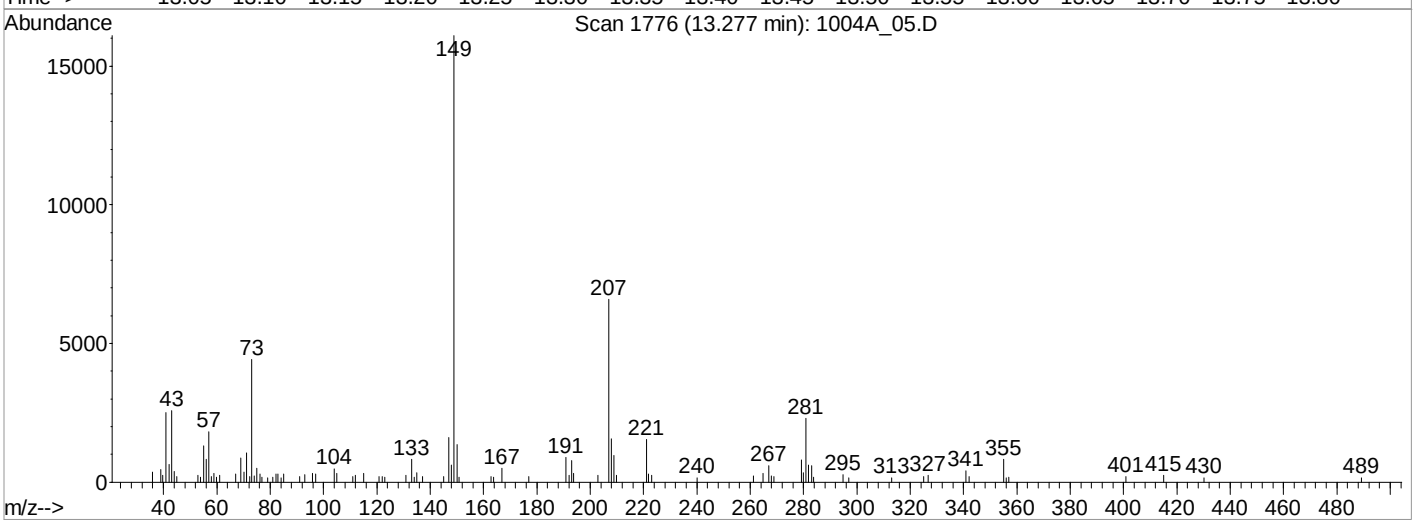
Ion	Exp%	Act%
149.00	100	100
150.00	10.00	8.68
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\100414A\1004A 05.D Vial: 3
Acq On : 4 Oct 2014 1:54 pm Operator: 280
Sample : STD SVMS 200 PPB 14G09881 Inst : BNAMS11
Misc : 8270 Primary Calibration Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 4 18:10 2014 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\S811J04N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Sat Oct 04 18:08:22 2014
Response via : Multiple Level Calibration





TIC: 1004A_05.D

(87) Di-n-octyl phthalate (MC)

13.28min (-0.012) 126.5634861 ppb m

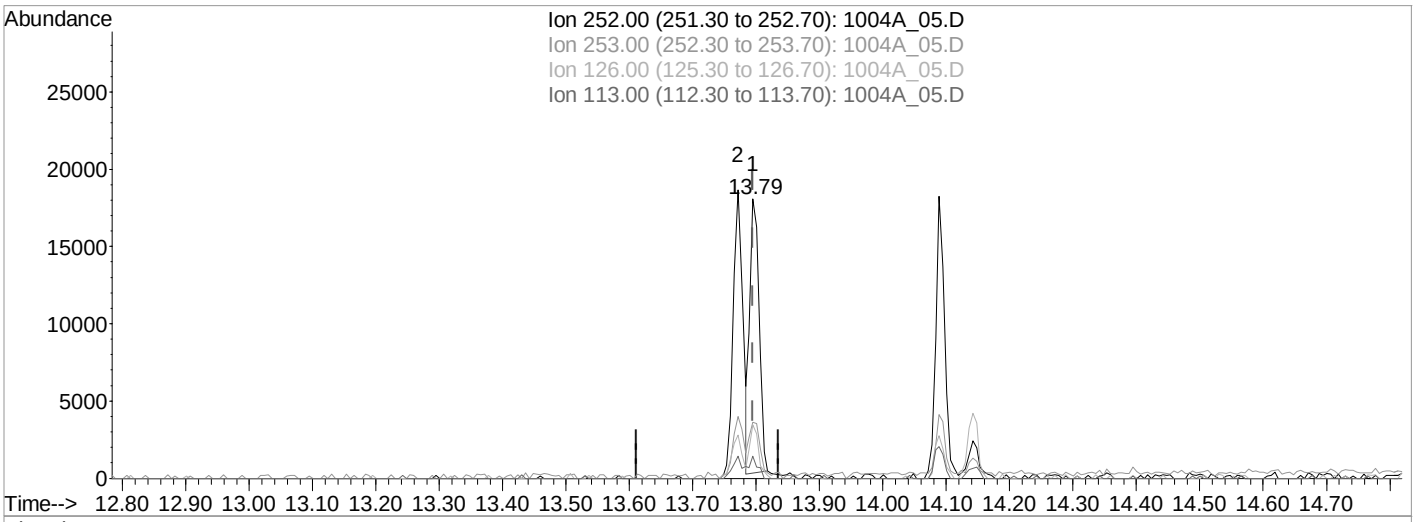
response 16491

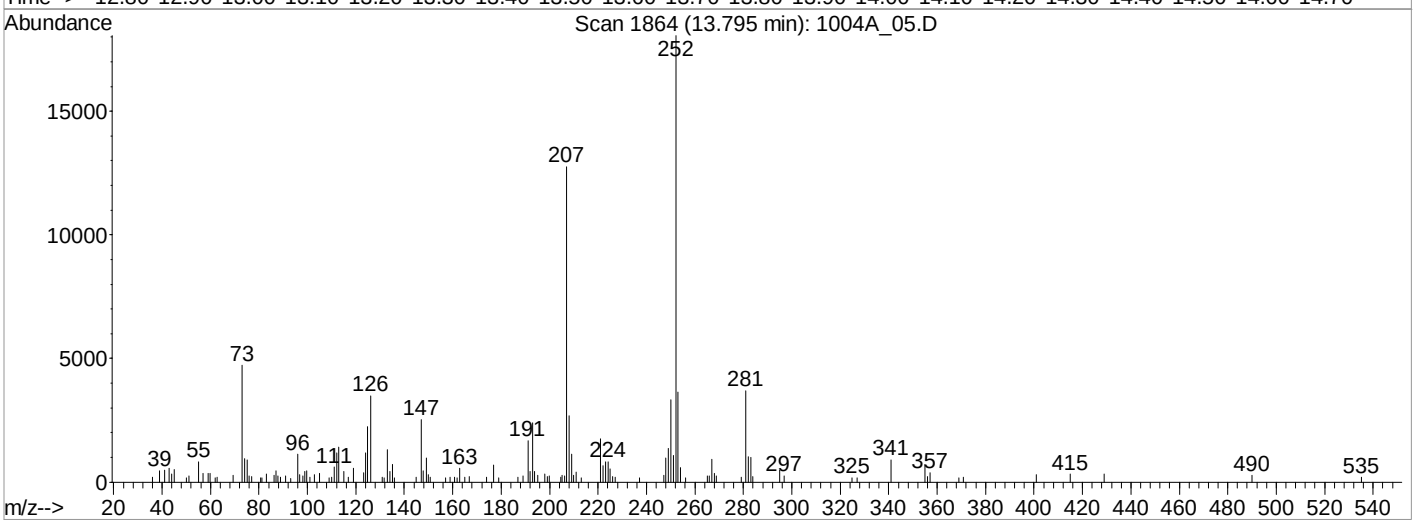
Ion	Exp%	Act%
149.00	100	100
150.00	10.00	8.44
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\100414A\1004A 05.D Vial: 3
Acq On : 4 Oct 2014 1:54 pm Operator: 280
Sample : STD SVMS 200 PPB 14G09881 Inst : BNAMS11
Misc : 8270 Primary Calibration Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 4 18:10 2014 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\S811J04N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Sat Oct 04 18:08:22 2014
Response via : Multiple Level Calibration





TIC: 1004A_05.D

(89) Benzo(b)fluoranthene (MT)

13.79min (-0.000) 184.1531599 ppb

Qvalue = 92

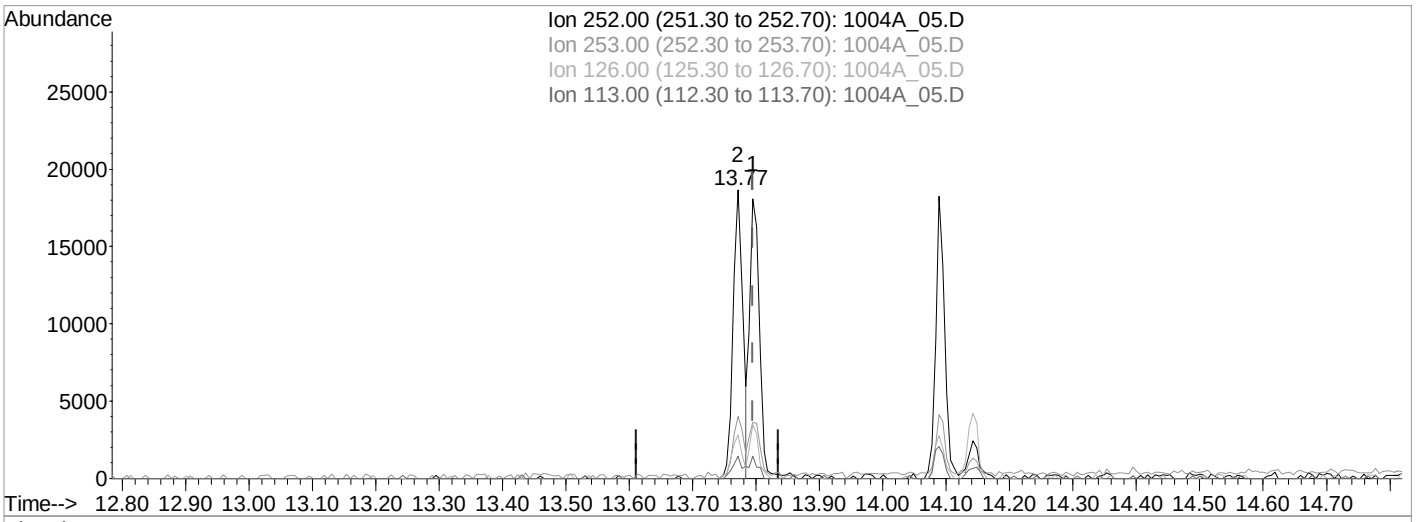
response 18215

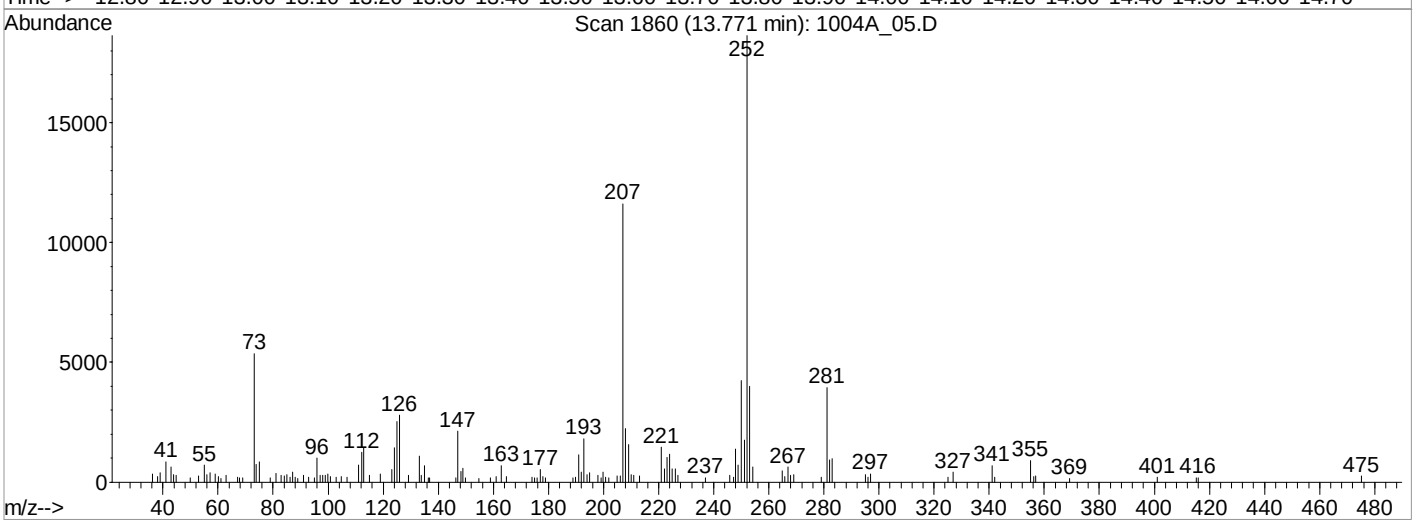
Ion	Exp%	Act%
252.00	100	100
253.00	21.20	17.77
126.00	16.00	20.68
113.00	7.90	6.94

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\100414A\1004A 05.D Vial: 3
Acq On : 4 Oct 2014 1:54 pm Operator: 280
Sample : STD SVMS 200 PPB 14G09881 Inst : BNAMS11
Misc : 8270 Primary Calibration Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 4 18:10 2014 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\S811J04N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Sat Oct 04 18:08:22 2014
Response via : Multiple Level Calibration





TIC: 1004A_05.D

(89) Benzo(b)fluoranthene (MT)

13.77min (-0.024) 197.8016235 ppb m

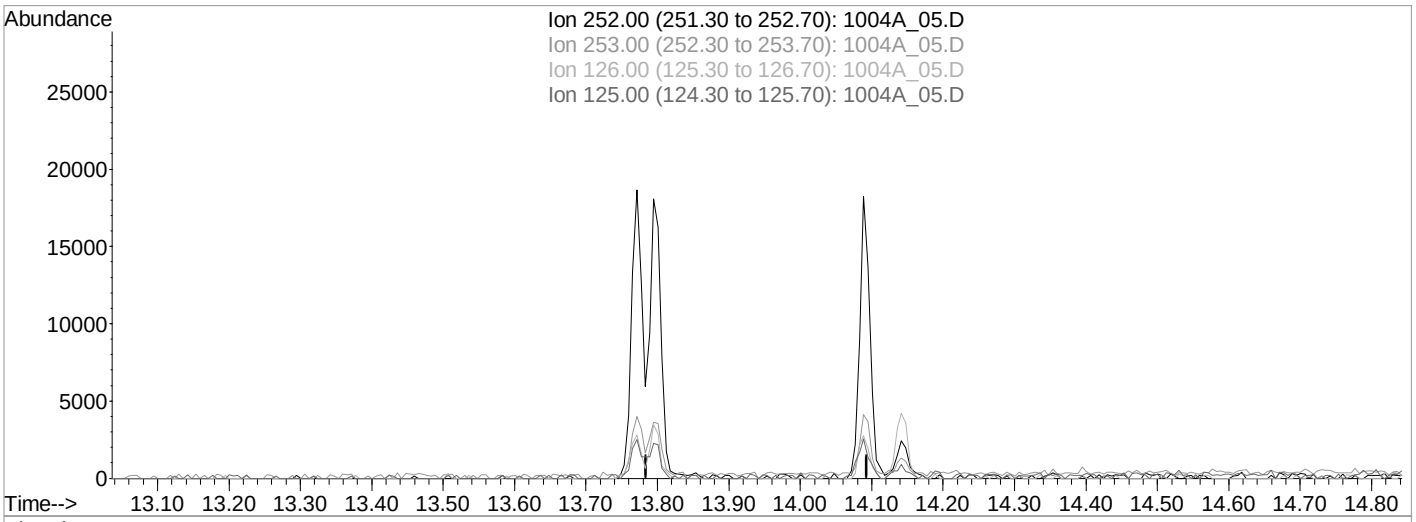
response 19565

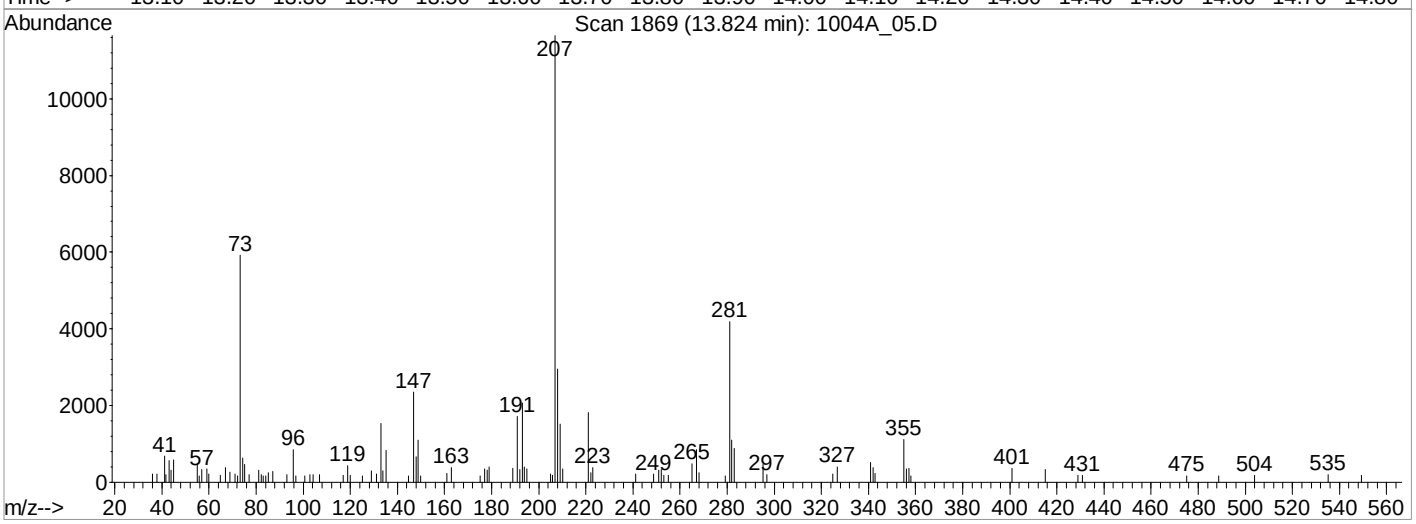
Ion	Exp%	Act%
252.00	100	100
253.00	21.20	21.39
126.00	16.00	15.02
113.00	7.90	7.70

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\100414A\1004A 05.D Vial: 3
Acq On : 4 Oct 2014 1:54 pm Operator: 280
Sample : STD SVMS 200 PPB 14G09881 Inst : BNAMS11
Misc : 8270 Primary Calibration Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 4 18:10 2014 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\S811J04N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Sat Oct 04 18:08:22 2014
Response via : Multiple Level Calibration





TIC: 1004A_05.D

(90) Benzo(k)fluoranthene (MT)

13.82min (-13.824) 0.0000000 ppb

Qvalue = 0

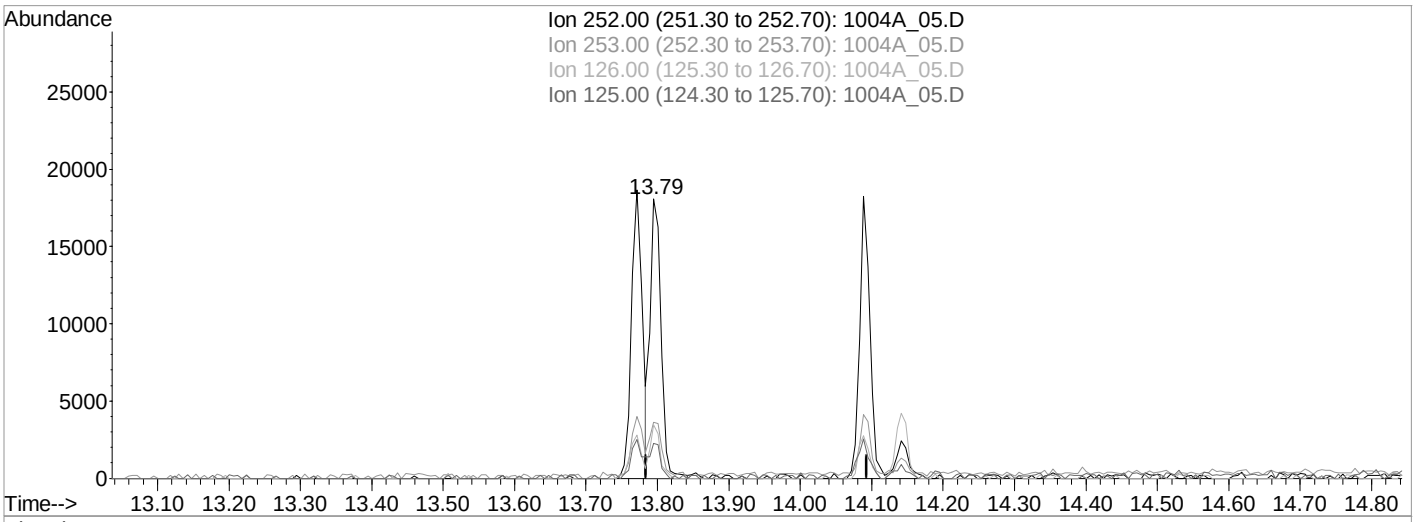
response 0

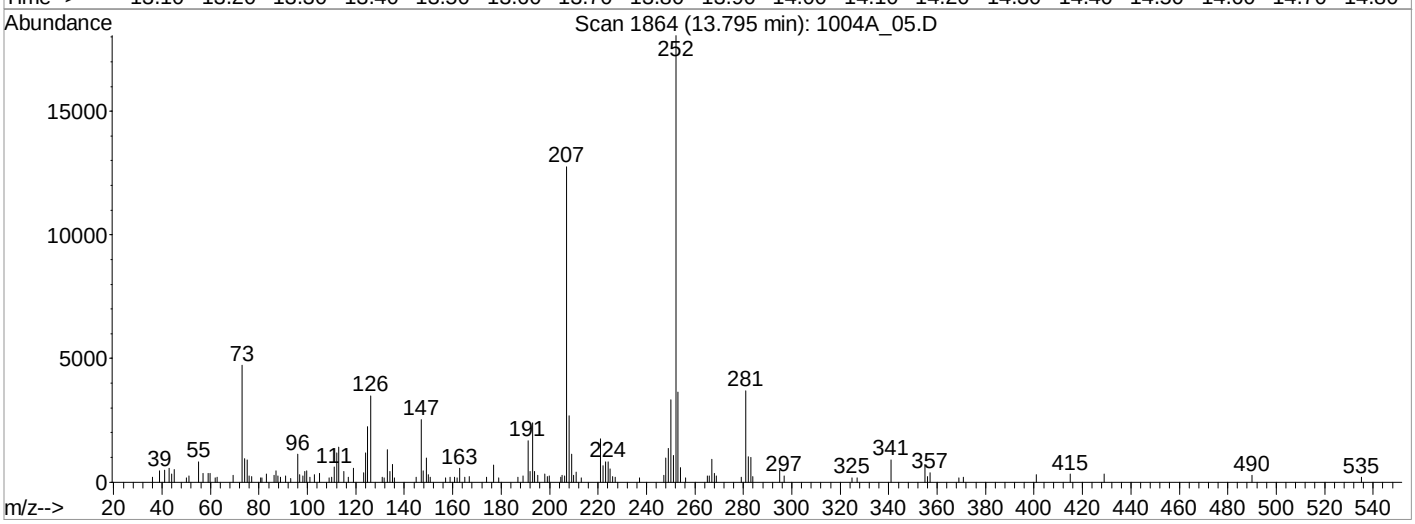
Ion	Exp%	Act%
252.00	100	0.00
253.00	21.60	0.00#
126.00	15.70	0.00
125.00	11.00	0.00

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\100414A\1004A 05.D Vial: 3
Acq On : 4 Oct 2014 1:54 pm Operator: 280
Sample : STD SVMS 200 PPB 14G09881 Inst : BNAMS11
Misc : 8270 Primary Calibration Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 4 18:10 2014 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\S811J04N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Sat Oct 04 18:08:22 2014
Response via : Multiple Level Calibration





TIC: 1004A_05.D

(90) Benzo(k)fluoranthene (MT)

13.79min (-0.029) 200.5917565 ppb m

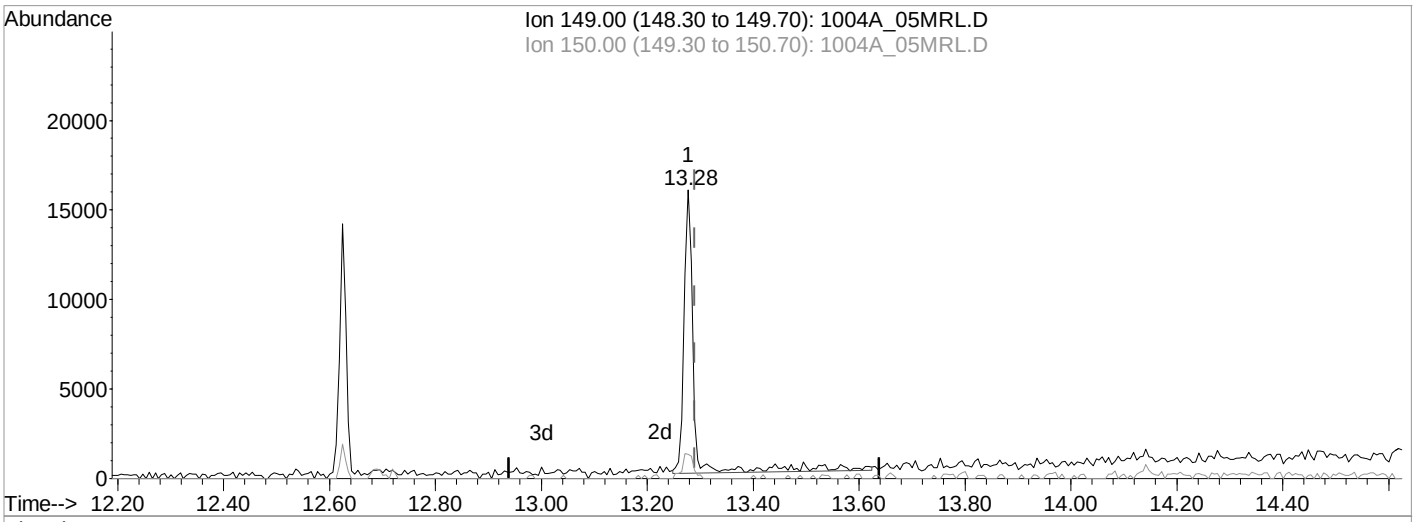
response 19342

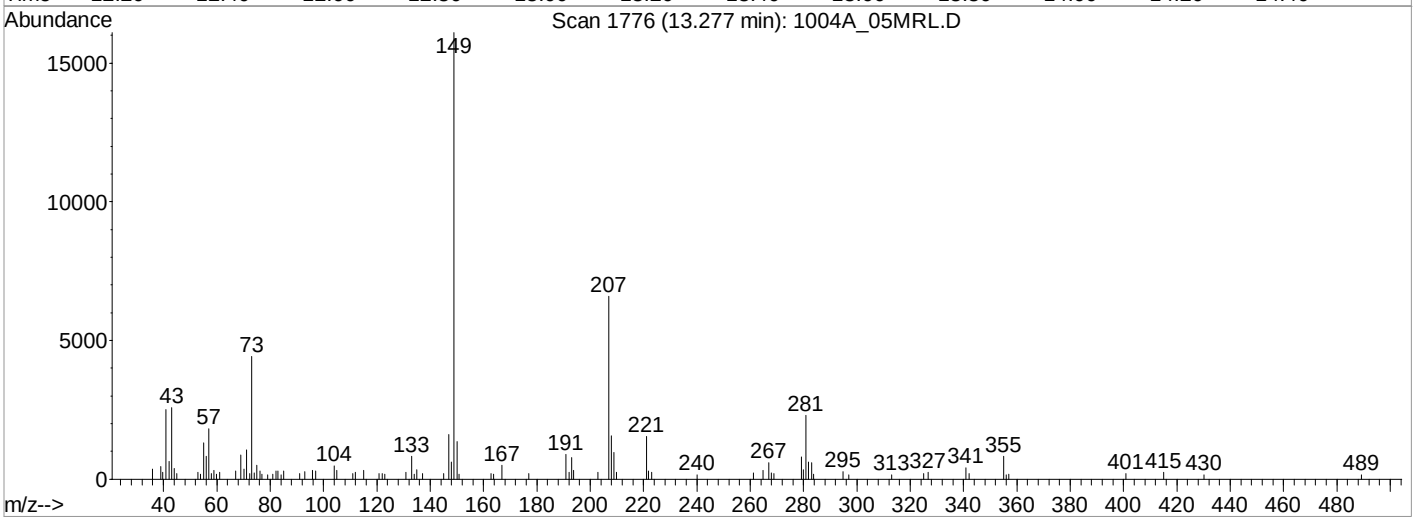
Ion	Exp%	Act%
252.00	100	100
253.00	21.60	20.13
126.00	15.70	19.21
125.00	11.00	12.47

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\100414A\1004A 05MRL.D Vial: 3
Acq On : 4 Oct 2014 1:54 pm Operator: 280
Sample : MRL SVMS 200 PPB 14G09881 Inst : BNAMS11
Misc : 8270 Primary Calibration Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 4 20:16 2014 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\S811J04N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Sat Oct 04 20:15:55 2014
Response via : Multiple Level Calibration





TIC: 1004A_05MRL.D

(87) Di-n-octyl phthalate (MC)

13.28min (-0.012) 172.6729143 ppb

Qvalue = 96

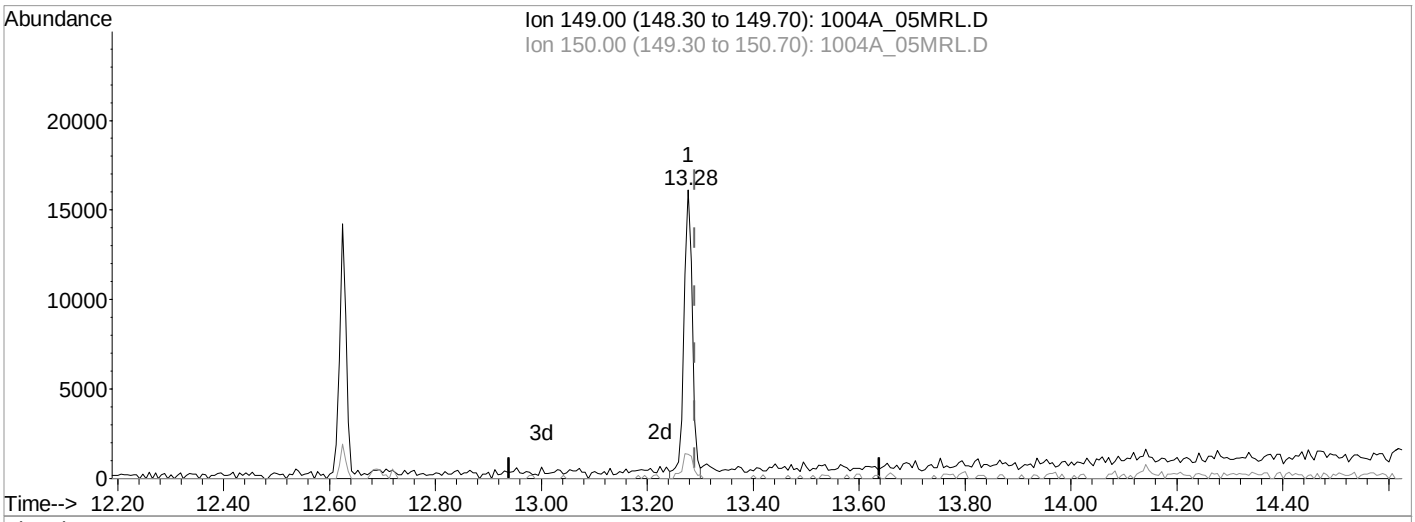
response 20376

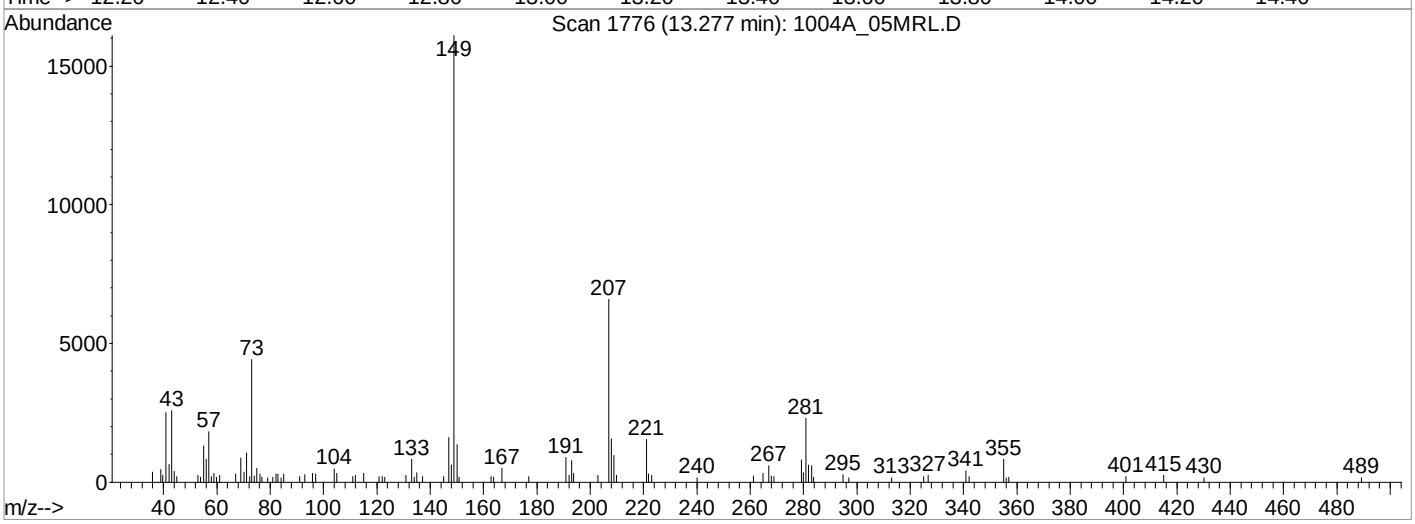
Ion	Exp%	Act%
149.00	100	100
150.00	10.00	8.68
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\100414A\1004A 05MRL.D Vial: 3
Acq On : 4 Oct 2014 1:54 pm Operator: 280
Sample : MRL SVMS 200 PPB 14G09881 Inst : BNAMS11
Misc : 8270 Primary Calibration Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 4 20:22 2014 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\S811J04N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Sat Oct 04 20:15:55 2014
Response via : Multiple Level Calibration





TIC: 1004A_05MRL.D

(87) Di-n-octyl phthalate (MC)

13.28min (-0.012) 148.7837827 ppb m

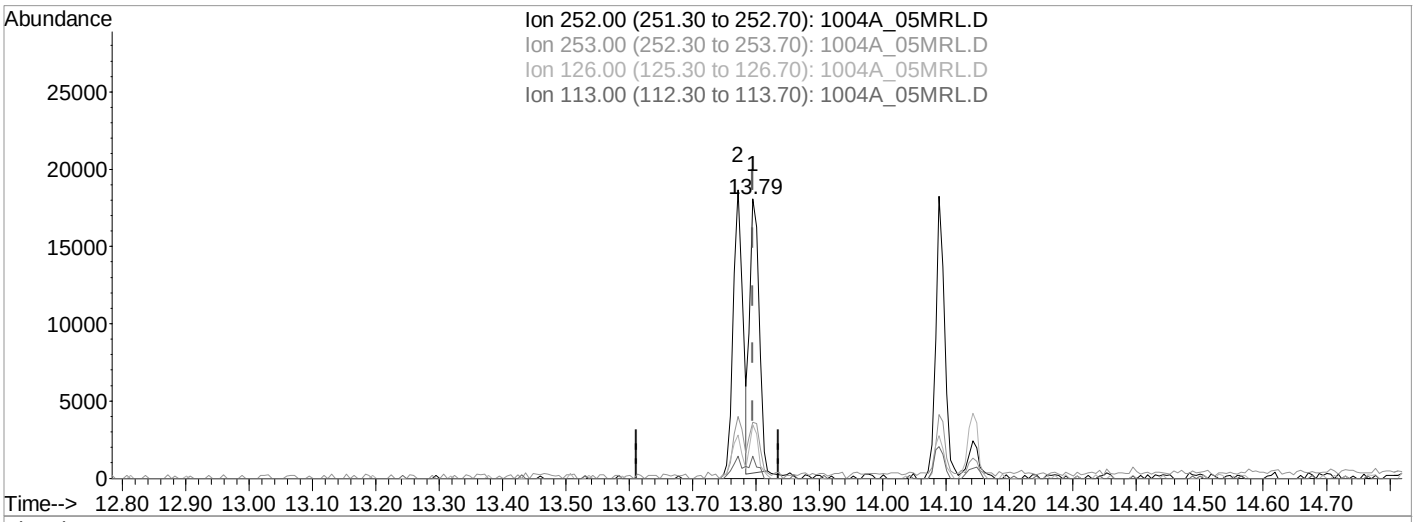
response 17557

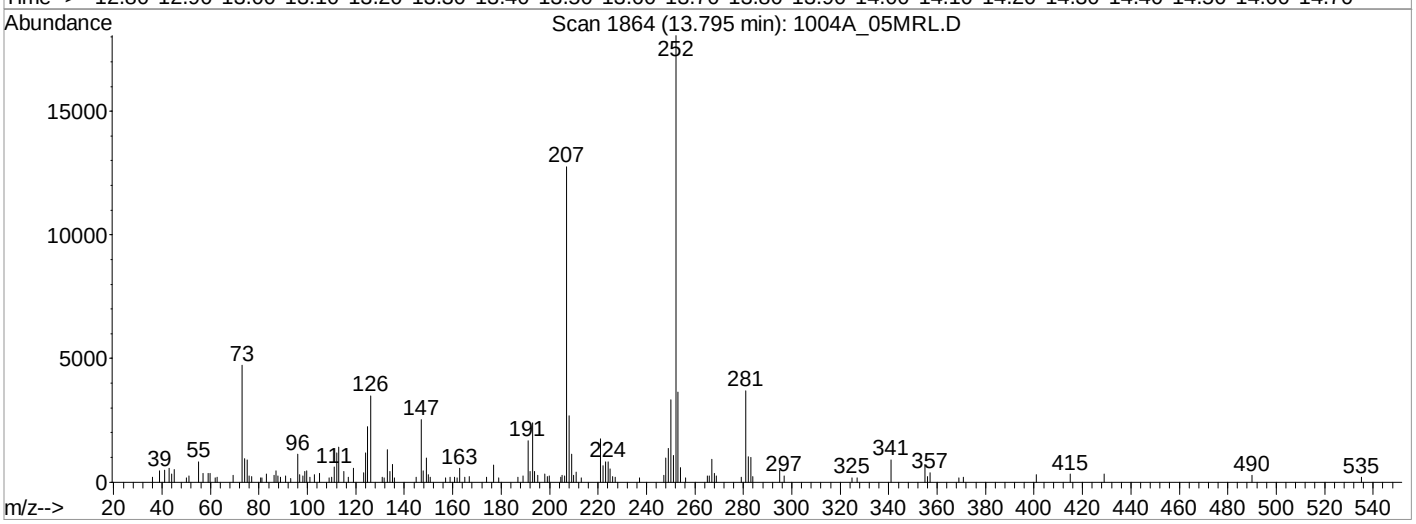
Ion	Exp%	Act%
149.00	100	100
150.00	10.00	8.44
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\100414A\1004A 05MRL.D Vial: 3
Acq On : 4 Oct 2014 1:54 pm Operator: 280
Sample : MRL SVMS 200 PPB 14G09881 Inst : BNAMS11
Misc : 8270 Primary Calibration Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 4 20:22 2014 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\S811J04N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Sat Oct 04 20:15:55 2014
Response via : Multiple Level Calibration





TIC: 1004A_05MRL.D

(89) Benzo(b)fluoranthene (MT)

13.79min (-0.000) 177.7106557 ppb

Qvalue = 92

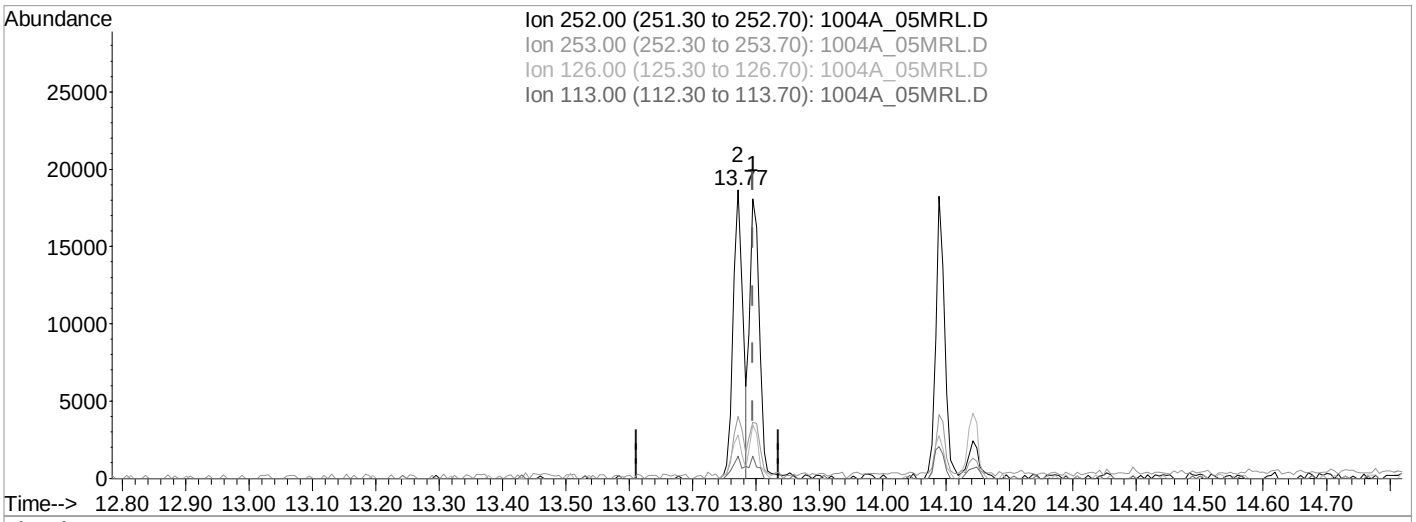
response 18215

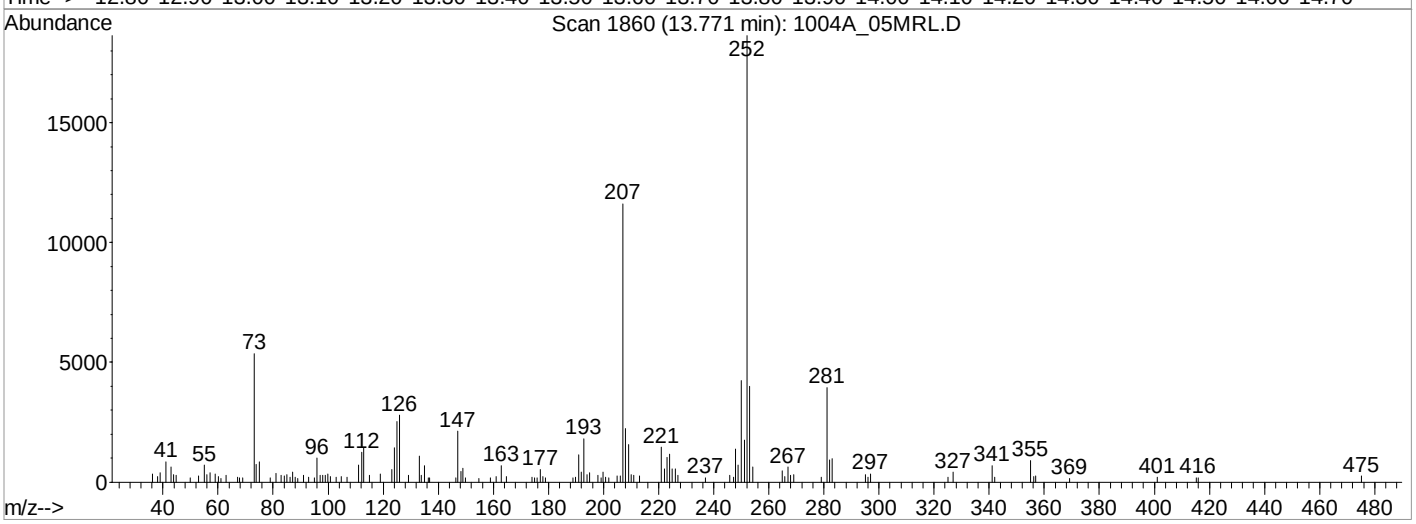
Ion	Exp%	Act%
252.00	100	100
253.00	21.20	17.77
126.00	16.00	20.68
113.00	7.90	6.94

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\100414A\1004A 05MRL.D Vial: 3
Acq On : 4 Oct 2014 1:54 pm Operator: 280
Sample : MRL SVMS 200 PPB 14G09881 Inst : BNAMS11
Misc : 8270 Primary Calibration Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 4 20:23 2014 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\S811J04N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Sat Oct 04 20:15:55 2014
Response via : Multiple Level Calibration





TIC: 1004A_05MRL.D

(89) Benzo(b)fluoranthene (MT)

13.77min (-0.024) 190.8816348 ppb m

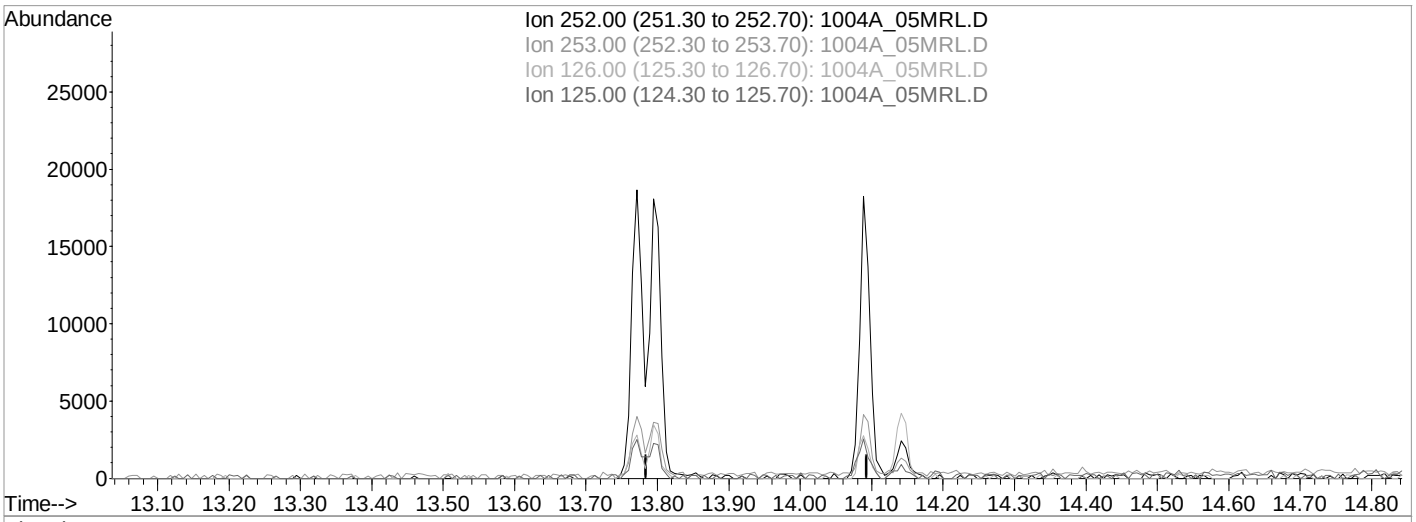
response 19565

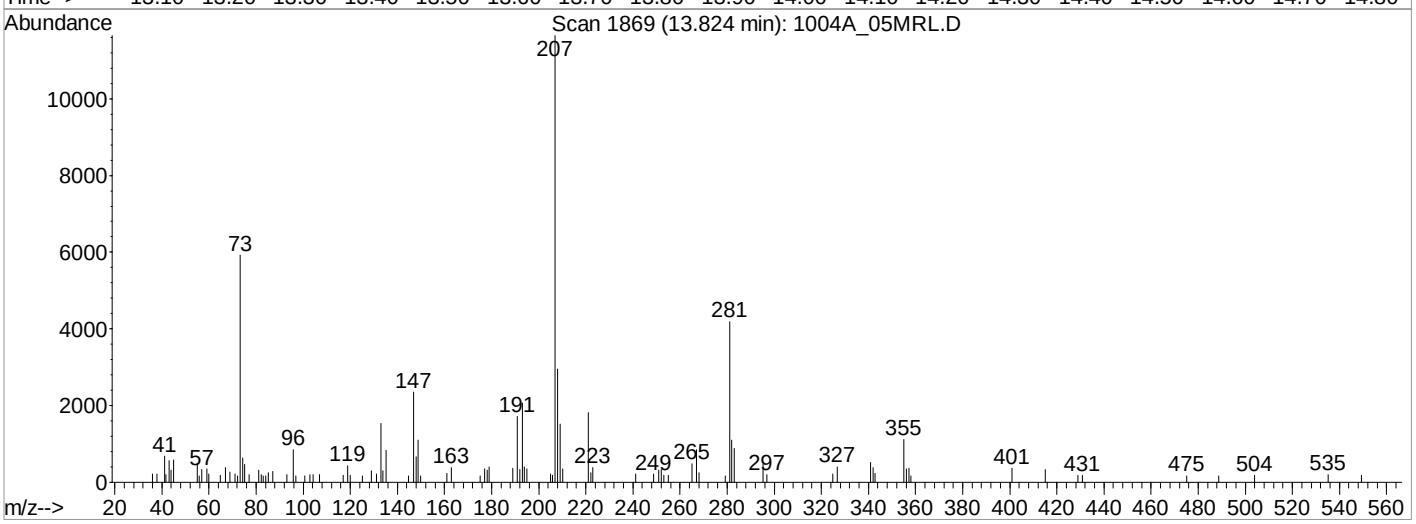
Ion	Exp%	Act%
252.00	100	100
253.00	21.20	21.39
126.00	16.00	15.02
113.00	7.90	7.70

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\100414A\1004A 05MRL.D Vial: 3
Acq On : 4 Oct 2014 1:54 pm Operator: 280
Sample : MRL SVMS 200 PPB 14G09881 Inst : BNAMS11
Misc : 8270 Primary Calibration Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 4 20:23 2014 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\S811J04N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Sat Oct 04 20:15:55 2014
Response via : Multiple Level Calibration





TIC: 1004A_05MRL.D

(90) Benzo(k)fluoranthene (MT)

13.82min (-13.824) 0.0000000 ppb

Qvalue = 0

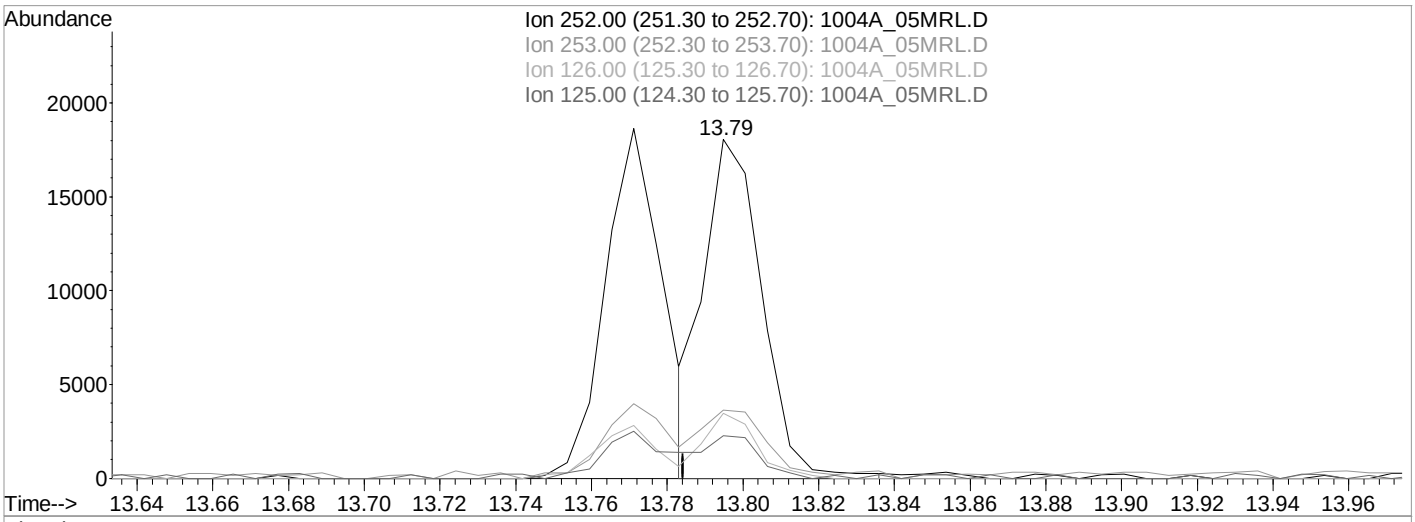
response 0

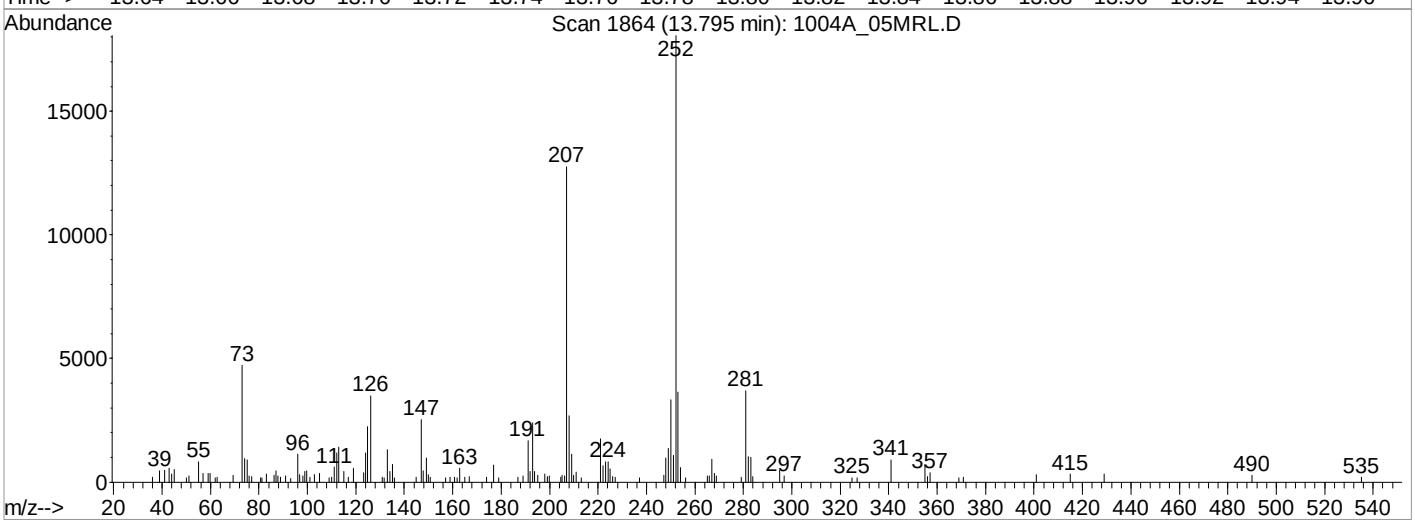
Ion	Exp%	Act%
252.00	100	0.00
253.00	21.60	0.00#
126.00	15.70	0.00
125.00	11.00	0.00

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\100414A\1004A 05MRL.D Vial: 3
Acq On : 4 Oct 2014 1:54 pm Operator: 280
Sample : MRL SVMS 200 PPB 14G09881 Inst : BNAMS11
Misc : 8270 Primary Calibration Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 4 20:23 2014 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\S811J04N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Sat Oct 04 20:15:55 2014
Response via : Multiple Level Calibration





TIC: 1004A_05MRL.D

(90) Benzo(k)fluoranthene (MT)

13.79min (-0.029) 203.1701535 ppb m

response 19272

Ion	Exp%	Act%
252.00	100	100
253.00	21.60	20.13
126.00	15.70	19.21
125.00	11.00	12.47

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\100414A\1004A 07MRL.D Vial: 5
Acq On : 4 Oct 2014 2:36 pm Operator: 280
Sample : MRL SVMS 2K PPB 14G09881 Inst : BNAMS11
Misc : 8270 Primary Calibration Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 4 20:24 2014 Quant Results File: S811J04N.RES

Quant Method : C:\MSDCHEM\1\METHODS\S811J04N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Sat Oct 04 20:15:55 2014
Response via : Initial Calibration
DataAcq Meth : BNA11

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	5.17	152	107558	8000.00 ppb	0.00
22) Naphthalene-d8	6.40	136	449989	8000.00 ppb	0.00
40) Acenaphthene-d10	8.25	164	279609	8000.00 ppb	0.00
64) Phenanthrene-d10	9.85	188	538032	8000.00 ppb	0.00
78) Chrysene-d12	12.69	240	632673	8000.00 ppb	0.00
88) Perylene-d12	14.14	264	699432	8000.00 ppb	0.00

System Monitoring Compounds					
4) 2-Fluorophenol	4.10	112	34408	1971.2593413 ppb	0.01
Spiked Amount 20.000	Range 10 - 74		Recovery = 9856.30%#		
7) Phenol-d5	4.80	99	43445	1944.1565189 ppb	0.00
Spiked Amount 20.000	Range 10 - 63		Recovery = 9720.78%#		
23) Nitrobenzene-d5	5.68	82	43952	1981.6109167 ppb	0.00
Spiked Amount 10.000	Range 28 - 123		Recovery = 19816.11%#		
44) 2-Fluorobiphenyl	7.52	172	98994	1968.9542295 ppb	0.00
Spiked Amount 10.000	Range 35 - 133		Recovery = 19689.54%#		
67) 2,4,6-Tribromophenol	9.09	330	13045	1805.2893307 ppb	0.00
Spiked Amount 20.000	Range 22 - 154		Recovery = 9026.45%#		
81) p-Terphenyl-d14	11.54	244	150205	1869.0718303 ppb	0.00
Spiked Amount 10.000	Range 30 - 148		Recovery = 18690.72%#		

Target Compounds						Qvalue
2) Pyridine	3.17	79	55982	1991.4861141 ppb		98
3) N-Nitrosodimethylamine	3.14	42	34734	1966.7960746 ppb		95
5) Aniline	4.87	66	21977	1935.6158136 ppb		96
6) bis(2-Chloroethyl)ether	4.91	63	30070	2025.7046144 ppb		98
8) Phenol	4.81	94	44456	1980.7080809 ppb		99
9) Benzaldehyde	4.68	105	53	5.7476014 ppb	#	2
10) 2-Chlorophenol	4.98	128	39142	1972.2646424 ppb		96
11) n-Decane	5.00	41	28533	2009.0193955 ppb	#	93
12) 1,3-Dichlorobenzene	5.12	146	44739	2006.5063657 ppb		96
13) 1,4-Dichlorobenzene	5.18	146	45004	1971.8208026 ppb		91
14) Benzyl Alcohol	5.27	79	33268	1849.3752015 ppb		99
15) 1,2-Dichlorobenzene	5.32	146	42718	1999.9635312 ppb		98
16) bis(2-Chloroisopropyl)ethe	5.40	121	12623	2025.8067676 ppb		95
17) 2-Methylphenol	5.36	108	34876	2043.9600566 ppb		92
18) Hexachloroethane	5.64	117	20147	2004.6355100 ppb		93
19) N-Nitrosodi-n-propylamine	5.52	70	29274	2019.8460093 ppb		95
20) 3&4-Methyl phenol	5.50	107	38538	1922.9802036 ppb		95
21) Acetophenone	5.50	105	443	17.3402503 ppb	#	1
24) Nitrobenzene	5.70	77	44552	2010.8993252 ppb		98
25) Isophorone	5.92	82	71428	1932.5589479 ppb		99
26) 2-Nitrophenol	6.01	139	20581	1935.6798366 ppb		94
27) 2,4-Dimethylphenol	6.02	107	44291	2050.3495804 ppb		99
28) bis(2-Chlorethoxy)methane	6.12	93	47524	2006.7525205 ppb		98
29) 2,4-Dichlorophenol	6.24	162	32002	1886.5965594 ppb		96
30) Benzoic Acid	6.07	105	66	1121.3225373 ppb	#	10
31) 1,2,4-Trichlorobenzene	6.34	180	40061	1980.5173015 ppb		93
32) Naphthalene	6.42	128	125279	1957.2646283 ppb		99
33) 4-Chloroaniline	6.46	65	17332	1975.0940194 ppb		93
34) Hexachloro-1,3-butadiene	6.54	225	26775	1988.9131278 ppb		96
35) Caprolactam	6.67	113	53	10.0495216 ppb	#	1
36) 4-Chloro-3-methylphenol	6.95	107	38330	1931.8245804 ppb		94
37) 2-Methylnaphthalene	7.14	142	90475	1974.3226032 ppb		99
38) 1-Methylnaphthalene	7.24	142	84395	1996.6423750 ppb		97

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\100414A\1004A 07MRL.D Vial: 5
Acq On : 4 Oct 2014 2:36 pm Operator: 280
Sample : MRL SVMS 2K PPB 14G09881 Inst : BNAMS11
Misc : 8270 Primary Calibration Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 4 20:24 2014 Quant Results File: S811J04N.RES

Quant Method : C:\MSDCHEM\1\METHODS\S811J04N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Sat Oct 04 20:15:55 2014
Response via : Initial Calibration
DataAcq Meth : BNA11

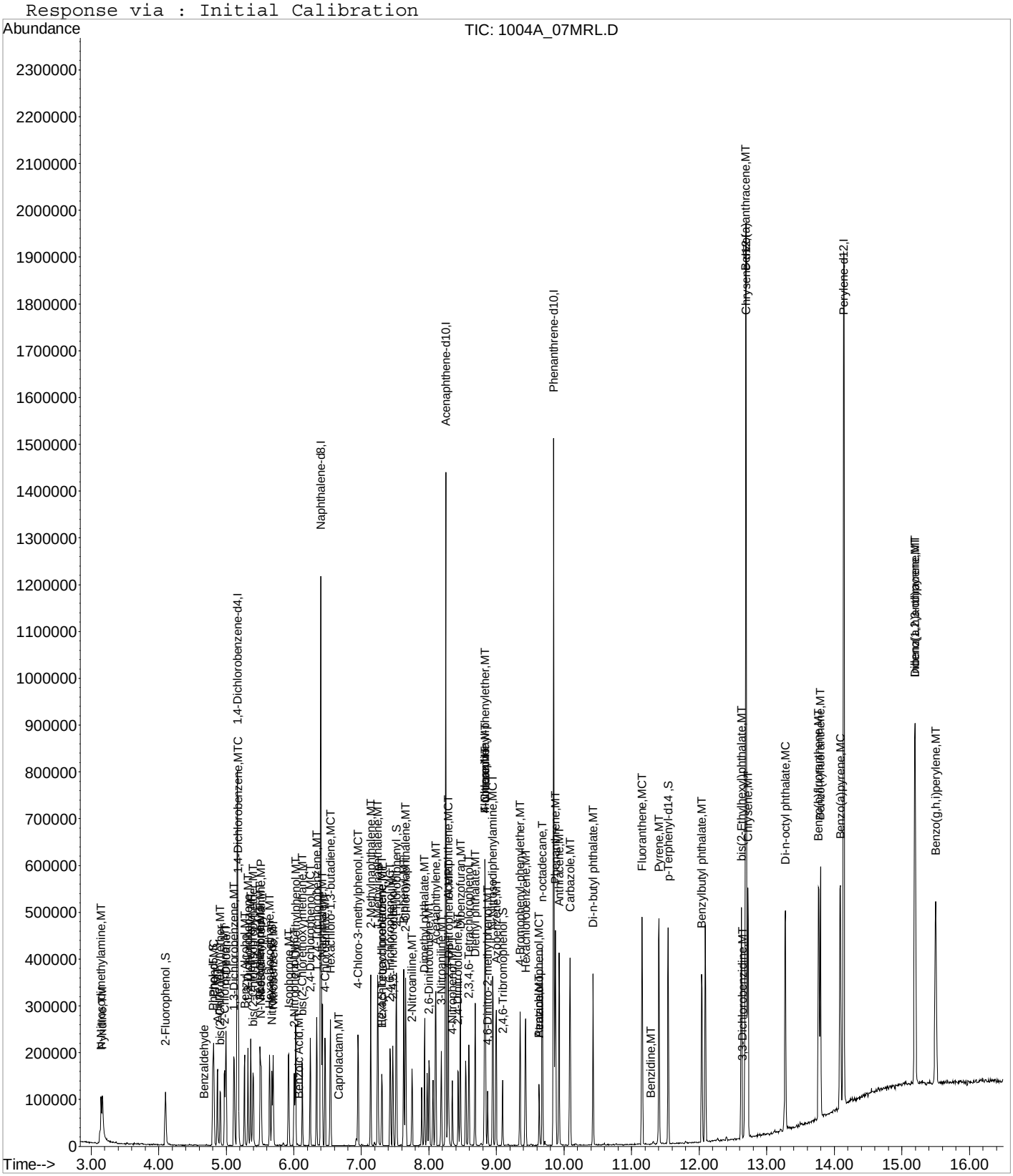
	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
39)	1,2,4,5-Tetrachlorobenzene	7.31	216	58	2.6992884	ppb	#	17
41)	Hexachlorocyclopentadiene	7.30	237	22290	1565.6752428	ppb		93
42)	2,4,6-Trichlorophenol	7.42	196	25757	1915.0276379	ppb		94
43)	2,4,5-Trichlorophenol	7.47	196	26755	1888.5200098	ppb		96
45)	Biphenyl	7.62	154	113198	2019.7564693	ppb		98
46)	2-Chloronaphthalene	7.65	162	85508	1997.4896709	ppb		99
47)	2-Nitroaniline	7.75	138	22795	1651.5587703	ppb		96
48)	Acenaphthylene	8.10	152	135558	1974.9224706	ppb		99
49)	Dimethyl phthalate	7.94	163	94988	1975.6870193	ppb		94
50)	2,6-Dinitrotoluene	8.01	165	20686	1879.4658092	ppb		95
51)	3-Nitroaniline	8.18	138	23620	1922.1141766	ppb		95
52)	Acenaphthene	8.28	153	90737	1954.7418455	ppb		99
53)	2,4-Dinitrophenol	8.30	184	7782	2388.5080953	ppb	#	86
54)	Dibenzofuran	8.47	168	126542	1993.5136664	ppb		99
55)	2,4-Dinitrotoluene	8.44	165	25937	1718.2879889	ppb		92
56)	2,3,4,6-Tetrachlorophenol	8.59	232	22865	2299.5722271	ppb		91
57)	4-Nitrophenol	8.35	139	16501	1671.7240401	ppb	#	81
58)	Fluorene	8.84	166	105330	1976.1841153	ppb		97
59)	4-Chlorophenyl-phenylether	8.82	204	49858	1862.9488152	ppb		96
60)	Diethyl phthalate	8.68	149	100631	1895.3315475	ppb		97
61)	4-Nitroaniline	8.84	138	22444	1858.1710274	ppb		97
62)	Azobenzene	9.00	77	107003	1925.1438824	ppb		98
63)	Atrazine	9.63	200	2402	176.1354391	ppb	#	5
65)	4,6-Dinitro-2-methylphenol	8.87	198	13951	1543.7282131	ppb		93
66)	N-Nitrosodiphenylamine	8.94	169	86831	1948.2068446	ppb		100
68)	4-Bromophenyl-phenylether	9.35	248	27602	1866.5910713	ppb		92
69)	Hexachlorobenzene	9.43	284	31533	1927.4672424	ppb		96
70)	n-octadecane	9.68	55	19910	1816.1191641	ppb	#	96
71)	Pentachlorophenol	9.63	266	13699	1578.7652266	ppb		96
72)	Phenanthrene	9.87	178	153923	1914.7561852	ppb		98
73)	Anthracene	9.92	178	152417	1924.6443457	ppb		99
74)	Carbazole	10.09	167	151032	1952.6844638	ppb		99
75)	Di-n-butyl phthalate	10.43	149	181901	1802.8346611	ppb		98
76)	2-nitrodiphenylamine	0.00	167	0	N.D.			
77)	Fluoranthene	11.15	202	192611	1897.0425078	ppb		99
79)	Benzidine	11.28	184	56	771.7915612	ppb	#	68
80)	Pyrene	11.41	202	204379	1908.8563692	ppb		99
82)	Benzylbutyl phthalate	12.04	149	82832	1680.8150347	ppb		99
83)	3,3-Dichlorobenzidine	12.64	252	55	1.4755614	ppb	#	32
84)	Benzo(a)anthracene	12.68	228	209059	1941.3974914	ppb		96
85)	Chrysene	12.72	228	189385	1933.1233970	ppb		100
86)	bis(2-Ethylhexyl)phthalate	12.62	149	126904	1628.3588244	ppb		100
87)	Di-n-octyl phthalate	13.28	149	227204	1762.2449517	ppb		99
89)	Benzo(b)fluoranthene	13.77	252	222853m	1980.1654800	ppb		
90)	Benzo(k)fluoranthene	13.79	252	190991m	1833.7694406	ppb		
91)	Benzo(a)pyrene	14.09	252	199650	1877.2866978	ppb		98
92)	Indeno(1,2,3-cd)pyrene	15.19	276	245343	1927.8202746	ppb		99
93)	Dibenz(a,h)anthracene	15.19	278	208732	1910.3614964	ppb		99
94)	Benzo(g,h,i)perylene	15.50	276	207088	2020.2982180	ppb		98

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\100414A\1004A 07MRL.D Vial: 5
Acq On : 4 Oct 2014 2:36 pm Operator: 280
Sample : MRL SVMS 2K PPB 14G09881 Inst : BNAMS11
Misc : 8270 Primary Calibration Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 4 20:24 2014 Quant Results File: S811J04N.RES

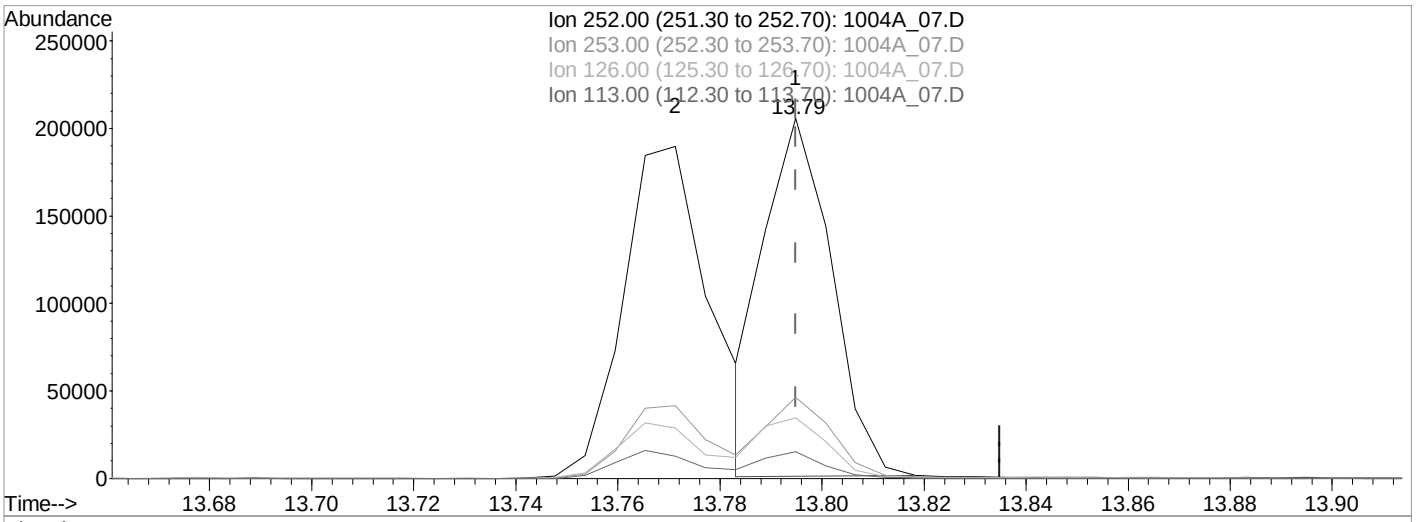
Method : C:\MSDCHEM\1\METHODS\S811J04N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Sat Oct 04 20:15:55 2014
Response via : Initial Calibration

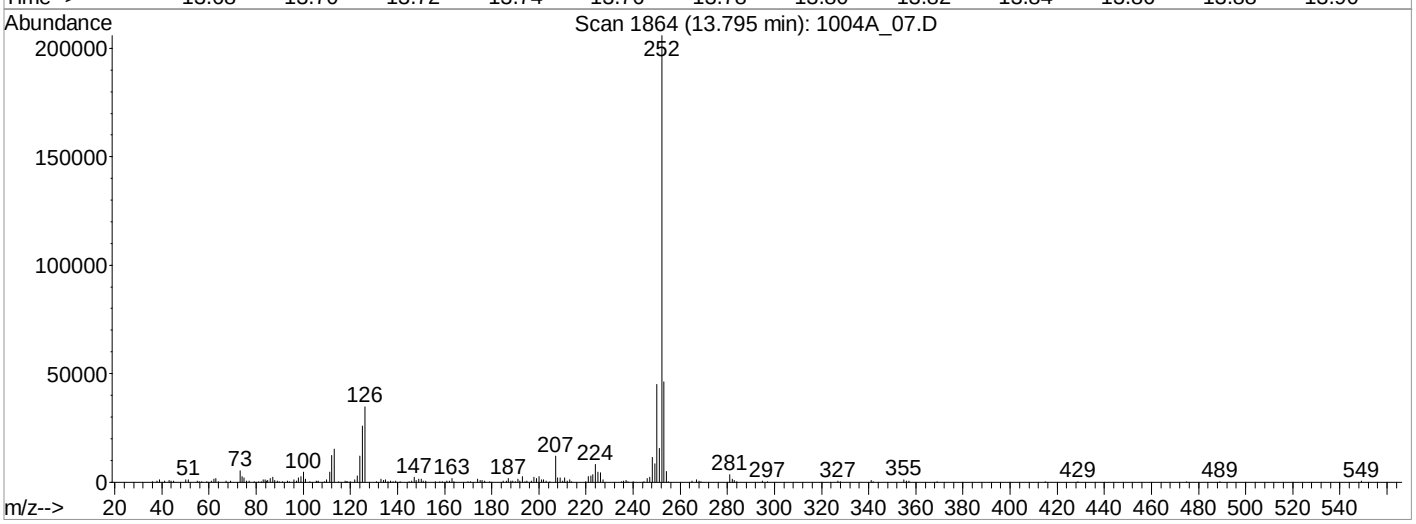


Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\100414A\1004A 07.D Vial: 5
Acq On : 4 Oct 2014 2:36 pm Operator: 280
Sample : STD SVMS 2K PPB 14G09881 Inst : BNAMS11
Misc : 8270 Primary Calibration Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 4 18:14 2014 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\S811J04N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Sat Oct 04 18:13:24 2014
Response via : Multiple Level Calibration





TIC: 1004A_07.D

(89) Benzo(b)fluoranthene (MT)

13.79min (-0.000) 1732.5847017 ppb

Qvalue = 98

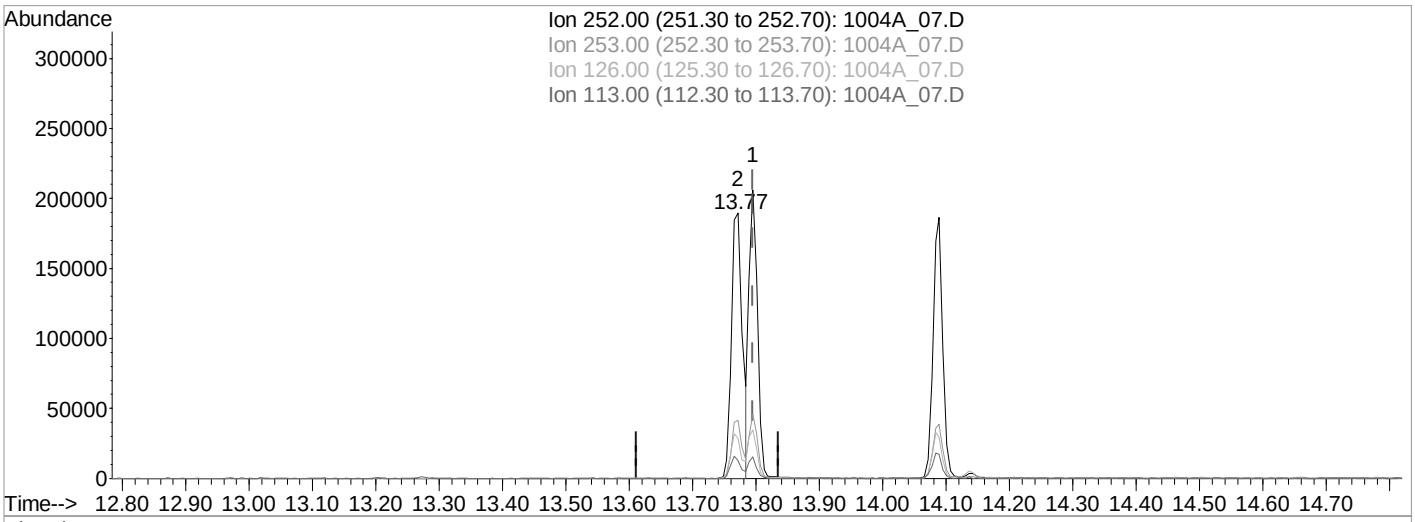
response 188168

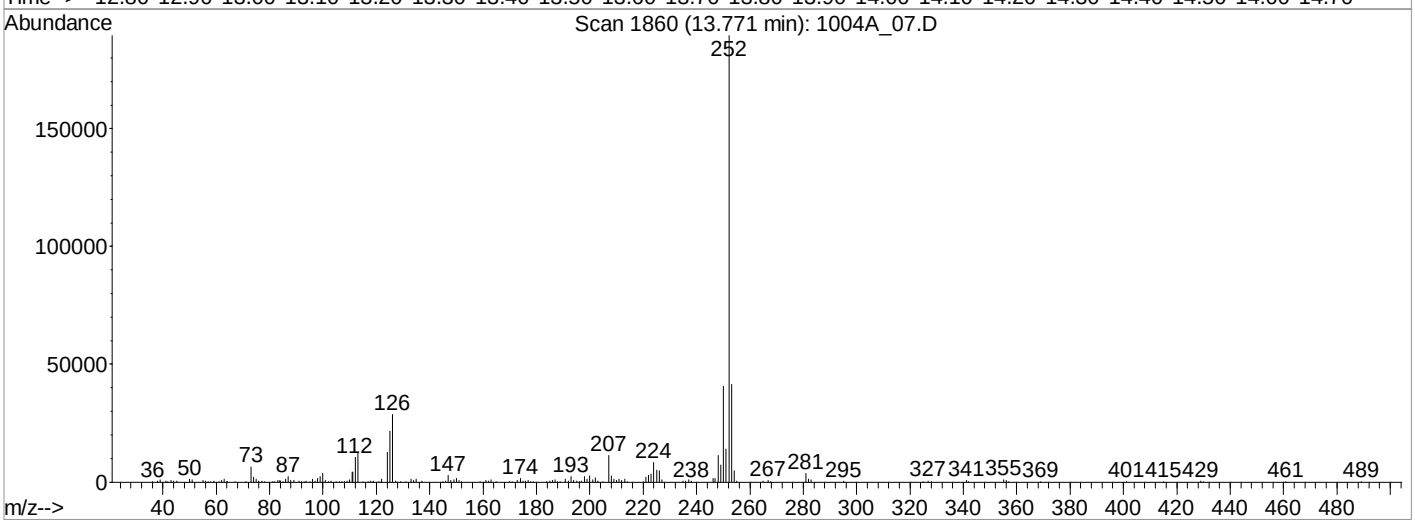
Ion	Exp%	Act%
252.00	100	100
253.00	21.20	22.68
126.00	16.00	16.49
113.00	7.90	7.32

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\100414A\1004A 07.D Vial: 5
Acq On : 4 Oct 2014 2:36 pm Operator: 280
Sample : STD SVMS 2K PPB 14G09881 Inst : BNAMS11
Misc : 8270 Primary Calibration Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 4 18:15 2014 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\S811J04N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Sat Oct 04 18:13:24 2014
Response via : Multiple Level Calibration





TIC: 1004A_07.D

(89) Benzo(b)fluoranthene (MT)

13.77min (-0.024) 2051.9519713 ppb m

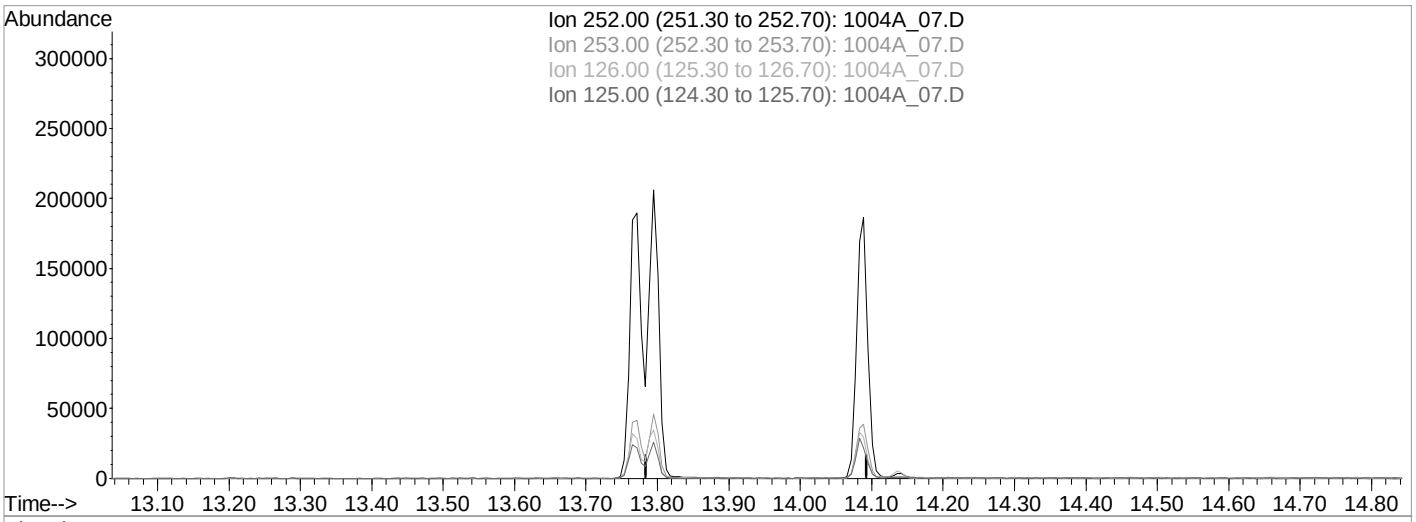
response 222853

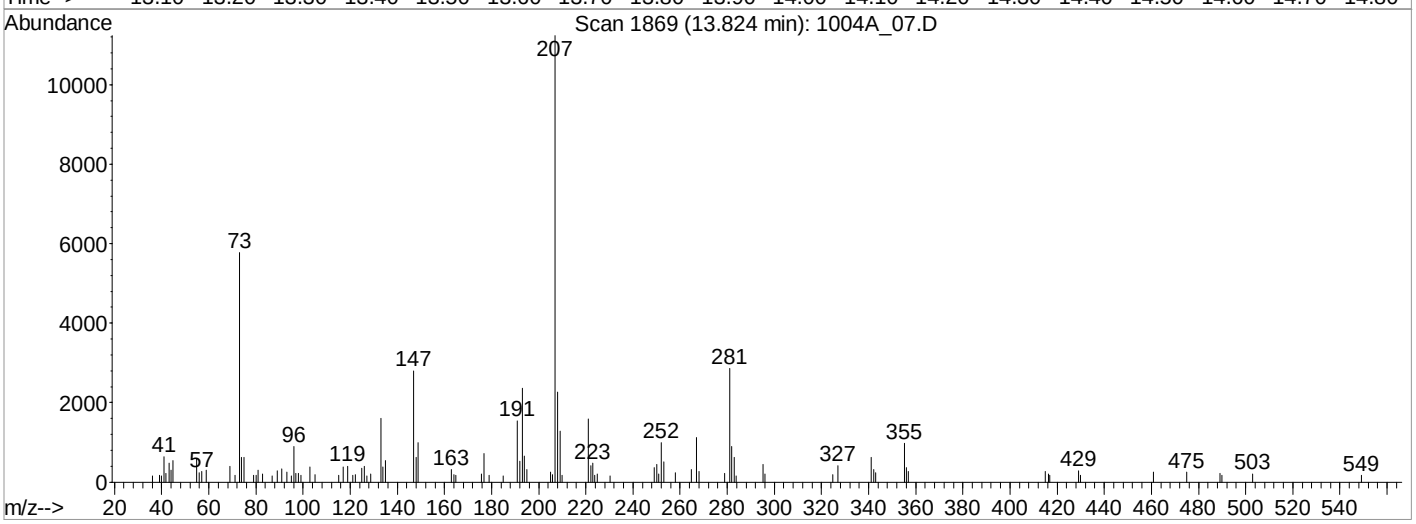
Ion	Exp%	Act%
252.00	100	100
253.00	21.20	21.90
126.00	16.00	15.14
113.00	7.90	6.61

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\100414A\1004A 07.D Vial: 5
Acq On : 4 Oct 2014 2:36 pm Operator: 280
Sample : STD SVMS 2K PPB 14G09881 Inst : BNAMS11
Misc : 8270 Primary Calibration Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 4 18:15 2014 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\S811J04N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Sat Oct 04 18:13:24 2014
Response via : Multiple Level Calibration





TIC: 1004A_07.D

(90) Benzo(k)fluoranthene (MT)

13.82min (-13.824) 0.0000000 ppb

Qvalue = 0

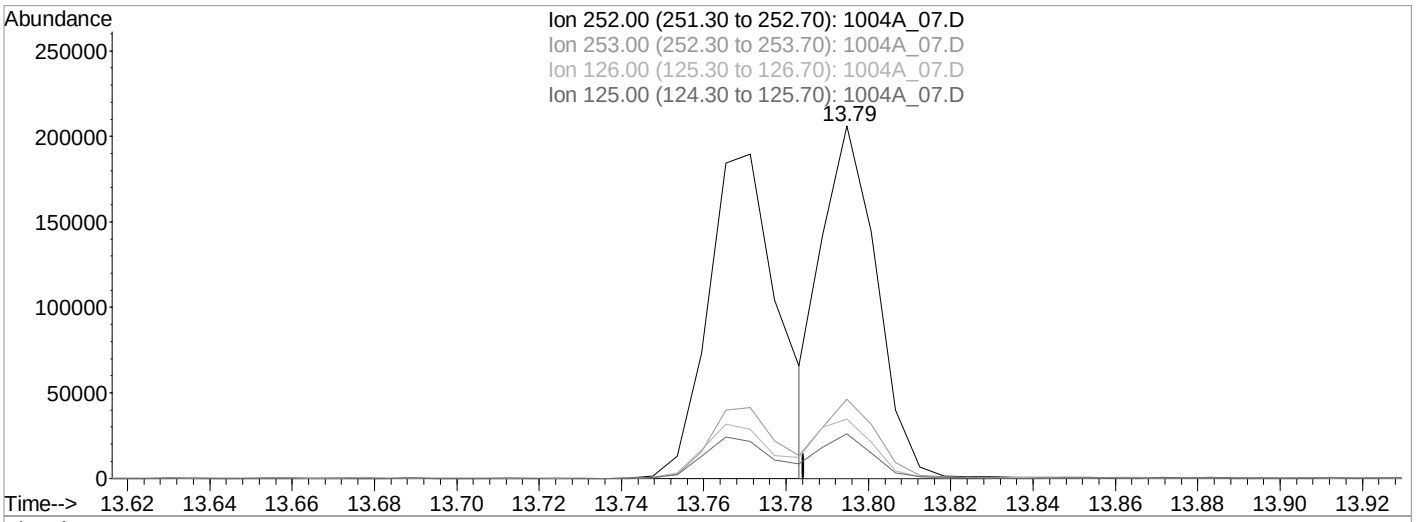
response 0

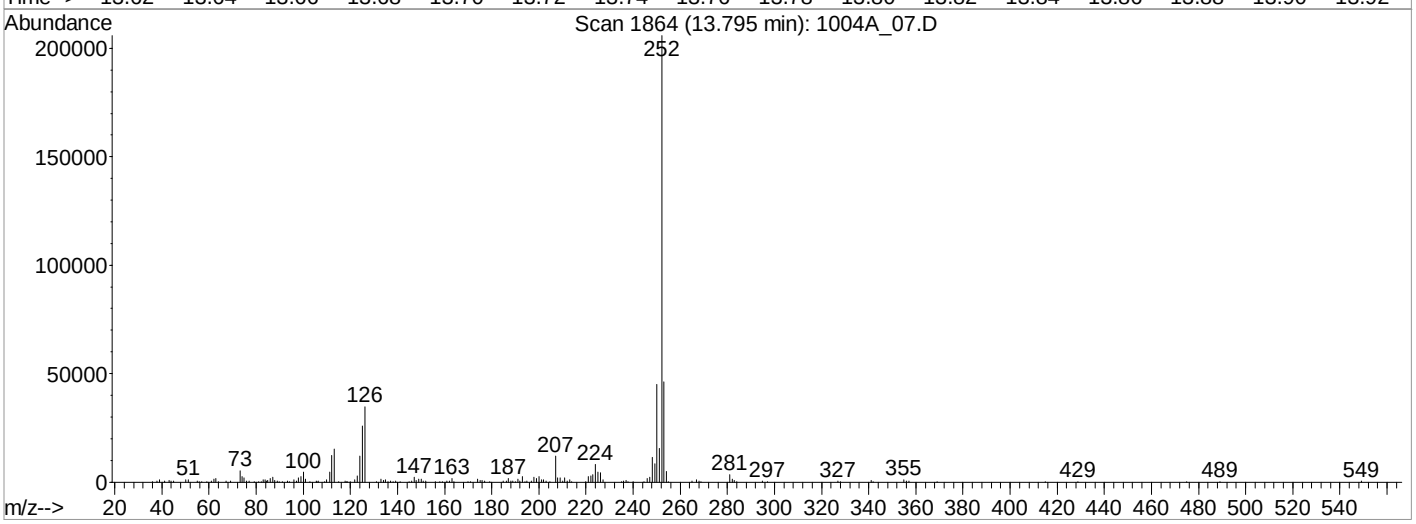
Ion	Exp%	Act%
252.00	100	0.00
253.00	21.60	0.00#
126.00	15.70	0.00
125.00	11.00	0.00

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\100414A\1004A 07.D Vial: 5
Acq On : 4 Oct 2014 2:36 pm Operator: 280
Sample : STD SVMS 2K PPB 14G09881 Inst : BNAMS11
Misc : 8270 Primary Calibration Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 4 18:15 2014 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\S811J04N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Sat Oct 04 18:13:24 2014
Response via : Multiple Level Calibration





TIC: 1004A_07.D

(90) Benzo(k)fluoranthene (MT)

13.79min (-0.029) 1807.1942244 ppb m

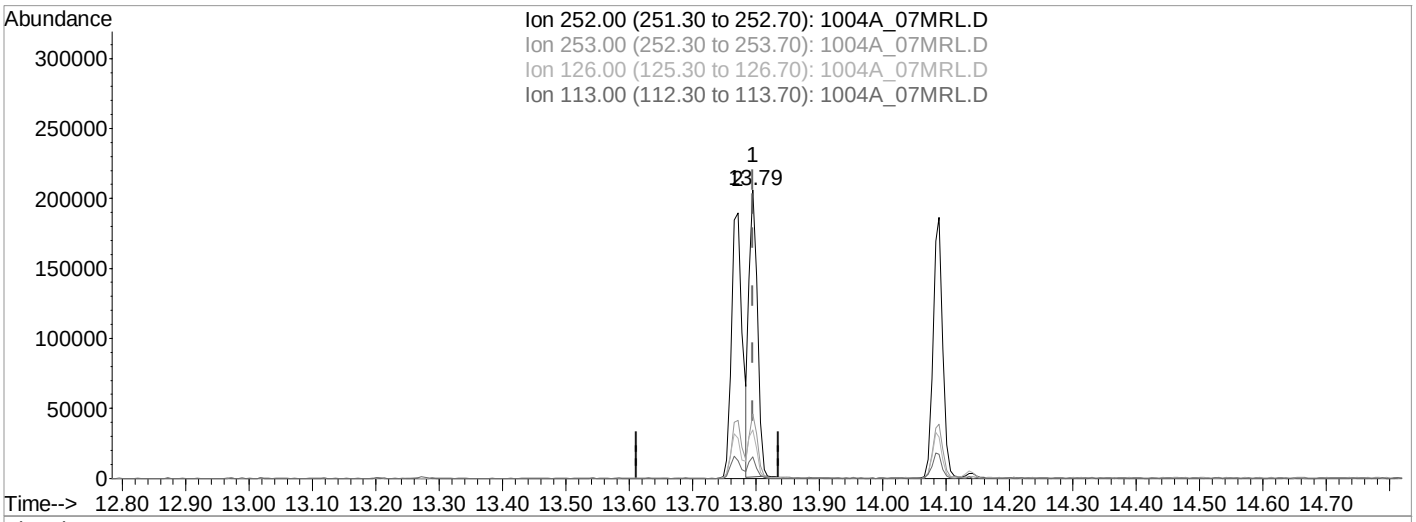
response 191335

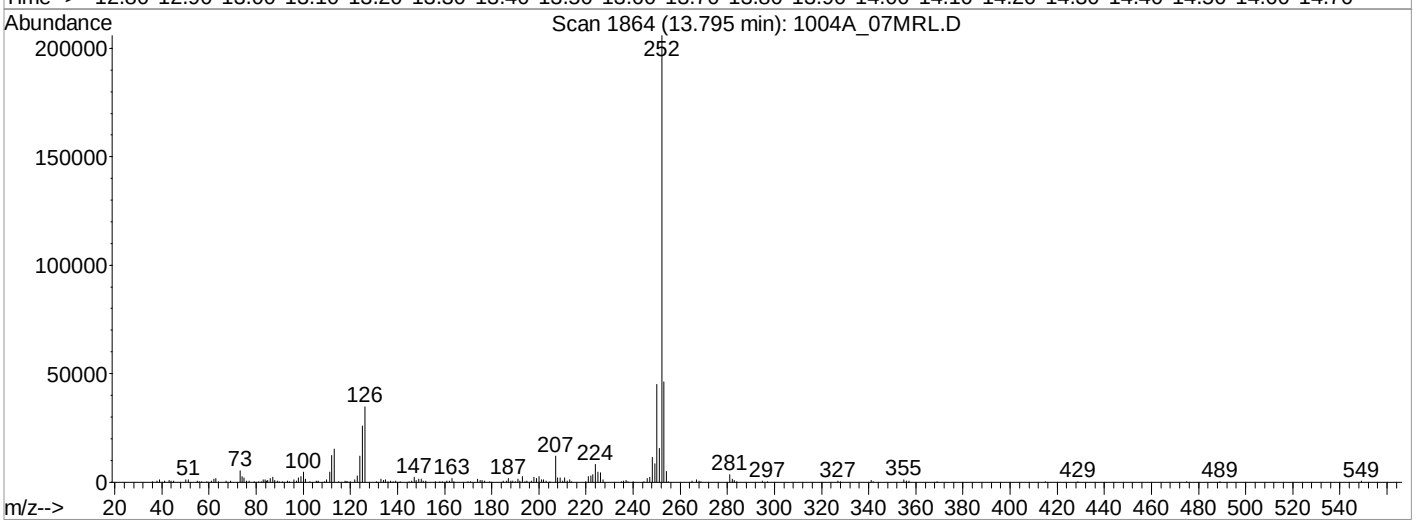
Ion	Exp%	Act%
252.00	100	100
253.00	21.60	22.41
126.00	15.70	16.79
125.00	11.00	12.55

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\100414A\1004A 07MRL.D Vial: 5
Acq On : 4 Oct 2014 2:36 pm Operator: 280
Sample : MRL SVMS 2K PPB 14G09881 Inst : BNAMS11
Misc : 8270 Primary Calibration Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 4 20:16 2014 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\S811J04N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Sat Oct 04 20:15:55 2014
Response via : Multiple Level Calibration





TIC: 1004A_07MRL.D

(89) Benzo(b)fluoranthene (MT)

13.79min (-0.000) 1671.9711112 ppb

Qvalue = 98

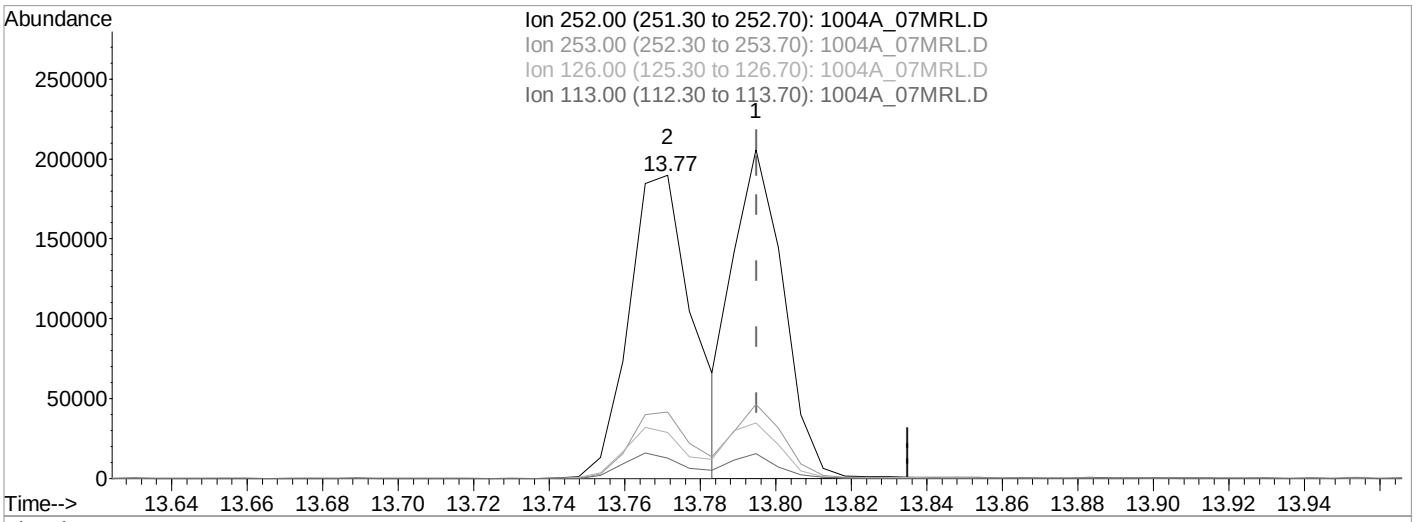
response 188168

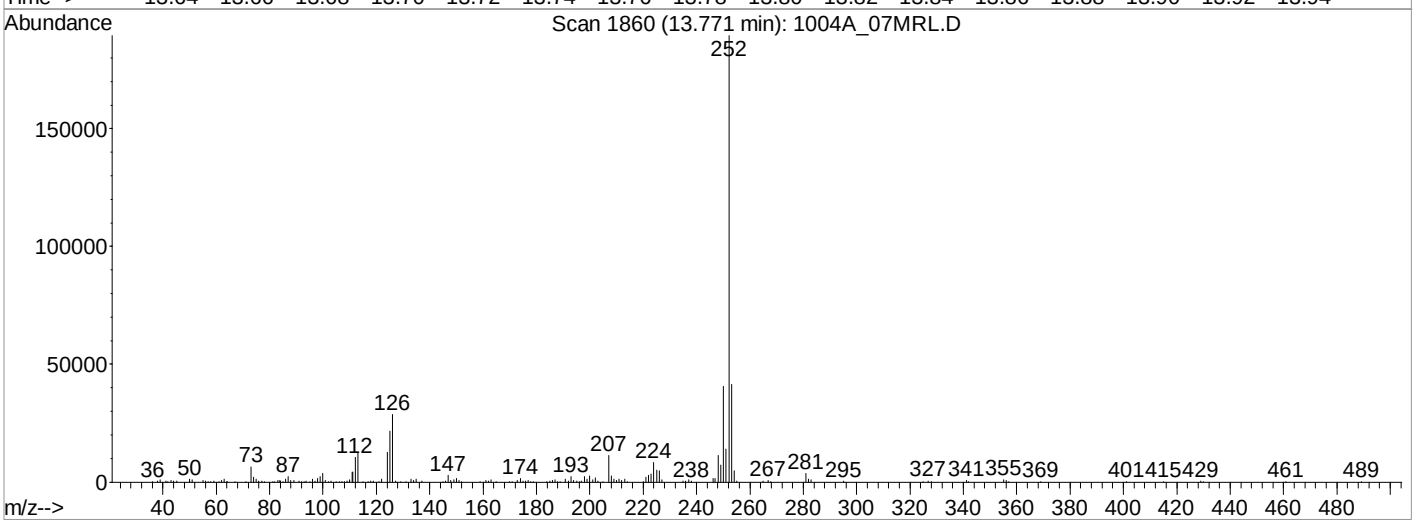
Ion	Exp%	Act%
252.00	100	100
253.00	21.20	22.68
126.00	16.00	16.49
113.00	7.90	7.32

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\100414A\1004A 07MRL.D Vial: 5
Acq On : 4 Oct 2014 2:36 pm Operator: 280
Sample : MRL SVMS 2K PPB 14G09881 Inst : BNAMS11
Misc : 8270 Primary Calibration Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 4 20:24 2014 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\S811J04N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Sat Oct 04 20:15:55 2014
Response via : Multiple Level Calibration





TIC: 1004A_07MRL.D

(89) Benzo(b)fluoranthene (MT)

13.77min (-0.024) 1980.1654800 ppb m

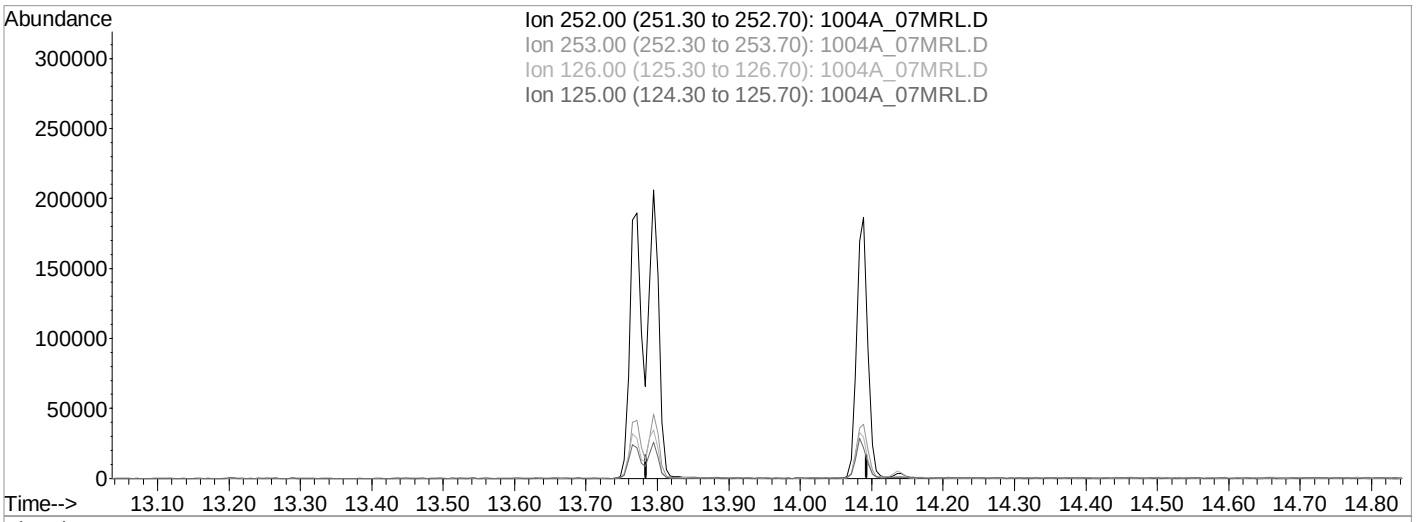
response 222853

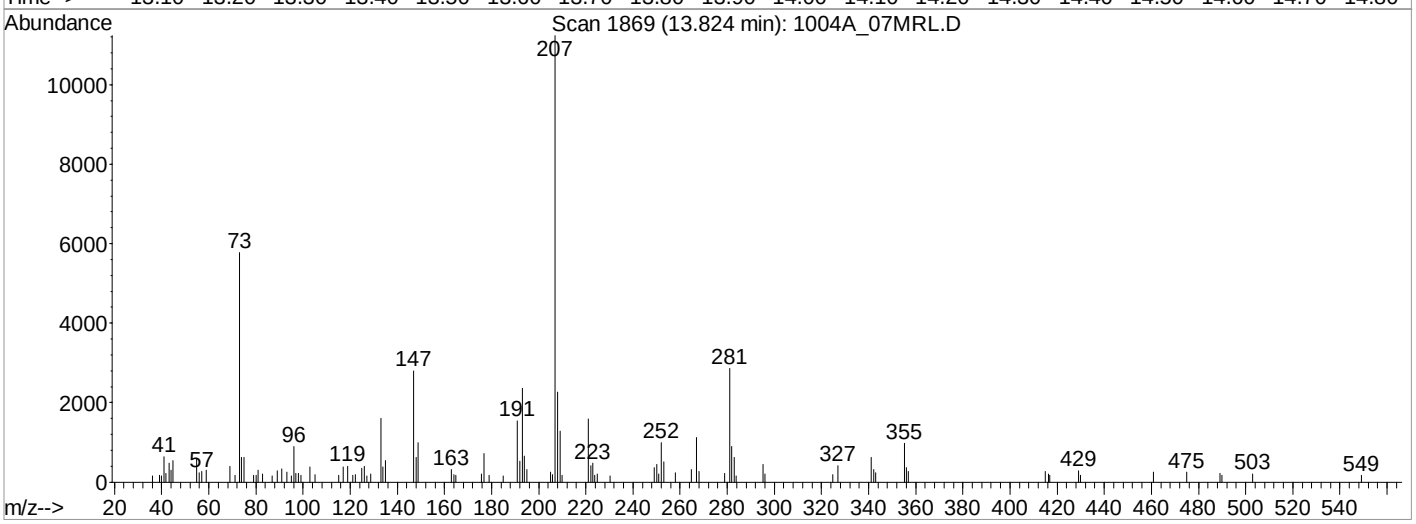
Ion	Exp%	Act%
252.00	100	100
253.00	21.20	21.90
126.00	16.00	15.14
113.00	7.90	6.61

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\100414A\1004A 07MRL.D Vial: 5
Acq On : 4 Oct 2014 2:36 pm Operator: 280
Sample : MRL SVMS 2K PPB 14G09881 Inst : BNAMS11
Misc : 8270 Primary Calibration Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 4 20:24 2014 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\S811J04N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Sat Oct 04 20:15:55 2014
Response via : Multiple Level Calibration





TIC: 1004A_07MRL.D

(90) Benzo(k)fluoranthene (MT)

13.82min (-13.824) 0.0000000 ppb

Qvalue = 0

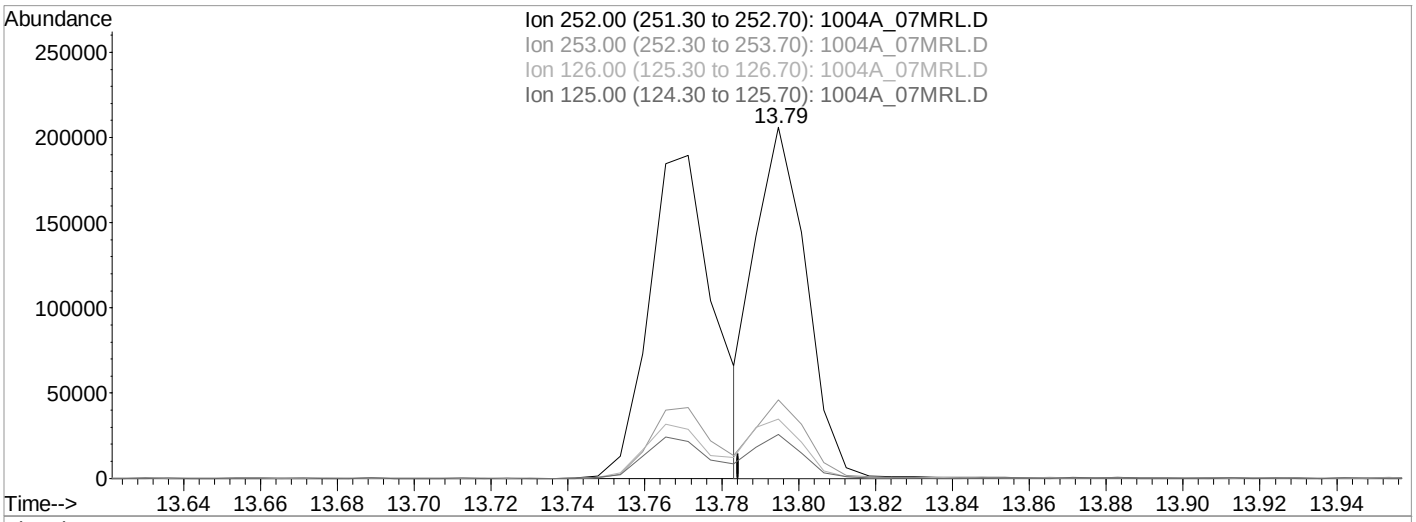
response 0

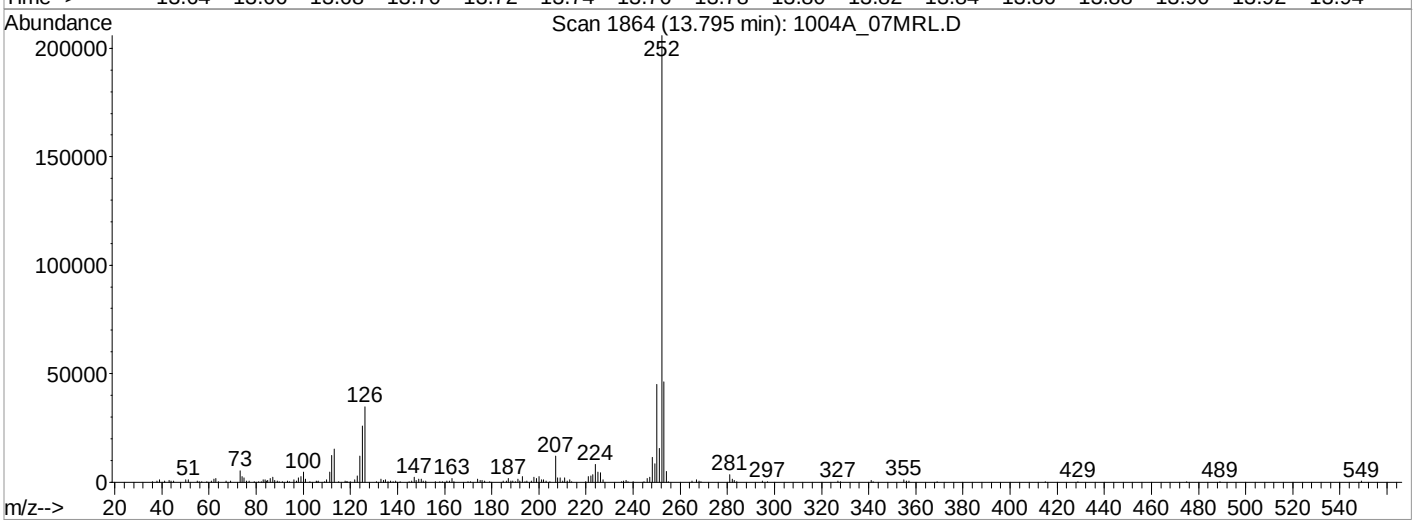
Ion	Exp%	Act%
252.00	100	0.00
253.00	21.60	0.00#
126.00	15.70	0.00
125.00	11.00	0.00

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\100414A\1004A 07MRL.D Vial: 5
Acq On : 4 Oct 2014 2:36 pm Operator: 280
Sample : MRL SVMS 2K PPB 14G09881 Inst : BNAMS11
Misc : 8270 Primary Calibration Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 4 20:24 2014 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\S811J04N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Sat Oct 04 20:15:55 2014
Response via : Multiple Level Calibration





TIC: 1004A_07MRL.D

(90) Benzo(k)fluoranthene (MT)

13.79min (-0.029) 1833.7694406 ppb m

response 190991

Ion	Exp%	Act%
252.00	100	100
253.00	21.60	22.41
126.00	15.70	16.79
125.00	11.00	12.55

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\100414A\1004A 16MRL.D Vial: 14
Acq On : 4 Oct 2014 5:47 pm Operator: 280
Sample : MRL TCL 2K1 PPB 14G21532 Inst : BNAMS11
Misc : 8270 TCL Calibration Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 4 20:18 2014 Quant Results File: S811J04N.RES

Quant Method : C:\MSDCHEM\1\METHODS\S811J04N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Sat Oct 04 20:15:55 2014
Response via : Initial Calibration
DataAcq Meth : BNA11

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	5.17	152	95348	8000.00 ppb	0.00
22) Naphthalene-d8	6.40	136	394898	8000.00 ppb	0.00
40) Acenaphthene-d10	8.25	164	244380	8000.00 ppb	0.00
64) Phenanthrene-d10	9.84	188	449578	8000.00 ppb	0.00
78) Chrysene-d12	12.69	240	524945	8000.00 ppb	0.00
88) Perylene-d12	14.14	264	621451	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	0	0.0000000 ppb	
Spiked Amount 20.000	Range 10 - 63		Recovery = 0.00%#		
23) Nitrobenzene-d5	5.62	82	58	2.9797834 ppb	-0.05
Spiked Amount 10.000	Range 28 - 123		Recovery = 29.80%		
44) 2-Fluorobiphenyl	0.00	172	0	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	3.15	79	60	2.4077492 ppb	#	39
3) N-Nitrosodimethylamine	3.10	42	57	3.6409148 ppb	#	1
5) Aniline	0.00	66	0	N.D.		
6) bis(2-Chloroethyl)ether	4.78	63	731	55.5509124 ppb	#	10
8) Phenol	0.00	94	0	N.D.		
9) Benzaldehyde	4.79	105	14275	1746.2966322 ppb		96
10) 2-Chlorophenol	0.00	128	0	N.D.		
11) n-Decane	4.89	41	54	4.2890547 ppb	#	46
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.		
15) 1,2-Dichlorobenzene	0.00	146	0	N.D.		
16) bis(2-Chloroisopropyl)ethe	5.52	121	1008	182.4849689 ppb	#	1
17) 2-Methylphenol	0.00	108	0	N.D.		
18) Hexachloroethane	0.00	117	0	N.D.		
19) N-Nitrosodi-n-propylamine	0.00	70	0	N.D.		
20) 3&4-Methyl phenol	5.52	107	129	7.2611679 ppb	#	1
21) Acetophenone	5.52	105	44187	1951.0899073 ppb		99
24) Nitrobenzene	5.52	77	38216	1965.5555178 ppb	#	62
25) Isophorone	0.00	82	0	N.D.		
26) 2-Nitrophenol	0.00	139	0	N.D.		
27) 2,4-Dimethylphenol	0.00	107	0	N.D.		
28) bis(2-Chlorethoxy)methane	6.08	93	54	2.5983135 ppb	#	55
29) 2,4-Dichlorophenol	0.00	162	0	N.D.		
30) Benzoic Acid	6.06	105	9289	2063.6772643 ppb		99
31) 1,2,4-Trichlorobenzene	6.34	180	130	7.3234744 ppb	#	66
32) Naphthalene	6.42	128	2269	40.3945458 ppb		87
33) 4-Chloroaniline	6.40	65	1609	208.9354347 ppb	#	1
34) Hexachloro-1,3-butadiene	0.00	225	0	N.D.		
35) Caprolactam	6.78	113	8415	1818.1955985 ppb		97
36) 4-Chloro-3-methylphenol	0.00	107	0	N.D.		
37) 2-Methylnaphthalene	0.00	142	0	N.D.		
38) 1-Methylnaphthalene	7.31	142	248	6.6857820 ppb	#	58

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\100414A\1004A 16MRL.D Vial: 14
Acq On : 4 Oct 2014 5:47 pm Operator: 280
Sample : MRL TCL 2K1 PPB 14G21532 Inst : BNAMS11
Misc : 8270 TCL Calibration Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 4 20:18 2014 Quant Results File: S811J04N.RES

Quant Method : C:\MSDCHEM\1\METHODS\S811J04N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Sat Oct 04 20:15:55 2014
Response via : Initial Calibration
DataAcq Meth : BNA11

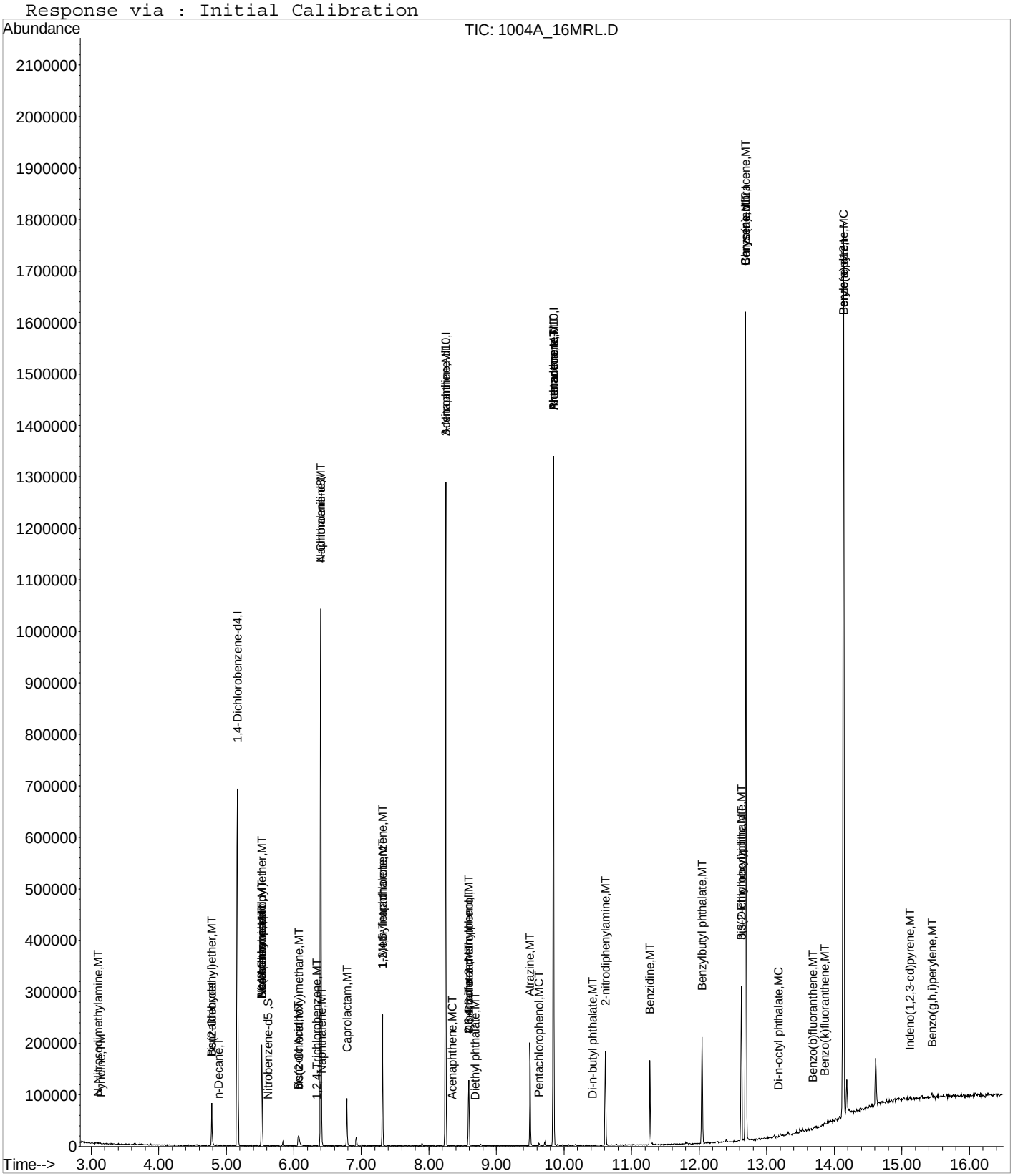
	Compound	R.T.	QIon	Response	Conc Unit		Qvalue
39)	1,2,4,5-Tetrachlorobenzene	7.31	216	36893	1956.5107168 ppb		98
41)	Hexachlorocyclopentadiene	0.00	237	0	N.D.		
42)	2,4,6-Trichlorophenol	0.00	196	0	N.D.		
43)	2,4,5-Trichlorophenol	0.00	196	0	N.D.		
45)	Biphenyl	0.00	154	0	N.D.		
46)	2-Chloronaphthalene	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	8.25	138	56	5.2140213 ppb	#	1
52)	Acenaphthene	8.35	153	61	1.5035584 ppb	#	17
53)	2,4-Dinitrophenol	0.00	184	0	N.D.		
54)	Dibenzofuran	8.59	168	4428	79.8137325 ppb	#	39
55)	2,4-Dinitrotoluene	0.00	165	0	N.D.		
56)	2,3,4,6-Tetrachlorophenol	8.59	232	14603	1680.3641992 ppb		86
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	8.69	149	57	1.2283263 ppb		65
61)	4-Nitroaniline	0.00	138	0	N.D.		
62)	Azobenzene	0.00	77	0	N.D.		
63)	Atrazine	9.50	200	19758	1657.6857731 ppb		98
65)	4,6-Dinitro-2-methylphenol	8.60	198	666	88.1947609 ppb	#	22
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	9.84	55	638	69.6461021 ppb	#	1
71)	Pentachlorophenol	9.63	266	818	333.3996827 ppb	#	88
72)	Phenanthrene	9.85	178	208	3.0965376 ppb	#	1
73)	Anthracene	9.85	178	208	3.1432829 ppb	#	1
74)	Carbazole	0.00	167	0	N.D.		
75)	Di-n-butyl phthalate	10.42	149	123	1.4589116 ppb		78
76)	2-nitrodiphenylamine	10.61	167	22331	1924.7199023 ppb		94
77)	Fluoranthene	0.00	202	0	N.D.		
79)	Benzidine	11.27	184	57996	1897.4600612 ppb		99
80)	Pyrene	0.00	202	0	N.D.		
82)	Benzylbutyl phthalate	12.04	149	76	1.8586639 ppb	#	1
83)	3,3-Dichlorobenzidine	12.62	252	55596	1797.6437360 ppb		99
84)	Benzo(a)anthracene	12.69	228	1369	15.3219676 ppb	#	1
85)	Chrysene	12.69	228	1369	16.8415843 ppb	#	50
86)	bis(2-Ethylhexyl)phthalate	12.62	149	2556	39.5276639 ppb		69
87)	Di-n-octyl phthalate	13.17	149	448	4.1878760 ppb		73
89)	Benzo(b)fluoranthene	13.68	252	61	0.6100303 ppb	#	61
90)	Benzo(k)fluoranthene	13.87	252	58	0.6267559 ppb		73
91)	Benzo(a)pyrene	14.14	252	2759	29.1978986 ppb	#	10
92)	Indeno(1,2,3-cd)pyrene	15.12	276	57	0.5040880 ppb	#	48
93)	Dibenz(a,h)anthracene	0.00	278	0	N.D.		
94)	Benzo(g,h,i)perylene	15.45	276	117	1.2846506 ppb	#	50

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\100414A\1004A 16MRL.D Vial: 14
Acq On : 4 Oct 2014 5:47 pm Operator: 280
Sample : MRL TCL 2K1 PPB 14G21532 Inst : BNAMS11
Misc : 8270 TCL Calibration Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 4 20:18 2014 Quant Results File: S811J04N.RES

Method : C:\MSDCHEM\1\METHODS\S811J04N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Sat Oct 04 20:15:55 2014
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\100414A\1004A 22.D Vial: 20
Acq On : 4 Oct 2014 7:55 pm Operator: 280
Sample : SSCV SVMS 10K PPB 14C29003 Inst : BNAMS11
Misc : 8270 sscv Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 4 20:26 2014 Quant Results File: S811J04N.RES

Quant Method : C:\MSDCHEM\1\METHODS\S811J04N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Sat Oct 04 20:15:55 2014
Response via : Initial Calibration
DataAcq Meth : BNA11

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	5.17	152	96109	8000.00 ppb	0.00
22) Naphthalene-d8	6.40	136	404710	8000.00 ppb	0.00
40) Acenaphthene-d10	8.25	164	252988	8000.00 ppb	0.00
64) Phenanthrene-d10	9.85	188	481394	8000.00 ppb	0.00
78) Chrysene-d12	12.70	240	583757	8000.00 ppb	0.00
88) Perylene-d12	14.14	264	677535	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	4.97	99	12125	607.2280588 ppb	0.18
Spiked Amount 20.000	Range 10 - 63		Recovery = 3036.14%#		
23) Nitrobenzene-d5	5.64	82	28125	1409.9062547 ppb	-0.03
Spiked Amount 10.000	Range 28 - 123		Recovery = 14099.06%#		
44) 2-Fluorobiphenyl	7.47	172	236	5.1878806 ppb	-0.05
Spiked Amount 10.000	Range 35 - 133		Recovery = 51.88%		
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	11.53	244	54	0.7282535 ppb	-0.01
Spiked Amount 10.000	Range 30 - 148		Recovery = 7.28%#		

Target Compounds						Qvalue
2) Pyridine	3.17	79	226553m	9019.3938087 ppb		
3) N-Nitrosodimethylamine	3.14	42	142113	9005.6901380 ppb		95
5) Aniline	4.87	66	93728	9238.4425607 ppb		97
6) bis(2-Chloroethyl)ether	4.91	63	122026	9199.7012480 ppb		100
8) Phenol	4.81	94	190660	9506.6682307 ppb		99
9) Benzaldehyde	4.79	105	268	32.5255181 ppb	#	1
10) 2-Chlorophenol	4.97	128	169970	9584.5805238 ppb		99
11) n-Decane	4.87	41	14372	1132.4852682 ppb	#	34
12) 1,3-Dichlorobenzene	5.11	146	186937	9382.7079318 ppb		98
13) 1,4-Dichlorobenzene	5.18	146	196610	9640.5229057 ppb		99
14) Benzyl Alcohol	5.27	79	151144	9403.0318719 ppb		99
15) 1,2-Dichlorobenzene	5.32	146	182191	9545.8970046 ppb		98
16) bis(2-Chloroisopropyl)ethe	5.40	121	64360	11559.2626112 ppb		100
17) 2-Methylphenol	5.36	108	145405	9536.8232955 ppb		98
18) Hexachloroethane	5.64	117	85325	9501.2334545 ppb		94
19) N-Nitrosodi-n-propylamine	5.52	70	120333	9291.7944910 ppb		96
20) 3&4-Methyl phenol	5.50	107	168917	9432.7355759 ppb		98
21) Acetophenone	5.50	105	1958	85.7714955 ppb	#	1
24) Nitrobenzene	5.70	77	195601	9816.3979551 ppb		95
25) Isophorone	5.92	82	326490	9821.8230548 ppb		96
26) 2-Nitrophenol	6.01	139	93697	9798.2993008 ppb		97
27) 2,4-Dimethylphenol	6.03	107	178789	9202.6135561 ppb		98
28) bis(2-Chlorethoxy)methane	6.13	93	207485	9741.4924233 ppb		89
29) 2,4-Dichlorophenol	6.24	162	145619	9545.0437550 ppb		96
30) Benzoic Acid	6.07	105	2032	1318.7524533 ppb	#	10
31) 1,2,4-Trichlorobenzene	6.34	180	174889	9613.4066015 ppb		97
32) Naphthalene	6.42	128	534370	9282.6355555 ppb		99
33) 4-Chloroaniline	6.46	65	70933	8987.6341069 ppb		90
34) Hexachloro-1,3-butadiene	6.54	225	127434	10525.1819469 ppb		97
35) Caprolactam	6.82	113	349	73.5788350 ppb	#	50
36) 4-Chloro-3-methylphenol	6.95	107	169228	9483.2904536 ppb		97
37) 2-Methylnaphthalene	7.14	142	375555	9112.1536920 ppb		99
38) 1-Methylnaphthalene	7.24	142	364218	9580.8255766 ppb		98

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\100414A\1004A 22.D Vial: 20
Acq On : 4 Oct 2014 7:55 pm Operator: 280
Sample : SSCV SVMS 10K PPB 14C29003 Inst : BNAMS11
Misc : 8270 sscv Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 4 20:26 2014 Quant Results File: S811J04N.RES

Quant Method : C:\MSDCHEM\1\METHODS\S811J04N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Sat Oct 04 20:15:55 2014
Response via : Initial Calibration
DataAcq Meth : BNA11

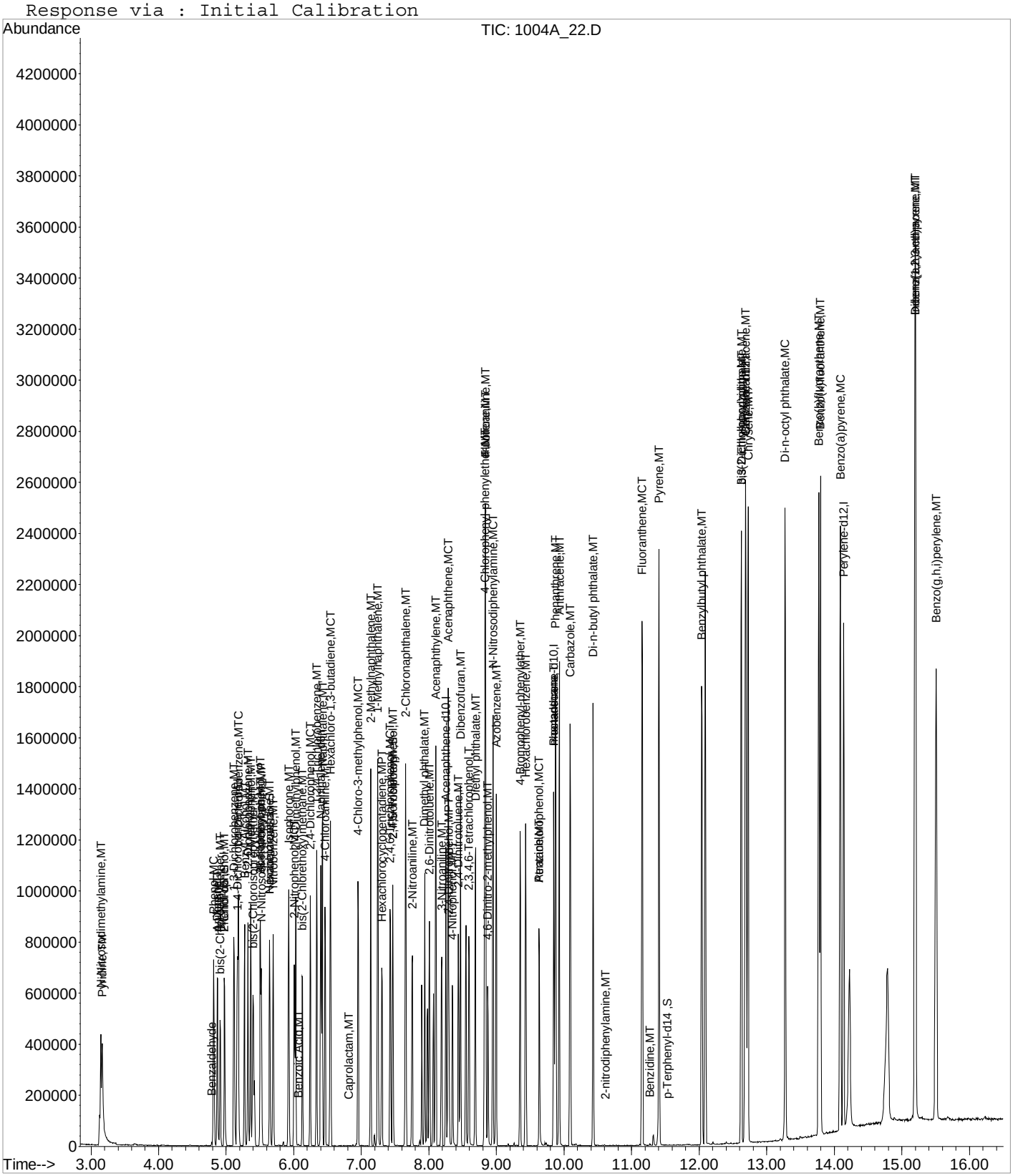
	Compound	R.T.	QIon	Response	Conc Unit		Qvalue
39)	1,2,4,5-Tetrachlorobenzene	0.00	216	0	N.D.		
41)	Hexachlorocyclopentadiene	7.30	237	105523	8192.0004983 ppb		95
42)	2,4,6-Trichlorophenol	7.43	196	114048	9371.7062269 ppb		94
43)	2,4,5-Trichlorophenol	7.47	196	121683	9492.8751343 ppb		96
45)	Biphenyl	0.00	154	0	N.D.		
46)	2-Chloronaphthalene	7.65	162	370273	9559.8496709 ppb		99
47)	2-Nitroaniline	7.75	138	119044	9532.6395510 ppb		95
48)	Acenaphthylene	8.10	152	595436	9587.6288061 ppb		100
49)	Dimethyl phthalate	7.94	163	395673	9095.7191738 ppb		99
50)	2,6-Dinitrotoluene	8.01	165	96200	9660.1574674 ppb		97
51)	3-Nitroaniline	8.19	138	100969	9081.1023011 ppb		96
52)	Acenaphthene	8.28	153	397522	9464.9295799 ppb		99
53)	2,4-Dinitrophenol	8.30	184	52193	8480.3178887 ppb	#	51
54)	Dibenzofuran	8.47	168	532811	9277.0293369 ppb		99
55)	2,4-Dinitrotoluene	8.44	165	129114	9453.6772812 ppb		96
56)	2,3,4,6-Tetrachlorophenol	8.60	232	93381	10379.7189433 ppb		89
57)	4-Nitrophenol	8.35	139	80724	9038.7468214 ppb		93
58)	Fluorene	8.84	166	455389	9442.9802289 ppb		99
59)	4-Chlorophenyl-phenylether	8.82	204	218660	9029.9768684 ppb		99
60)	Diethyl phthalate	8.69	149	456655	9505.8913201 ppb		97
61)	4-Nitroaniline	8.84	138	107870	9870.4585150 ppb		97
62)	Azobenzene	9.00	77	469138	9328.6559505 ppb		97
63)	Atrazine	9.63	200	15804	1280.8314676 ppb	#	23
65)	4,6-Dinitro-2-methylphenol	8.88	198	77191	9546.3994675 ppb	#	77
66)	N-Nitrosodiphenylamine	8.95	169	371388	9313.1278019 ppb		99
68)	4-Bromophenyl-phenylether	9.35	248	124213	9388.2169510 ppb	#	87
69)	Hexachlorobenzene	9.43	284	135724	9272.2642292 ppb		95
70)	n-octadecane	9.85	55	977	99.6036098 ppb	#	1
71)	Pentachlorophenol	9.64	266	88260	9895.3749292 ppb		98
72)	Phenanthrene	9.87	178	681563	9475.9639795 ppb		100
73)	Anthracene	9.93	178	691680	9761.7960677 ppb		100
74)	Carbazole	10.09	167	644395	9311.5652935 ppb		99
75)	Di-n-butyl phthalate	10.43	149	851939	9437.0606440 ppb		99
76)	2-nitrodiphenylamine	10.62	167	240	802.0277255 ppb	#	33
77)	Fluoranthene	11.15	202	854227	9403.2223193 ppb		100
79)	Benzidine	11.27	184	2733	818.6289289 ppb		93
80)	Pyrene	11.41	202	906817	9179.1789000 ppb		100
82)	Benzylbutyl phthalate	12.04	149	440857	9695.4220044 ppb		97
83)	3,3-Dichlorobenzidine	12.62	252	581	16.8934330 ppb	#	73
84)	Benzo(a)anthracene	12.68	228	938631	9446.8645494 ppb		96
85)	Chrysene	12.72	228	885126	9791.8848245 ppb		97
86)	bis(2-Ethylhexyl)phthalate	12.62	149	666923	9274.6535427 ppb		99
87)	Di-n-octyl phthalate	13.27	149	1157376	9729.0844684 ppb		99
89)	Benzo(b)fluoranthene	13.77	252	1014669m	9307.2452013 ppb		
90)	Benzo(k)fluoranthene	13.80	252	925209m	9170.3400509 ppb		
91)	Benzo(a)pyrene	14.09	252	936989	9095.1432543 ppb		99
92)	Indeno(1,2,3-cd)pyrene	15.20	276	1149738	9326.2170924 ppb		97
93)	Dibenz(a,h)anthracene	15.19	278	1012876	9569.6612716 ppb		95
94)	Benzo(g,h,i)perylene	15.51	276	975615	9825.4574458 ppb		99

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\100414A\1004A 22.D Vial: 20
Acq On : 4 Oct 2014 7:55 pm Operator: 280
Sample : SSCV SVMS 10K PPB 14C29003 Inst : BNAMS11
Misc : 8270 sscv Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 4 20:26 2014 Quant Results File: S811J04N.RES

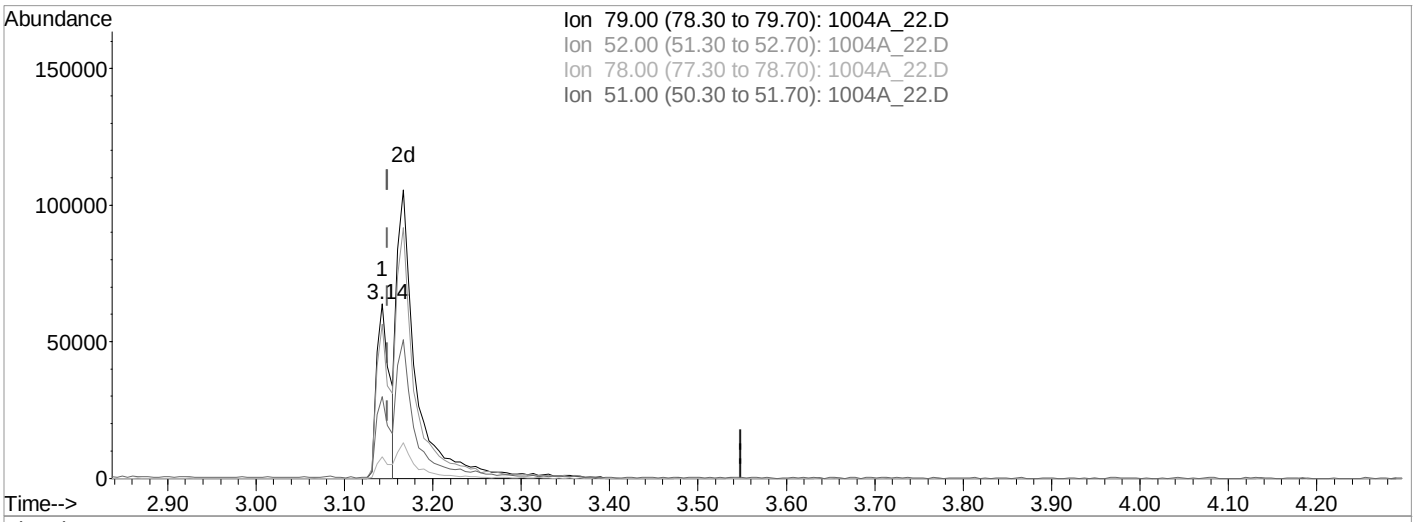
Method : C:\MSDCHEM\1\METHODS\S811J04N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Sat Oct 04 20:15:55 2014
Response via : Initial Calibration

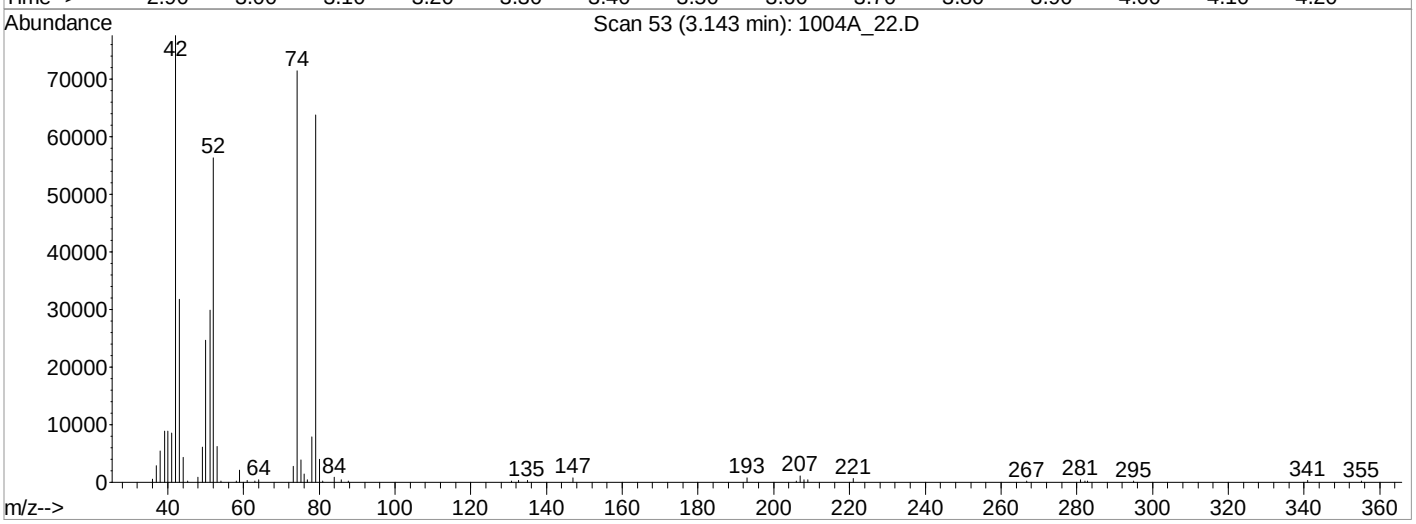


Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\100414A\1004A 22.D Vial: 20
Acq On : 4 Oct 2014 7:55 pm Operator: 280
Sample : SSCV SVMS 10K PPB 14C29003 Inst : BNAMS11
Misc : 8270 sscv Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 4 20:16 2014 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\S811J04N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Sat Oct 04 20:15:55 2014
Response via : Multiple Level Calibration





TIC: 1004A_22.D

(2) Pyridine (TM)

3.14min (-0.006) 2630.3396951 ppb

Qvalue = 97

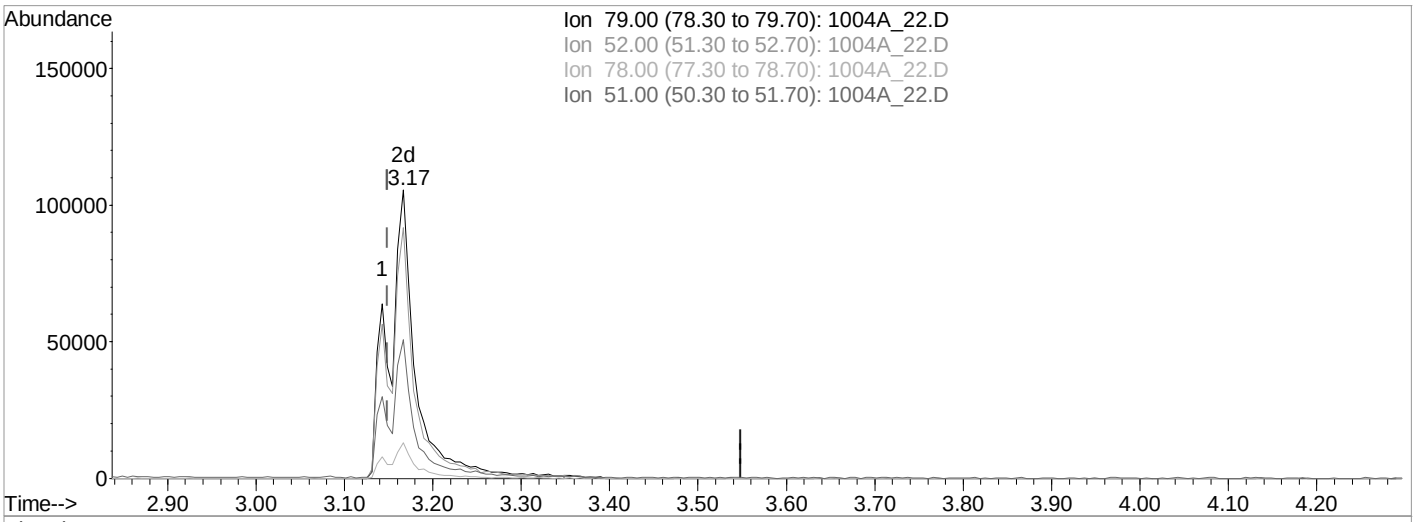
response 66070

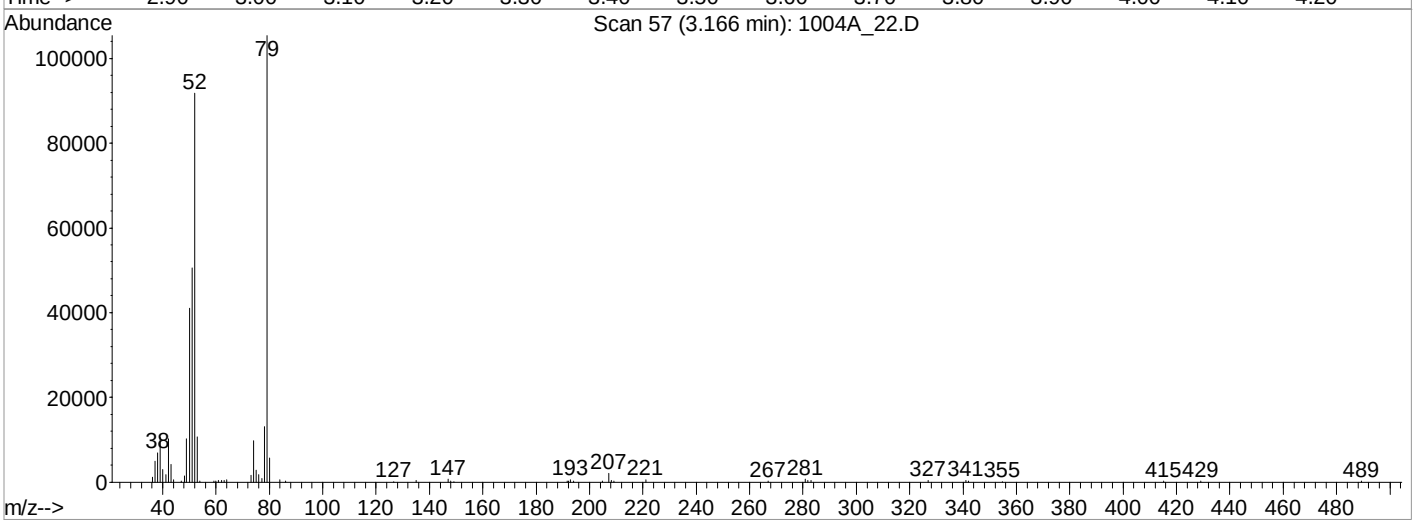
Ion	Exp%	Act%
79.00	100	100
52.00	89.70	88.33
78.00	12.30	12.23
51.00	50.50	46.38

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\100414A\1004A 22.D Vial: 20
Acq On : 4 Oct 2014 7:55 pm Operator: 280
Sample : SSCV SVMS 10K PPB 14C29003 Inst : BNAMS11
Misc : 8270 sscv Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 4 20:25 2014 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\S811J04N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Sat Oct 04 20:15:55 2014
Response via : Multiple Level Calibration





TIC: 1004A_22.D

(2) Pyridine (TM)

3.17min (+0.018) 9019.3938087 ppb m

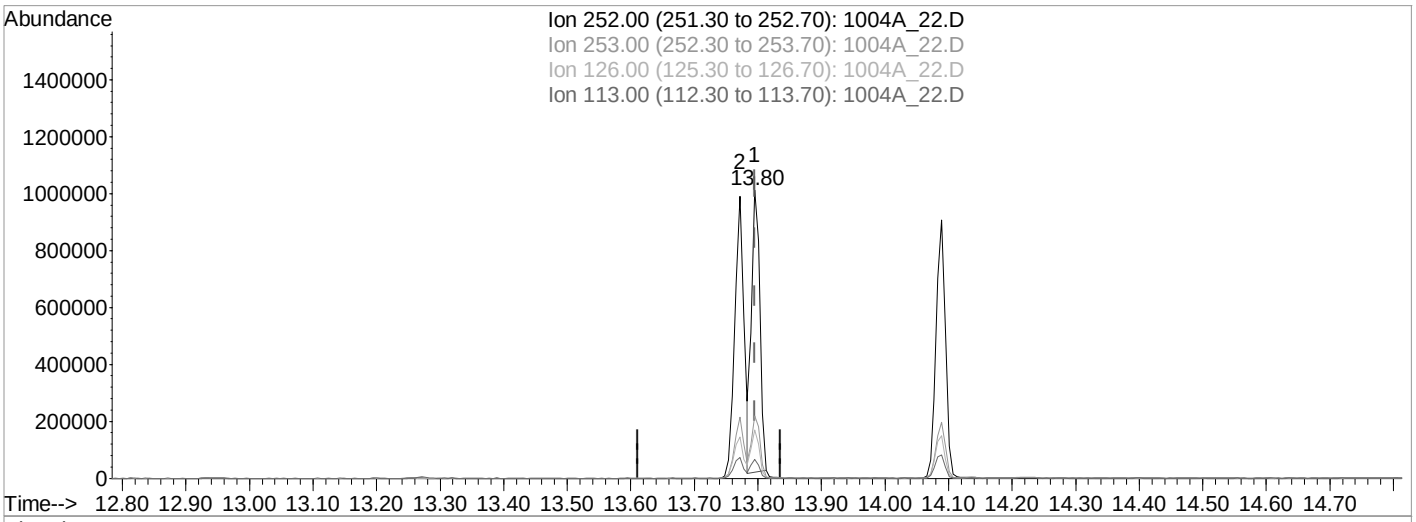
response 226553

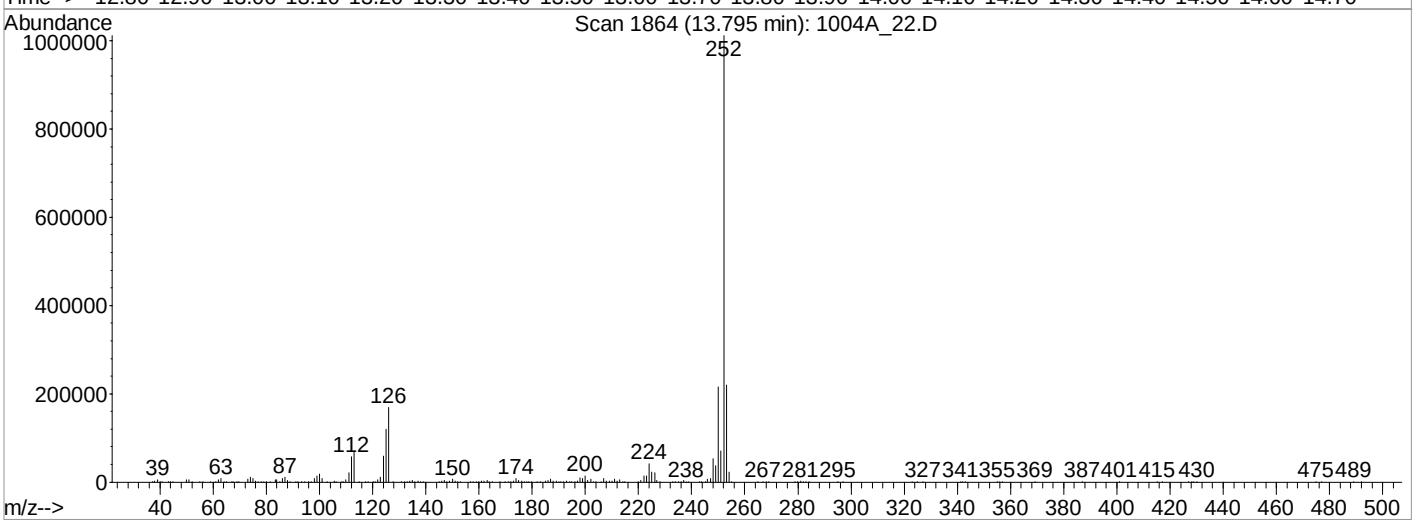
Ion	Exp%	Act%
79.00	100	100
52.00	89.70	86.98
78.00	12.30	12.33
51.00	50.50	47.99

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\100414A\1004A 22.D Vial: 20
Acq On : 4 Oct 2014 7:55 pm Operator: 280
Sample : SSCV SVMS 10K PPB 14C29003 Inst : BNAMS11
Misc : 8270 sscv Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 4 20:25 2014 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\S811J04N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Sat Oct 04 20:15:55 2014
Response via : Multiple Level Calibration





TIC: 1004A_22.D

(89) Benzo(b)fluoranthene (MT)

13.80min (+0.000) 8092.8084313 ppb

Qvalue = 98

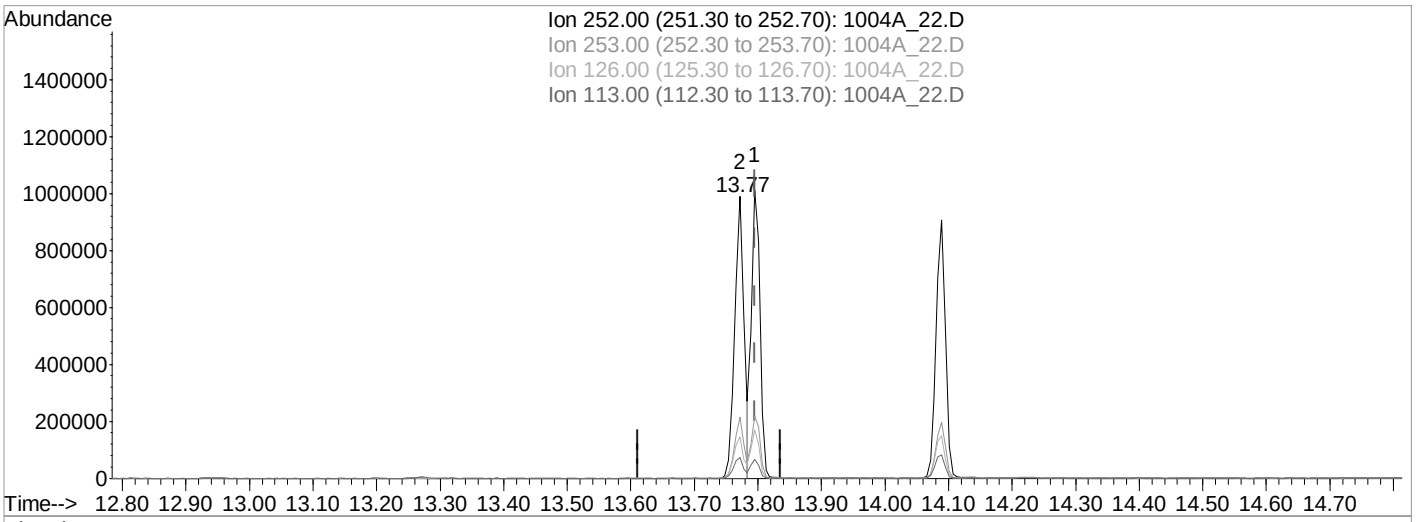
response 882272

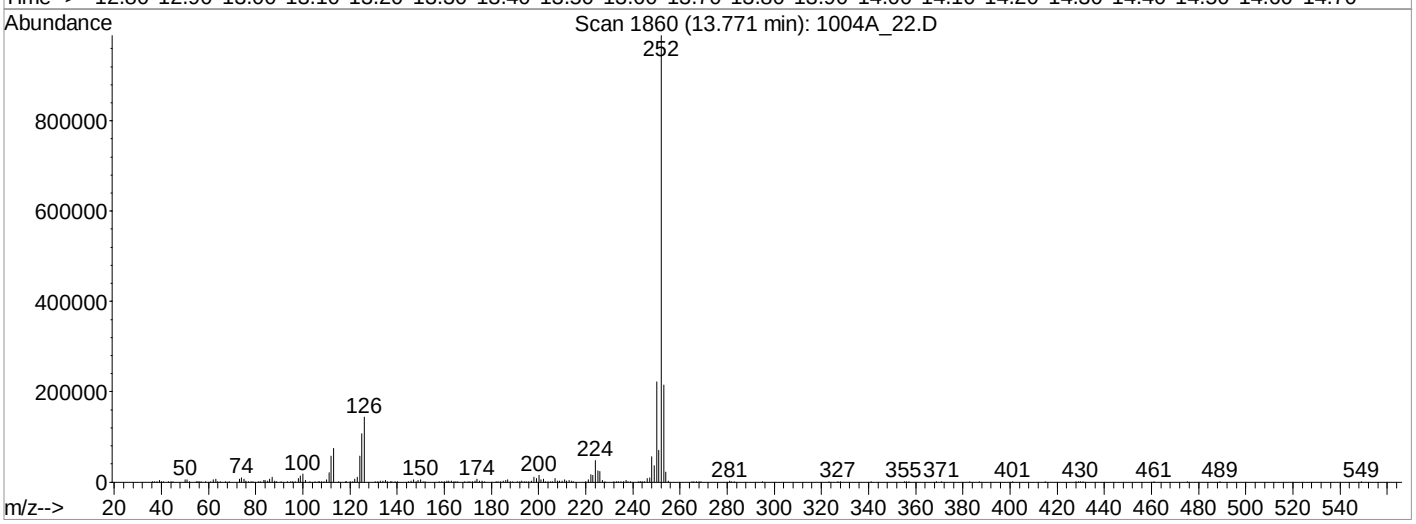
Ion	Exp%	Act%
252.00	100	100
253.00	21.20	21.71
126.00	16.00	16.72
113.00	7.90	6.56

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\100414A\1004A 22.D Vial: 20
Acq On : 4 Oct 2014 7:55 pm Operator: 280
Sample : SSCV SVMS 10K PPB 14C29003 Inst : BNAMS11
Misc : 8270 sscv Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 4 20:26 2014 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\S811J04N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Sat Oct 04 20:15:55 2014
Response via : Multiple Level Calibration





TIC: 1004A_22.D

(89) Benzo(b)fluoranthene (MT)

13.77min (-0.023) 9307.2452013 ppb m

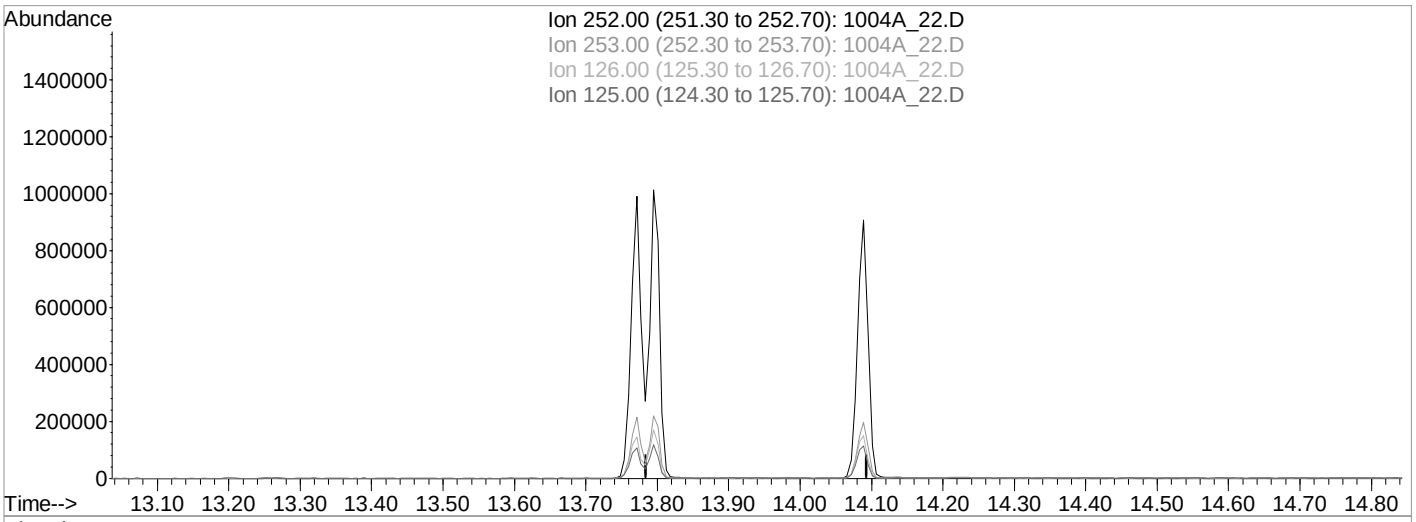
response 1014669

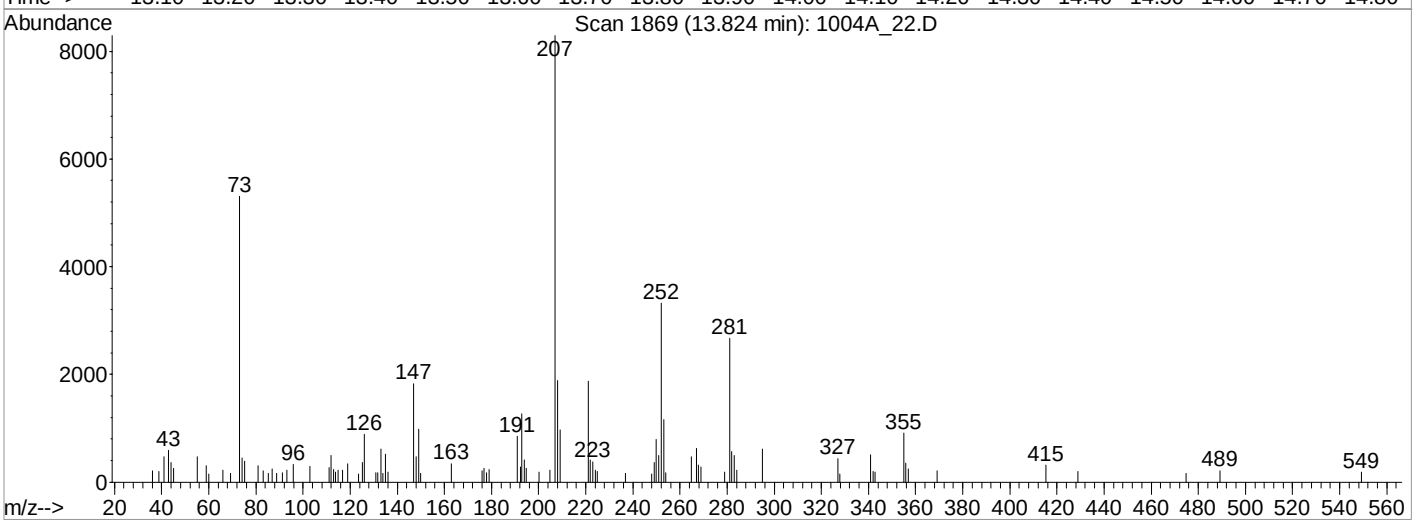
Ion	Exp%	Act%
252.00	100	100
253.00	21.20	21.77
126.00	16.00	14.61
113.00	7.90	7.47

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\100414A\1004A 22.D Vial: 20
Acq On : 4 Oct 2014 7:55 pm Operator: 280
Sample : SSCV SVMS 10K PPB 14C29003 Inst : BNAMS11
Misc : 8270 sscv Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 4 20:26 2014 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\S811J04N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Sat Oct 04 20:15:55 2014
Response via : Multiple Level Calibration





TIC: 1004A_22.D

(90) Benzo(k)fluoranthene (MT)

13.82min (-13.824) 0.0000000 ppb

Qvalue = 0

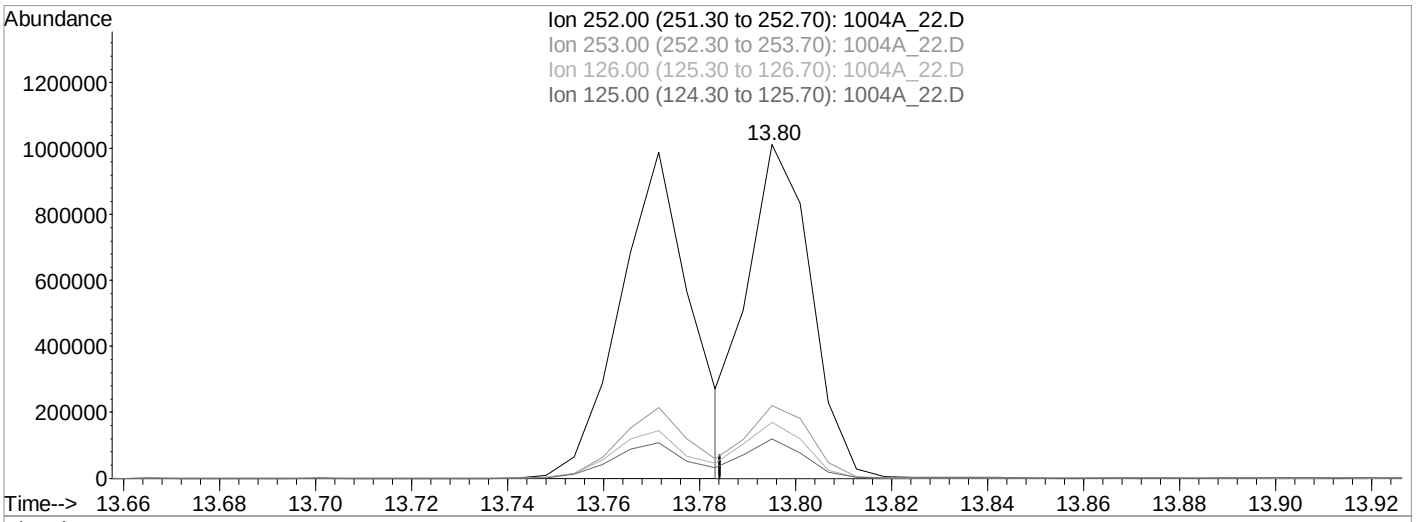
response 0

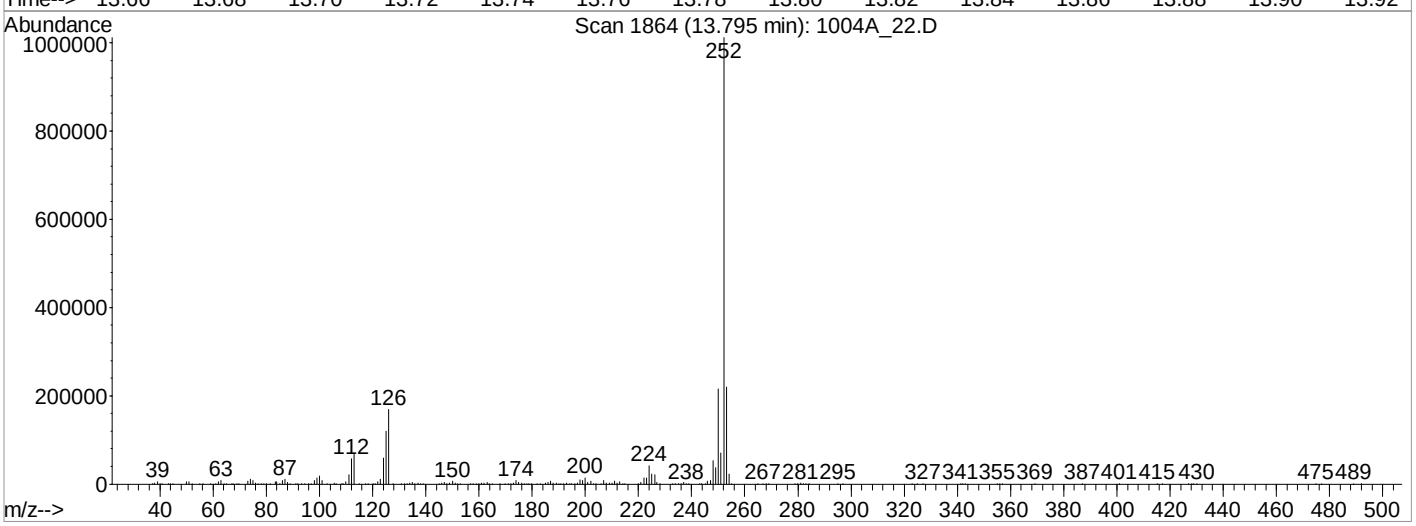
Ion	Exp%	Act%
252.00	100	0.00
253.00	21.60	0.00#
126.00	15.70	0.00
125.00	11.00	0.00

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\100414A\1004A 22.D Vial: 20
Acq On : 4 Oct 2014 7:55 pm Operator: 280
Sample : SSCV SVMS 10K PPB 14C29003 Inst : BNAMS11
Misc : 8270 sscv Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 4 20:26 2014 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\S811J04N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Sat Oct 04 20:15:55 2014
Response via : Multiple Level Calibration





TIC: 1004A_22.D

(90) Benzo(k)fluoranthene (MT)

13.80min (-0.029) 9170.3400509 ppb m

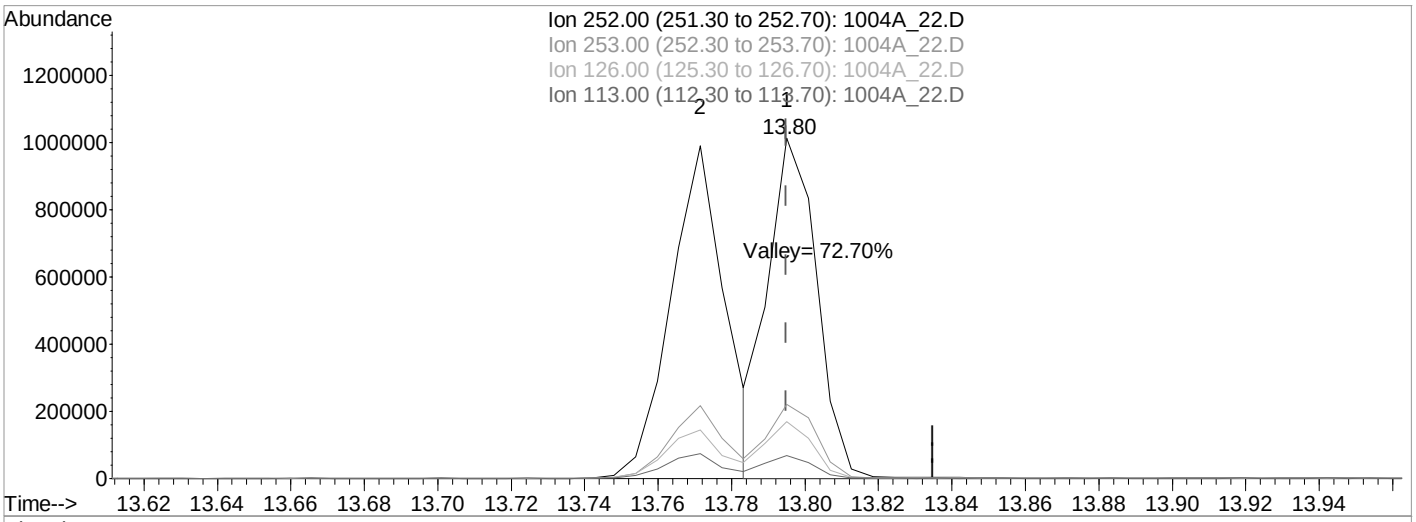
response 925209

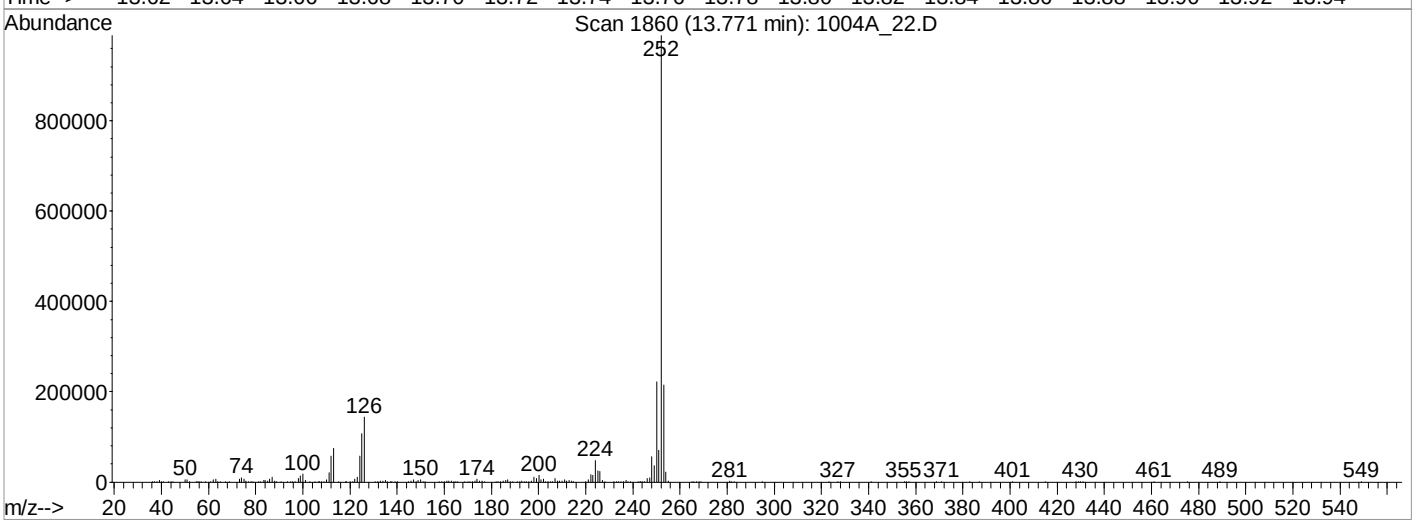
Ion	Exp%	Act%
252.00	100	100
253.00	21.60	21.68
126.00	15.70	16.69
125.00	11.00	11.76

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\100414A\1004A 22.D Vial: 20
Acq On : 4 Oct 2014 7:55 pm Operator: 280
Sample : SSCV SVMS 10K PPB 14C29003 Inst : BNAMS11
Misc : 8270 sscv Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 4 20:26 2014 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\S811J04N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Sat Oct 04 20:15:55 2014
Response via : Multiple Level Calibration





TIC: 1004A_22.D

(89) Benzo(b)fluoranthene (MT)

13.77min (-0.023) 9307.2452013 ppb m

response 1014669

Ion	Exp%	Act%
252.00	100	100
253.00	21.20	21.77
126.00	16.00	14.61
113.00	7.90	7.47

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\100414A\1004A 04.D Vial: 2
Acq On : 4 Oct 2014 1:33 pm Operator: 280
Sample : MSTD SVMS 10K PPB 14G09881 Inst : BNAMS11
Misc : 8270 Primary Calibration Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 4 18:07 2014 Quant Results File: S811J04N.RES

Quant Method : C:\MSDCHEM\1\METHODS\S811J04N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Sat Oct 04 18:04:37 2014
Response via : Initial Calibration
DataAcq Meth : BNA11

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	5.15	152	96104	8000.00 ppb	-0.01
22) Naphthalene-d8	6.40	136	409828	8000.00 ppb	0.00
40) Acenaphthene-d10	8.25	164	247140	8000.00 ppb	0.00
64) Phenanthrene-d10	9.85	188	478183	8000.00 ppb	0.00
78) Chrysene-d12	12.70	240	520114	8000.00 ppb	0.01
88) Perylene-d12	14.17	264	580098	8000.00 ppb	0.04

System Monitoring Compounds					
4) 2-Fluorophenol	4.09	112	163440	10000.0000000 ppb	0.00
Spiked Amount 20.000	Range 10 - 74		Recovery = 50000.00%#		
7) Phenol-d5	4.80	99	208935	10000.0000000 ppb	0.00
Spiked Amount 20.000	Range 10 - 63		Recovery = 50000.00%#		
23) Nitrobenzene-d5	5.67	82	213117	10000.0000000 ppb	0.00
Spiked Amount 10.000	Range 28 - 123		Recovery = 100000.00%#		
44) 2-Fluorobiphenyl	7.52	172	452025	10000.0000000 ppb	0.00
Spiked Amount 10.000	Range 35 - 133		Recovery = 100000.00%#		
67) 2,4,6-Tribromophenol	9.10	330	59906	10000.0000000 ppb	0.00
Spiked Amount 20.000	Range 22 - 154		Recovery = 50000.00%#		
81) p-Terphenyl-d14	11.54	244	676420	10000.0000000 ppb	0.00
Spiked Amount 10.000	Range 30 - 148		Recovery = 100000.00%#		

Target Compounds					Qvalue
2) Pyridine	3.15	79	269466	10000.0000000 ppb	100
3) N-Nitrosodimethylamine	3.12	42	182738	10000.0000000 ppb	100
5) Aniline	4.86	66	98823	9349.4735050 ppb	100
6) bis(2-Chloroethyl)ether	4.90	63	138691	10000.0000000 ppb	100
8) Phenol	4.81	94	211937	10000.0000000 ppb	100
9) Benzaldehyde	0.00	105	0	N.D. d	
10) 2-Chlorophenol	4.97	128	177933	10000.0000000 ppb	100
11) n-Decane	4.98	41	136034	10000.0000000 ppb	100
12) 1,3-Dichlorobenzene	5.11	146	199313	10000.0000000 ppb	100
13) 1,4-Dichlorobenzene	5.17	146	205186	10000.0000000 ppb	100
14) Benzyl Alcohol	5.26	79	170699	10000.0000000 ppb	100
15) 1,2-Dichlorobenzene	5.31	146	188210	10000.0000000 ppb	100
16) bis(2-Chloroisopropyl)ethe	5.39	121	57820	10000.0000000 ppb	100
17) 2-Methylphenol	5.35	108	156038	10000.0000000 ppb	100
18) Hexachloroethane	5.64	117	93363	10000.0000000 ppb	100
19) N-Nitrosodi-n-propylamine	5.51	70	133970	10000.2985832 ppb	100
20) 3&4-Methyl phenol	5.50	107	184842	10000.0000000 ppb	100
21) Acetophenone	0.00	105	0	N.D. d	
24) Nitrobenzene	5.69	77	207997	10000.0000000 ppb	100
25) Isophorone	5.92	82	352446	10000.0000000 ppb	100
26) 2-Nitrophenol	6.00	139	98088	10000.0000000 ppb	100
27) 2,4-Dimethylphenol	6.02	107	195046	10000.0000000 ppb	100
28) bis(2-Chlorethoxy)methane	6.12	93	217451	10000.0000000 ppb	100
29) 2,4-Dichlorophenol	6.24	162	154331	10000.0000000 ppb	100
30) Benzoic Acid	0.00	105	0	N.D. d	
31) 1,2,4-Trichlorobenzene	6.33	180	178753	10000.0000000 ppb	100
32) Naphthalene	6.42	128	562519	10000.0000000 ppb	100
33) 4-Chloroaniline	6.46	65	83607	10000.0000000 ppb	100
34) Hexachloro-1,3-butadiene	6.54	225	118084	10000.0000000 ppb	100
35) Caprolactam	0.00	113	0	N.D. d	
36) 4-Chloro-3-methylphenol	6.95	107	185534	10000.0000000 ppb	100
37) 2-Methylnaphthalene	7.14	142	412160	10000.0000000 ppb	100
38) 1-Methylnaphthalene	7.24	142	378208	10000.0000000 ppb	100

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\100414A\1004A 04.D Vial: 2
Acq On : 4 Oct 2014 1:33 pm Operator: 280
Sample : MSTD SVMS 10K PPB 14G09881 Inst : BNAMS11
Misc : 8270 Primary Calibration Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 4 18:07 2014 Quant Results File: S811J04N.RES

Quant Method : C:\MSDCHEM\1\METHODS\S811J04N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Sat Oct 04 18:04:37 2014
Response via : Initial Calibration
DataAcq Meth : BNA11

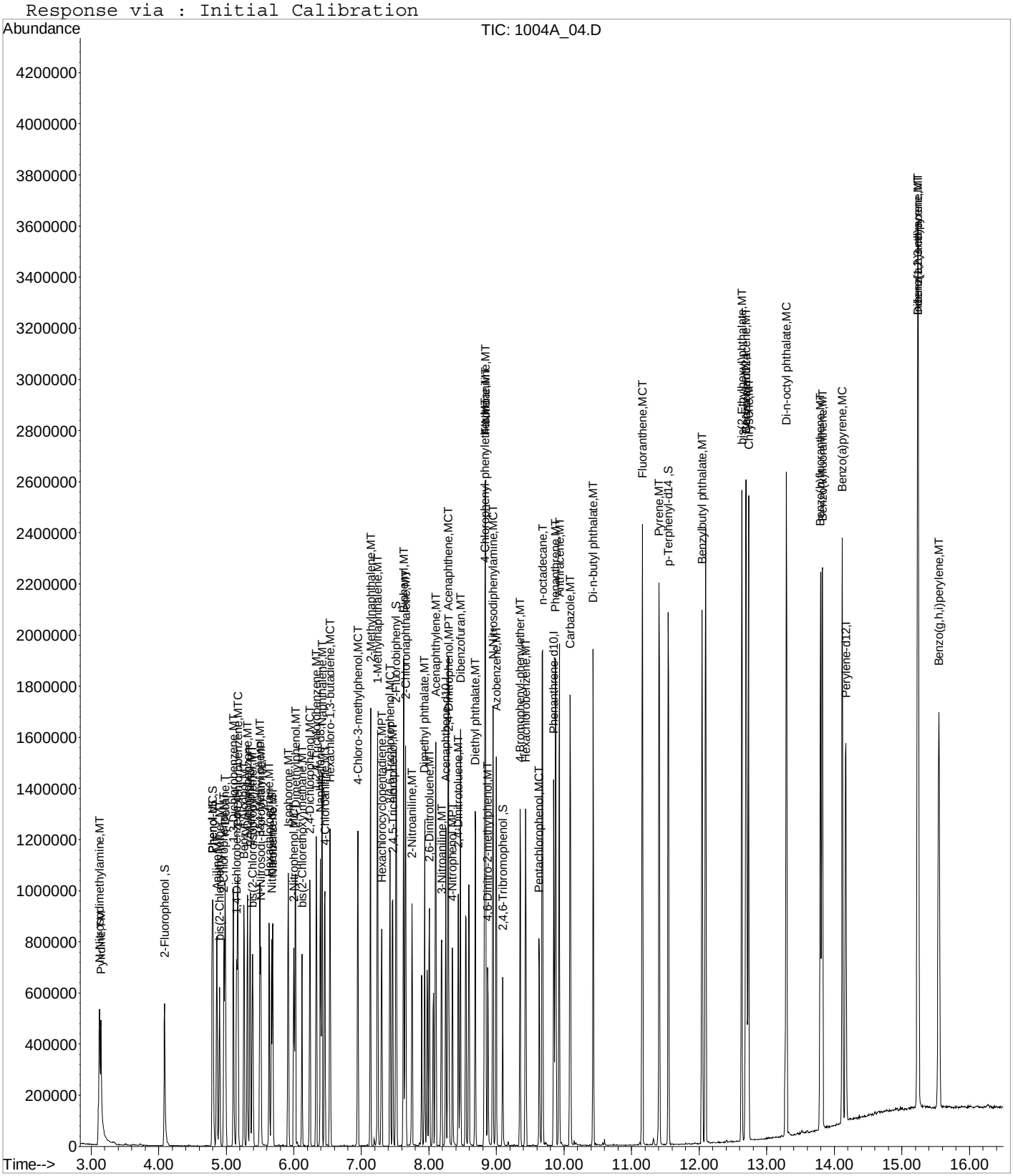
	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
39)	1,2,4,5-Tetrachlorobenzene	0.00	216	0	N.D. d	
41)	Hexachlorocyclopentadiene	7.30	237	120577	10000.0000000 ppb	100
42)	2,4,6-Trichlorophenol	7.42	196	118728	10000.0000000 ppb	100
43)	2,4,5-Trichlorophenol	7.47	196	127932	10000.0000000 ppb	100
45)	Biphenyl	7.62	154	503902	10000.0000000 ppb	100
46)	2-Chloronaphthalene	7.65	162	375178	10000.0000000 ppb	100
47)	2-Nitroaniline	7.75	138	123428	10000.0000000 ppb	100
48)	Acenaphthylene	8.10	152	616157	10000.0000000 ppb	100
49)	Dimethyl phthalate	7.94	163	432284	10000.0000000 ppb	100
50)	2,6-Dinitrotoluene	8.01	165	100791	10000.0000000 ppb	100
51)	3-Nitroaniline	8.19	138	110747	10000.0000000 ppb	100
52)	Acenaphthene	8.28	153	413037	10000.0000000 ppb	100
53)	2,4-Dinitrophenol	8.30	184	56457	10000.0000000 ppb	100
54)	Dibenzofuran	8.47	168	559999	10000.0000000 ppb	100
55)	2,4-Dinitrotoluene	8.44	165	133585	10000.0000000 ppb	100
56)	2,3,4,6-Tetrachlorophenol	0.00	232	0	N.D. d	
57)	4-Nitrophenol	8.35	139	89344	10000.0000000 ppb	100
58)	Fluorene	8.84	166	465705	10000.0000000 ppb	100
59)	4-Chlorophenyl-phenylether	8.82	204	227706	10000.0000000 ppb	100
60)	Diethyl phthalate	8.68	149	490464	10000.0000000 ppb	100
61)	4-Nitroaniline	8.84	138	107774	10000.0000000 ppb	100
62)	Azobenzene	9.00	77	518428	10000.0000000 ppb	100
63)	Atrazine	0.00	200	0	N.D. d	
65)	4,6-Dinitro-2-methylphenol	8.87	198	80574	9980.3054513 ppb	100
66)	N-Nitrosodiphenylamine	8.95	169	382133	10000.0000000 ppb	100
68)	4-Bromophenyl-phenylether	9.35	248	125901	10000.0000000 ppb	100
69)	Hexachlorobenzene	9.43	284	135797	10000.0000000 ppb	100
70)	n-octadecane	9.68	55	106110	10000.0000000 ppb	100
71)	Pentachlorophenol	9.64	266	78190	10000.0000000 ppb	100
72)	Phenanthrene	9.87	178	700117	10000.0000000 ppb	100
73)	Anthracene	9.93	178	711212	10000.0000000 ppb	100
74)	Carbazole	10.09	167	685336	10000.0000000 ppb	100
75)	Di-n-butyl phthalate	10.43	149	927000	10000.0000000 ppb	100
76)	2-nitrodiphenylamine	0.00	167	0	N.D. d	
77)	Fluoranthene	11.16	202	883587	10000.0000000 ppb	100
79)	Benzidine	0.00	184	0	N.D.	
80)	Pyrene	11.41	202	916650	10000.0000000 ppb	100
82)	Benzylbutyl phthalate	12.04	149	446833	10000.0000000 ppb	100
83)	3,3-Dichlorobenzidine	0.00	252	0	N.D. d	
84)	Benzo(a)anthracene	12.69	228	890223	10000.0000000 ppb	100
85)	Chrysene	12.73	228	807313	10000.0000000 ppb	100
86)	bis(2-Ethylhexyl)phthalate	12.63	149	667077	10000.0000000 ppb	100
87)	Di-n-octyl phthalate	13.29	149	1170342	10000.0000000 ppb	100
89)	Benzo(b)fluoranthene	13.79	252	900834m	10000.8659393 ppb	
90)	Benzo(k)fluoranthene	13.82	252	878994m	10010.1468734 ppb	
91)	Benzo(a)pyrene	14.12	252	884778	10000.0000000 ppb	100
92)	Indeno(1,2,3-cd)pyrene	15.24	276	1069419	10000.0000000 ppb	100
93)	Dibenz(a,h)anthracene	15.24	278	908446	10000.0000000 ppb	100
94)	Benzo(g,h,i)perylene	15.55	276	867807	10000.0000000 ppb	100

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\100414A\1004A 04.D Vial: 2
Acq On : 4 Oct 2014 1:33 pm Operator: 280
Sample : MSTD SVMS 10K PPB 14G09881 Inst : BNAMS11
Misc : 8270 Primary Calibration Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 4 18:07 2014 Quant Results File: S811J04N.RES

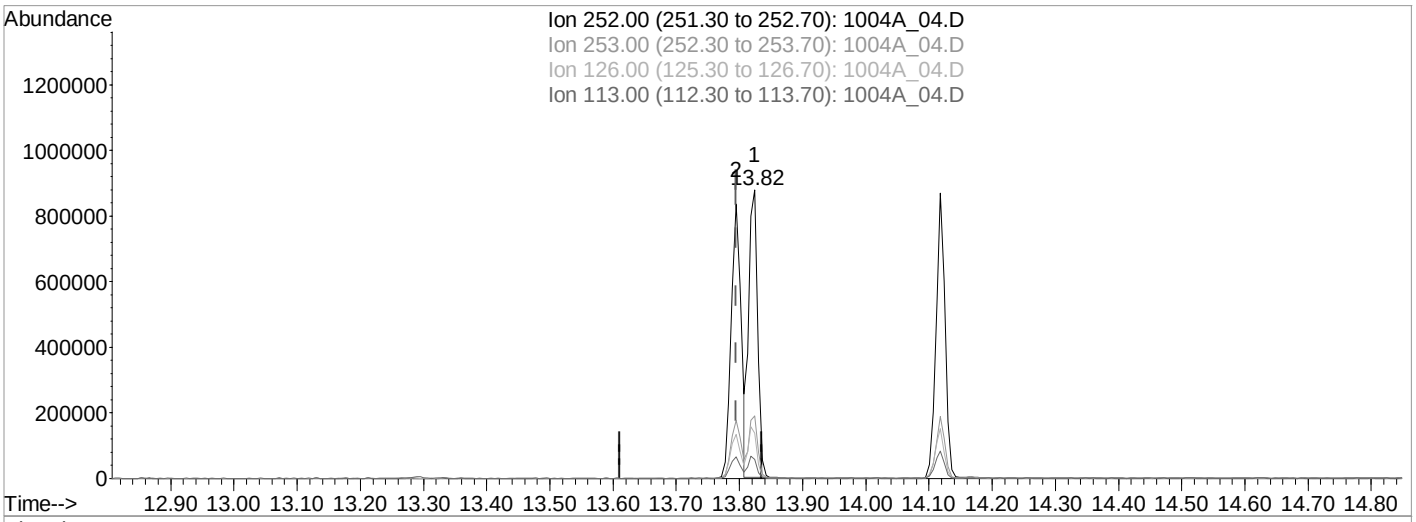
Method : C:\MSDCHEM\1\METHODS\S811J04N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Sat Oct 04 18:04:37 2014
Response via : Initial Calibration

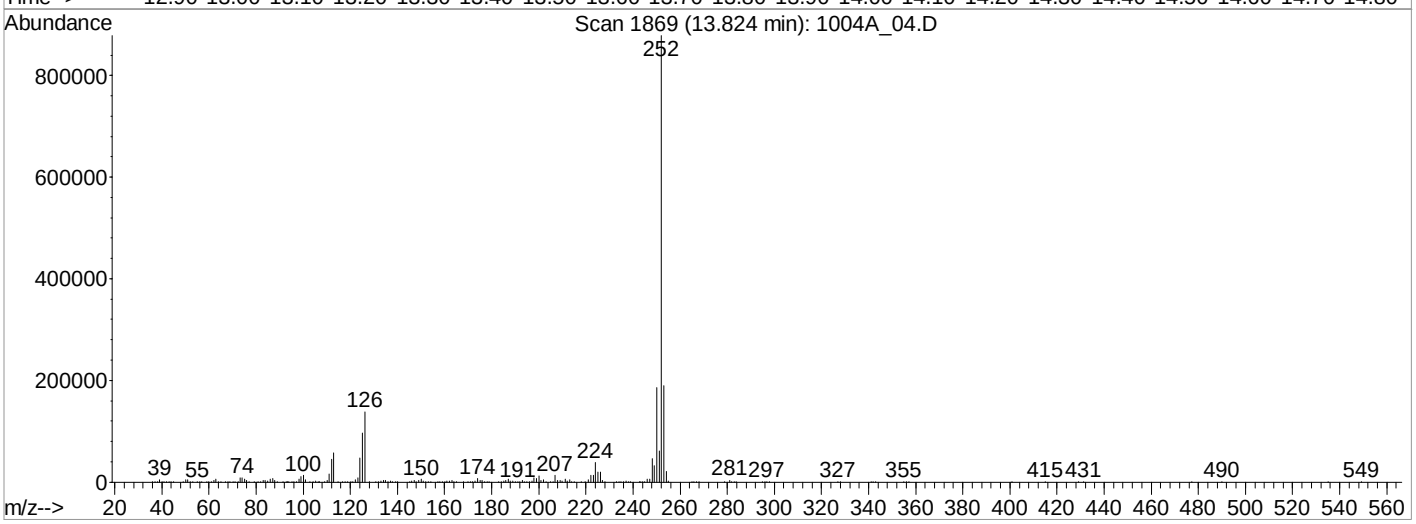


Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\100414A\1004A 04.D Vial: 2
Acq On : 4 Oct 2014 1:33 pm Operator: 280
Sample : MSTD SVMS 10K PPB 14G09881 Inst : BNAMS11
Misc : 8270 Primary Calibration Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 4 18:05 2014 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\S811J04N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Sat Oct 04 18:04:37 2014
Response via : Multiple Level Calibration





TIC: 1004A_04.D

(89) Benzo(b)fluoranthene (MT)

13.82min (+0.029) 9638.4814534 ppb

Qvalue = 99

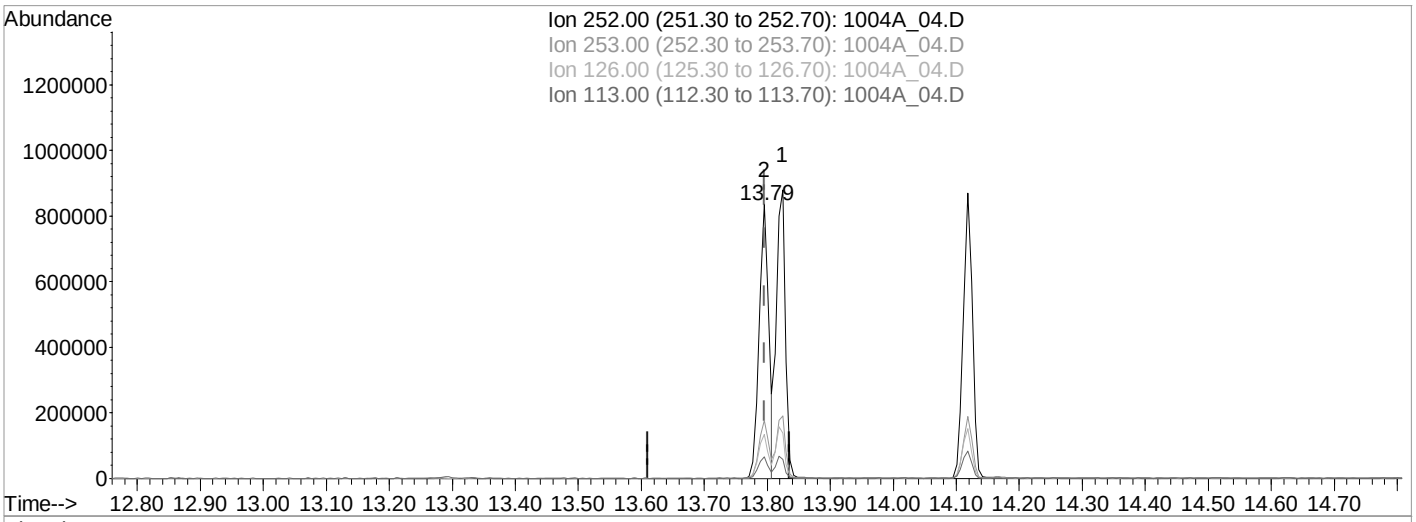
response 868192

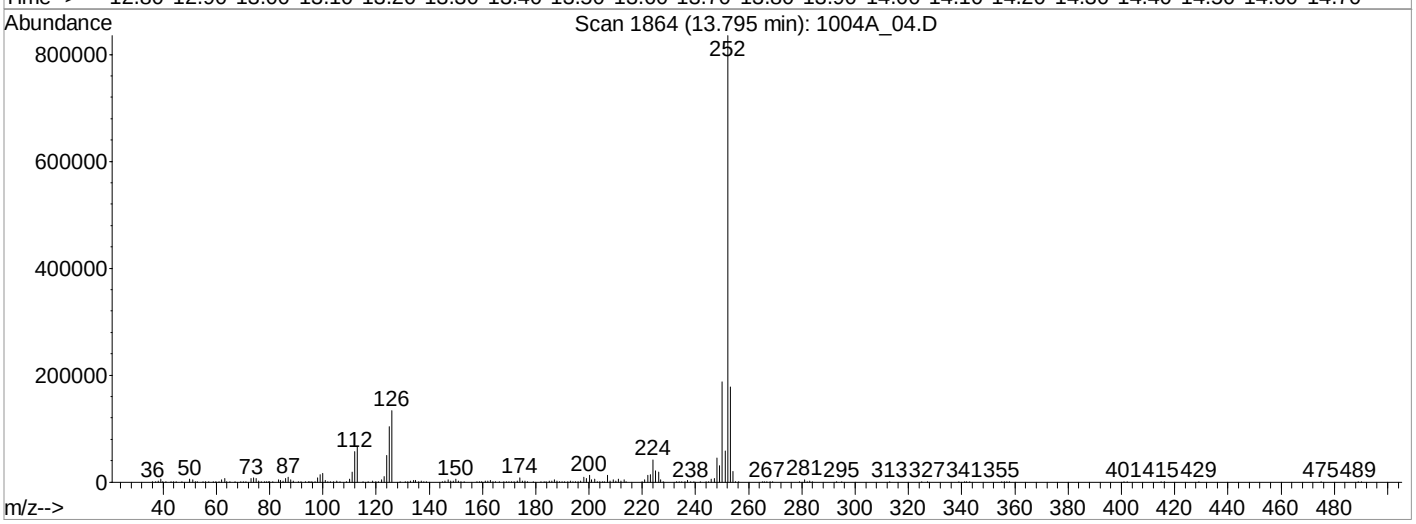
Ion	Exp%	Act%
252.00	100	100
253.00	21.20	21.49
126.00	16.00	15.76
113.00	7.90	6.32

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\100414A\1004A 04.D Vial: 2
Acq On : 4 Oct 2014 1:33 pm Operator: 280
Sample : MSTD SVMS 10K PPB 14G09881 Inst : BNAMS11
Misc : 8270 Primary Calibration Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 4 18:06 2014 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\S811J04N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Sat Oct 04 18:04:37 2014
Response via : Multiple Level Calibration





TIC: 1004A_04.D

(89) Benzo(b)fluoranthene (MT)

13.79min (0.000) 10000.8659393 ppb m

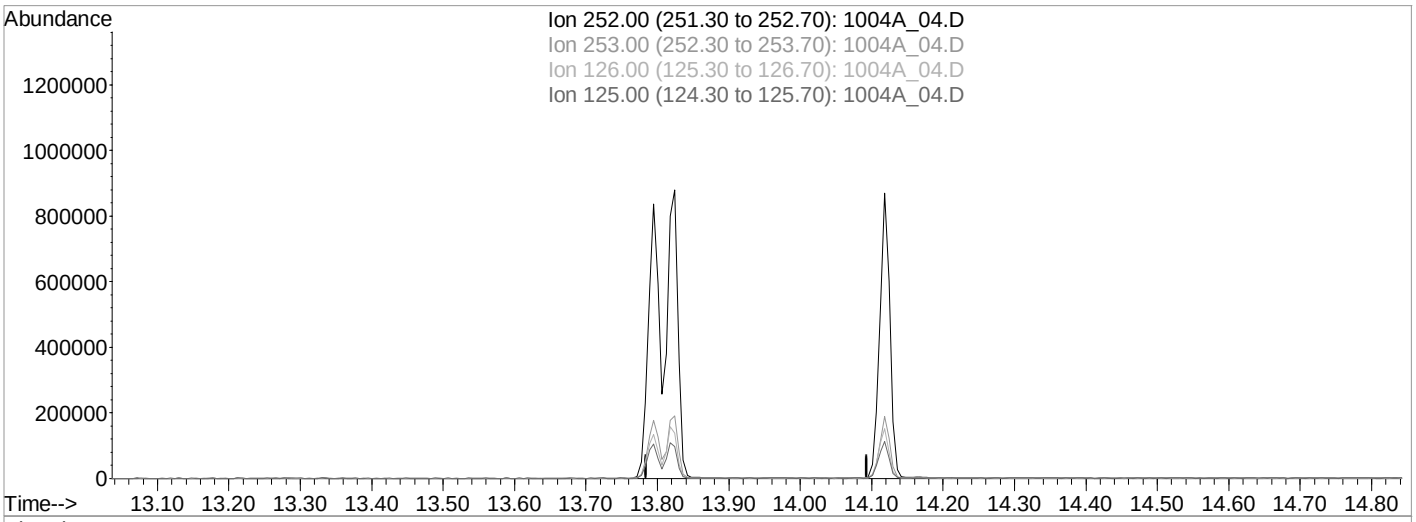
response 900834

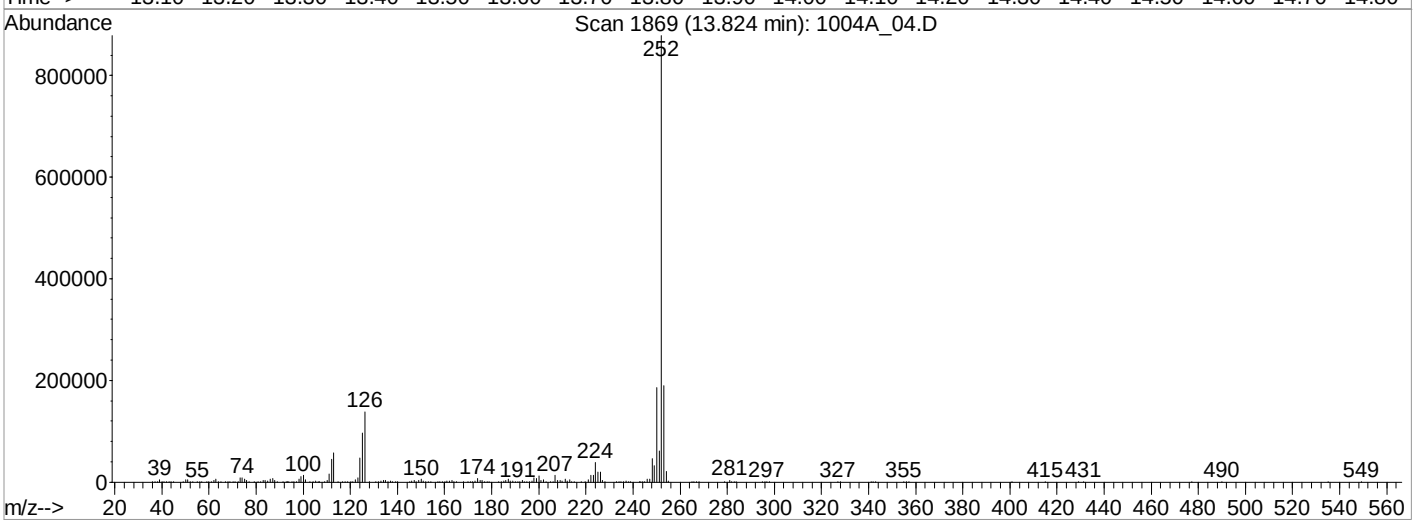
Ion	Exp%	Act%
252.00	100	100
253.00	21.20	21.23
126.00	16.00	16.03
113.00	7.90	7.87

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\100414A\1004A 04.D Vial: 2
Acq On : 4 Oct 2014 1:33 pm Operator: 280
Sample : MSTD SVMS 10K PPB 14G09881 Inst : BNAMS11
Misc : 8270 Primary Calibration Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 4 18:06 2014 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\S811J04N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Sat Oct 04 18:04:37 2014
Response via : Multiple Level Calibration





TIC: 1004A_04.D

(90) Benzo(k)fluoranthene (MT)

13.82min (-13.824) 0.0000000 ppb

Qvalue = 0

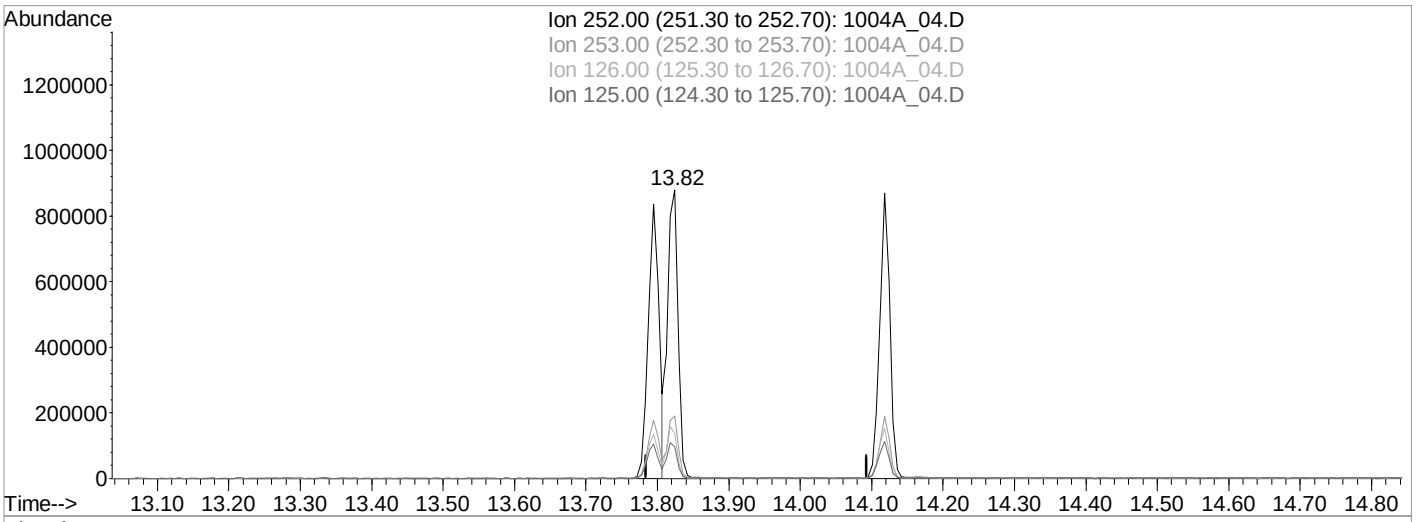
response 0

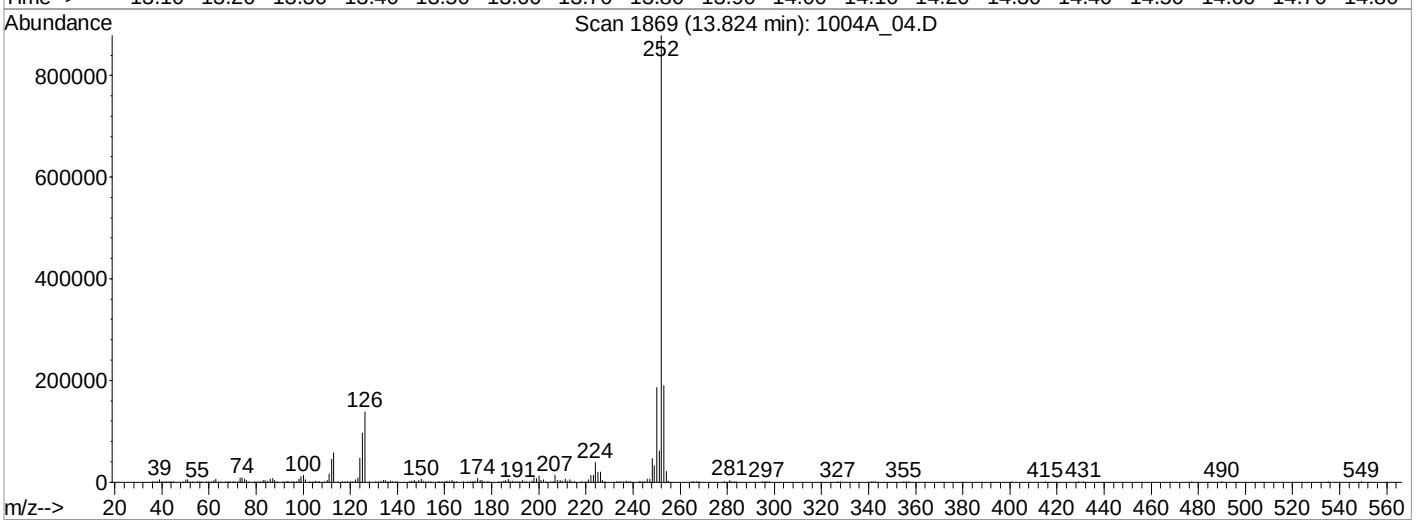
Ion	Exp%	Act%
252.00	100	0.00
253.00	21.60	0.00#
126.00	15.70	0.00
125.00	11.00	0.00

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\100414A\1004A 04.D Vial: 2
Acq On : 4 Oct 2014 1:33 pm Operator: 280
Sample : MSTD SVMS 10K PPB 14G09881 Inst : BNAMS11
Misc : 8270 Primary Calibration Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 4 18:07 2014 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\S811J04N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Sat Oct 04 18:04:37 2014
Response via : Multiple Level Calibration





TIC: 1004A_04.D

(90) Benzo(k)fluoranthene (MT)

13.82min (0.000) 10010.1468734 ppb m

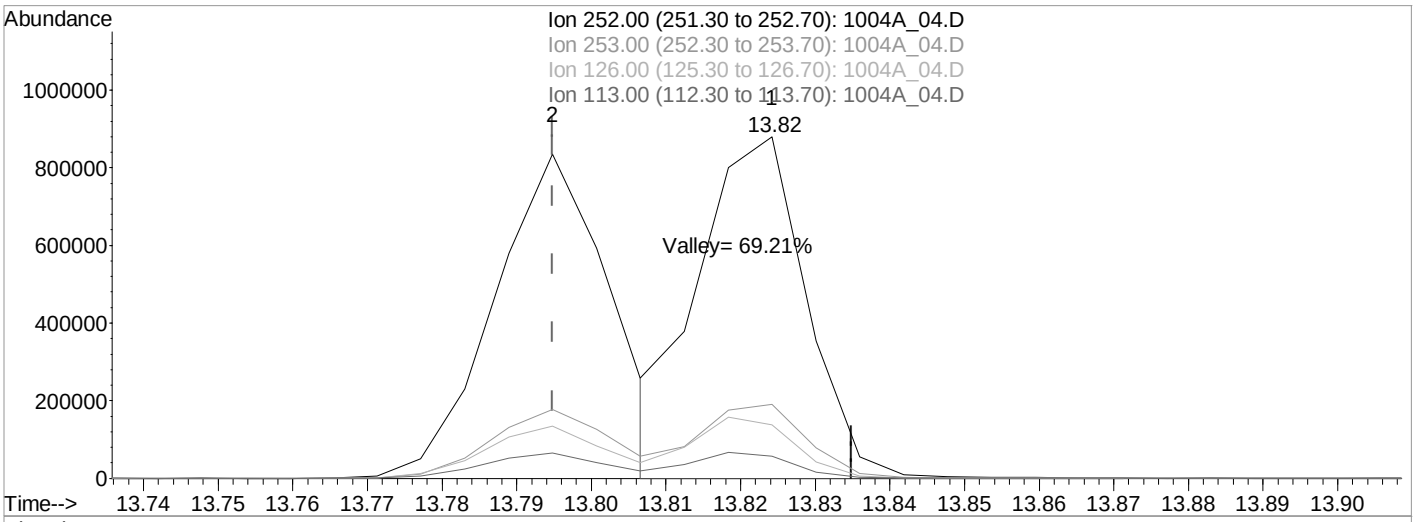
response 878994

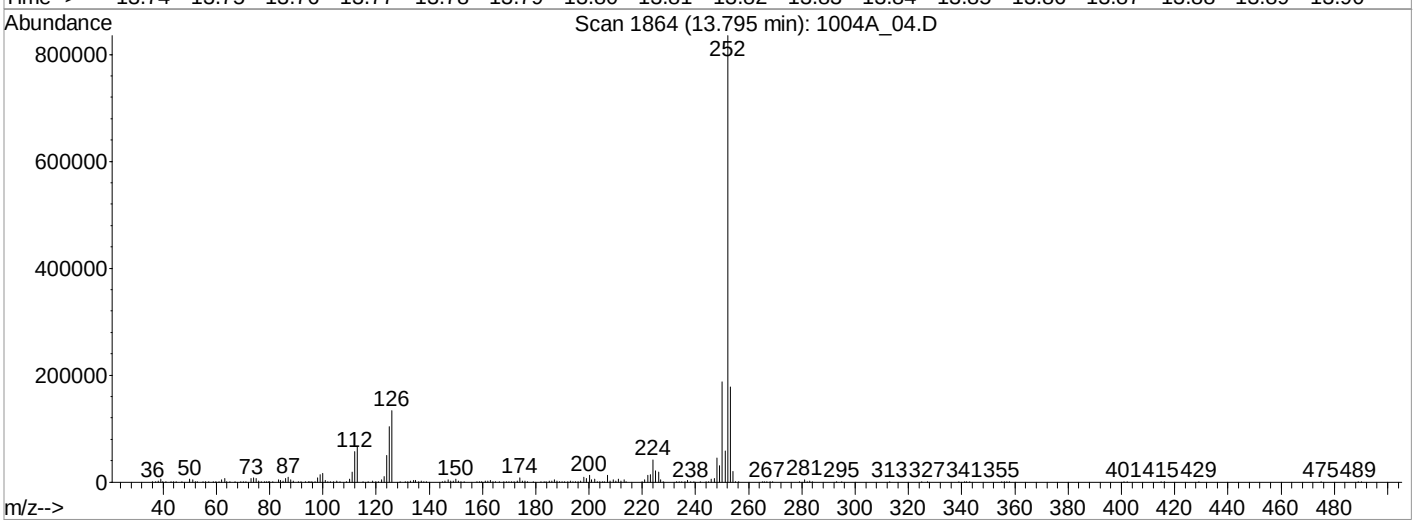
Ion	Exp%	Act%
252.00	100	100
253.00	21.60	21.61
126.00	15.70	15.74
125.00	11.00	11.01

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\100414A\1004A 04.D Vial: 2
Acq On : 4 Oct 2014 1:33 pm Operator: 280
Sample : MSTD SVMS 10K PPB 14G09881 Inst : BNAMS11
Misc : 8270 Primary Calibration Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 4 18:07 2014 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\S811J04N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Sat Oct 04 18:04:37 2014
Response via : Multiple Level Calibration





TIC: 1004A_04.D

(89) Benzo(b)fluoranthene (MT)

13.79min (0.000) 10000.8659393 ppb m

response 900834

Ion	Exp%	Act%
252.00	100	100
253.00	21.20	21.23
126.00	16.00	16.03
113.00	7.90	7.87

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\100414A\1004A 05.D Vial: 3
Acq On : 4 Oct 2014 1:54 pm Operator: 280
Sample : STD SVMS 200 PPB 14G09881 Inst : BNAMS11
Misc : 8270 Primary Calibration Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 4 18:10 2014 Quant Results File: S811J04N.RES

Quant Method : C:\MSDCHEM\1\METHODS\S811J04N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Sat Oct 04 18:04:37 2014
Response via : Initial Calibration
DataAcq Meth : BNA11

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	5.17	152	105419	8000.00 ppb	0.00
22) Naphthalene-d8	6.40	136	450907	8000.00 ppb	0.00
40) Acenaphthene-d10	8.25	164	273816	8000.00 ppb	0.00
64) Phenanthrene-d10	9.85	188	497676	8000.00 ppb	0.00
78) Chrysene-d12	12.69	240	579061	8000.00 ppb	0.00
88) Perylene-d12	14.14	264	637007	8000.00 ppb	0.00

System Monitoring Compounds					
4) 2-Fluorophenol	4.10	112	3114	173.6932040 ppb	0.01
Spiked Amount 20.000	Range 10 - 74		Recovery = 868.47%#		
7) Phenol-d5	4.80	99	4153	181.2063053 ppb	0.00
Spiked Amount 20.000	Range 10 - 63		Recovery = 906.03%#		
23) Nitrobenzene-d5	5.67	82	3793	161.7630764 ppb	0.00
Spiked Amount 10.000	Range 28 - 123		Recovery = 1617.63%#		
44) 2-Fluorobiphenyl	7.52	172	9707	193.8236623 ppb	0.00
Spiked Amount 10.000	Range 35 - 133		Recovery = 1938.24%#		
67) 2,4,6-Tribromophenol	9.10	330	993	159.2672058 ppb	0.00
Spiked Amount 20.000	Range 22 - 154		Recovery = 796.34%#		
81) p-Terphenyl-d14	11.54	244	13889	184.4288107 ppb	0.00
Spiked Amount 10.000	Range 30 - 148		Recovery = 1844.29%#		

Target Compounds						Qvalue
2) Pyridine	3.17	79	6100	206.3708872 ppb		97
3) N-Nitrosodimethylamine	3.15	42	3351	167.1737684 ppb		88
5) Aniline	4.87	66	2029	174.9982640 ppb		86
6) bis(2-Chloroethyl)ether	4.91	63	3092	203.2421486 ppb		86
8) Phenol	4.81	94	3875	166.6815369 ppb		90
9) Benzaldehyde	0.00	105	0	N.D. d		
10) 2-Chlorophenol	4.97	128	3860	197.7667950 ppb		90
11) n-Decane	5.00	41	3075	206.0725872 ppb	#	91
12) 1,3-Dichlorobenzene	5.11	146	4141	189.4053213 ppb		96
13) 1,4-Dichlorobenzene	5.18	146	4679	207.8872680 ppb		83
14) Benzyl Alcohol	5.27	79	3331	177.8960183 ppb		100
15) 1,2-Dichlorobenzene	5.32	146	4235	205.1319421 ppb		98
16) bis(2-Chloroisopropyl)ethe	5.40	121	1248	196.7700835 ppb	#	47
17) 2-Methylphenol	5.36	108	2968	173.4027950 ppb		95
18) Hexachloroethane	5.64	117	1623	158.4770190 ppb		89
19) N-Nitrosodi-n-propylamine	5.51	70	2667	181.4892882 ppb		98
20) 3&4-Methyl phenol	5.50	107	3563	175.7266926 ppb		88
21) Acetophenone	0.00	105	0	N.D. d		
24) Nitrobenzene	5.70	77	3686	161.0693511 ppb		89
25) Isophorone	5.92	82	6374	164.3743780 ppb		100
26) 2-Nitrophenol	6.01	139	1759	162.9913696 ppb		88
27) 2,4-Dimethylphenol	6.02	107	3857	179.7327585 ppb		89
28) bis(2-Chlorethoxy)methane	6.12	93	4639	193.8999122 ppb		97
29) 2,4-Dichlorophenol	6.24	162	3031	178.5037792 ppb		92
30) Benzoic Acid	0.00	105	0	N.D. d		
31) 1,2,4-Trichlorobenzene	6.34	180	3722	189.2507803 ppb		95
32) Naphthalene	6.42	128	15145	244.7071905 ppb		99
33) 4-Chloroaniline	6.46	65	1531	166.4359731 ppb	#	75
34) Hexachloro-1,3-butadiene	6.54	225	2499	192.3489630 ppb		95
35) Caprolactam	0.00	113	0	N.D. d		
36) 4-Chloro-3-methylphenol	6.95	107	3400	166.5597493 ppb		89
37) 2-Methylnaphthalene	7.14	142	8770	193.3964070 ppb		99
38) 1-Methylnaphthalene	7.24	142	8074	194.0316976 ppb		96

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\100414A\1004A 05.D Vial: 3
Acq On : 4 Oct 2014 1:54 pm Operator: 280
Sample : STD SVMS 200 PPB 14G09881 Inst : BNAMS11
Misc : 8270 Primary Calibration Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 4 18:10 2014 Quant Results File: S811J04N.RES

Quant Method : C:\MSDCHEM\1\METHODS\S811J04N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Sat Oct 04 18:04:37 2014
Response via : Initial Calibration
DataAcq Meth : BNA11

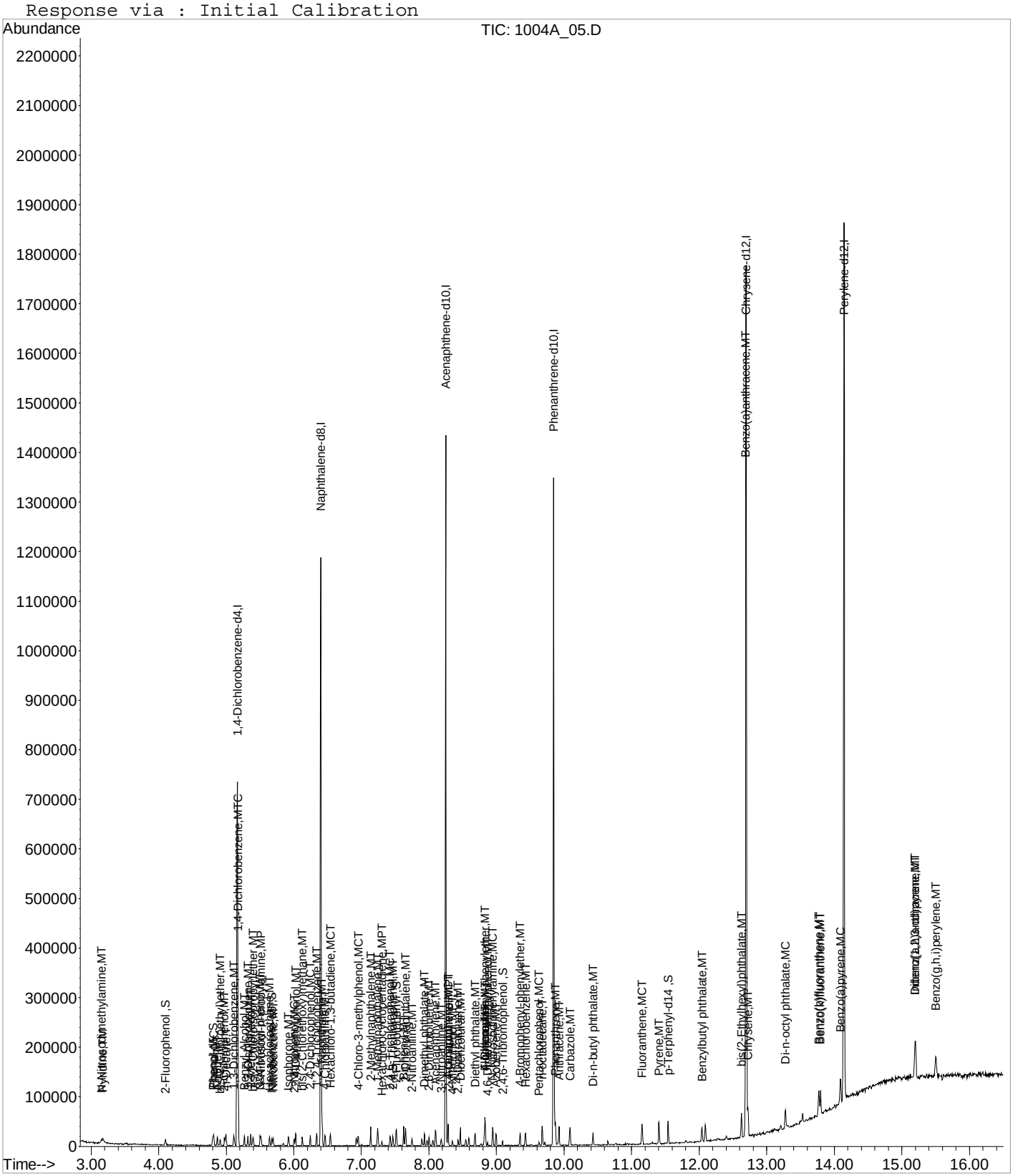
	Compound	R.T.	QIon	Response	Conc Unit		Qvalue
39)	1,2,4,5-Tetrachlorobenzene	0.00	216	0	N.D.		
41)	Hexachlorocyclopentadiene	7.31	237	1336	100.0060340 ppb		98
42)	2,4,6-Trichlorophenol	7.42	196	2483	188.7590522 ppb	#	85
43)	2,4,5-Trichlorophenol	7.47	196	2561	180.6818837 ppb		83
45)	Biphenyl	7.62	154	10274	184.0253701 ppb		93
46)	2-Chloronaphthalene	7.65	162	8374	201.4558175 ppb		98
47)	2-Nitroaniline	7.75	138	2113	154.5147792 ppb	#	88
48)	Acenaphthylene	8.10	152	12804	187.5592551 ppb		97
49)	Dimethyl phthalate	7.93	163	8404	175.4692835 ppb		94
50)	2,6-Dinitrotoluene	8.00	165	1490	133.4285403 ppb	#	80
51)	3-Nitroaniline	8.18	138	1796	146.3721939 ppb	#	84
52)	Acenaphthene	8.28	153	9636	210.5678458 ppb		92
53)	2,4-Dinitrophenol	8.30	184	378	60.4307833 ppb	#	63
54)	Dibenzofuran	8.47	168	12484	201.2105411 ppb		98
55)	2,4-Dinitrotoluene	8.43	165	1966	132.8342412 ppb		93
56)	2,3,4,6-Tetrachlorophenol	0.00	232	0	N.D. d		
57)	4-Nitrophenol	8.35	139	1060	107.0840267 ppb	#	83
58)	Fluorene	8.84	166	10295	199.5260802 ppb		99
59)	4-Chlorophenyl-phenylether	8.82	204	5267	208.7723907 ppb		91
60)	Diethyl phthalate	8.68	149	8969	165.0521207 ppb		88
61)	4-Nitroaniline	8.83	138	1656	138.6853386 ppb		90
62)	Azobenzene	8.99	77	9158	159.4396786 ppb		97
63)	Atrazine	0.00	200	0	N.D. d		
65)	4,6-Dinitro-2-methylphenol	8.87	198	877	104.3748675 ppb		86
66)	N-Nitrosodiphenylamine	8.94	169	8016	201.5536184 ppb		95
68)	4-Bromophenyl-phenylether	9.35	248	2460	187.7385080 ppb		88
69)	Hexachlorobenzene	9.43	284	2787	197.1942411 ppb		83
70)	n-octadecane	9.68	55	2130	192.8726837 ppb	#	93
71)	Pentachlorophenol	9.63	266	868	106.6635286 ppb	#	83
72)	Phenanthrene	9.87	178	15790	216.7000150 ppb		98
73)	Anthracene	9.92	178	13121	177.2618569 ppb		99
74)	Carbazole	10.09	167	13847	194.1330963 ppb		95
75)	Di-n-butyl phthalate	10.43	149	14501	150.3023092 ppb		95
76)	2-nitrodiphenylamine	0.00	167	0	N.D.		
77)	Fluoranthene	11.15	202	17122	186.1883956 ppb		95
79)	Benzidine	0.00	184	0	N.D. d		
80)	Pyrene	11.41	202	18652	182.7662882 ppb		96
82)	Benzylbutyl phthalate	12.04	149	7093	142.5801109 ppb		92
83)	3,3-Dichlorobenzidine	0.00	252	0	N.D.		
84)	Benzo(a)anthracene	12.68	228	19523	196.9799267 ppb		94
85)	Chrysene	12.72	228	17382	193.3891157 ppb		97
86)	bis(2-Ethylhexyl)phthalate	12.62	149	17033	229.3450691 ppb		95
87)	Di-n-octyl phthalate	13.28	149	16491m	126.5634861 ppb		
89)	Benzo(b)fluoranthene	13.77	252	19565m	197.8016235 ppb		
90)	Benzo(k)fluoranthene	13.79	252	19342m	200.5917565 ppb		
91)	Benzo(a)pyrene	14.09	252	18016	185.4305221 ppb		97
92)	Indeno(1,2,3-cd)pyrene	15.20	276	22898	194.9875213 ppb		97
93)	Dibenz(a,h)anthracene	15.19	278	19576	196.2375001 ppb		95
94)	Benzo(g,h,i)perylene	15.50	276	19176	201.2296795 ppb		97

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\100414A\1004A 05.D Vial: 3
Acq On : 4 Oct 2014 1:54 pm Operator: 280
Sample : STD SVMS 200 PPB 14G09881 Inst : BNAMS11
Misc : 8270 Primary Calibration Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 4 18:10 2014 Quant Results File: S811J04N.RES

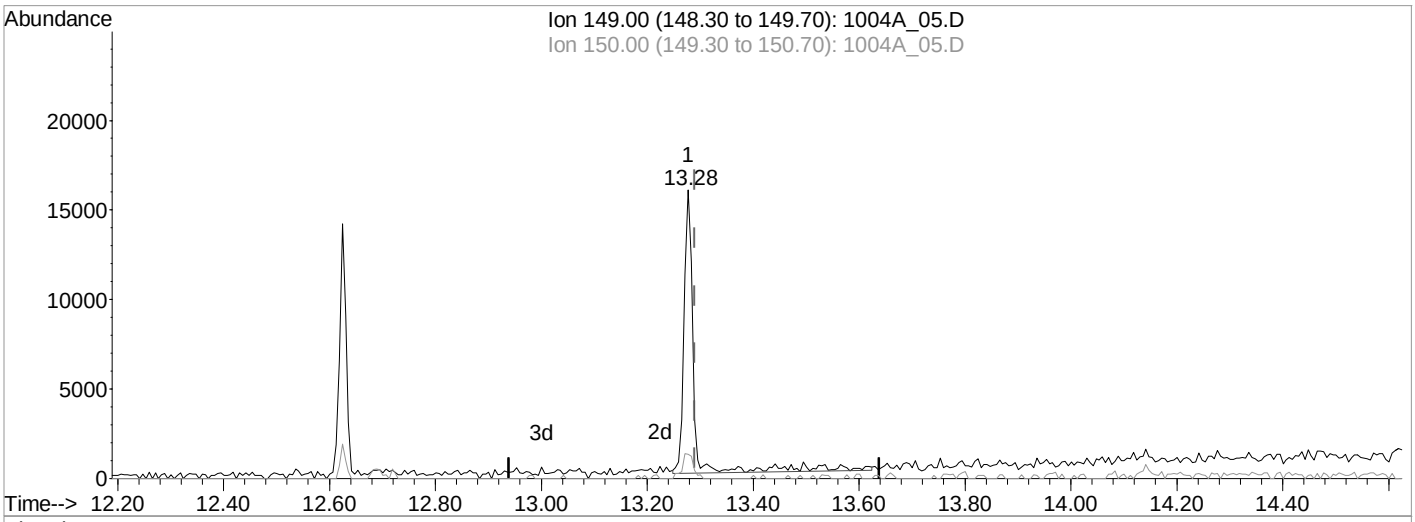
Method : C:\MSDCHEM\1\METHODS\S811J04N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Sat Oct 04 18:08:22 2014
Response via : Initial Calibration

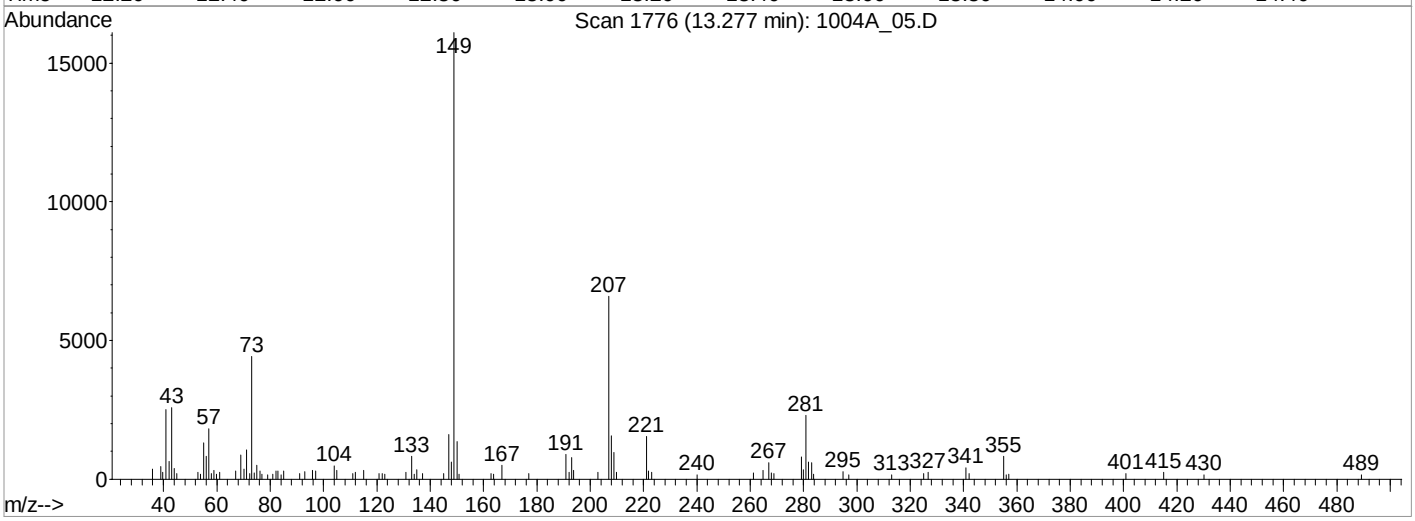


Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\100414A\1004A 05.D Vial: 3
Acq On : 4 Oct 2014 1:54 pm Operator: 280
Sample : STD SVMS 200 PPB 14G09881 Inst : BNAMS11
Misc : 8270 Primary Calibration Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 4 18:08 2014 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\S811J04N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Sat Oct 04 18:08:22 2014
Response via : Multiple Level Calibration





TIC: 1004A_05.D

(87) Di-n-octyl phthalate (MC)

13.28min (-0.012) 156.3796976 ppb

Qvalue = 96

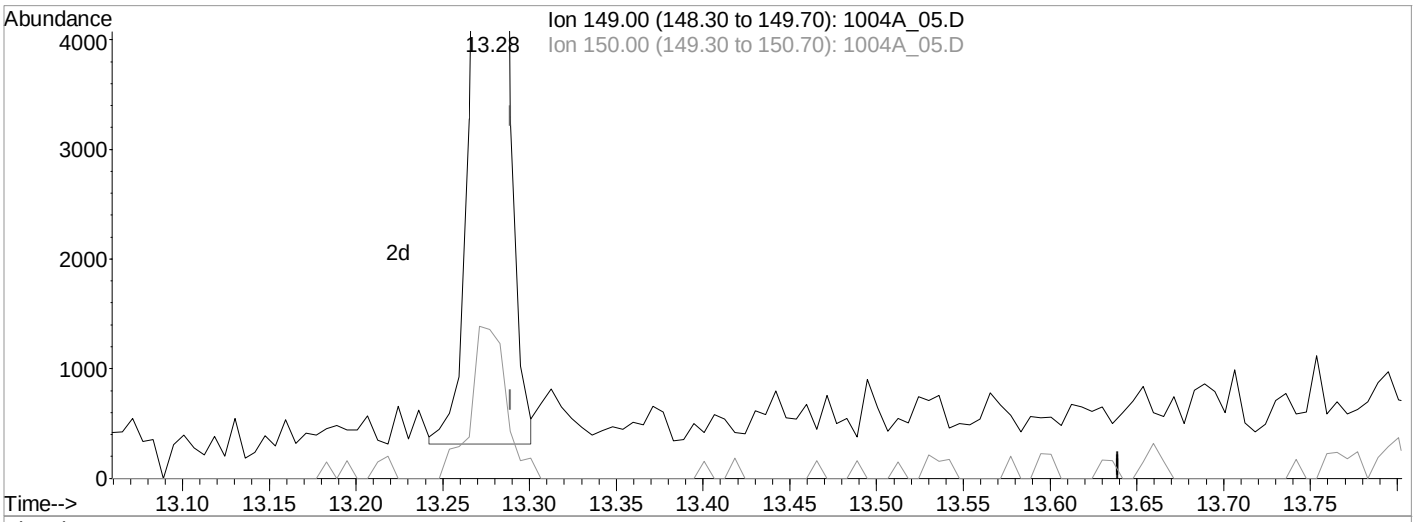
response 20376

Ion	Exp%	Act%
149.00	100	100
150.00	10.00	8.68
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\100414A\1004A 05.D Vial: 3
Acq On : 4 Oct 2014 1:54 pm Operator: 280
Sample : STD SVMS 200 PPB 14G09881 Inst : BNAMS11
Misc : 8270 Primary Calibration Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 4 18:08 2014 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\S811J04N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Sat Oct 04 18:08:22 2014
Response via : Multiple Level Calibration



TIC: 1004A_05.D

(87) Di-n-octyl phthalate (MC)

13.28min (-0.012) 156.3796976 ppb

Qvalue = 96

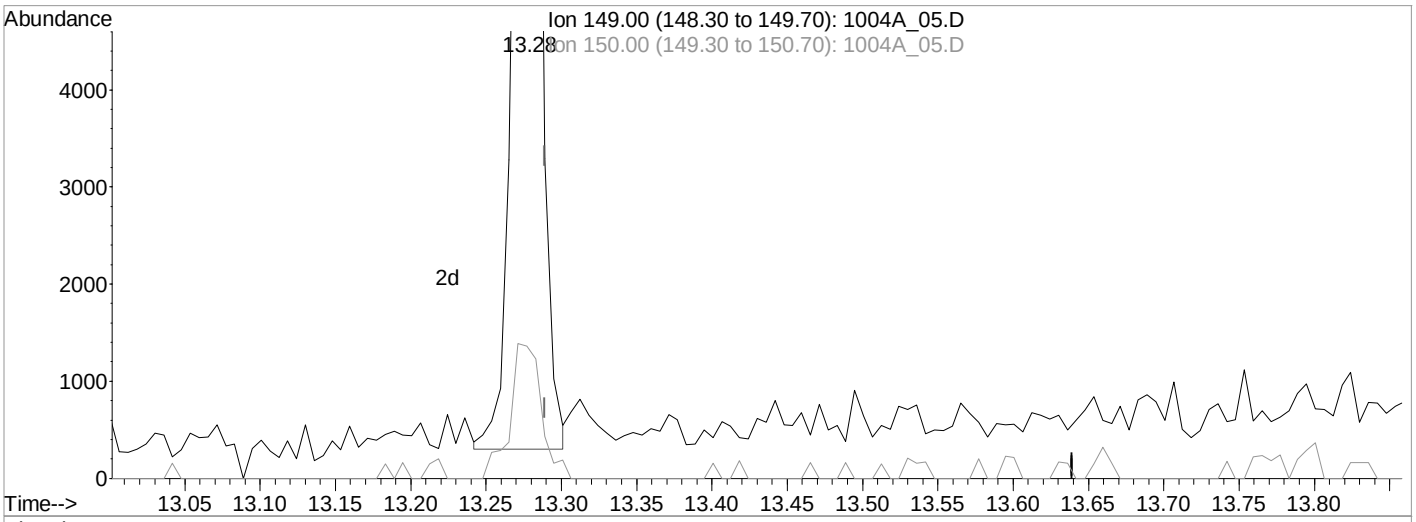
response 20376

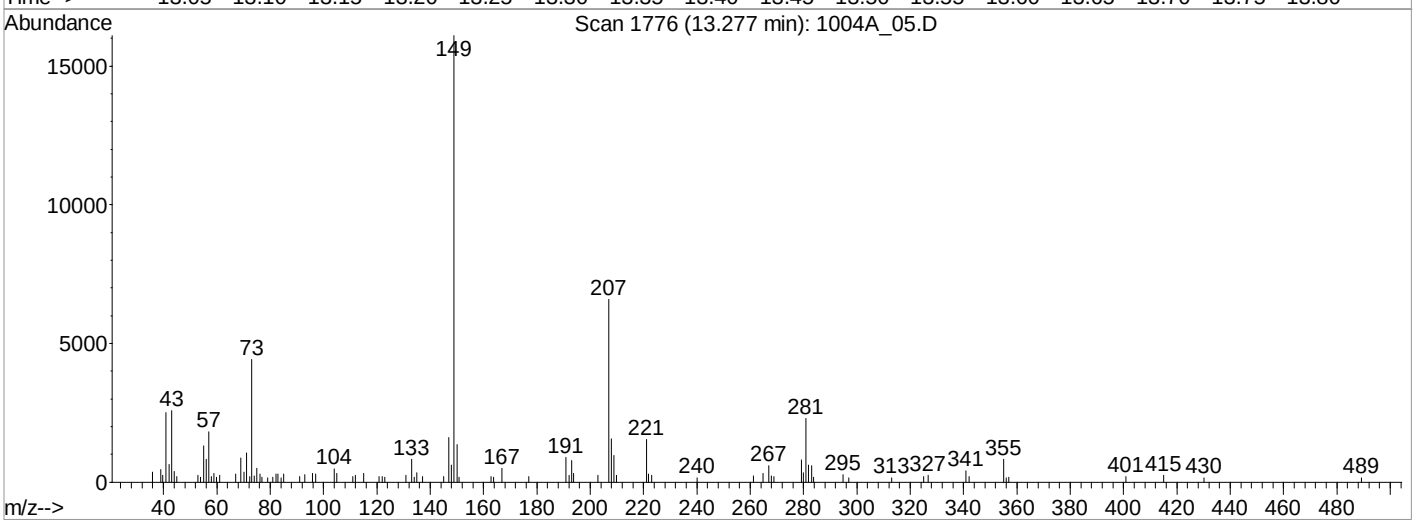
Ion	Exp%	Act%
149.00	100	100
150.00	10.00	8.68
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\100414A\1004A 05.D Vial: 3
Acq On : 4 Oct 2014 1:54 pm Operator: 280
Sample : STD SVMS 200 PPB 14G09881 Inst : BNAMS11
Misc : 8270 Primary Calibration Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 4 18:10 2014 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\S811J04N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Sat Oct 04 18:08:22 2014
Response via : Multiple Level Calibration





TIC: 1004A_05.D

(87) Di-n-octyl phthalate (MC)

13.28min (-0.012) 126.5634861 ppb m

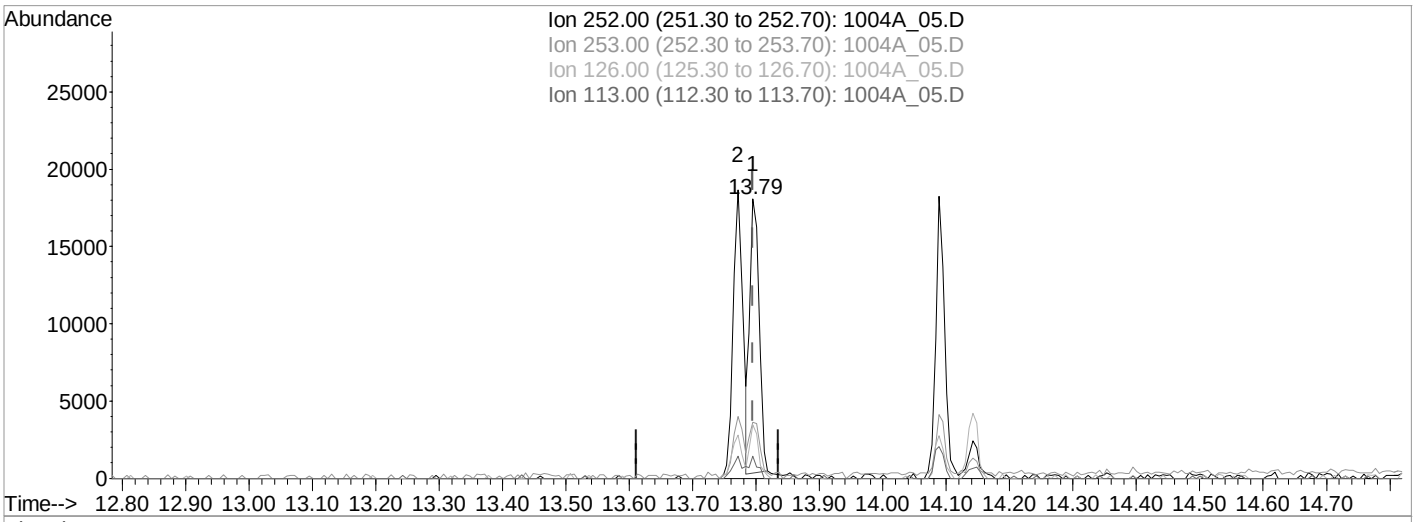
response 16491

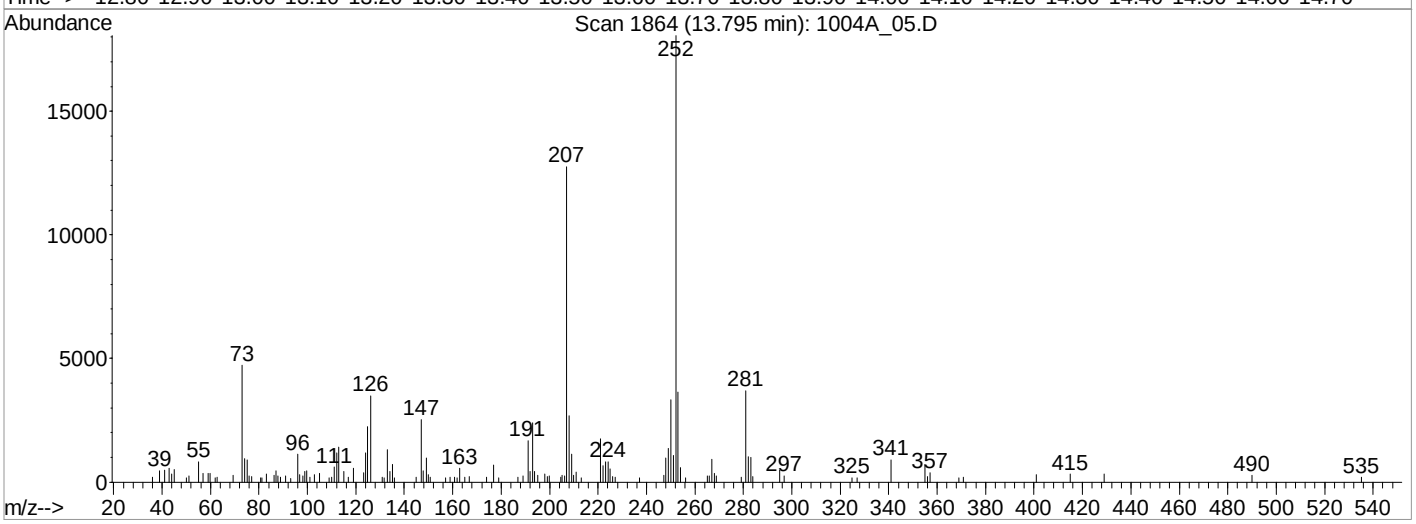
Ion	Exp%	Act%
149.00	100	100
150.00	10.00	8.44
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\100414A\1004A 05.D Vial: 3
Acq On : 4 Oct 2014 1:54 pm Operator: 280
Sample : STD SVMS 200 PPB 14G09881 Inst : BNAMS11
Misc : 8270 Primary Calibration Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 4 18:10 2014 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\S811J04N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Sat Oct 04 18:08:22 2014
Response via : Multiple Level Calibration





TIC: 1004A_05.D

(89) Benzo(b)fluoranthene (MT)

13.79min (-0.000) 184.1531599 ppb

Qvalue = 92

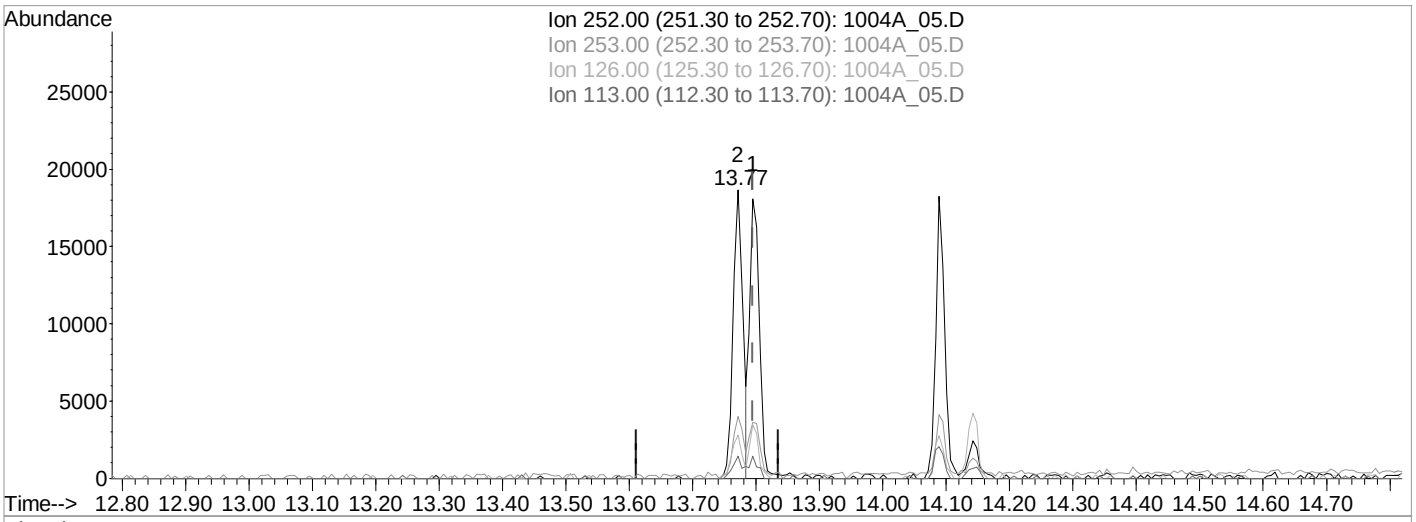
response 18215

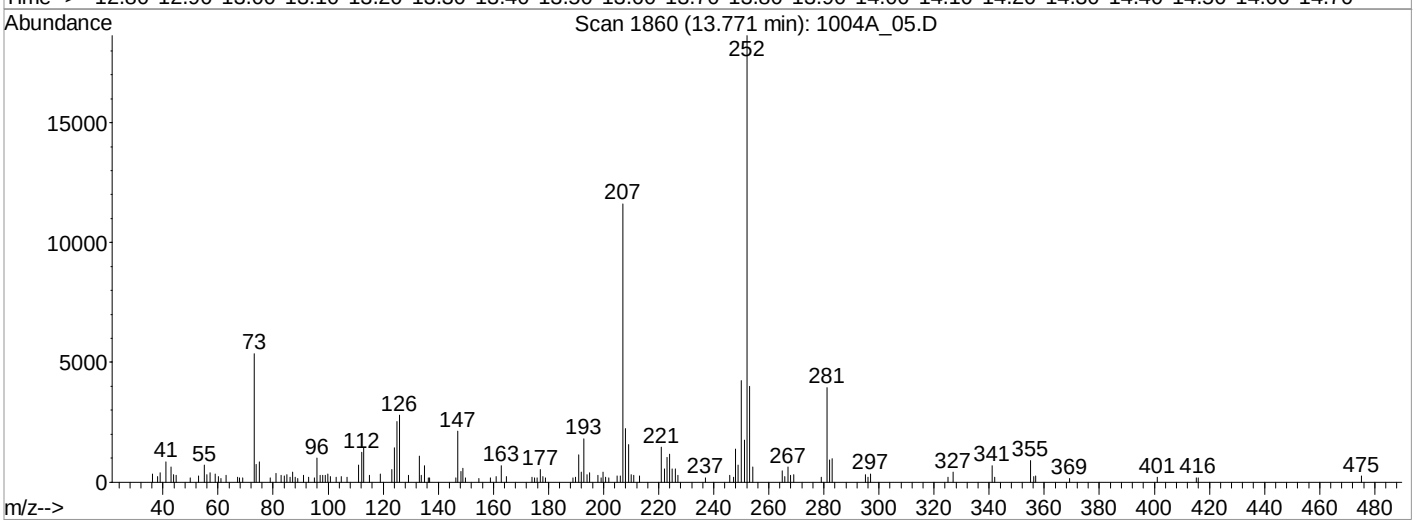
Ion	Exp%	Act%
252.00	100	100
253.00	21.20	17.77
126.00	16.00	20.68
113.00	7.90	6.94

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\100414A\1004A 05.D Vial: 3
Acq On : 4 Oct 2014 1:54 pm Operator: 280
Sample : STD SVMS 200 PPB 14G09881 Inst : BNAMS11
Misc : 8270 Primary Calibration Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 4 18:10 2014 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\S811J04N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Sat Oct 04 18:08:22 2014
Response via : Multiple Level Calibration





TIC: 1004A_05.D

(89) Benzo(b)fluoranthene (MT)

13.77min (-0.024) 197.8016235 ppb m

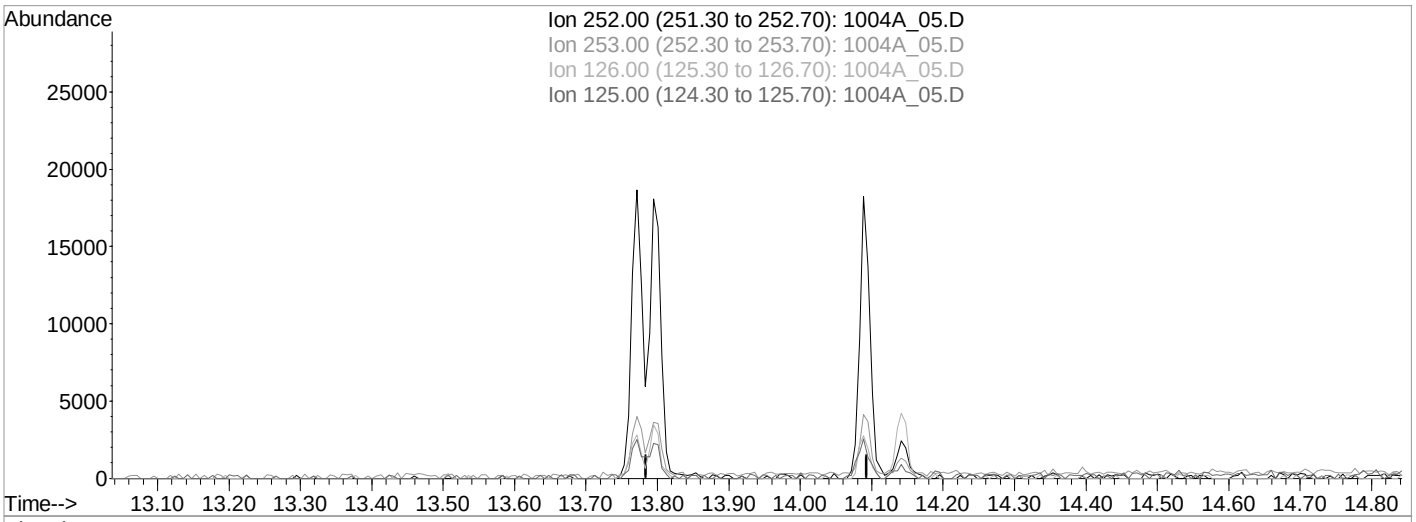
response 19565

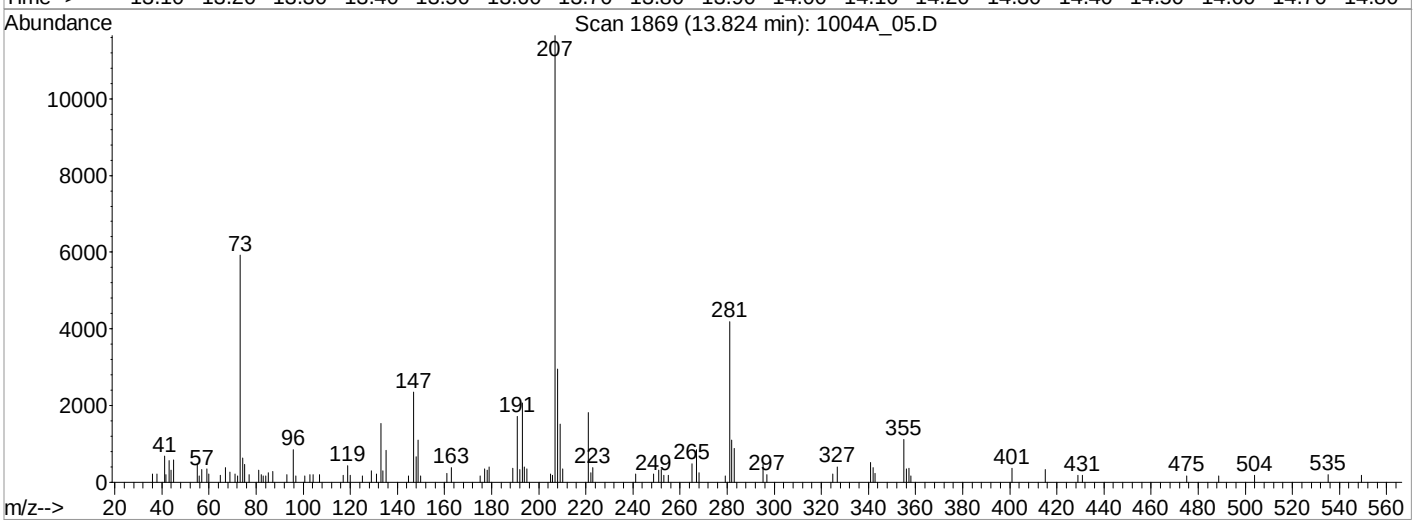
Ion	Exp%	Act%
252.00	100	100
253.00	21.20	21.39
126.00	16.00	15.02
113.00	7.90	7.70

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\100414A\1004A 05.D Vial: 3
Acq On : 4 Oct 2014 1:54 pm Operator: 280
Sample : STD SVMS 200 PPB 14G09881 Inst : BNAMS11
Misc : 8270 Primary Calibration Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 4 18:10 2014 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\S811J04N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Sat Oct 04 18:08:22 2014
Response via : Multiple Level Calibration





TIC: 1004A_05.D

(90) Benzo(k)fluoranthene (MT)

13.82min (-13.824) 0.0000000 ppb

Qvalue = 0

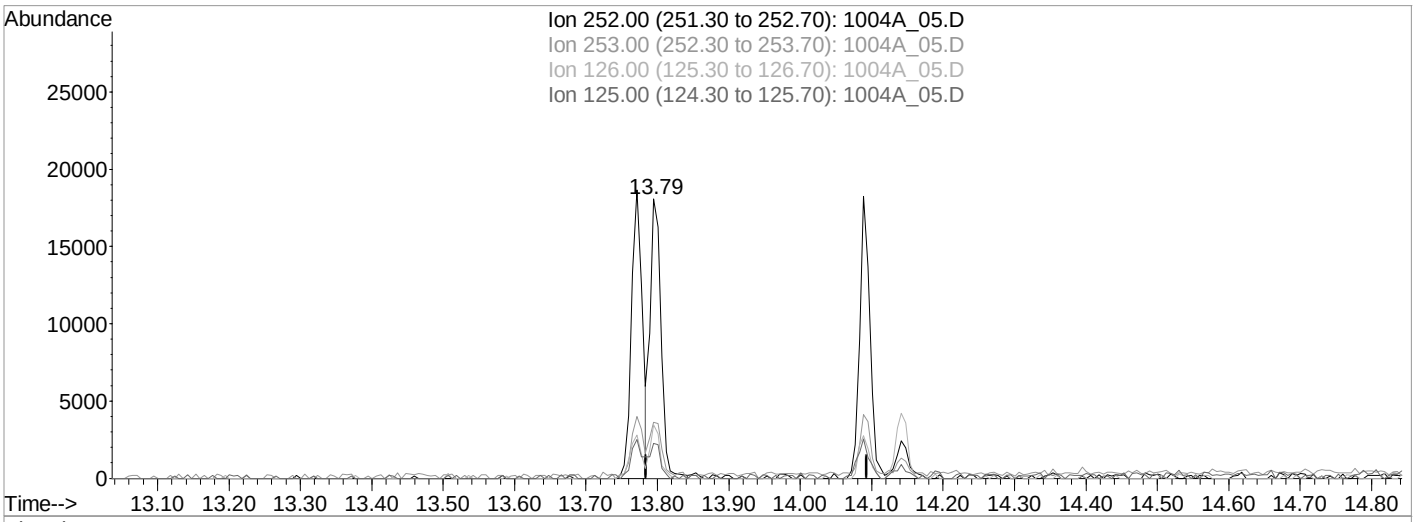
response 0

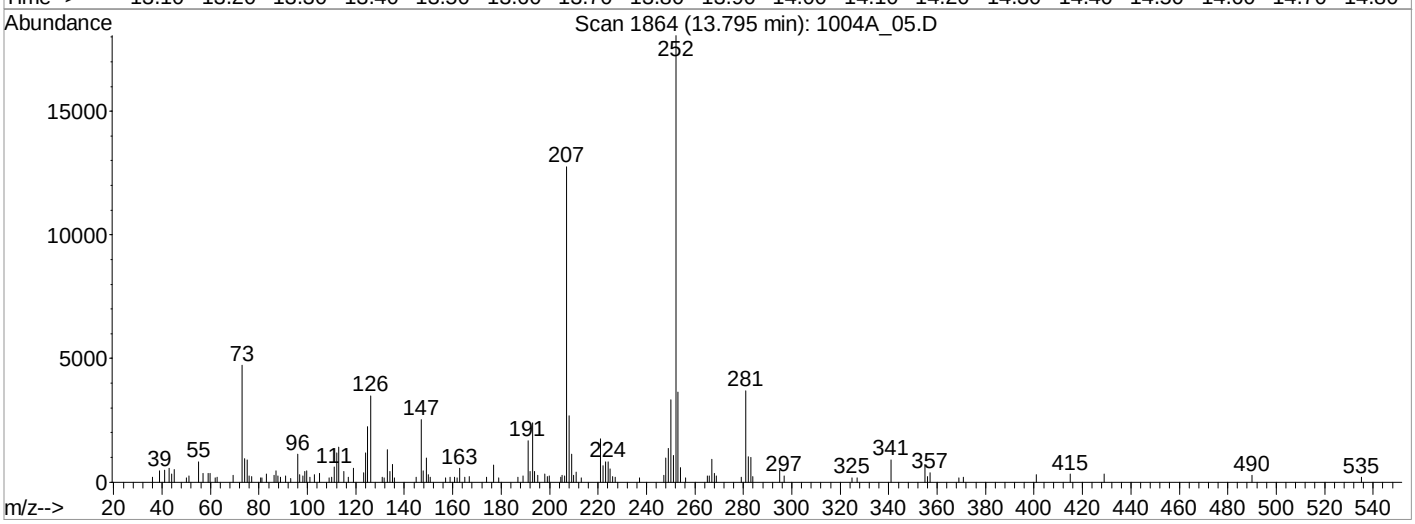
Ion	Exp%	Act%
252.00	100	0.00
253.00	21.60	0.00#
126.00	15.70	0.00
125.00	11.00	0.00

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\100414A\1004A 05.D Vial: 3
Acq On : 4 Oct 2014 1:54 pm Operator: 280
Sample : STD SVMS 200 PPB 14G09881 Inst : BNAMS11
Misc : 8270 Primary Calibration Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 4 18:10 2014 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\S811J04N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Sat Oct 04 18:08:22 2014
Response via : Multiple Level Calibration





TIC: 1004A_05.D

(90) Benzo(k)fluoranthene (MT)

13.79min (-0.029) 200.5917565 ppb m

response 19342

Ion	Exp%	Act%
252.00	100	100
253.00	21.60	20.13
126.00	15.70	19.21
125.00	11.00	12.47

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\100414A\1004A 06.D Vial: 4
Acq On : 4 Oct 2014 2:15 pm Operator: 280
Sample : STD SVMS 1K PPB 14G09881 Inst : BNAMS11
Misc : 8270 Primary Calibration Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 4 18:13 2014 Quant Results File: S811J04N.RES

Quant Method : C:\MSDCHEM\1\METHODS\S811J04N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Sat Oct 04 18:04:37 2014
Response via : Initial Calibration
DataAcq Meth : BNA11

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	5.17	152	99179	8000.00 ppb	0.00
22) Naphthalene-d8	6.40	136	412869	8000.00 ppb	0.00
40) Acenaphthene-d10	8.25	164	261776	8000.00 ppb	0.00
64) Phenanthrene-d10	9.85	188	475821	8000.00 ppb	0.00
78) Chrysene-d12	12.70	240	558714	8000.00 ppb	0.00
88) Perylene-d12	14.14	264	614910	8000.00 ppb	0.00

System Monitoring Compounds					
4) 2-Fluorophenol	4.10	112	15579	923.6404893 ppb	0.01
Spiked Amount 20.000	Range 10 - 74		Recovery = 4618.20%#		
7) Phenol-d5	4.80	99	20622	956.4038684 ppb	0.00
Spiked Amount 20.000	Range 10 - 63		Recovery = 4782.02%#		
23) Nitrobenzene-d5	5.68	82	20266	943.9289273 ppb	0.00
Spiked Amount 10.000	Range 28 - 123		Recovery = 9439.29%#		
44) 2-Fluorobiphenyl	7.52	172	45813	956.8403738 ppb	0.00
Spiked Amount 10.000	Range 35 - 133		Recovery = 9568.40%#		
67) 2,4,6-Tribromophenol	9.09	330	5498	922.3270383 ppb	0.00
Spiked Amount 20.000	Range 22 - 154		Recovery = 4611.64%#		
81) p-Terphenyl-d14	11.54	244	67980	935.5644485 ppb	0.00
Spiked Amount 10.000	Range 30 - 148		Recovery = 9355.64%#		

Target Compounds					Qvalue
2) Pyridine	3.17	79	26127	939.5227669 ppb	95
3) N-Nitrosodimethylamine	3.15	42	17273	915.9265426 ppb	94
5) Aniline	4.87	66	11314	1037.2108110 ppb	99
6) bis(2-Chloroethyl)ether	4.91	63	14651	1023.6246315 ppb	98
8) Phenol	4.81	94	21178	968.2776342 ppb	98
9) Benzaldehyde	0.00	105	0	N.D. d	
10) 2-Chlorophenol	4.97	128	18689	1017.7738820 ppb	92
11) n-Decane	5.00	41	14927	1063.2779395 ppb	93
12) 1,3-Dichlorobenzene	5.11	146	22072	1073.0693749 ppb	92
13) 1,4-Dichlorobenzene	5.18	146	21340	1007.7862505 ppb	94
14) Benzyl Alcohol	5.27	79	16956	962.5297685 ppb	100
15) 1,2-Dichlorobenzene	5.32	146	20537	1057.3433724 ppb	97
16) bis(2-Chloroisopropyl)ethe	5.40	121	5822	975.6989840 ppb	92
17) 2-Methylphenol	5.36	108	16135	1001.9829547 ppb	99
18) Hexachloroethane	5.64	117	9760	1012.9704078 ppb	93
19) N-Nitrosodi-n-propylamine	5.52	70	13996	1012.3509215 ppb	95
20) 3&4-Methyl phenol	5.50	107	19806	1038.2880479 ppb	96
21) Acetophenone	0.00	105	0	N.D. d	
24) Nitrobenzene	5.70	77	20804	992.8396786 ppb	97
25) Isophorone	5.92	82	35157	990.1672874 ppb	99
26) 2-Nitrophenol	6.01	139	9131	924.0422196 ppb	96
27) 2,4-Dimethylphenol	6.02	107	21419	1090.0627371 ppb	98
28) bis(2-Chlorethoxy)methane	6.12	93	23868	1089.5419875 ppb	93
29) 2,4-Dichlorophenol	6.24	162	14980	963.4917369 ppb	93
30) Benzoic Acid	0.00	105	0	N.D. d	
31) 1,2,4-Trichlorobenzene	6.34	180	19337	1073.8042271 ppb	96
32) Naphthalene	6.42	128	60826	1073.3501291 ppb	98
33) 4-Chloroaniline	6.46	65	8962	1064.0245552 ppb	92
34) Hexachloro-1,3-butadiene	6.54	225	11979	1006.9753978 ppb	91
35) Caprolactam	0.00	113	0	N.D. d	
36) 4-Chloro-3-methylphenol	6.95	107	17219	921.2420849 ppb	92
37) 2-Methylnaphthalene	7.14	142	41862	1008.1925486 ppb	99
38) 1-Methylnaphthalene	7.24	142	39812	1044.8949632 ppb	98

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\100414A\1004A 06.D Vial: 4
Acq On : 4 Oct 2014 2:15 pm Operator: 280
Sample : STD SVMS 1K PPB 14G09881 Inst : BNAMS11
Misc : 8270 Primary Calibration Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 4 18:13 2014 Quant Results File: S811J04N.RES

Quant Method : C:\MSDCHEM\1\METHODS\S811J04N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Sat Oct 04 18:04:37 2014
Response via : Initial Calibration
DataAcq Meth : BNA11

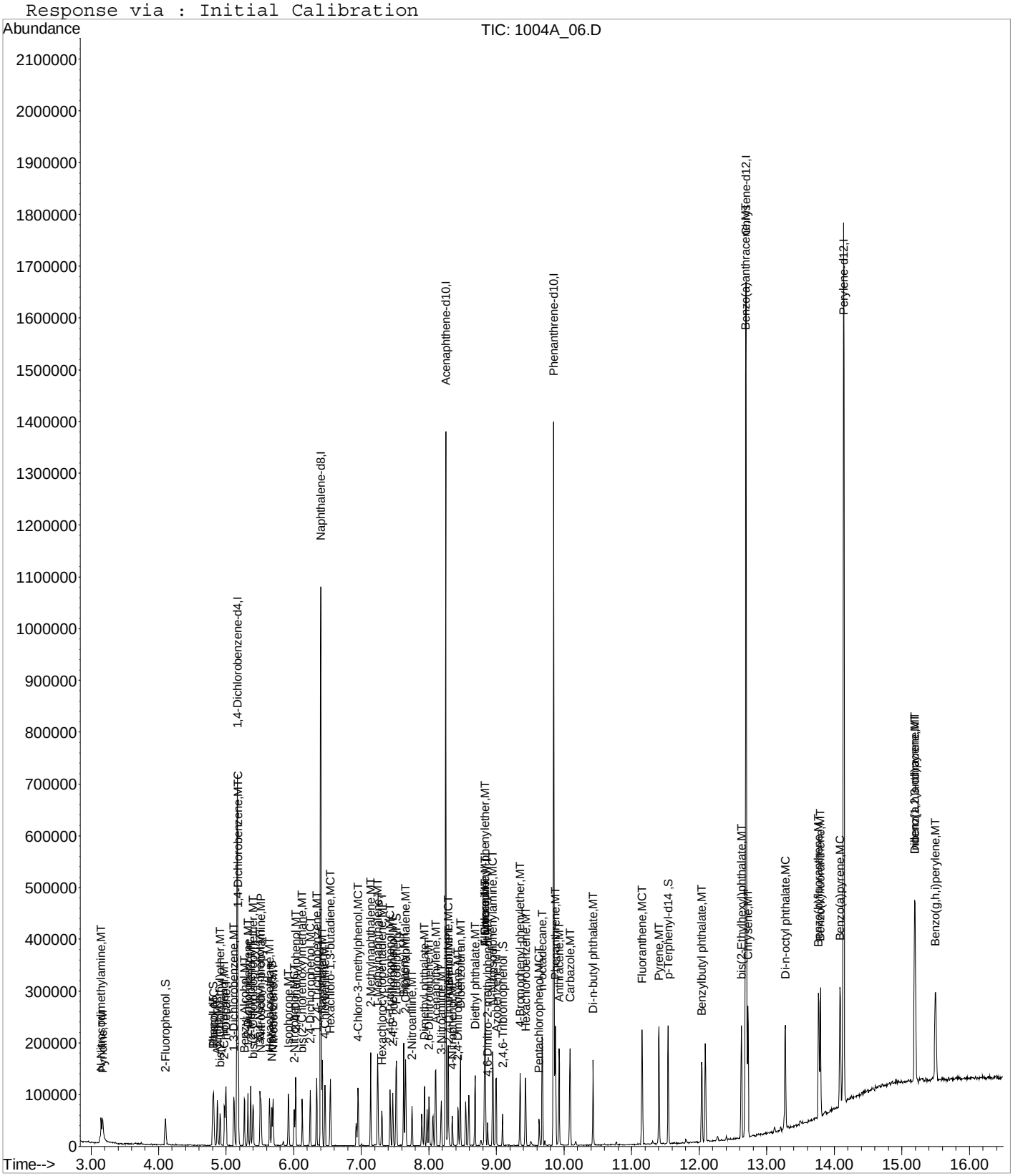
	Compound	R.T.	QIon	Response	Conc Unit		Qvalue
39)	1,2,4,5-Tetrachlorobenzene	0.00	216	0	N.D.		
41)	Hexachlorocyclopentadiene	7.30	237	9486	742.7315307 ppb		93
42)	2,4,6-Trichlorophenol	7.42	196	11195	890.1929713 ppb		94
43)	2,4,5-Trichlorophenol	7.47	196	12269	905.4056329 ppb		98
45)	Biphenyl	7.62	154	51778	970.0908407 ppb		98
46)	2-Chloronaphthalene	7.65	162	40877	1028.6197676 ppb		97
47)	2-Nitroaniline	7.75	138	9834	752.1937615 ppb		98
48)	Acenaphthylene	8.10	152	61567	943.3434110 ppb		99
49)	Dimethyl phthalate	7.94	163	43625	952.7511762 ppb		96
50)	2,6-Dinitrotoluene	8.00	165	8813	825.4964902 ppb		86
51)	3-Nitroaniline	8.18	138	10111	861.9366646 ppb	#	82
52)	Acenaphthene	8.28	153	41630	951.5479288 ppb		98
53)	2,4-Dinitrophenol	8.30	184	2700	451.5014841 ppb	#	89
54)	Dibenzofuran	8.47	168	61345	1034.2014310 ppb		98
55)	2,4-Dinitrotoluene	8.44	165	10347	731.2568870 ppb		90
56)	2,3,4,6-Tetrachlorophenol	0.00	232	0	N.D. d		
57)	4-Nitrophenol	8.35	139	6801	718.6552418 ppb		89
58)	Fluorene	8.84	166	48783	988.9419937 ppb		97
59)	4-Chlorophenyl-phenylether	8.82	204	25391	1052.7337496 ppb		94
60)	Diethyl phthalate	8.68	149	46798	900.8103603 ppb		96
61)	4-Nitroaniline	8.83	138	9836	861.6238924 ppb		95
62)	Azobenzene	8.99	77	50529	920.1644889 ppb		99
63)	Atrazine	0.00	200	0	N.D. d		
65)	4,6-Dinitro-2-methylphenol	8.87	198	5255	654.1421836 ppb		79
66)	N-Nitrosodiphenylamine	8.94	169	40589	1067.4421181 ppb		99
68)	4-Bromophenyl-phenylether	9.35	248	12354	986.1181320 ppb		91
69)	Hexachlorobenzene	9.43	284	14198	1050.7212681 ppb		93
70)	n-octadecane	9.68	55	10442	988.9581215 ppb		98
71)	Pentachlorophenol	9.64	266	5404	694.5678136 ppb		90
72)	Phenanthrene	9.87	178	73974	1061.8398175 ppb		99
73)	Anthracene	9.92	178	71327	1007.8720678 ppb		99
74)	Carbazole	10.09	167	69883	1024.7514040 ppb		99
75)	Di-n-butyl phthalate	10.43	149	79237	859.0111818 ppb		99
76)	2-nitrodiphenylamine	0.00	167	0	N.D.		
77)	Fluoranthene	11.15	202	86106	979.3425506 ppb		99
79)	Benzidine	0.00	184	0	N.D. d		
80)	Pyrene	11.41	202	94427	958.9625329 ppb		98
82)	Benzylbutyl phthalate	12.04	149	36414	758.6337128 ppb		95
83)	3,3-Dichlorobenzidine	0.00	252	0	N.D.		
84)	Benzo(a)anthracene	12.68	228	92784	970.2491498 ppb		95
85)	Chrysene	12.72	228	86846	1001.4213921 ppb		98
86)	bis(2-Ethylhexyl)phthalate	12.62	149	58461	815.8292329 ppb		98
87)	Di-n-octyl phthalate	13.28	149	99885	794.5047046 ppb		100
89)	Benzo(b)fluoranthene	13.77	252	102920m	1077.9098144 ppb		
90)	Benzo(k)fluoranthene	13.80	252	84774m	910.7664560 ppb		
91)	Benzo(a)pyrene	14.09	252	90954	969.7891039 ppb		97
92)	Indeno(1,2,3-cd)pyrene	15.19	276	110451	974.3423255 ppb		97
93)	Dibenz(a,h)anthracene	15.19	278	94024	976.4037045 ppb		97
94)	Benzo(g,h,i)perylene	15.50	276	92729	1008.0503847 ppb		98

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\100414A\1004A 06.D Vial: 4
Acq On : 4 Oct 2014 2:15 pm Operator: 280
Sample : STD SVMS 1K PPB 14G09881 Inst : BNAMS11
Misc : 8270 Primary Calibration Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 4 18:13 2014 Quant Results File: S811J04N.RES

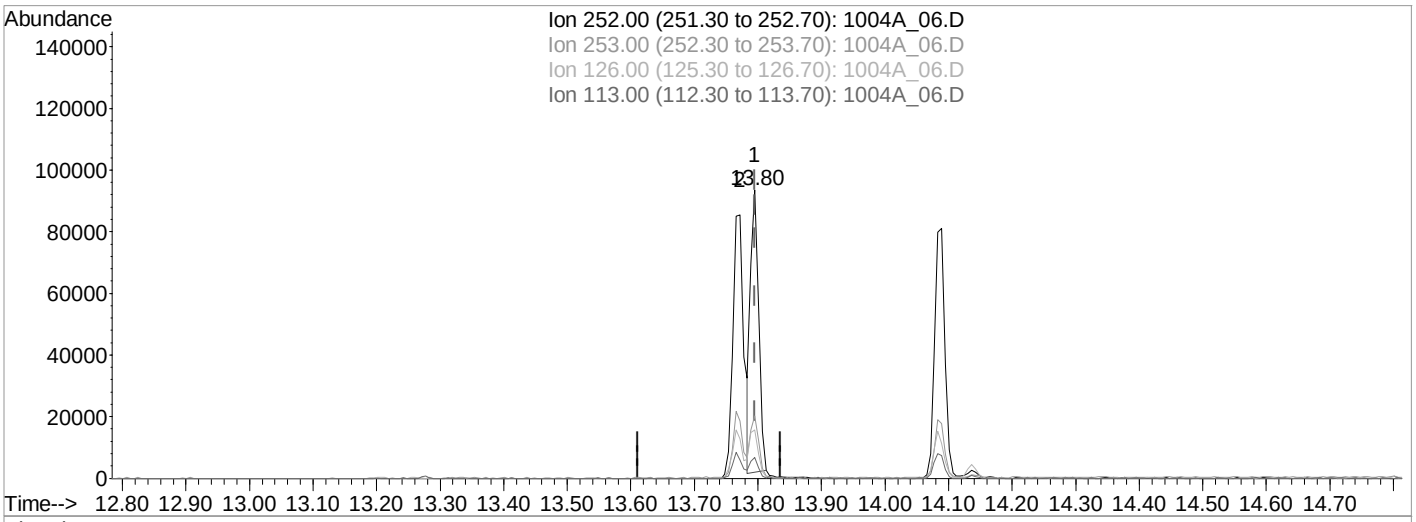
Method : C:\MSDCHEM\1\METHODS\S811J04N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Sat Oct 04 18:11:17 2014
Response via : Initial Calibration

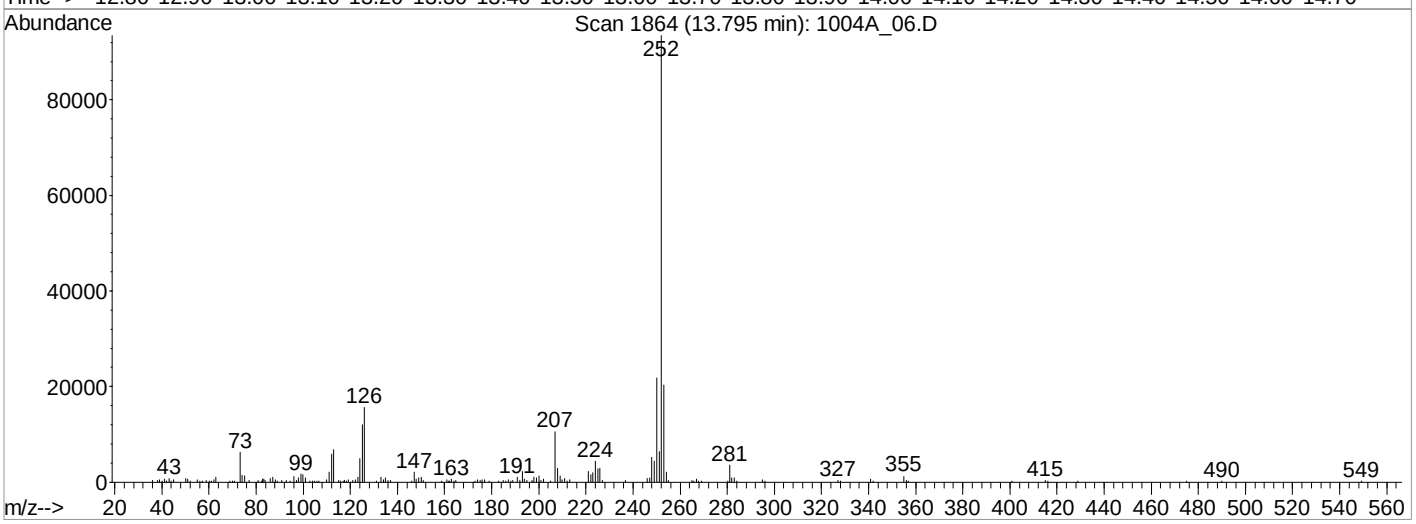


Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\100414A\1004A 06.D Vial: 4
Acq On : 4 Oct 2014 2:15 pm Operator: 280
Sample : STD SVMS 1K PPB 14G09881 Inst : BNAMS11
Misc : 8270 Primary Calibration Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 4 18:11 2014 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\S811J04N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Sat Oct 04 18:11:17 2014
Response via : Multiple Level Calibration





TIC: 1004A_06.D

(89) Benzo(b)fluoranthene (MT)

13.80min (+0.000) 837.3700290 ppb

Qvalue = 99

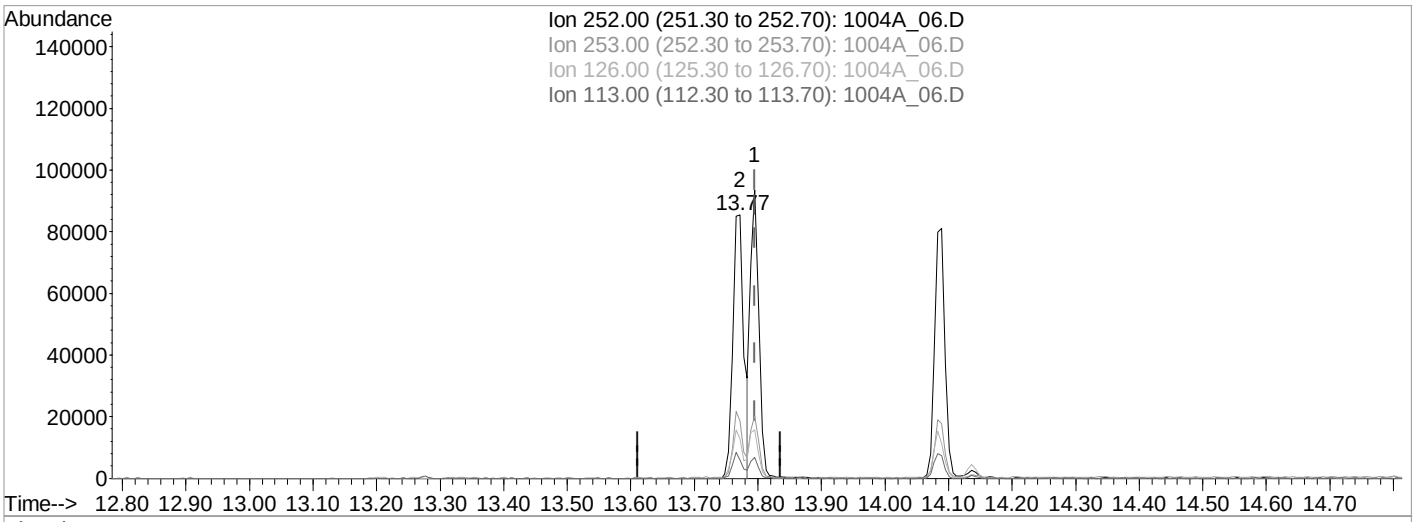
response 79953

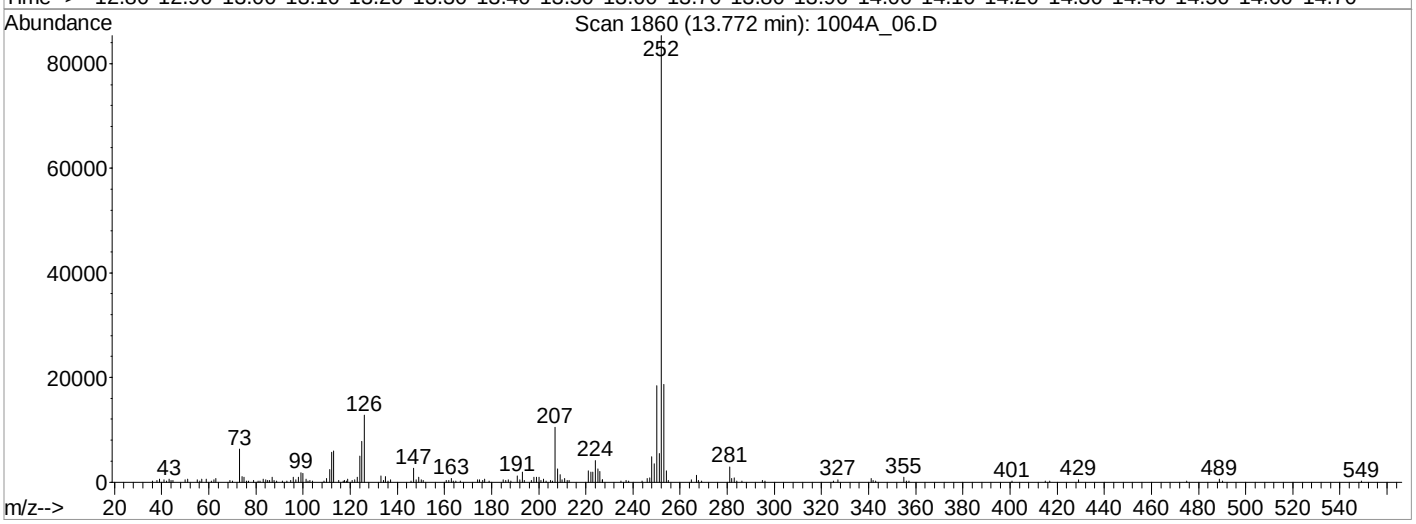
Ion	Exp%	Act%
252.00	100	100
253.00	21.20	21.69
126.00	16.00	16.27
113.00	7.90	7.09

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\100414A\1004A 06.D Vial: 4
Acq On : 4 Oct 2014 2:15 pm Operator: 280
Sample : STD SVMS 1K PPB 14G09881 Inst : BNAMS11
Misc : 8270 Primary Calibration Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 4 18:12 2014 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\S811J04N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Sat Oct 04 18:11:17 2014
Response via : Multiple Level Calibration





TIC: 1004A_06.D

(89) Benzo(b)fluoranthene (MT)

13.77min (-0.023) 1077.9098144 ppb m

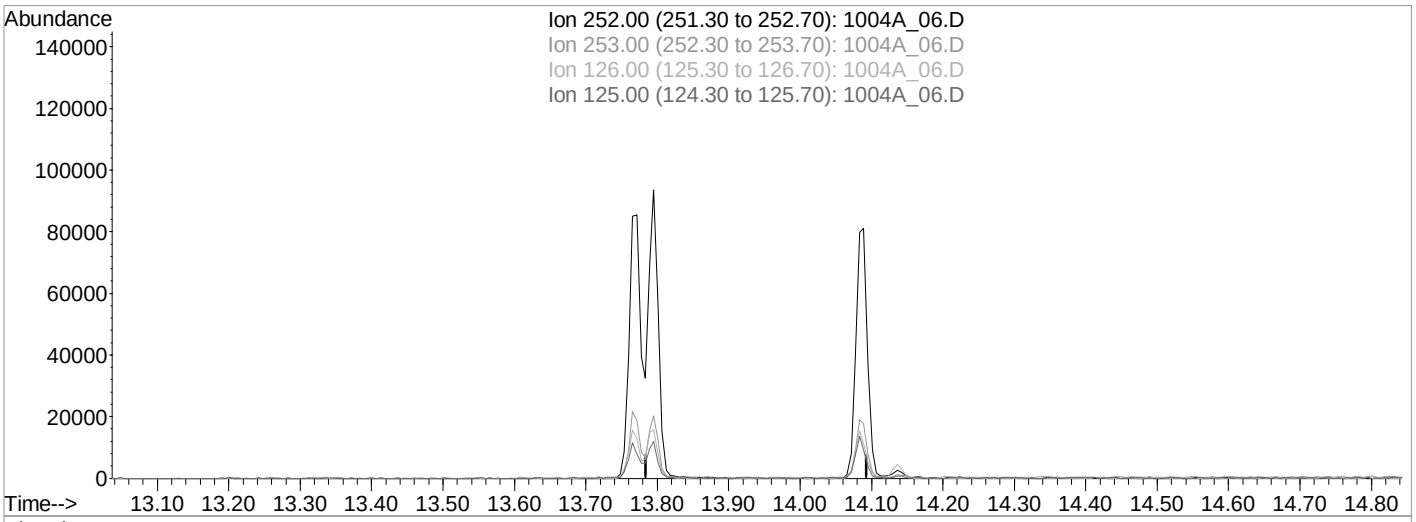
response 102920

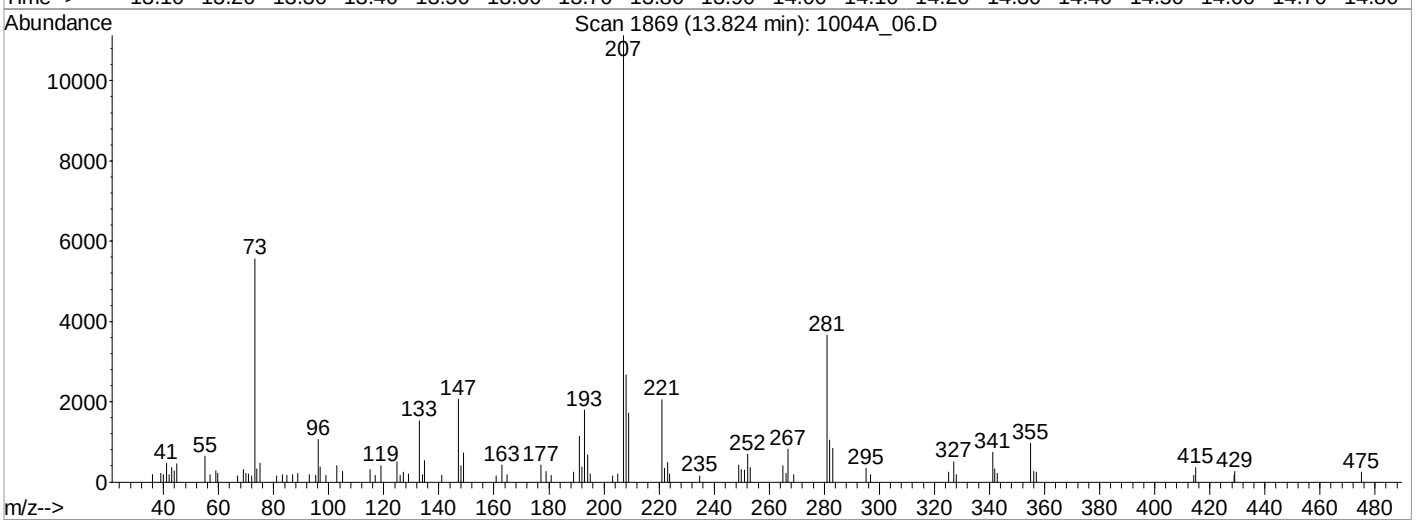
Ion	Exp%	Act%
252.00	100	100
253.00	21.20	21.87
126.00	16.00	14.98
113.00	7.90	6.88

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\100414A\1004A 06.D Vial: 4
Acq On : 4 Oct 2014 2:15 pm Operator: 280
Sample : STD SVMS 1K PPB 14G09881 Inst : BNAMS11
Misc : 8270 Primary Calibration Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 4 18:12 2014 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\S811J04N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Sat Oct 04 18:11:17 2014
Response via : Multiple Level Calibration





TIC: 1004A_06.D

(90) Benzo(k)fluoranthene (MT)

13.82min (-13.824) 0.0000000 ppb

Qvalue = 0

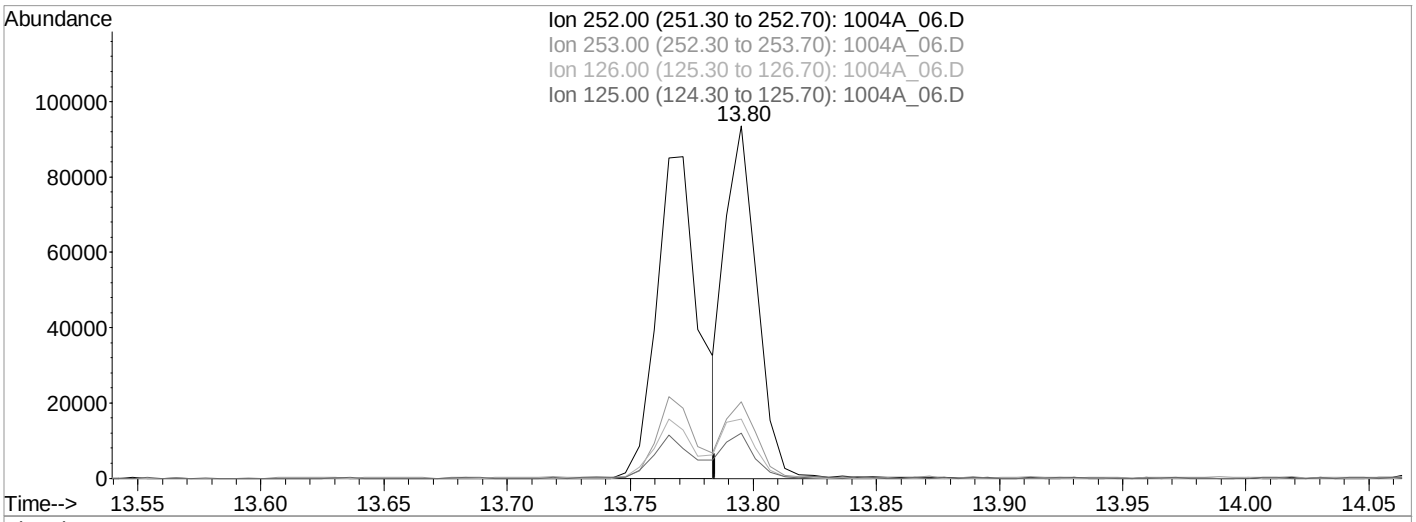
response 0

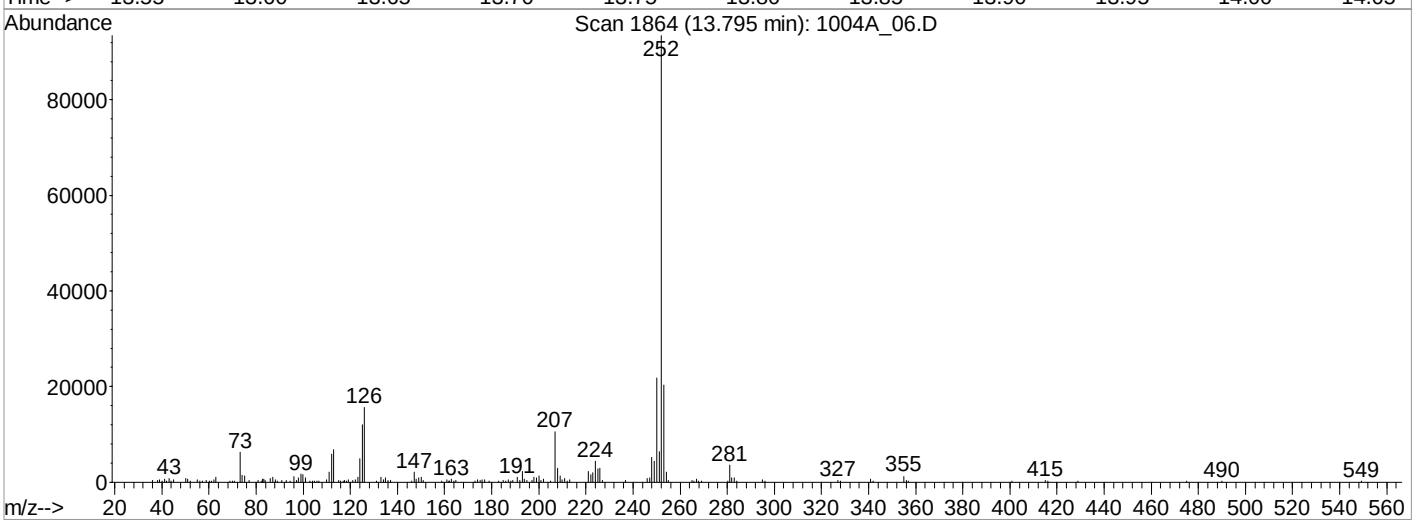
Ion	Exp%	Act%
252.00	100	0.00
253.00	21.60	0.00#
126.00	15.70	0.00
125.00	11.00	0.00

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\100414A\1004A 06.D Vial: 4
Acq On : 4 Oct 2014 2:15 pm Operator: 280
Sample : STD SVMS 1K PPB 14G09881 Inst : BNAMS11
Misc : 8270 Primary Calibration Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 4 18:13 2014 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\S811J04N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Sat Oct 04 18:11:17 2014
Response via : Multiple Level Calibration





TIC: 1004A_06.D

(90) Benzo(k)fluoranthene (MT)

13.80min (-0.029) 910.7664560 ppb m

response 84774

Ion	Exp%	Act%
252.00	100	100
253.00	21.60	21.68
126.00	15.70	16.75
125.00	11.00	12.82

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\100414A\1004A 07.D Vial: 5
Acq On : 4 Oct 2014 2:36 pm Operator: 280
Sample : STD SVMS 2K PPB 14G09881 Inst : BNAMS11
Misc : 8270 Primary Calibration Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 4 18:15 2014 Quant Results File: S811J04N.RES

Quant Method : C:\MSDCHEM\1\METHODS\S811J04N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Sat Oct 04 18:04:37 2014
Response via : Initial Calibration
DataAcq Meth : BNA11

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	5.17	152	107558	8000.00 ppb	0.00
22) Naphthalene-d8	6.40	136	449989	8000.00 ppb	0.00
40) Acenaphthene-d10	8.25	164	279609	8000.00 ppb	0.00
64) Phenanthrene-d10	9.85	188	538032	8000.00 ppb	0.00
78) Chrysene-d12	12.69	240	632673	8000.00 ppb	0.00
88) Perylene-d12	14.14	264	699432	8000.00 ppb	0.00

System Monitoring Compounds					
4) 2-Fluorophenol	4.10	112	34408	1881.0477575 ppb	0.01
Spiked Amount 20.000	Range 10 - 74		Recovery = 9405.24%#		
7) Phenol-d5	4.80	99	43445	1857.9214557 ppb	0.00
Spiked Amount 20.000	Range 10 - 63		Recovery = 9289.61%#		
23) Nitrobenzene-d5	5.68	82	43952	1878.2797533 ppb	0.00
Spiked Amount 10.000	Range 28 - 123		Recovery = 18782.80%#		
44) 2-Fluorobiphenyl	7.52	172	98994	1935.7011769 ppb	0.00
Spiked Amount 10.000	Range 35 - 133		Recovery = 19357.01%#		
67) 2,4,6-Tribromophenol	9.09	330	13045	1935.3512044 ppb	0.00
Spiked Amount 20.000	Range 22 - 154		Recovery = 9676.76%#		
81) p-Terphenyl-d14	11.54	244	150205	1825.5225105 ppb	0.00
Spiked Amount 10.000	Range 30 - 148		Recovery = 18255.23%#		

Target Compounds						Qvalue
2) Pyridine	3.17	79	55982	1856.2786952 ppb		98
3) N-Nitrosodimethylamine	3.14	42	34734	1698.3401569 ppb		95
5) Aniline	4.87	66	21977	1857.7885232 ppb		96
6) bis(2-Chloroethyl)ether	4.91	63	30070	1937.2420821 ppb		98
8) Phenol	4.81	94	44456	1874.2276784 ppb		99
9) Benzaldehyde	0.00	105	0	N.D. d		
10) 2-Chlorophenol	4.98	128	39142	1965.5552567 ppb		96
11) n-Decane	5.00	41	28533	1874.1256902 ppb	#	93
12) 1,3-Dichlorobenzene	5.12	146	44739	2005.6234208 ppb		96
13) 1,4-Dichlorobenzene	5.18	146	45004	1959.7566048 ppb		91
14) Benzyl Alcohol	5.27	79	33268	1741.3836475 ppb		99
15) 1,2-Dichlorobenzene	5.32	146	42718	2027.9953865 ppb		98
16) bis(2-Chloroisopropyl)ethe	5.40	121	12623	1950.6674667 ppb		95
17) 2-Methylphenol	5.36	108	34876	1997.0780568 ppb		92
18) Hexachloroethane	5.64	117	20147	1928.1212192 ppb		93
19) N-Nitrosodi-n-propylamine	5.52	70	29274	1952.4783379 ppb		95
20) 3&4-Methyl phenol	5.50	107	38538	1862.8902059 ppb		95
21) Acetophenone	0.00	105	0	N.D. d		
24) Nitrobenzene	5.70	77	44552	1950.7870455 ppb		98
25) Isophorone	5.92	82	71428	1845.7617128 ppb		99
26) 2-Nitrophenol	6.01	139	20581	1910.9543933 ppb		94
27) 2,4-Dimethylphenol	6.02	107	44291	2068.1315823 ppb		99
28) bis(2-Chlorethoxy)methane	6.12	93	47524	1990.4501581 ppb		98
29) 2,4-Dichlorophenol	6.24	162	32002	1888.5290937 ppb		96
30) Benzoic Acid	0.00	105	0	N.D. d		
31) 1,2,4-Trichlorobenzene	6.34	180	40061	2041.1182966 ppb		93
32) Naphthalene	6.42	128	125279	2028.3402611 ppb		99
33) 4-Chloroaniline	6.46	65	17332	1888.0164294 ppb		93
34) Hexachloro-1,3-butadiene	6.54	225	26775	2065.0860478 ppb		96
35) Caprolactam	0.00	113	0	N.D. d		
36) 4-Chloro-3-methylphenol	6.95	107	38330	1881.5468671 ppb		94
37) 2-Methylnaphthalene	7.14	142	90475	1999.2287085 ppb		99
38) 1-Methylnaphthalene	7.24	142	84395	2032.2902595 ppb		97

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\100414A\1004A 07.D Vial: 5
Acq On : 4 Oct 2014 2:36 pm Operator: 280
Sample : STD SVMS 2K PPB 14G09881 Inst : BNAMS11
Misc : 8270 Primary Calibration Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 4 18:15 2014 Quant Results File: S811J04N.RES

Quant Method : C:\MSDCHEM\1\METHODS\S811J04N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Sat Oct 04 18:04:37 2014
Response via : Initial Calibration
DataAcq Meth : BNA11

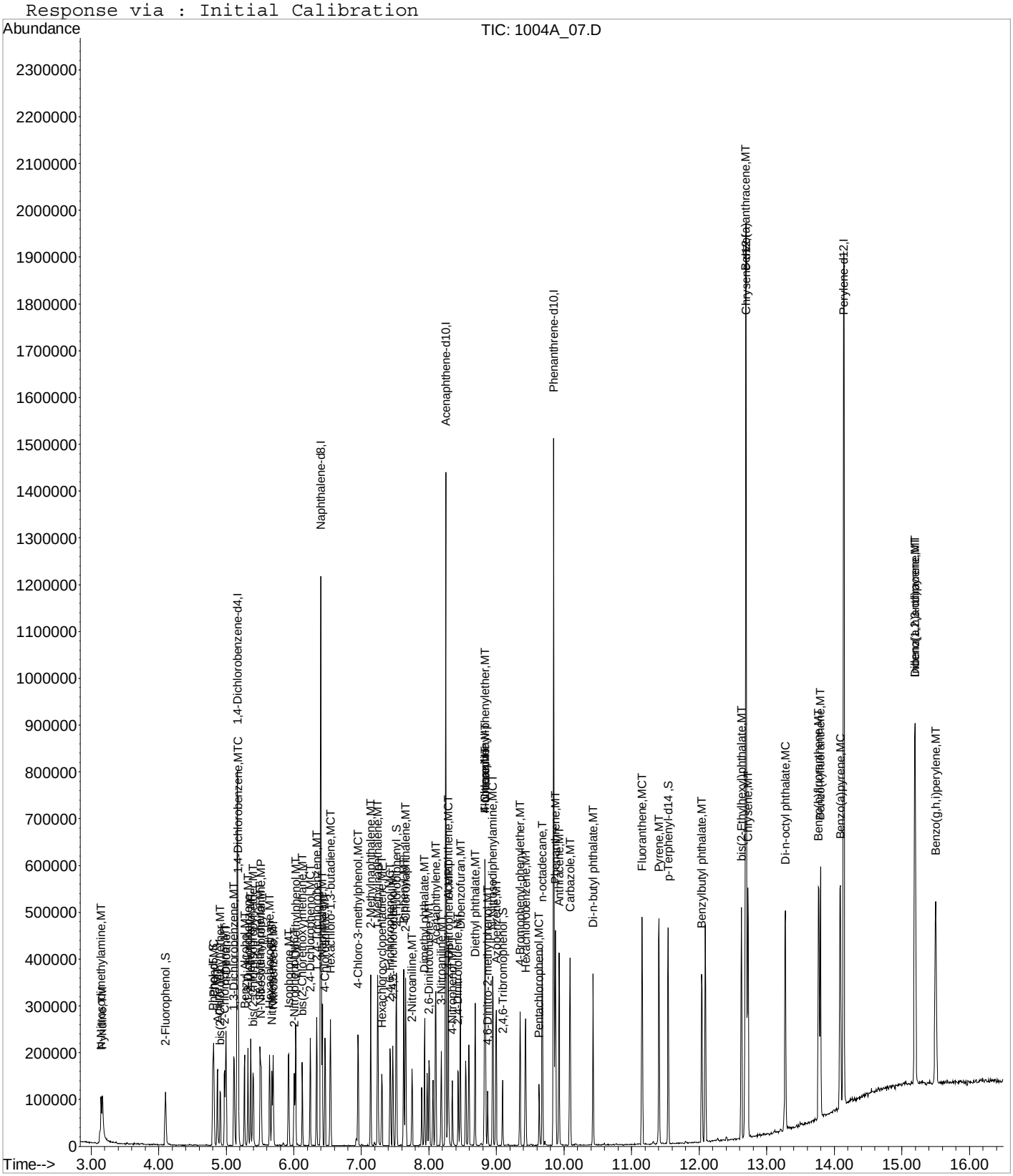
	Compound	R.T.	QIon	Response	Conc Unit		Qvalue
39)	1,2,4,5-Tetrachlorobenzene	0.00	216	0	N.D. d		
41)	Hexachlorocyclopentadiene	7.30	237	22290	1633.9452128 ppb		93
42)	2,4,6-Trichlorophenol	7.42	196	25757	1917.4940365 ppb		94
43)	2,4,5-Trichlorophenol	7.47	196	26755	1848.4923687 ppb		96
45)	Biphenyl	7.62	154	113198	1985.5670980 ppb		98
46)	2-Chloronaphthalene	7.65	162	85508	2014.4722104 ppb		99
47)	2-Nitroaniline	7.75	138	22795	1632.3669785 ppb		96
48)	Acenaphthylene	8.10	152	135558	1944.5793162 ppb		99
49)	Dimethyl phthalate	7.94	163	94988	1942.1889469 ppb		94
50)	2,6-Dinitrotoluene	8.01	165	20686	1814.0391779 ppb		95
51)	3-Nitroaniline	8.18	138	23620	1885.1235495 ppb		95
52)	Acenaphthene	8.28	153	90737	1941.7233565 ppb		99
53)	2,4-Dinitrophenol	8.30	184	7782	1218.3310862 ppb	#	86
54)	Dibenzofuran	8.47	168	126542	1997.2817734 ppb		99
55)	2,4-Dinitrotoluene	8.44	165	25937	1716.1448576 ppb		92
56)	2,3,4,6-Tetrachlorophenol	0.00	232	0	N.D. d		
57)	4-Nitrophenol	8.35	139	16501	1632.4382719 ppb	#	81
58)	Fluorene	8.84	166	105330	1999.0933732 ppb		97
59)	4-Chlorophenyl-phenylether	8.82	204	49858	1935.3177285 ppb		96
60)	Diethyl phthalate	8.68	149	100631	1813.4957777 ppb		97
61)	4-Nitroaniline	8.84	138	22444	1840.6794097 ppb		97
62)	Azobenzene	9.00	77	107003	1824.3132001 ppb		98
63)	Atrazine	0.00	200	0	N.D. d		
65)	4,6-Dinitro-2-methylphenol	8.87	198	13951	1535.8198399 ppb		93
66)	N-Nitrosodiphenylamine	8.94	169	86831	2019.5112863 ppb		100
68)	4-Bromophenyl-phenylether	9.35	248	27602	1948.4864847 ppb		92
69)	Hexachlorobenzene	9.43	284	31533	2063.7692676 ppb		96
70)	n-octadecane	9.68	55	19910	1667.6348843 ppb	#	96
71)	Pentachlorophenol	9.63	266	13699	1557.1257203 ppb		96
72)	Phenanthrene	9.87	178	153923	1953.9746358 ppb		98
73)	Anthracene	9.92	178	152417	1904.6727101 ppb		99
74)	Carbazole	10.09	167	151032	1958.6257227 ppb		99
75)	Di-n-butyl phthalate	10.43	149	181901	1743.9795106 ppb		98
76)	2-nitrodiphenylamine	0.00	167	0	N.D.		
77)	Fluoranthene	11.15	202	192611	1937.3933033 ppb		99
79)	Benzidine	0.00	184	0	N.D. d		
80)	Pyrene	11.41	202	204379	1832.9557057 ppb		99
82)	Benzylbutyl phthalate	12.04	149	82832	1523.9550277 ppb		99
83)	3,3-Dichlorobenzidine	0.00	252	0	N.D. d		
84)	Benzo(a)anthracene	12.68	228	209059	1930.5866606 ppb		96
85)	Chrysene	12.72	228	189385	1928.5143529 ppb		100
86)	bis(2-Ethylhexyl)phthalate	12.62	149	126904	1563.9345977 ppb		100
87)	Di-n-octyl phthalate	13.28	149	227204	1595.9615542 ppb		99
89)	Benzo(b)fluoranthene	13.77	252	222853m	2051.9519713 ppb		
90)	Benzo(k)fluoranthene	13.79	252	191335m	1807.1942244 ppb		
91)	Benzo(a)pyrene	14.09	252	199650	1871.5044724 ppb		98
92)	Indeno(1,2,3-cd)pyrene	15.19	276	245343	1902.7496283 ppb		99
93)	Dibenz(a,h)anthracene	15.19	278	208732	1905.6616207 ppb		99
94)	Benzo(g,h,i)perylene	15.50	276	207088	1979.1907612 ppb		98

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\100414A\1004A 07.D Vial: 5
Acq On : 4 Oct 2014 2:36 pm Operator: 280
Sample : STD SVMS 2K PPB 14G09881 Inst : BNAMS11
Misc : 8270 Primary Calibration Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 4 18:15 2014 Quant Results File: S811J04N.RES

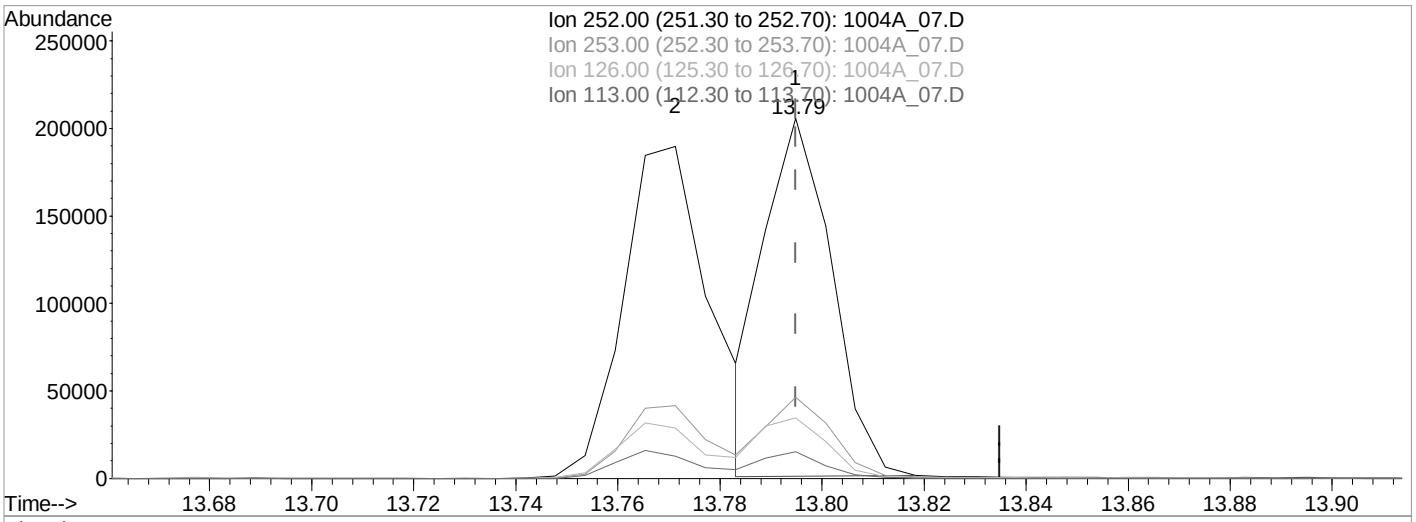
Method : C:\MSDCHEM\1\METHODS\S811J04N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Sat Oct 04 18:13:24 2014
Response via : Initial Calibration

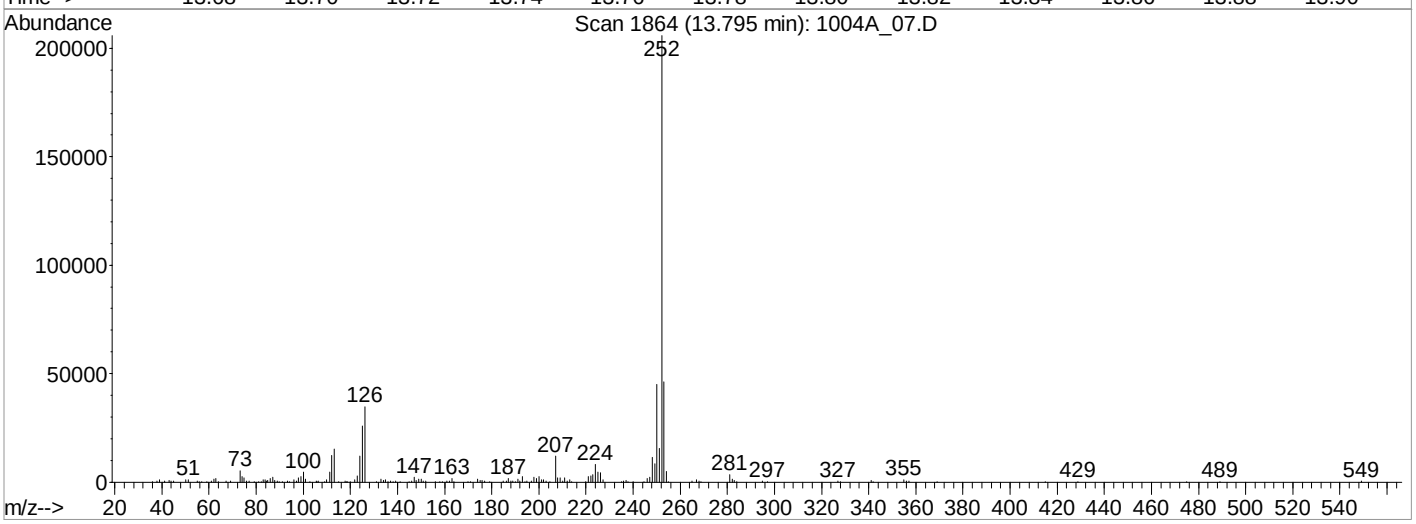


Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\100414A\1004A 07.D Vial: 5
Acq On : 4 Oct 2014 2:36 pm Operator: 280
Sample : STD SVMS 2K PPB 14G09881 Inst : BNAMS11
Misc : 8270 Primary Calibration Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 4 18:14 2014 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\S811J04N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Sat Oct 04 18:13:24 2014
Response via : Multiple Level Calibration





TIC: 1004A_07.D

(89) Benzo(b)fluoranthene (MT)

13.79min (-0.000) 1732.5847017 ppb

Qvalue = 98

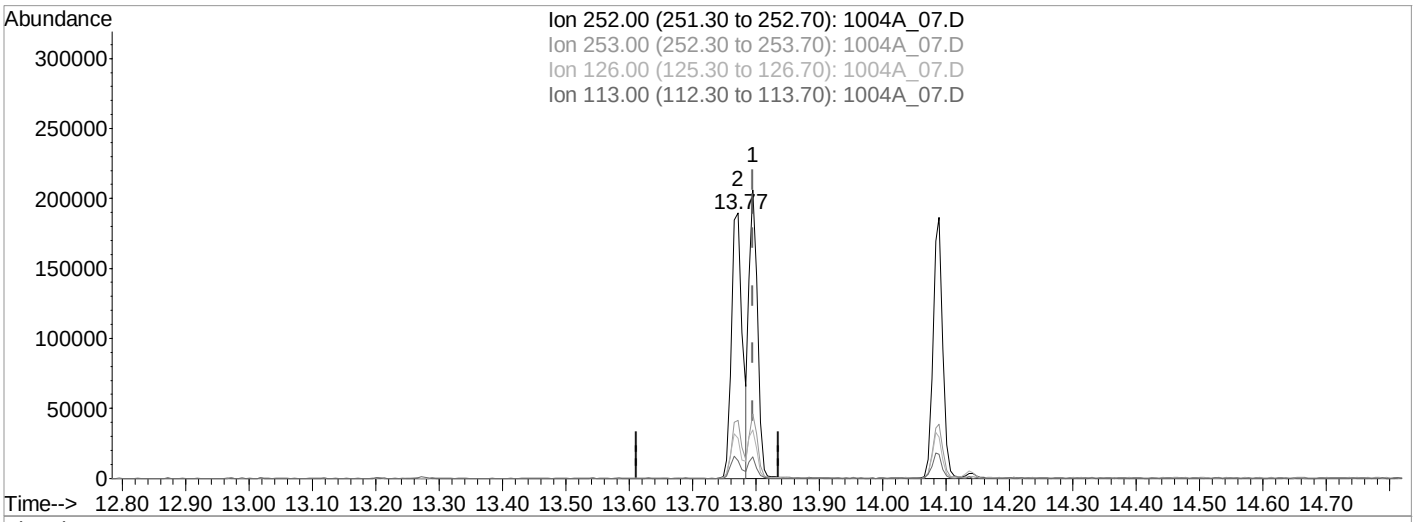
response 188168

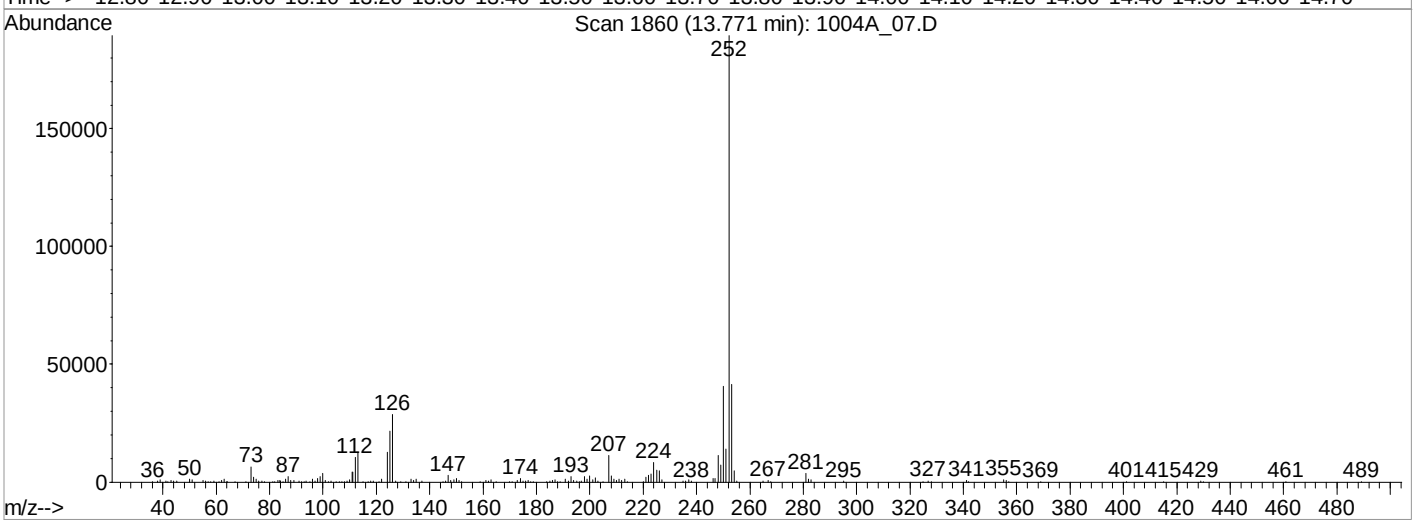
Ion	Exp%	Act%
252.00	100	100
253.00	21.20	22.68
126.00	16.00	16.49
113.00	7.90	7.32

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\100414A\1004A 07.D Vial: 5
Acq On : 4 Oct 2014 2:36 pm Operator: 280
Sample : STD SVMS 2K PPB 14G09881 Inst : BNAMS11
Misc : 8270 Primary Calibration Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 4 18:15 2014 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\S811J04N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Sat Oct 04 18:13:24 2014
Response via : Multiple Level Calibration





TIC: 1004A_07.D

(89) Benzo(b)fluoranthene (MT)

13.77min (-0.024) 2051.9519713 ppb m

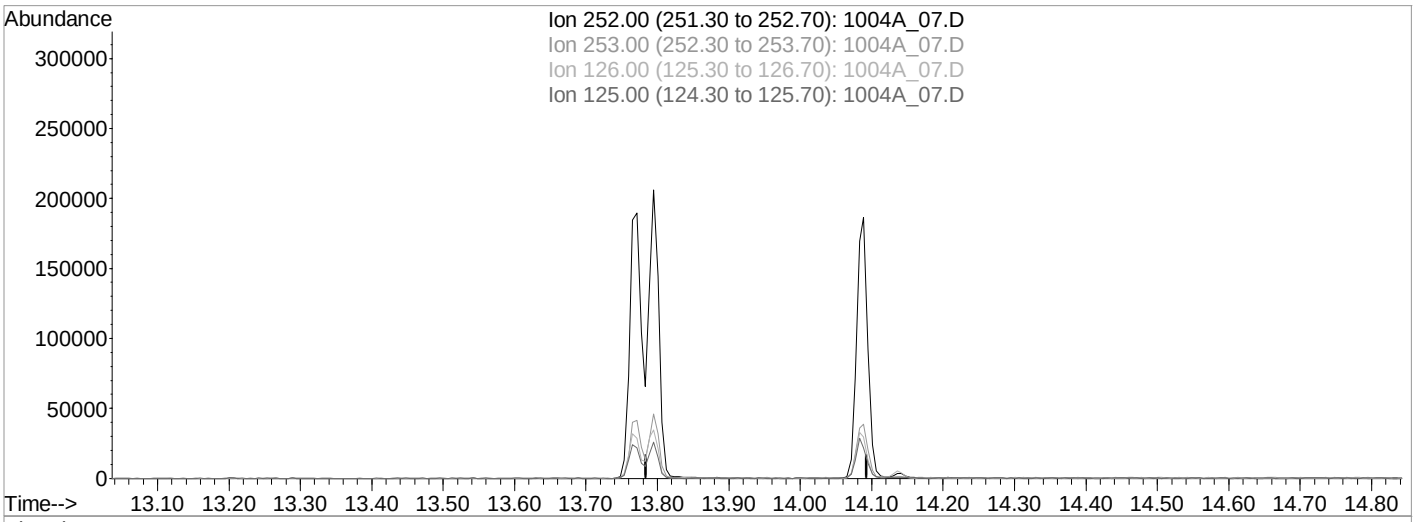
response 222853

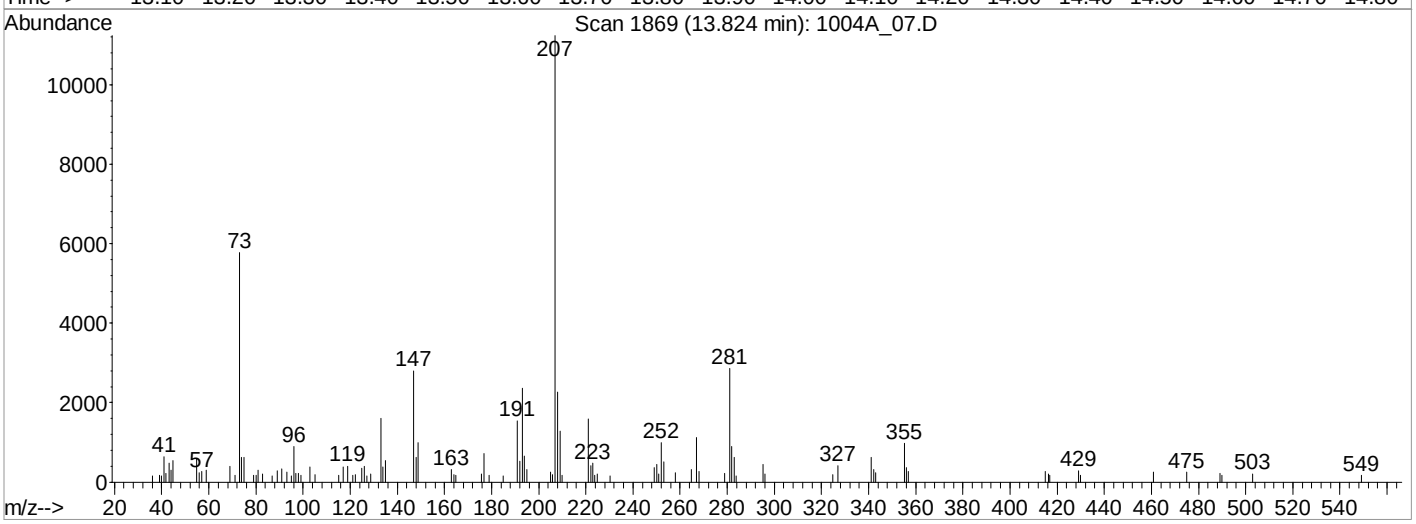
Ion	Exp%	Act%
252.00	100	100
253.00	21.20	21.90
126.00	16.00	15.14
113.00	7.90	6.61

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\100414A\1004A 07.D Vial: 5
Acq On : 4 Oct 2014 2:36 pm Operator: 280
Sample : STD SVMS 2K PPB 14G09881 Inst : BNAMS11
Misc : 8270 Primary Calibration Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 4 18:15 2014 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\S811J04N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Sat Oct 04 18:13:24 2014
Response via : Multiple Level Calibration





TIC: 1004A_07.D

(90) Benzo(k)fluoranthene (MT)

13.82min (-13.824) 0.0000000 ppb

Qvalue = 0

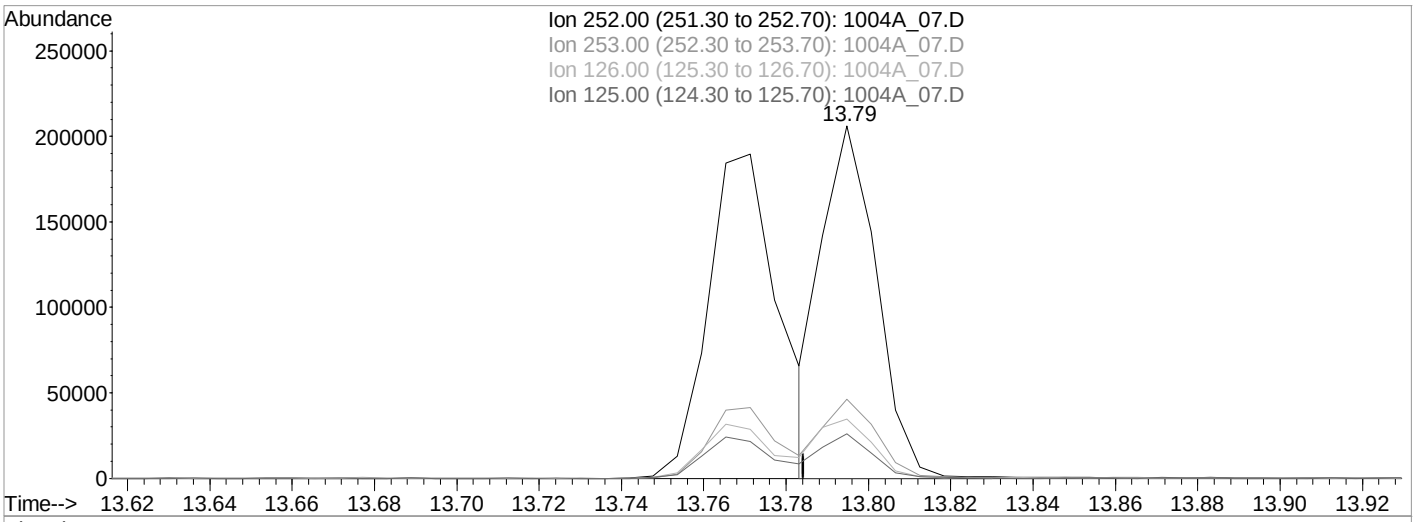
response 0

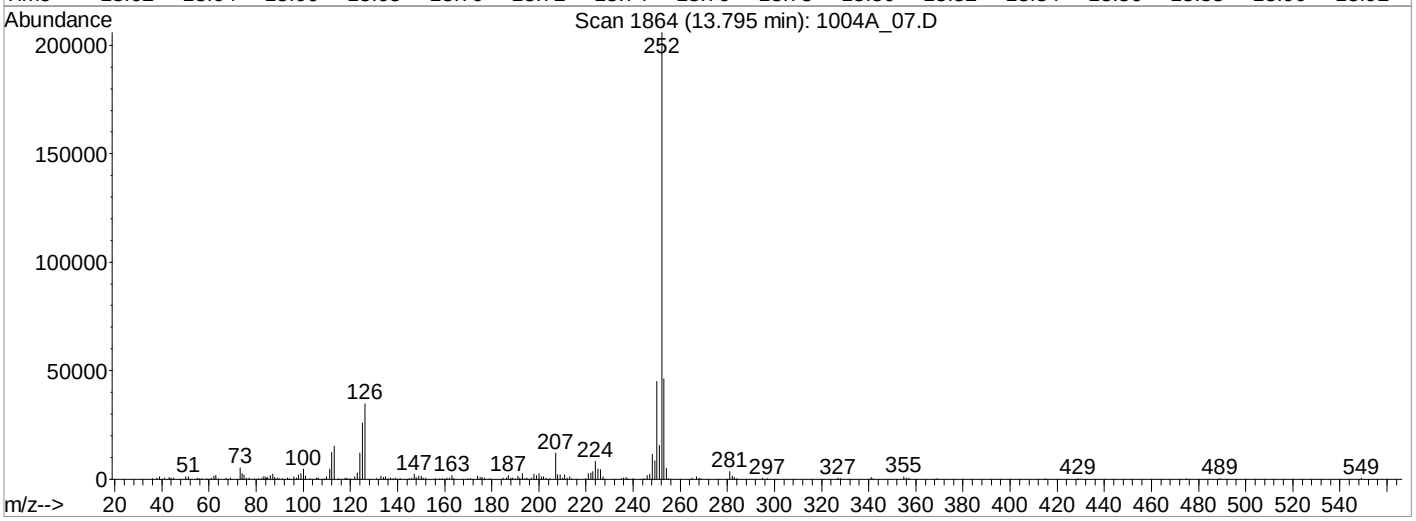
Ion	Exp%	Act%
252.00	100	0.00
253.00	21.60	0.00#
126.00	15.70	0.00
125.00	11.00	0.00

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\100414A\1004A 07.D Vial: 5
Acq On : 4 Oct 2014 2:36 pm Operator: 280
Sample : STD SVMS 2K PPB 14G09881 Inst : BNAMS11
Misc : 8270 Primary Calibration Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 4 18:15 2014 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\S811J04N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Sat Oct 04 18:13:24 2014
Response via : Multiple Level Calibration





TIC: 1004A_07.D

(90) Benzo(k)fluoranthene (MT)

13.79min (-0.029) 1807.1942244 ppb m

response 191335

Ion	Exp%	Act%
252.00	100	100
253.00	21.60	22.41
126.00	15.70	16.79
125.00	11.00	12.55

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\100414A\1004A 08.D Vial: 6
Acq On : 4 Oct 2014 2:58 pm Operator: 280
Sample : STD SVMS 5K PPB 14G09881 Inst : BNAMS11
Misc : 8270 Primary Calibration Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 4 18:17 2014 Quant Results File: S811J04N.RES

Quant Method : C:\MSDCHEM\1\METHODS\S811J04N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Sat Oct 04 18:04:37 2014
Response via : Initial Calibration
DataAcq Meth : BNA11

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	5.17	152	98018	8000.00 ppb	0.00
22) Naphthalene-d8	6.40	136	416813	8000.00 ppb	0.00
40) Acenaphthene-d10	8.25	164	260992	8000.00 ppb	0.00
64) Phenanthrene-d10	9.85	188	490641	8000.00 ppb	0.00
78) Chrysene-d12	12.69	240	575983	8000.00 ppb	0.00
88) Perylene-d12	14.14	264	648166	8000.00 ppb	0.00

System Monitoring Compounds					
4) 2-Fluorophenol	4.10	112	81459	4886.7075390 ppb	0.01
Spiked Amount 20.000	Range 10 - 74		Recovery = 24433.54%#		
7) Phenol-d5	4.80	99	101829	4778.5475150 ppb	0.00
Spiked Amount 20.000	Range 10 - 63		Recovery = 23892.74%#		
23) Nitrobenzene-d5	5.68	82	102982	4751.2031348 ppb	0.00
Spiked Amount 10.000	Range 28 - 123		Recovery = 47512.03%#		
44) 2-Fluorobiphenyl	7.52	172	227930	4774.7966727 ppb	0.00
Spiked Amount 10.000	Range 35 - 133		Recovery = 47747.97%#		
67) 2,4,6-Tribromophenol	9.09	330	29935	4870.1152167 ppb	0.00
Spiked Amount 20.000	Range 22 - 154		Recovery = 24350.58%#		
81) p-Terphenyl-d14	11.54	244	356750	4762.5156970 ppb	0.00
Spiked Amount 10.000	Range 30 - 148		Recovery = 47625.16%#		

Target Compounds					Qvalue
2) Pyridine	3.17	79	131695	4791.8248817 ppb	98
3) N-Nitrosodimethylamine	3.14	42	82995	4453.0614599 ppb	94
5) Aniline	4.87	66	53877	4997.6766515 ppb	98
6) bis(2-Chloroethyl)ether	4.91	63	70900	5012.2599074 ppb	96
8) Phenol	4.81	94	105206	4867.0897361 ppb	98
9) Benzaldehyde	0.00	105	0	N.D. d	
10) 2-Chlorophenol	4.97	128	91967	5067.7029012 ppb	98
11) n-Decane	5.00	41	67902	4894.0761798 ppb	95
12) 1,3-Dichlorobenzene	5.11	146	102234	5029.1588637 ppb	96
13) 1,4-Dichlorobenzene	5.18	146	103346	4938.3466712 ppb	98
14) Benzyl Alcohol	5.27	79	82092	4715.2582857 ppb	97
15) 1,2-Dichlorobenzene	5.32	146	97740	5091.7288408 ppb	99
16) bis(2-Chloroisopropyl)ethe	5.40	121	28937	4906.9433516 ppb	97
17) 2-Methylphenol	5.36	108	81329	5110.3504615 ppb	97
18) Hexachloroethane	5.64	117	46938	4929.3018080 ppb	94
19) N-Nitrosodi-n-propylamine	5.52	70	67877	4967.7951182 ppb	99
20) 3&4-Methyl phenol	5.50	107	94557	5015.6665171 ppb	97
21) Acetophenone	0.00	105	0	N.D. d	
24) Nitrobenzene	5.70	77	107235	5069.2050167 ppb	99
25) Isophorone	5.92	82	173648	4844.3729514 ppb	100
26) 2-Nitrophenol	6.01	139	49735	4985.4758149 ppb	99
27) 2,4-Dimethylphenol	6.02	107	101550	5119.2135941 ppb	99
28) bis(2-Chlorethoxy)methane	6.12	93	111607	5046.5013778 ppb	97
29) 2,4-Dichlorophenol	6.24	162	79632	5073.3499959 ppb	97
30) Benzoic Acid	0.00	105	0	N.D. d	
31) 1,2,4-Trichlorobenzene	6.34	180	93285	5131.1988769 ppb	96
32) Naphthalene	6.42	128	284921	4980.2097573 ppb	99
33) 4-Chloroaniline	6.46	65	41536	4884.7506733 ppb	97
34) Hexachloro-1,3-butadiene	6.54	225	60672	5051.9335112 ppb	97
35) Caprolactam	0.00	113	0	N.D. d	
36) 4-Chloro-3-methylphenol	6.95	107	93064	4931.9490135 ppb	97
37) 2-Methylnaphthalene	7.14	142	210189	5014.2330323 ppb	98
38) 1-Methylnaphthalene	7.24	142	198263	5154.3194733 ppb	99

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\100414A\1004A 08.D Vial: 6
Acq On : 4 Oct 2014 2:58 pm Operator: 280
Sample : STD SVMS 5K PPB 14G09881 Inst : BNAMS11
Misc : 8270 Primary Calibration Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 4 18:17 2014 Quant Results File: S811J04N.RES

Quant Method : C:\MSDCHEM\1\METHODS\S811J04N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Sat Oct 04 18:04:37 2014
Response via : Initial Calibration
DataAcq Meth : BNA11

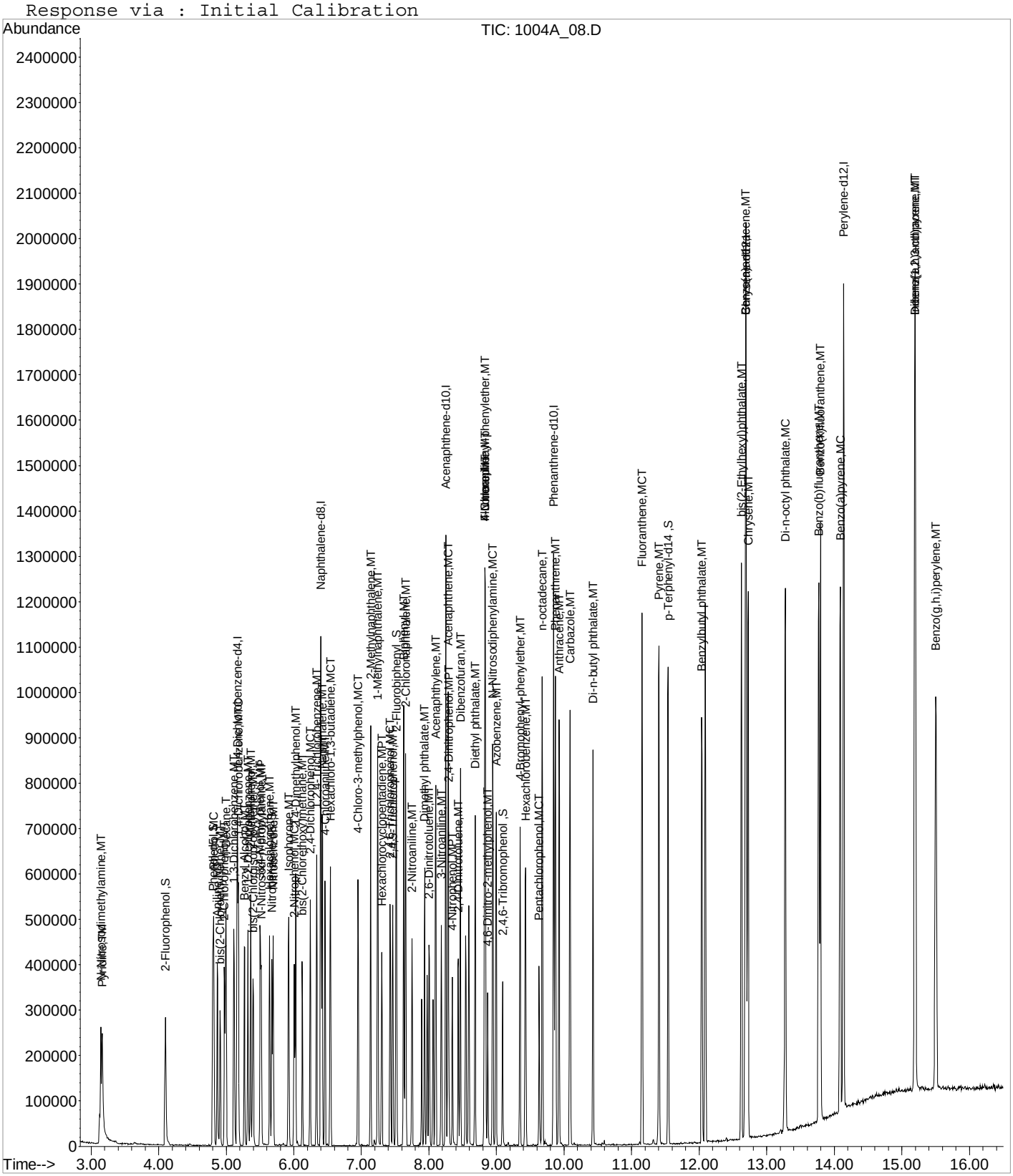
	Compound	R.T.	QIon	Response	Conc Unit		Qvalue
39)	1,2,4,5-Tetrachlorobenzene	0.00	216	0	N.D.		
41)	Hexachlorocyclopentadiene	7.30	237	56954	4472.7600845 ppb		94
42)	2,4,6-Trichlorophenol	7.42	196	62001	4944.9441289 ppb		95
43)	2,4,5-Trichlorophenol	7.47	196	63403	4692.9558134 ppb		95
45)	Biphenyl	7.62	154	258693	4861.3226004 ppb		98
46)	2-Chloronaphthalene	7.65	162	199303	5030.2818429 ppb		99
47)	2-Nitroaniline	7.75	138	61633	4728.4136535 ppb		96
48)	Acenaphthylene	8.10	152	319287	4906.8829287 ppb		100
49)	Dimethyl phthalate	7.94	163	216519	4742.8861315 ppb		97
50)	2,6-Dinitrotoluene	8.01	165	50246	4720.5824434 ppb		94
51)	3-Nitroaniline	8.18	138	55787	4769.9835773 ppb		95
52)	Acenaphthene	8.28	153	215383	4937.8547537 ppb		98
53)	2,4-Dinitrophenol	8.29	184	23188	3889.2095333 ppb	#	92
54)	Dibenzofuran	8.47	168	285546	4828.4159543 ppb		100
55)	2,4-Dinitrotoluene	8.44	165	64234	4553.2670184 ppb		90
56)	2,3,4,6-Tetrachlorophenol	0.00	232	0	N.D. d		
57)	4-Nitrophenol	8.35	139	41625	4411.6870872 ppb		92
58)	Fluorene	8.84	166	239266	4865.0346234 ppb		98
59)	4-Chlorophenyl-phenylether	8.82	204	116910	4861.7545924 ppb		97
60)	Diethyl phthalate	8.68	149	237198	4579.5176168 ppb		98
61)	4-Nitroaniline	8.84	138	54410	4780.5797877 ppb		99
62)	Azobenzene	8.99	77	260130	4751.3589188 ppb		98
63)	Atrazine	0.00	200	0	N.D. d		
65)	4,6-Dinitro-2-methylphenol	8.87	198	36752	4436.7012130 ppb		91
66)	N-Nitrosodiphenylamine	8.94	169	195992	4998.6657382 ppb		99
68)	4-Bromophenyl-phenylether	9.35	248	64827	5018.3048498 ppb		89
69)	Hexachlorobenzene	9.43	284	71337	5119.8231696 ppb		97
70)	n-octadecane	9.68	55	50357	4625.2352862 ppb		99
71)	Pentachlorophenol	9.63	266	34957	4357.2576083 ppb		98
72)	Phenanthrene	9.87	178	353440	4920.1163258 ppb		100
73)	Anthracene	9.92	178	355841	4876.2639511 ppb		98
74)	Carbazole	10.09	167	356177	5065.1536217 ppb		99
75)	Di-n-butyl phthalate	10.43	149	460448	4840.9561891 ppb		99
76)	2-nitrodiphenylamine	0.00	167	0	N.D. d		
77)	Fluoranthene	11.15	202	446736	4927.5600918 ppb		99
79)	Benzidine	0.00	184	0	N.D.		
80)	Pyrene	11.41	202	467444	4604.8440344 ppb		99
82)	Benzylbutyl phthalate	12.04	149	217071m	4386.7758682 ppb		
83)	3,3-Dichlorobenzidine	0.00	252	0	N.D. d		
84)	Benzo(a)anthracene	12.68	228	475847	4826.7788759 ppb		98
85)	Chrysene	12.72	228	440517	4927.3068098 ppb		97
86)	bis(2-Ethylhexyl)phthalate	12.62	149	333709	4517.3197357 ppb		99
87)	Di-n-octyl phthalate	13.28	149	580271	4477.2047321 ppb		99
89)	Benzo(b)fluoranthene	13.77	252	511799m	5085.1924252 ppb		
90)	Benzo(k)fluoranthene	13.79	252	458295m	4671.0528415 ppb		
91)	Benzo(a)pyrene	14.09	252	473249	4787.0780859 ppb		99
92)	Indeno(1,2,3-cd)pyrene	15.19	276	567311	4747.7564317 ppb		98
93)	Dibenz(a,h)anthracene	15.19	278	481010	4738.8188831 ppb		98
94)	Benzo(g,h,i)perylene	15.50	276	473825	4886.6354855 ppb		98

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\100414A\1004A 08.D Vial: 6
Acq On : 4 Oct 2014 2:58 pm Operator: 280
Sample : STD SVMS 5K PPB 14G09881 Inst : BNAMS11
Misc : 8270 Primary Calibration Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 4 18:17 2014 Quant Results File: S811J04N.RES

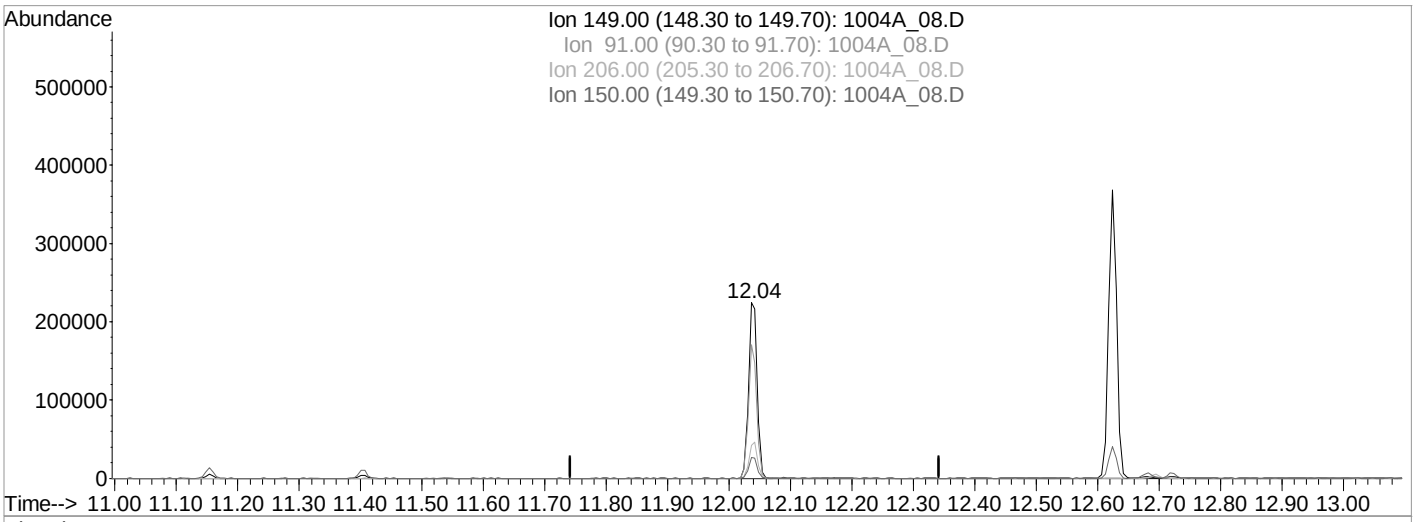
Method : C:\MSDCHEM\1\METHODS\S811J04N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Sat Oct 04 18:15:45 2014
Response via : Initial Calibration

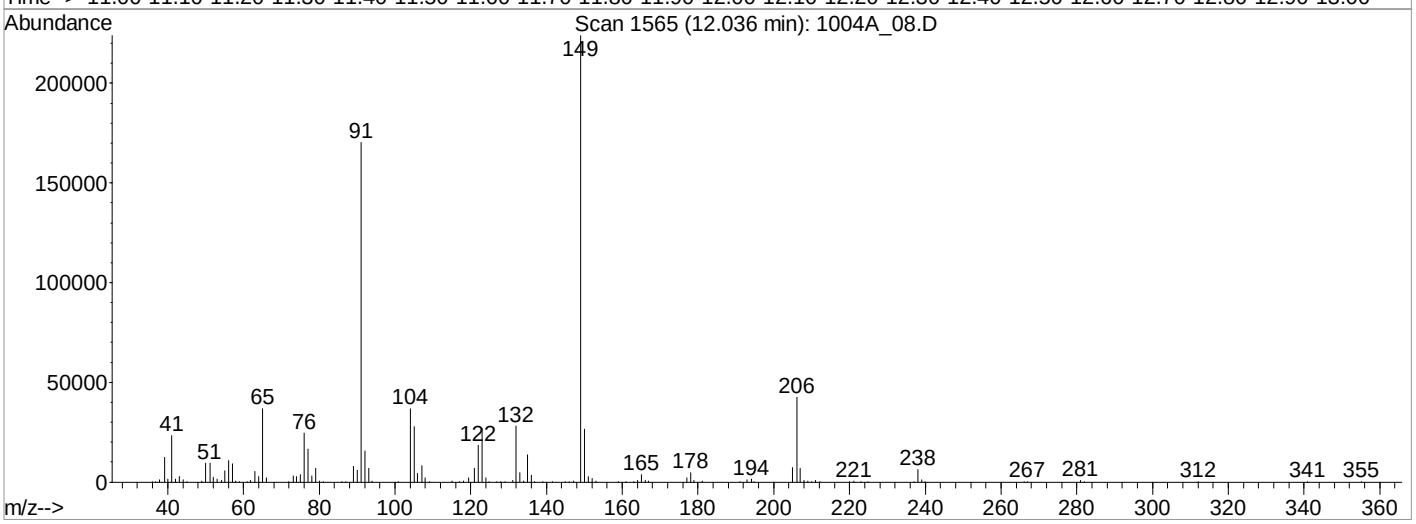


Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\100414A\1004A 08.D Vial: 6
Acq On : 4 Oct 2014 2:58 pm Operator: 280
Sample : STD SVMS 5K PPB 14G09881 Inst : BNAMS11
Misc : 8270 Primary Calibration Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 4 18:17 2014 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\S811J04N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Sat Oct 04 18:15:45 2014
Response via : Multiple Level Calibration





TIC: 1004A_08.D

(82) Benzylbutyl phthalate (MT)

12.04min (-0.006) 4386.7758682 ppb m

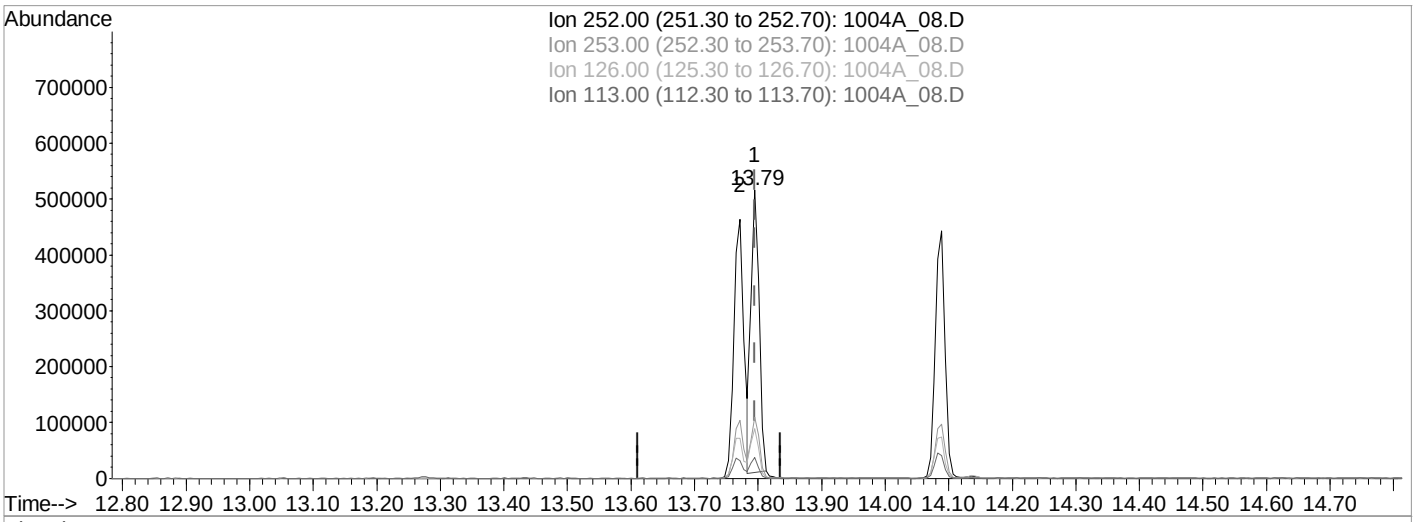
response 217071

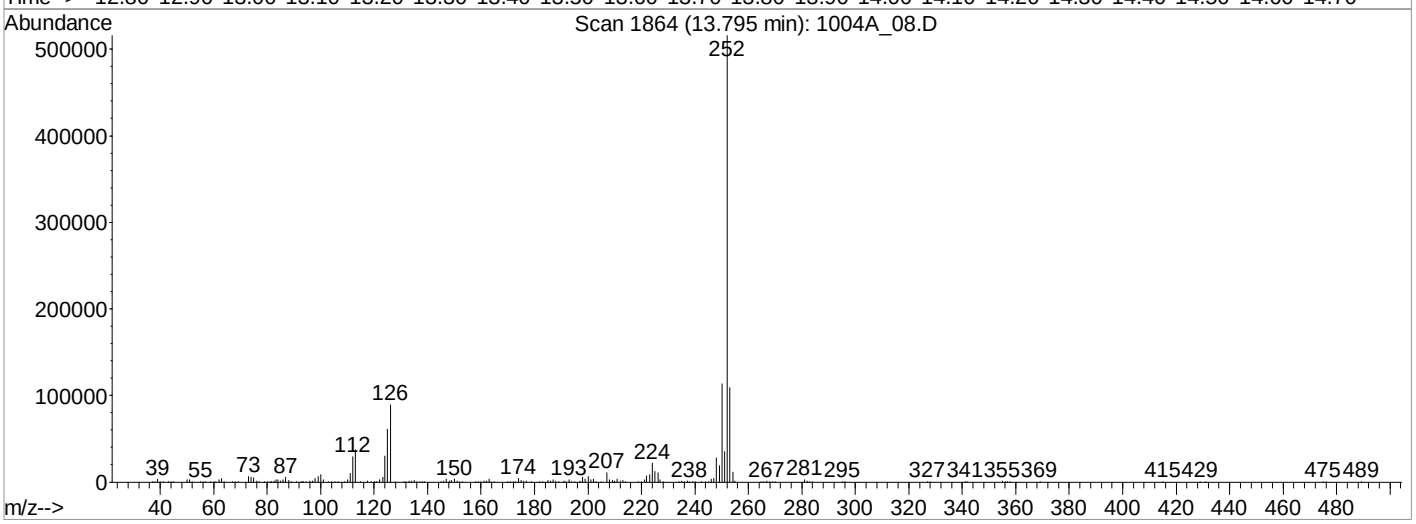
Ion	Exp%	Act%
149.00	100	100
91.00	76.40	76.06
206.00	18.20	18.94
150.00	11.80	11.78

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\100414A\1004A 08.D Vial: 6
Acq On : 4 Oct 2014 2:58 pm Operator: 280
Sample : STD SVMS 5K PPB 14G09881 Inst : BNAMS11
Misc : 8270 Primary Calibration Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 4 18:17 2014 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\S811J04N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Sat Oct 04 18:15:45 2014
Response via : Multiple Level Calibration





TIC: 1004A_08.D

(89) Benzo(b)fluoranthene (MT)

13.79min (-0.000) 4327.3204140 ppb

Qvalue = 99

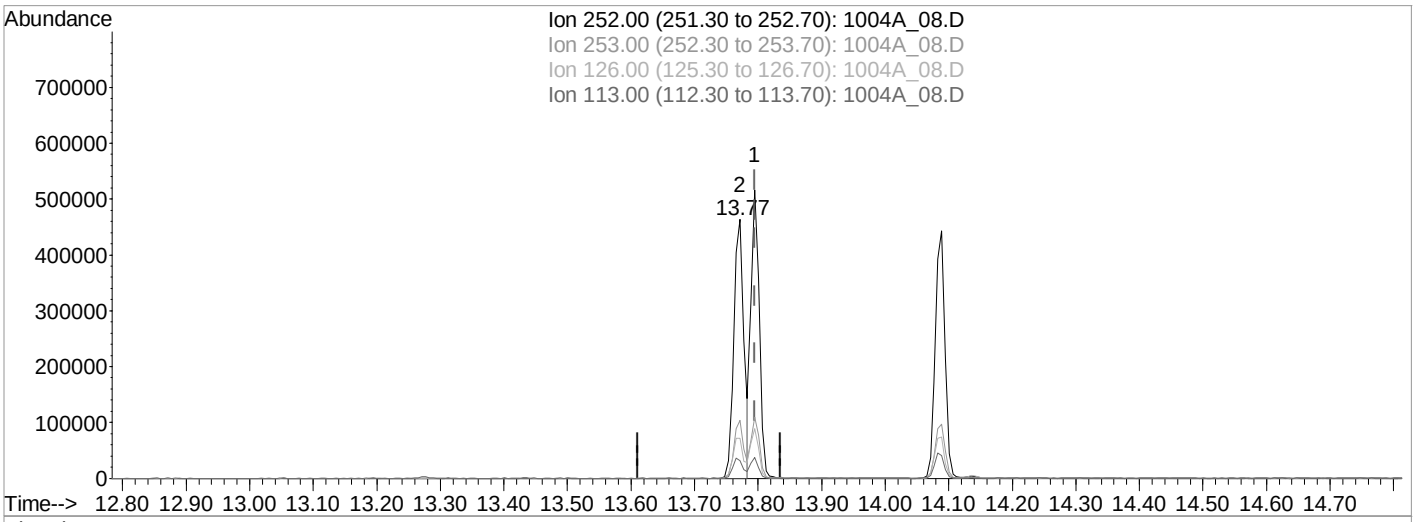
response 435523

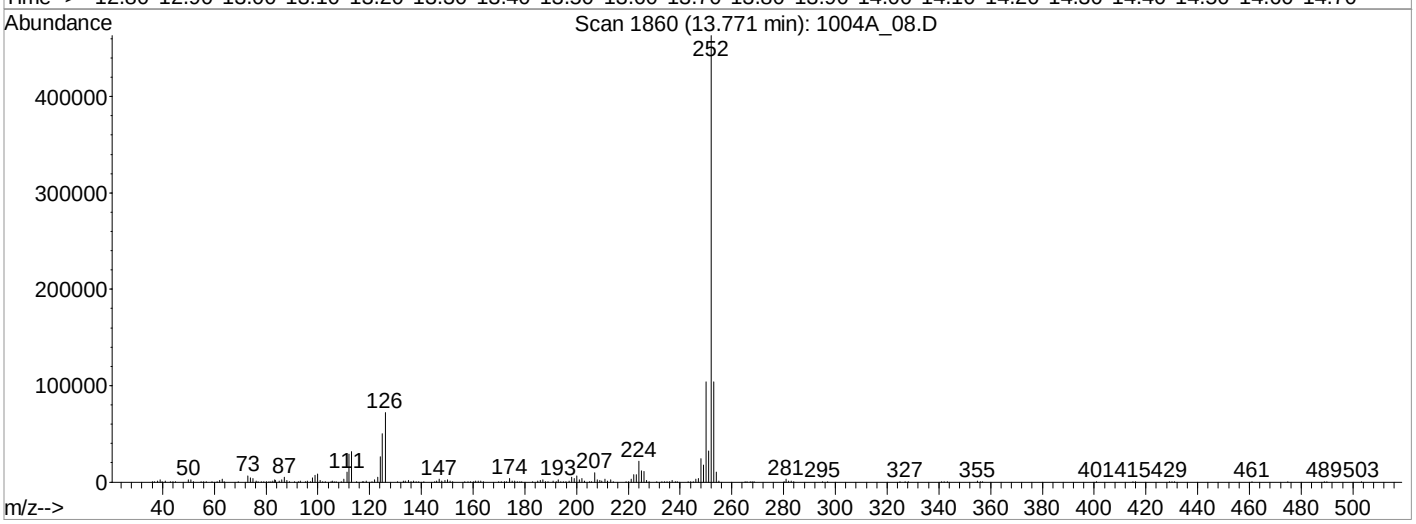
Ion	Exp%	Act%
252.00	100	100
253.00	21.20	21.02
126.00	16.00	16.87
113.00	7.90	7.04

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\100414A\1004A 08.D Vial: 6
Acq On : 4 Oct 2014 2:58 pm Operator: 280
Sample : STD SVMS 5K PPB 14G09881 Inst : BNAMS11
Misc : 8270 Primary Calibration Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 4 18:17 2014 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\S811J04N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Sat Oct 04 18:15:45 2014
Response via : Multiple Level Calibration





TIC: 1004A_08.D

(89) Benzo(b)fluoranthene (MT)

13.77min (-0.024) 5085.1924252 ppb m

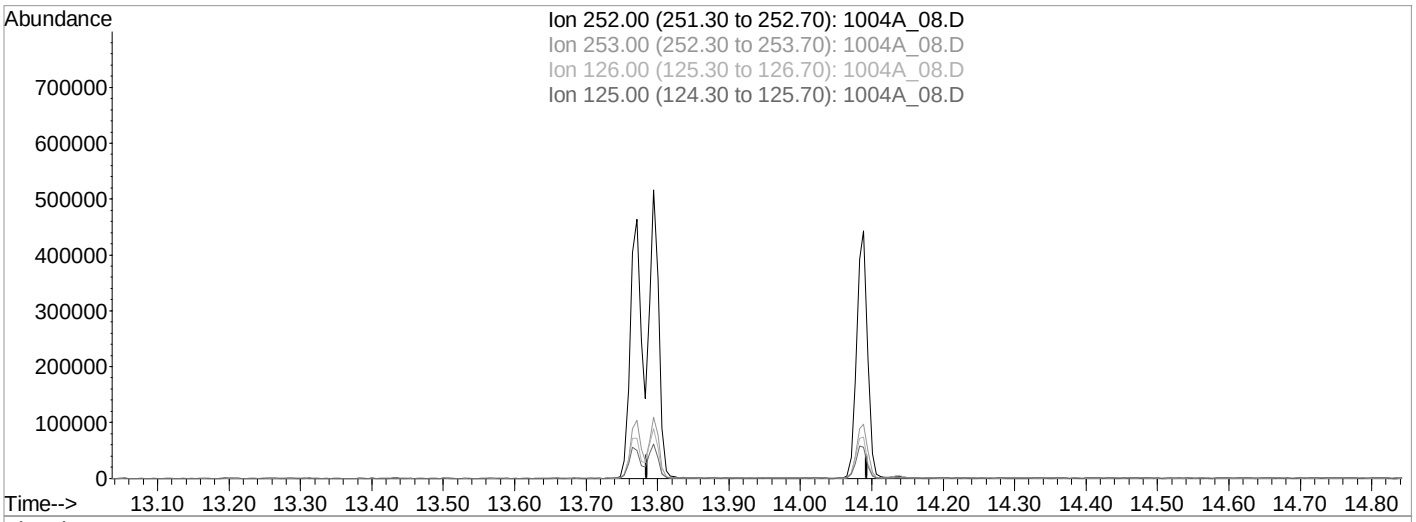
response 511799

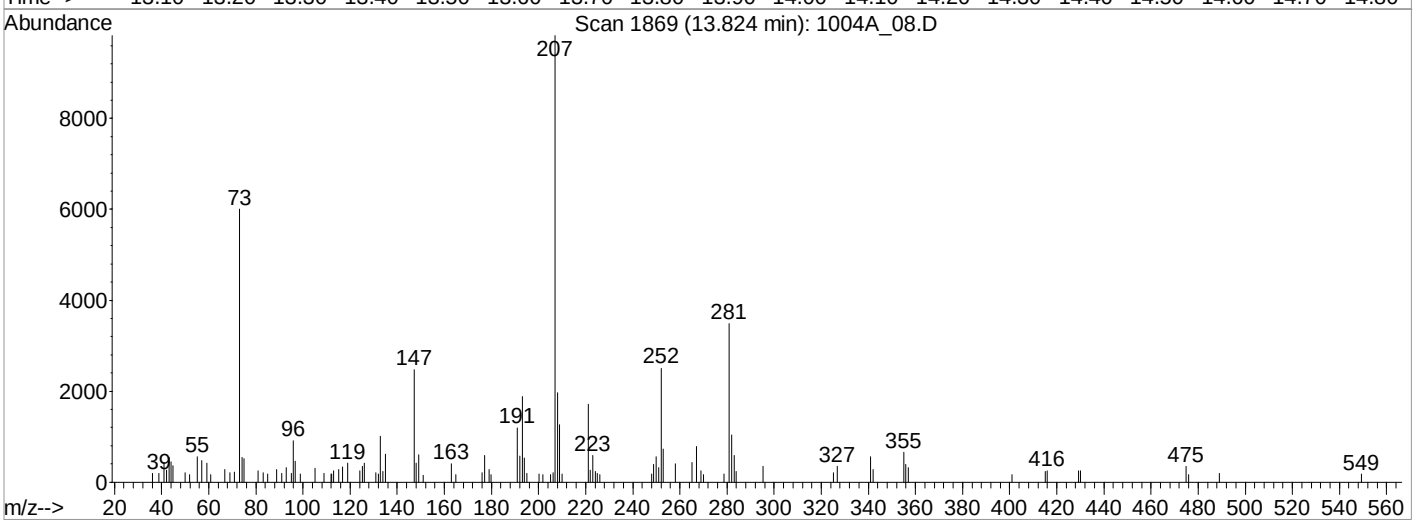
Ion	Exp%	Act%
252.00	100	100
253.00	21.20	22.48
126.00	16.00	15.54
113.00	7.90	6.86

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\100414A\1004A 08.D Vial: 6
Acq On : 4 Oct 2014 2:58 pm Operator: 280
Sample : STD SVMS 5K PPB 14G09881 Inst : BNAMS11
Misc : 8270 Primary Calibration Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 4 18:17 2014 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\S811J04N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Sat Oct 04 18:15:45 2014
Response via : Multiple Level Calibration





TIC: 1004A_08.D

(90) Benzo(k)fluoranthene (MT)

13.82min (-13.824) 0.0000000 ppb

Qvalue = 0

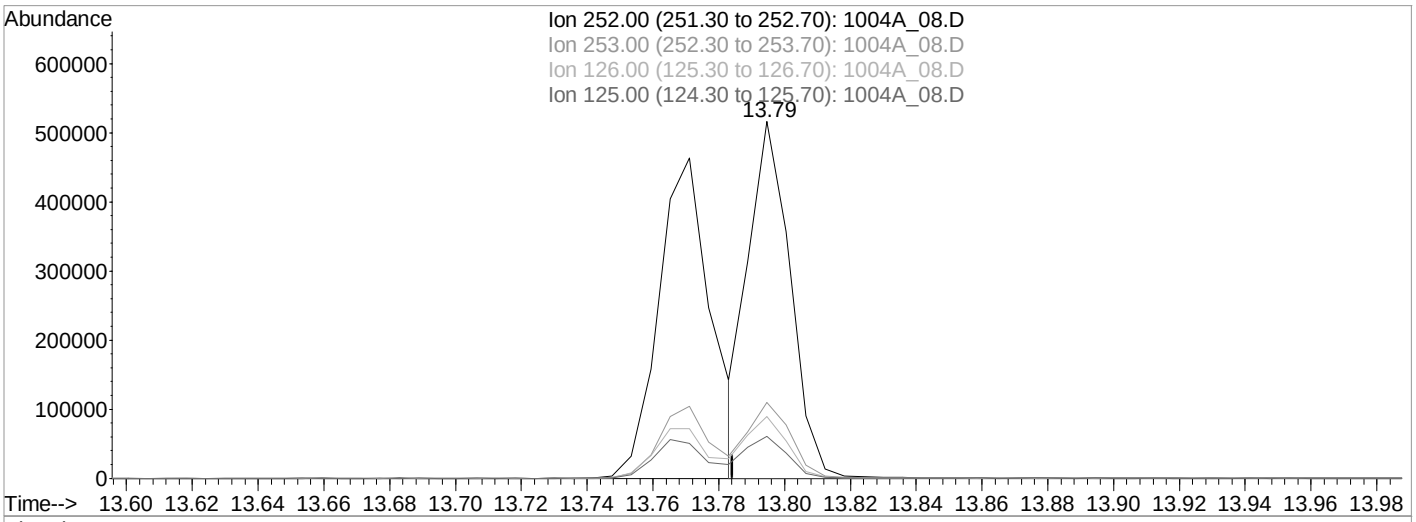
response 0

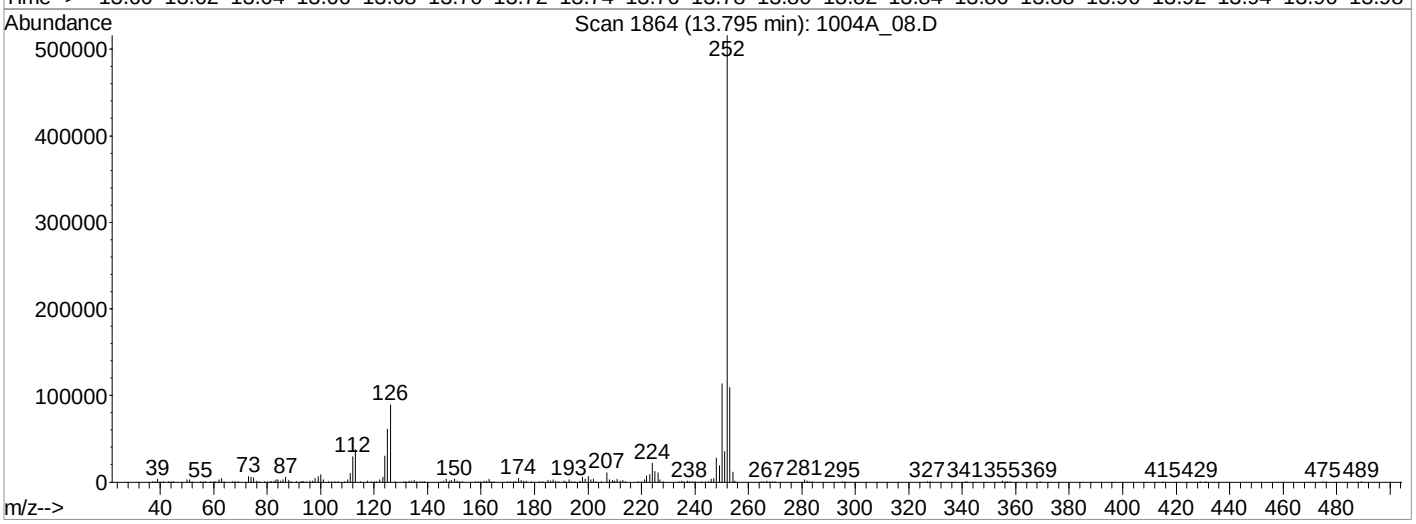
Ion	Exp%	Act%
252.00	100	0.00
253.00	21.60	0.00#
126.00	15.70	0.00
125.00	11.00	0.00

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\100414A\1004A 08.D Vial: 6
Acq On : 4 Oct 2014 2:58 pm Operator: 280
Sample : STD SVMS 5K PPB 14G09881 Inst : BNAMS11
Misc : 8270 Primary Calibration Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 4 18:17 2014 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\S811J04N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Sat Oct 04 18:15:45 2014
Response via : Multiple Level Calibration





TIC: 1004A_08.D

(90) Benzo(k)fluoranthene (MT)

13.79min (-0.030) 4671.0528415 ppb m

response 458295

Ion	Exp%	Act%
252.00	100	100
253.00	21.60	21.21
126.00	15.70	17.26
125.00	11.00	11.84

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\100414A\1004A 09.D Vial: 7
Acq On : 4 Oct 2014 3:19 pm Operator: 280
Sample : STD SVMS 20K PPB 14G09881 Inst : BNAMS11
Misc : 8270 Primary Calibration Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 4 18:20 2014 Quant Results File: S811J04N.RES

Quant Method : C:\MSDCHEM\1\METHODS\S811J04N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Sat Oct 04 18:04:37 2014
Response via : Initial Calibration
DataAcq Meth : BNA11

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	5.17	152	105558	8000.00 ppb	0.00
22) Naphthalene-d8	6.40	136	446792	8000.00 ppb	0.00
40) Acenaphthene-d10	8.25	164	276349	8000.00 ppb	0.00
64) Phenanthrene-d10	9.85	188	533103	8000.00 ppb	0.00
78) Chrysene-d12	12.70	240	624374	8000.00 ppb	0.01
88) Perylene-d12	14.14	264	716056	8000.00 ppb	0.00

System Monitoring Compounds					
4) 2-Fluorophenol	4.10	112	347013	19330.2602999 ppb	0.01
Spiked Amount 20.000	Range 10 - 74		Recovery = 96651.30%#		
7) Phenol-d5	4.81	99	444301	19360.4926513 ppb	0.01
Spiked Amount 20.000	Range 10 - 63		Recovery = 96802.46%#		
23) Nitrobenzene-d5	5.68	82	452229	19464.1997618 ppb	0.01
Spiked Amount 10.000	Range 28 - 123		Recovery = 194642.00%#		
44) 2-Fluorobiphenyl	7.52	172	999048	19765.5564272 ppb	0.00
Spiked Amount 10.000	Range 35 - 133		Recovery = 197655.56%#		
67) 2,4,6-Tribromophenol	9.10	330	147159	22034.3128642 ppb	0.00
Spiked Amount 20.000	Range 22 - 154		Recovery = 110171.56%#		
81) p-Terphenyl-d14	11.54	244	1646582	20277.7916908 ppb	0.00
Spiked Amount 10.000	Range 30 - 148		Recovery = 202777.92%#		

Target Compounds					Qvalue
2) Pyridine	3.17	79	527450m	17820.8178815 ppb	
3) N-Nitrosodimethylamine	3.15	42	323869	16135.8119509 ppb	91
5) Aniline	4.87	66	226175m	19481.5735047 ppb	
6) bis(2-Chloroethyl)ether	4.91	63	283542	18613.1308236 ppb	96
8) Phenol	4.82	94	442399	19004.5532585 ppb	98
9) Benzaldehyde	0.00	105	0	N.D. d	
10) 2-Chlorophenol	4.98	128	387739	19839.6175399 ppb	98
11) n-Decane	5.00	41	264142	17678.2920558 ppb	96
12) 1,3-Dichlorobenzene	5.12	146	428874	19590.4496089 ppb	97
13) 1,4-Dichlorobenzene	5.18	146	444332	19715.6081206 ppb	98
14) Benzyl Alcohol	5.28	79	354533	18909.3238435 ppb	100
15) 1,2-Dichlorobenzene	5.32	146	414479	20049.8047523 ppb	97
16) bis(2-Chloroisopropyl)ethe	5.40	121	121404	19116.3608415 ppb	98
17) 2-Methylphenol	5.37	108	338646	19759.0420755 ppb	94
18) Hexachloroethane	5.64	117	200112	19514.1053468 ppb	96
19) N-Nitrosodi-n-propylamine	5.52	70	282382	19190.7845859 ppb	95
20) 3&4-Methyl phenol	5.51	107	395681	19489.2375264 ppb	95
21) Acetophenone	0.00	105	0	N.D. d	
24) Nitrobenzene	5.70	77	446143	19674.9324786 ppb	95
25) Isophorone	5.93	82	750176	19523.9109544 ppb	98
26) 2-Nitrophenol	6.01	139	217590	20347.8857809 ppb	92
27) 2,4-Dimethylphenol	6.03	107	427344	20097.2576788 ppb	99
28) bis(2-Chlorethoxy)methane	6.13	93	462116	19493.3210096 ppb	94
29) 2,4-Dichlorophenol	6.25	162	339406	20172.6328200 ppb	91
30) Benzoic Acid	0.00	105	0	N.D. d	
31) 1,2,4-Trichlorobenzene	6.34	180	408218	20947.6374962 ppb	96
32) Naphthalene	6.42	128	1225911	19990.2388981 ppb	99
33) 4-Chloroaniline	6.47	65	174707	19167.4308146 ppb	93
34) Hexachloro-1,3-butadiene	6.54	225	273365	21234.7959263 ppb	97
35) Caprolactam	0.00	113	0	N.D. d	
36) 4-Chloro-3-methylphenol	6.95	107	407948	20168.6829464 ppb	98
37) 2-Methylnaphthalene	7.14	142	922730	20535.4884717 ppb	100
38) 1-Methylnaphthalene	7.25	142	836567	20289.2622839 ppb	100

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\100414A\1004A 09.D Vial: 7
Acq On : 4 Oct 2014 3:19 pm Operator: 280
Sample : STD SVMS 20K PPB 14G09881 Inst : BNAMS11
Misc : 8270 Primary Calibration Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 4 18:20 2014 Quant Results File: S811J04N.RES

Quant Method : C:\MSDCHEM\1\METHODS\S811J04N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Sat Oct 04 18:04:37 2014
Response via : Initial Calibration
DataAcq Meth : BNA11

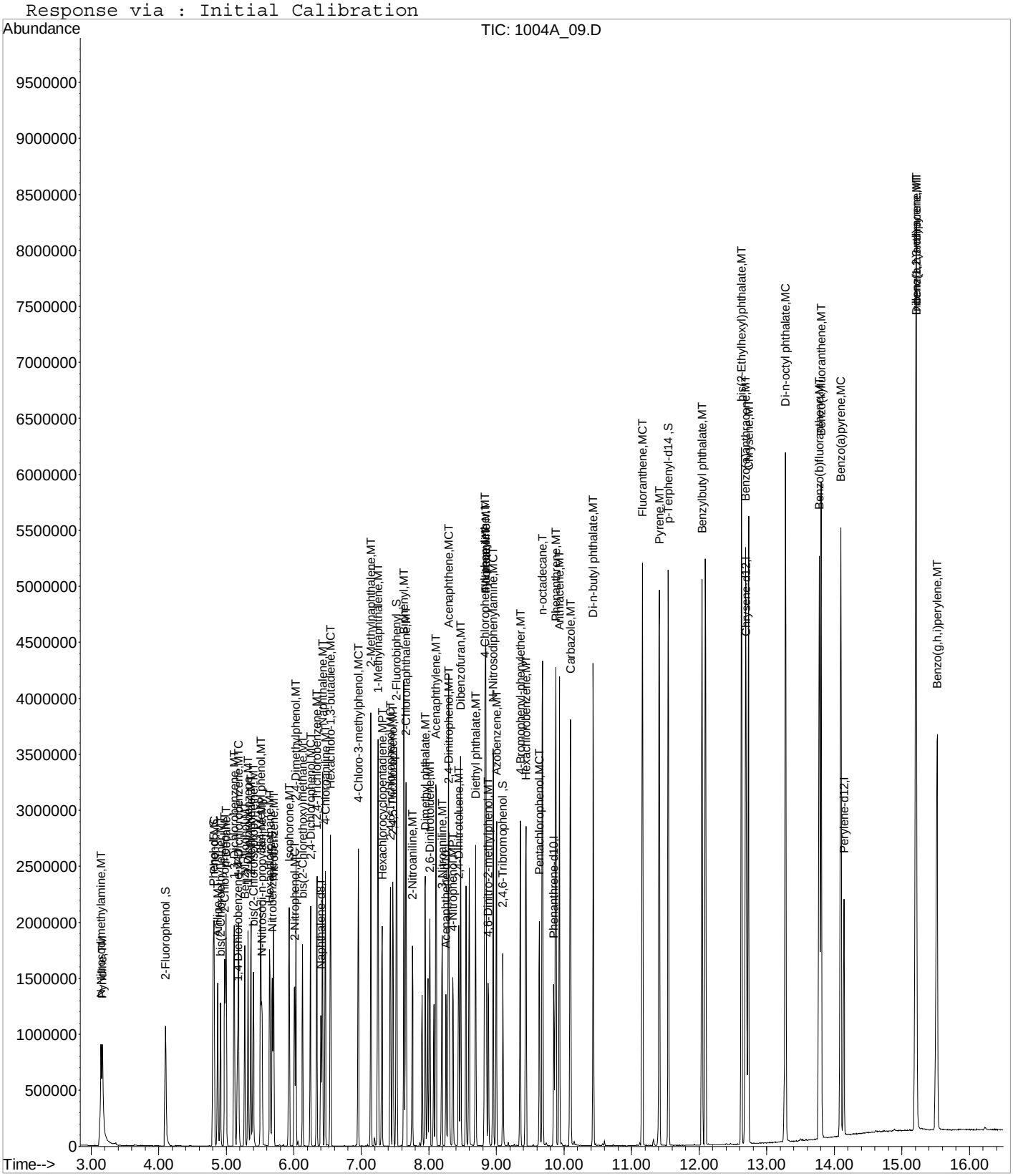
	Compound	R.T.	QIon	Response	Conc Unit		Qvalue
39)	1,2,4,5-Tetrachlorobenzene	0.00	216	0	N.D. d		
41)	Hexachlorocyclopentadiene	7.31	237	292125	21666.5316756 ppb		97
42)	2,4,6-Trichlorophenol	7.43	196	270955	20409.3494827 ppb		96
43)	2,4,5-Trichlorophenol	7.47	196	288305	20153.8550111 ppb		94
45)	Biphenyl	7.63	154	1117056	19825.0370898 ppb		100
46)	2-Chloronaphthalene	7.66	162	849698	20254.0732852 ppb		99
47)	2-Nitroaniline	7.75	138	282894	20497.2307174 ppb		94
48)	Acenaphthylene	8.11	152	1404542	20385.8342429 ppb		99
49)	Dimethyl phthalate	7.95	163	990376	20488.7796129 ppb		96
50)	2,6-Dinitrotoluene	8.01	165	224671	19934.7323569 ppb		99
51)	3-Nitroaniline	8.20	138	254793	20575.0389836 ppb		99
52)	Acenaphthene	8.29	153	917523	19866.1242346 ppb		99
53)	2,4-Dinitrophenol	8.30	184	141561	22423.8908016 ppb	#	79
54)	Dibenzofuran	8.47	168	1236760	19750.7378228 ppb		99
55)	2,4-Dinitrotoluene	8.44	165	310907	20814.1150293 ppb		96
56)	2,3,4,6-Tetrachlorophenol	0.00	232	0	N.D. d		
57)	4-Nitrophenol	8.35	139	202808	20300.4111993 ppb		89
58)	Fluorene	8.84	166	1059700	20349.6609888 ppb		99
59)	4-Chlorophenyl-phenylether	8.82	204	529924	20812.5004185 ppb		98
60)	Diethyl phthalate	8.69	149	1118479	20394.1610081 ppb		99
61)	4-Nitroaniline	8.85	138	249643	20715.2670339 ppb		99
62)	Azobenzene	9.00	77	1116079	19252.6994879 ppb		97
63)	Atrazine	0.00	200	0	N.D. d		
65)	4,6-Dinitro-2-methylphenol	8.88	198	184634	20513.6807995 ppb	#	81
66)	N-Nitrosodiphenylamine	8.95	169	900121	21128.5335800 ppb		99
68)	4-Bromophenyl-phenylether	9.35	248	305842	21789.6849642 ppb		98
69)	Hexachlorobenzene	9.44	284	332586	21968.3173697 ppb		96
70)	n-octadecane	9.68	55	216494	18300.9045517 ppb		98
71)	Pentachlorophenol	9.64	266	194178	22275.7233881 ppb		99
72)	Phenanthrene	9.88	178	1590749	20380.4627919 ppb		99
73)	Anthracene	9.93	178	1610223	20308.1309830 ppb		99
74)	Carbazole	10.10	167	1522290	19924.0147638 ppb		99
75)	Di-n-butyl phthalate	10.43	149	2171238	21009.2574458 ppb		100
76)	2-nitrodiphenylamine	0.00	167	0	N.D. d		
77)	Fluoranthene	11.16	202	2067027	20983.5922151 ppb		99
79)	Benzidine	0.00	184	0	N.D.		
80)	Pyrene	11.41	202	2209942	20083.1146195 ppb		100
82)	Benzylbutyl phthalate	12.04	149	1081729	20166.3345255 ppb		97
83)	3,3-Dichlorobenzidine	0.00	252	0	N.D. d		
84)	Benzo(a)anthracene	12.69	228	2200313	20589.1960027 ppb		97
85)	Chrysene	12.73	228	1967109	20297.3907920 ppb		98
86)	bis(2-Ethylhexyl)phthalate	12.62	149	1617335	20196.5761775 ppb		98
87)	Di-n-octyl phthalate	13.28	149	2872587	20446.2719924 ppb		99
89)	Benzo(b)fluoranthene	13.78	252	2273050m	20443.5449406 ppb		
90)	Benzo(k)fluoranthene	13.81	252	2208288m	20373.4525226 ppb		
91)	Benzo(a)pyrene	14.09	252	2265361	20742.3273622 ppb		99
92)	Indeno(1,2,3-cd)pyrene	15.21	276	2764562	20942.7070792 ppb		99
93)	Dibenz(a,h)anthracene	15.21	278	2382452	21246.1098467 ppb		93
94)	Benzo(g,h,i)perylene	15.52	276	2187270	20418.9604236 ppb		95

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\100414A\1004A 09.D Vial: 7
Acq On : 4 Oct 2014 3:19 pm Operator: 280
Sample : STD SVMS 20K PPB 14G09881 Inst : BNAMS11
Misc : 8270 Primary Calibration Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 4 18:20 2014 Quant Results File: S811J04N.RES

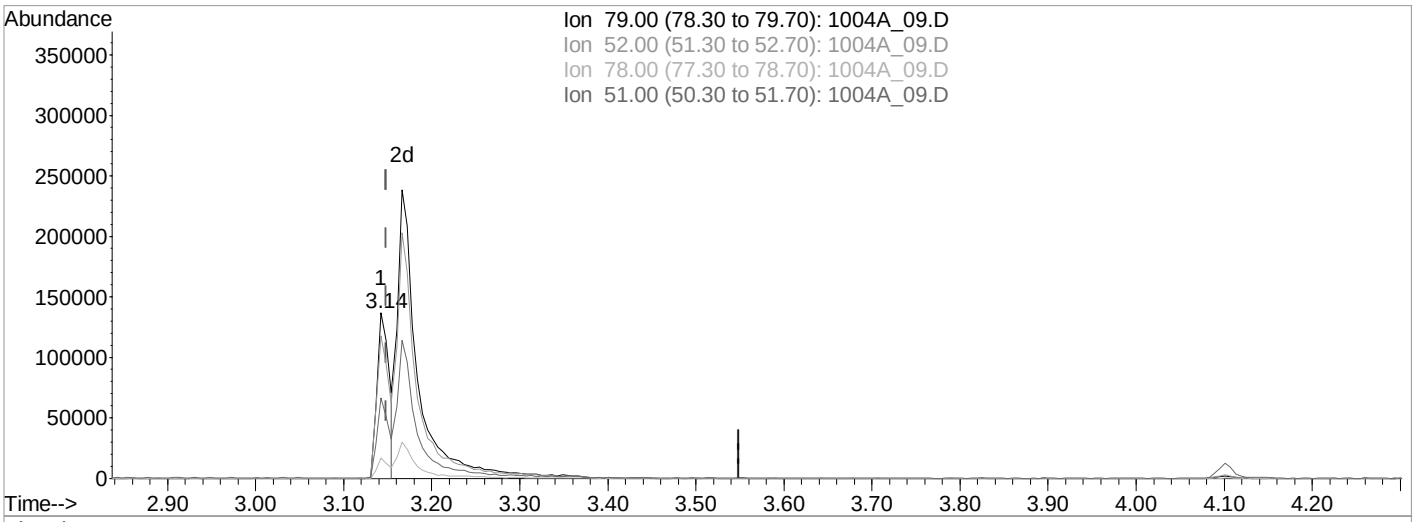
Method : C:\MSDCHEM\1\METHODS\S811J04N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Sat Oct 04 18:17:50 2014
Response via : Initial Calibration

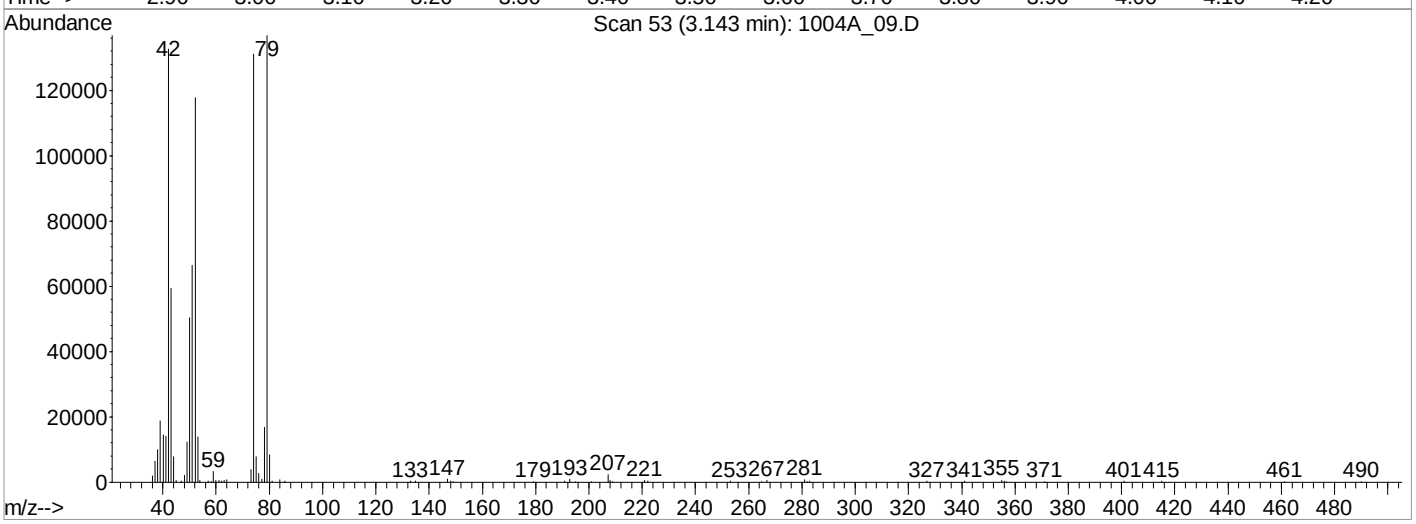


Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\100414A\1004A 09.D Vial: 7
Acq On : 4 Oct 2014 3:19 pm Operator: 280
Sample : STD SVMS 20K PPB 14G09881 Inst : BNAMS11
Misc : 8270 Primary Calibration Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 4 18:18 2014 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\S811J04N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Sat Oct 04 18:17:50 2014
Response via : Multiple Level Calibration





TIC: 1004A_09.D

(2) Pyridine (TM)

3.14min (-0.006) 4534.4174906 ppb

Qvalue = 97

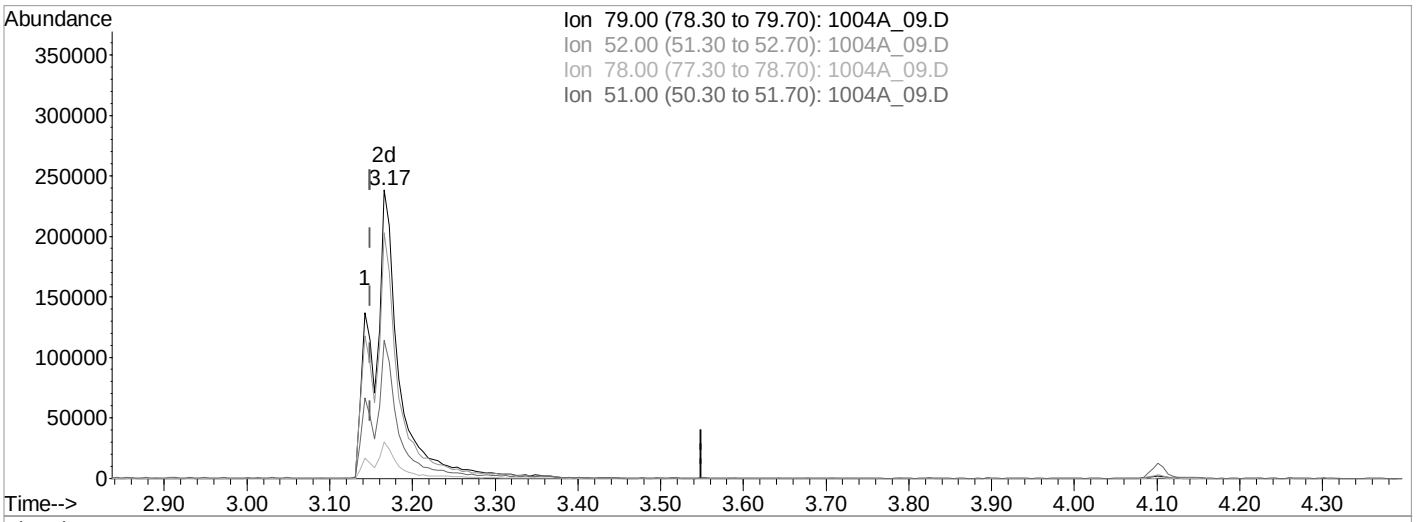
response 134207

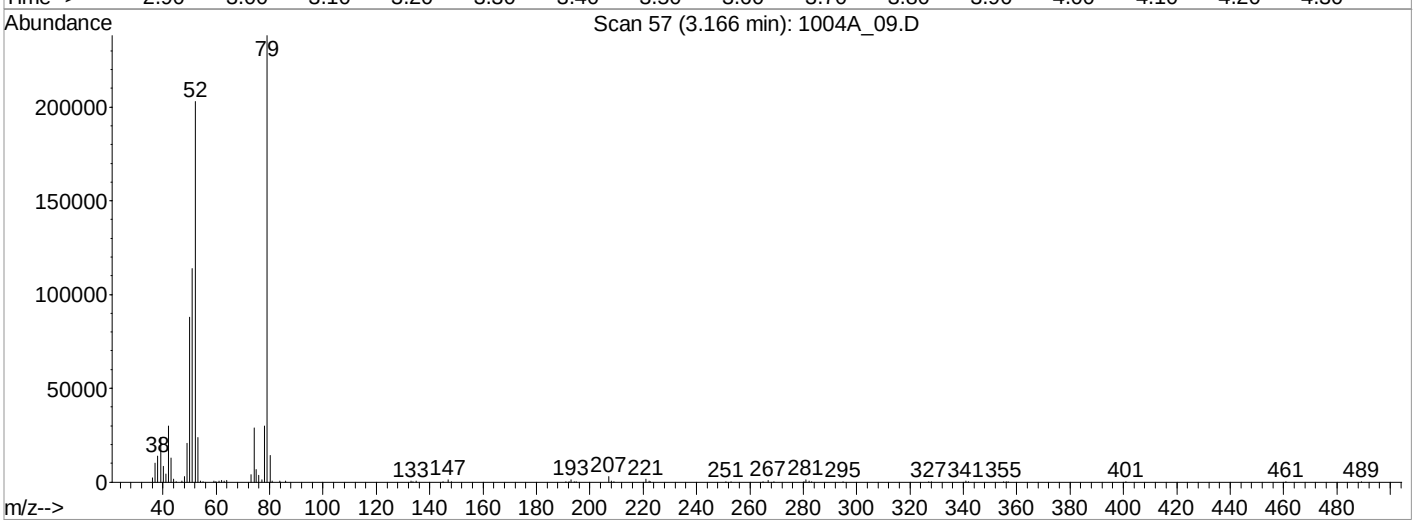
Ion	Exp%	Act%
79.00	100	100
52.00	89.70	86.00
78.00	12.30	12.13
51.00	50.50	48.11

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\100414A\1004A 09.D Vial: 7
Acq On : 4 Oct 2014 3:19 pm Operator: 280
Sample : STD SVMS 20K PPB 14G09881 Inst : BNAMS11
Misc : 8270 Primary Calibration Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 4 18:19 2014 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\S811J04N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Sat Oct 04 18:17:50 2014
Response via : Multiple Level Calibration





TIC: 1004A_09.D

(2) Pyridine (TM)

3.17min (+0.018) 17820.8178815 ppb m

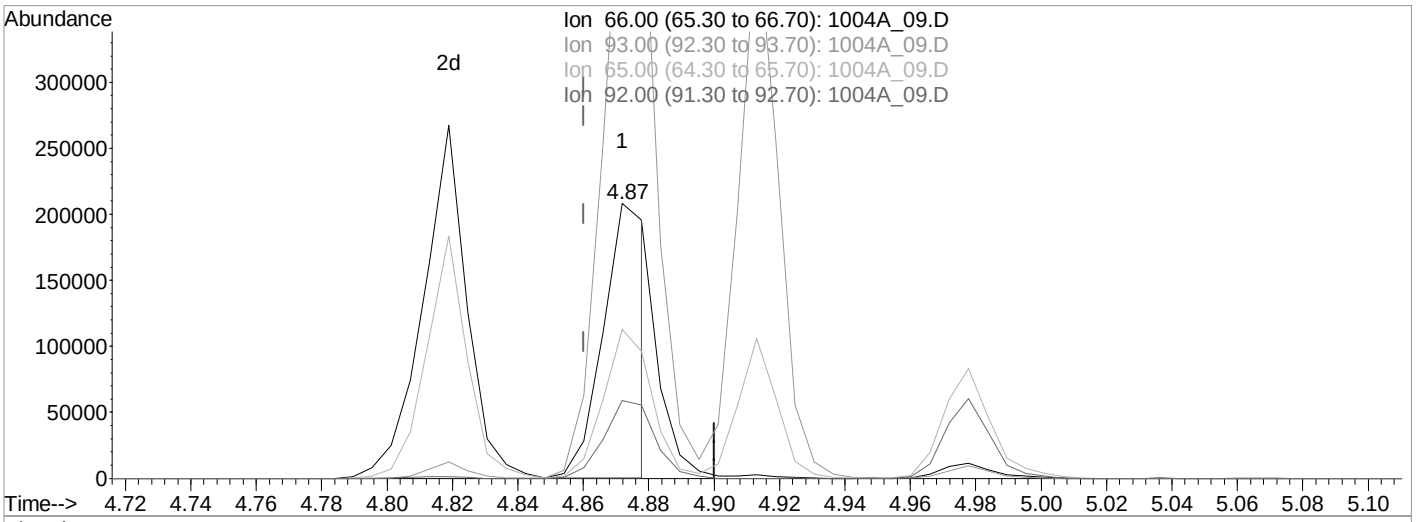
response 527450

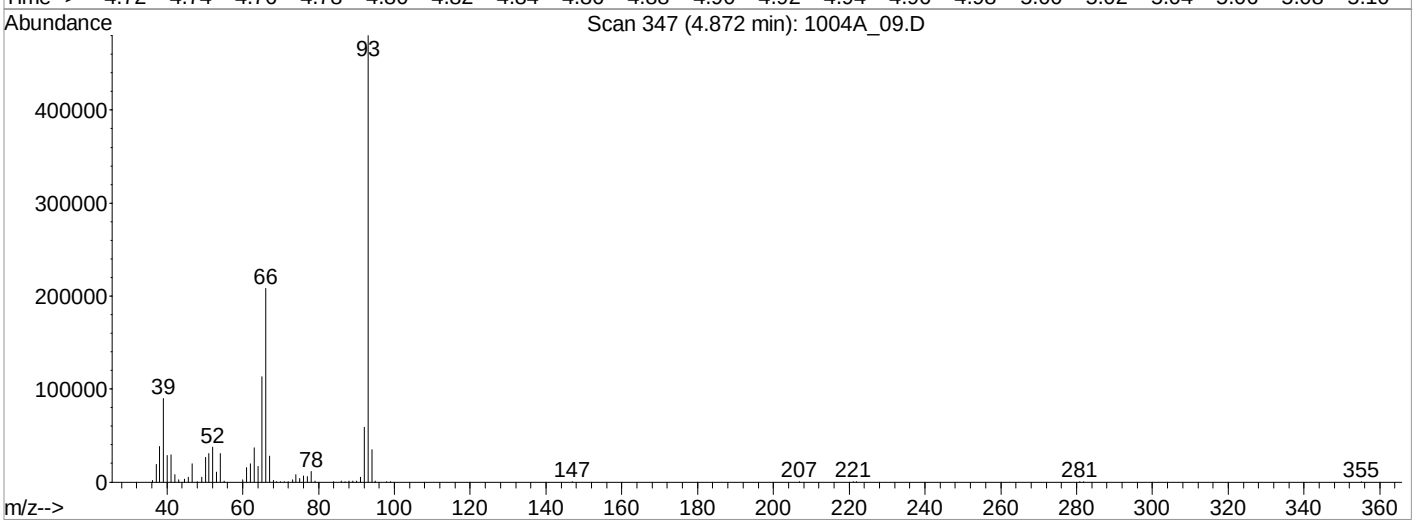
Ion	Exp%	Act%
79.00	100	100
52.00	89.70	85.17
78.00	12.30	12.53
51.00	50.50	47.82

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\100414A\1004A 09.D Vial: 7
Acq On : 4 Oct 2014 3:19 pm Operator: 280
Sample : STD SVMS 20K PPB 14G09881 Inst : BNAMS11
Misc : 8270 Primary Calibration Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 4 18:19 2014 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\S811J04N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Sat Oct 04 18:17:50 2014
Response via : Multiple Level Calibration





TIC: 1004A_09.D

(5) Aniline (MT)

4.87min (+0.012) 16539.6341080 ppb

Qvalue = 1

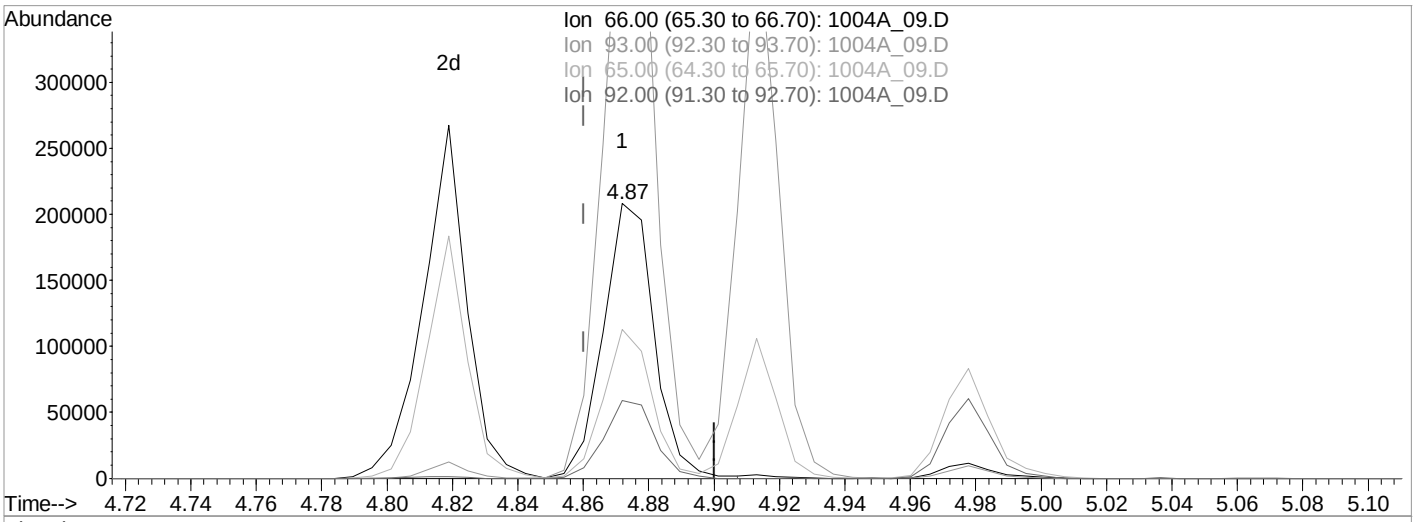
response 192020

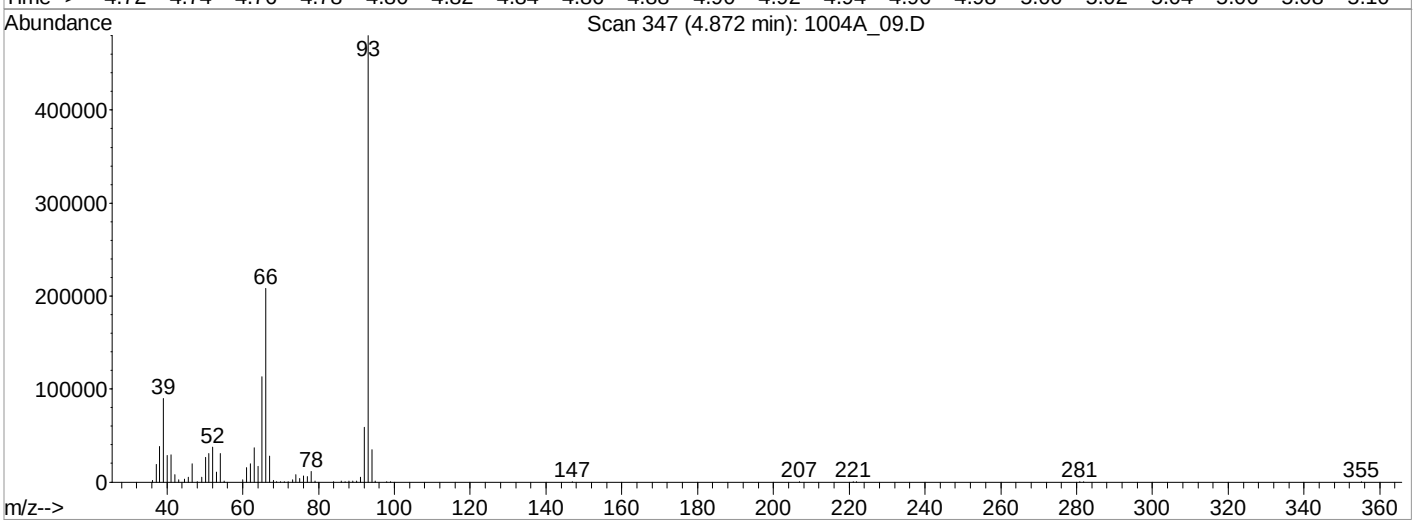
Ion	Exp%	Act%
66.00	100	100
93.00	226.20	0.00#
65.00	51.10	52.19
92.00	28.60	28.14

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\100414A\1004A 09.D Vial: 7
Acq On : 4 Oct 2014 3:19 pm Operator: 280
Sample : STD SVMS 20K PPB 14G09881 Inst : BNAMS11
Misc : 8270 Primary Calibration Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 4 18:19 2014 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\S811J04N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Sat Oct 04 18:17:50 2014
Response via : Multiple Level Calibration





TIC: 1004A_09.D

(5) Aniline (MT)

4.87min (+0.012) 19481.5735047 ppb m

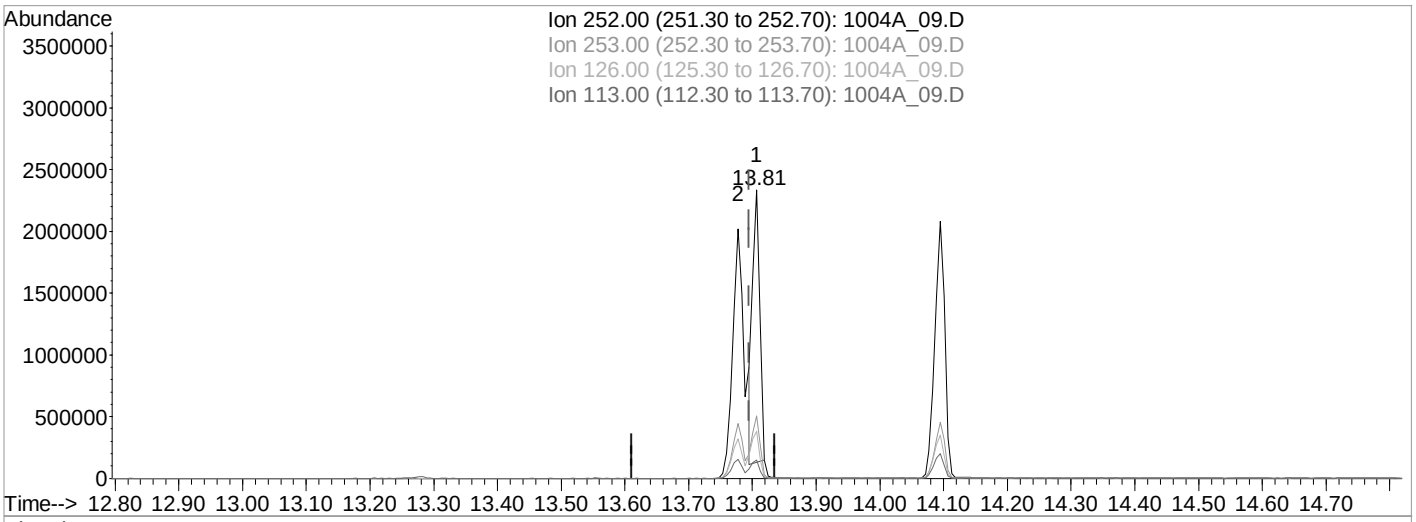
response 226175

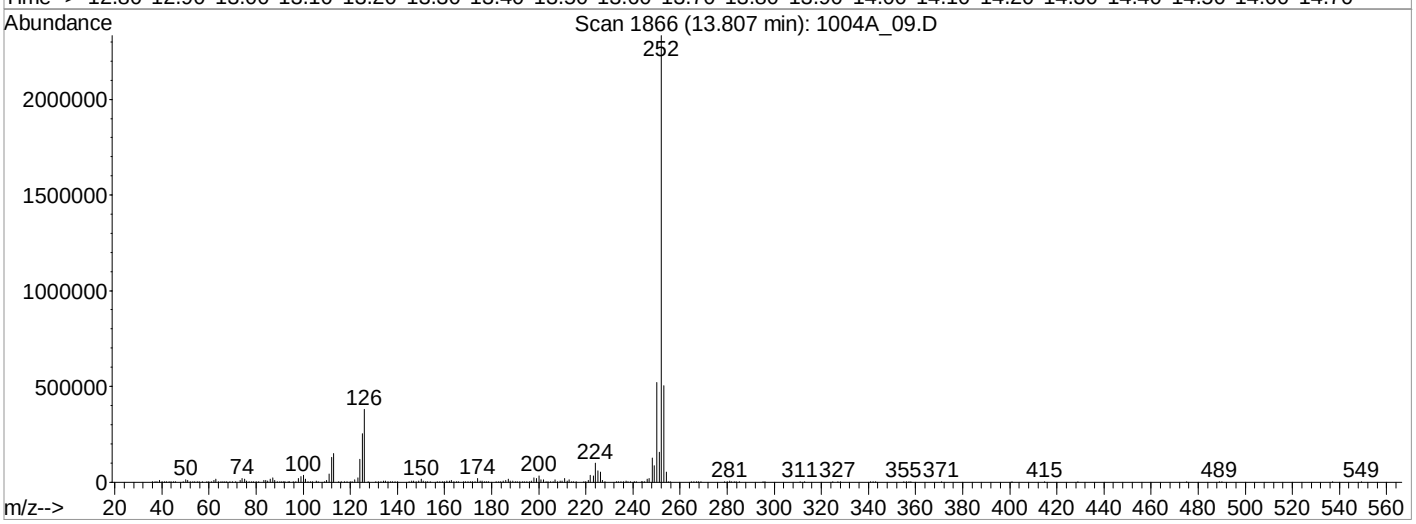
Ion	Exp%	Act%
66.00	100	100
93.00	226.20	0.00#
65.00	51.10	44.31
92.00	28.60	23.89

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\100414A\1004A 09.D Vial: 7
Acq On : 4 Oct 2014 3:19 pm Operator: 280
Sample : STD SVMS 20K PPB 14G09881 Inst : BNAMS11
Misc : 8270 Primary Calibration Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 4 18:19 2014 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\S811J04N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Sat Oct 04 18:17:50 2014
Response via : Multiple Level Calibration





TIC: 1004A_09.D

(89) Benzo(b)fluoranthene (MT)

13.81min (+0.012) 15248.3905220 ppb

Qvalue = 98

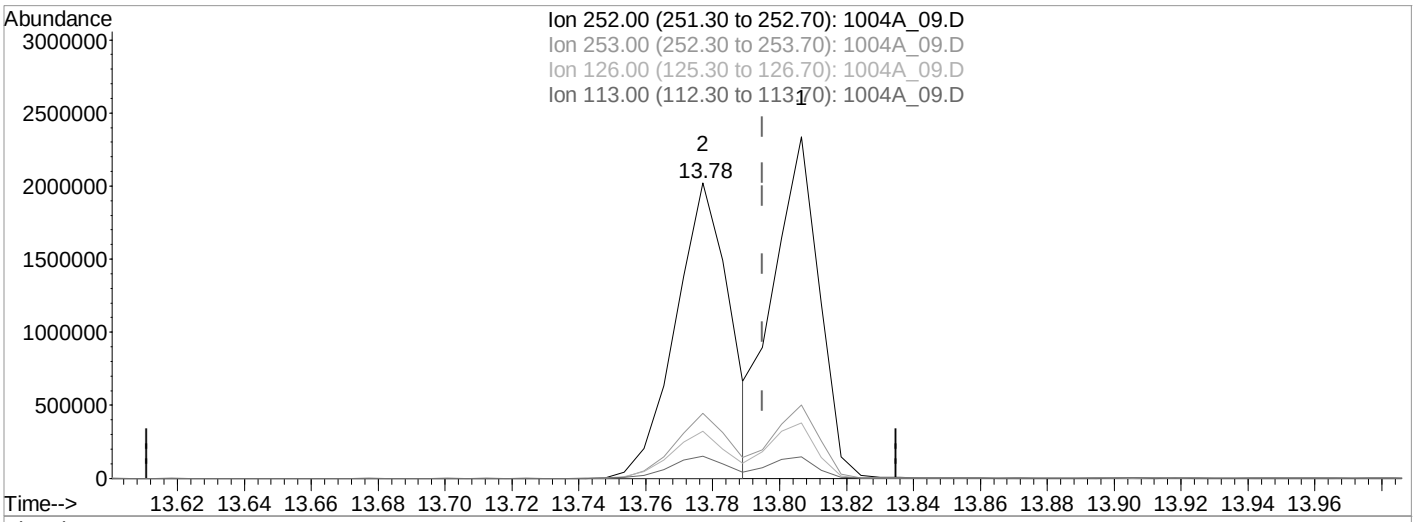
response 1695418

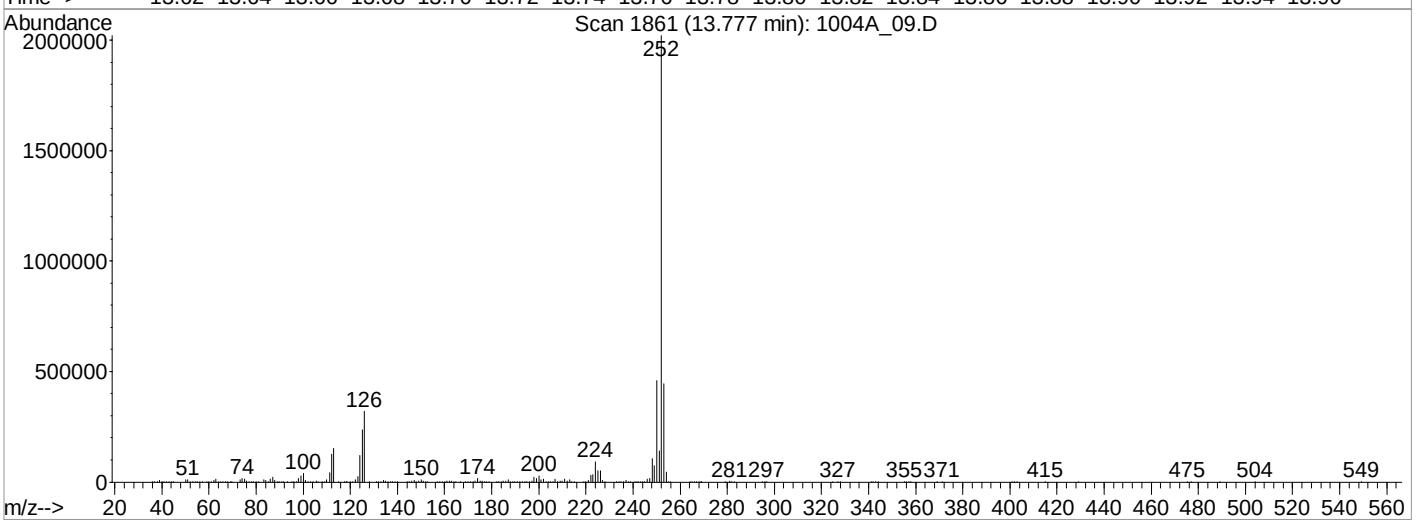
Ion	Exp%	Act%
252.00	100	100
253.00	21.20	21.63
126.00	16.00	15.60
113.00	7.90	6.03

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\100414A\1004A 09.D Vial: 7
Acq On : 4 Oct 2014 3:19 pm Operator: 280
Sample : STD SVMS 20K PPB 14G09881 Inst : BNAMS11
Misc : 8270 Primary Calibration Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 4 18:20 2014 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\S811J04N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Sat Oct 04 18:17:50 2014
Response via : Multiple Level Calibration





TIC: 1004A_09.D

(89) Benzo(b)fluoranthene (MT)

13.78min (-0.018) 20443.5449406 ppb m

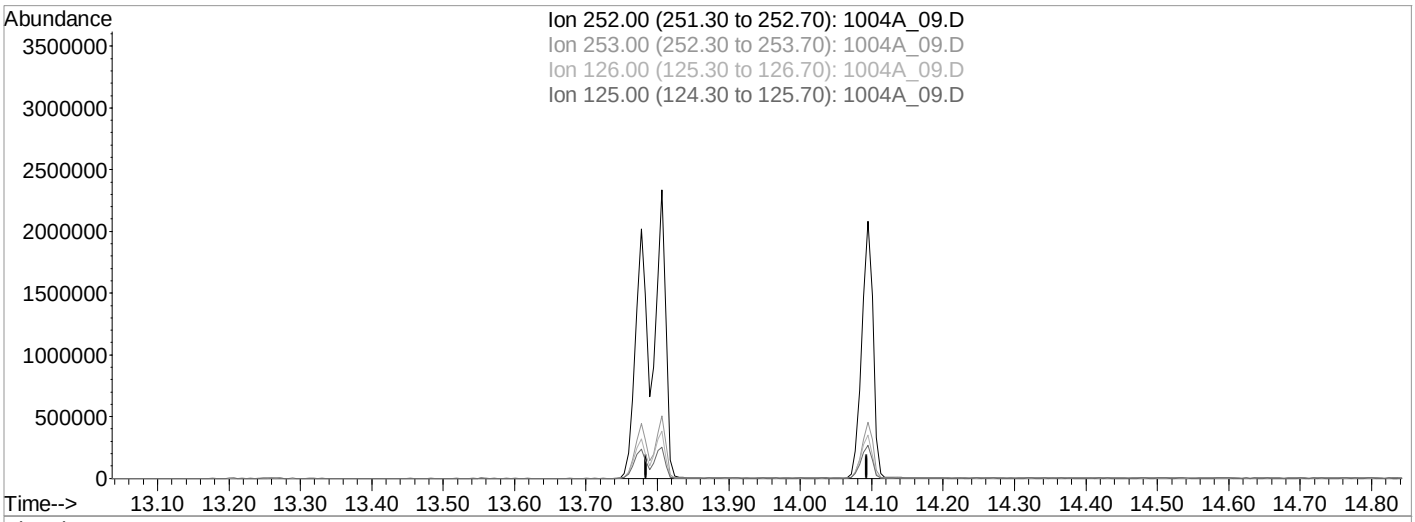
response 2273050

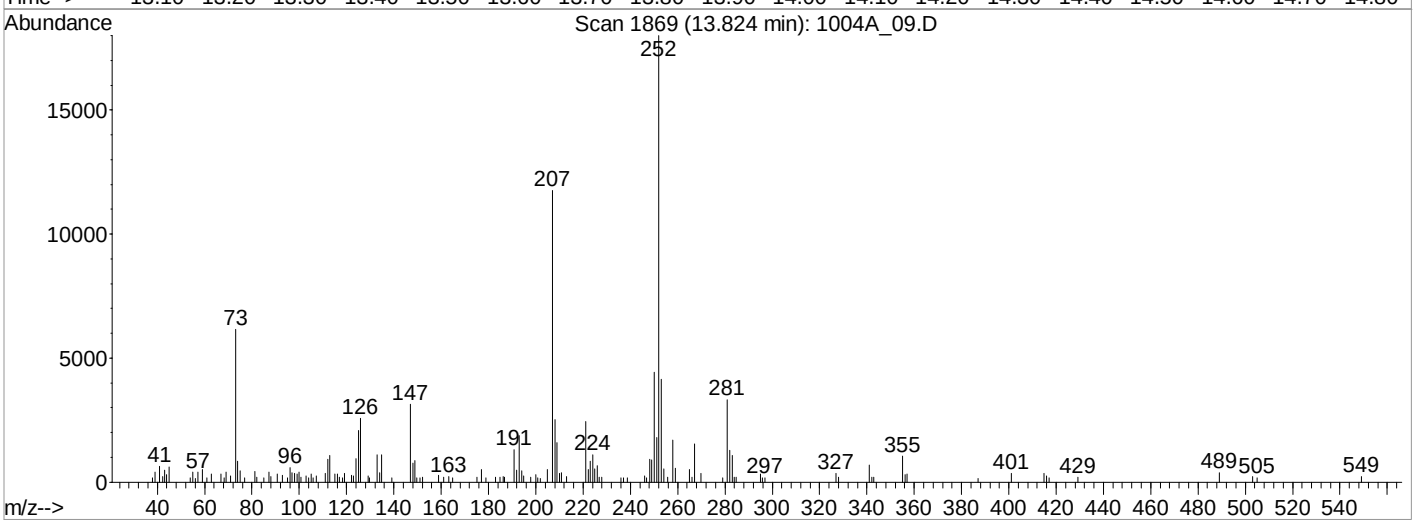
Ion	Exp%	Act%
252.00	100	100
253.00	21.20	21.95
126.00	16.00	15.86
113.00	7.90	7.58

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\100414A\1004A 09.D Vial: 7
Acq On : 4 Oct 2014 3:19 pm Operator: 280
Sample : STD SVMS 20K PPB 14G09881 Inst : BNAMS11
Misc : 8270 Primary Calibration Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 4 18:20 2014 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\S811J04N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Sat Oct 04 18:17:50 2014
Response via : Multiple Level Calibration





TIC: 1004A_09.D

(90) Benzo(k)fluoranthene (MT)

13.82min (-13.824) 0.0000000 ppb

Qvalue = 0

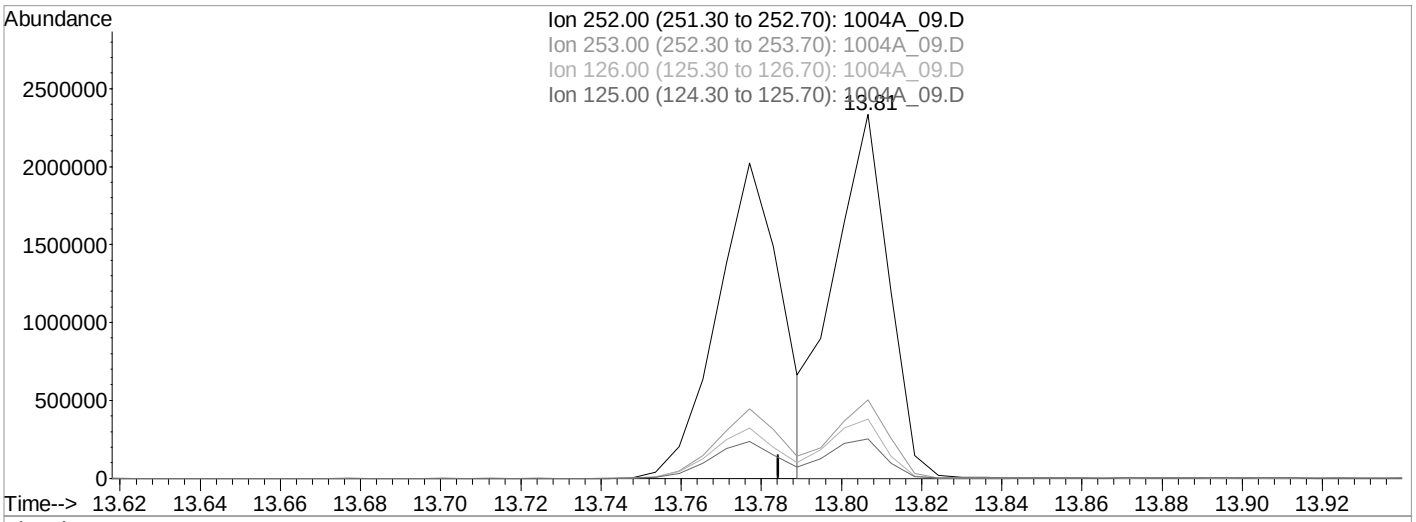
response 0

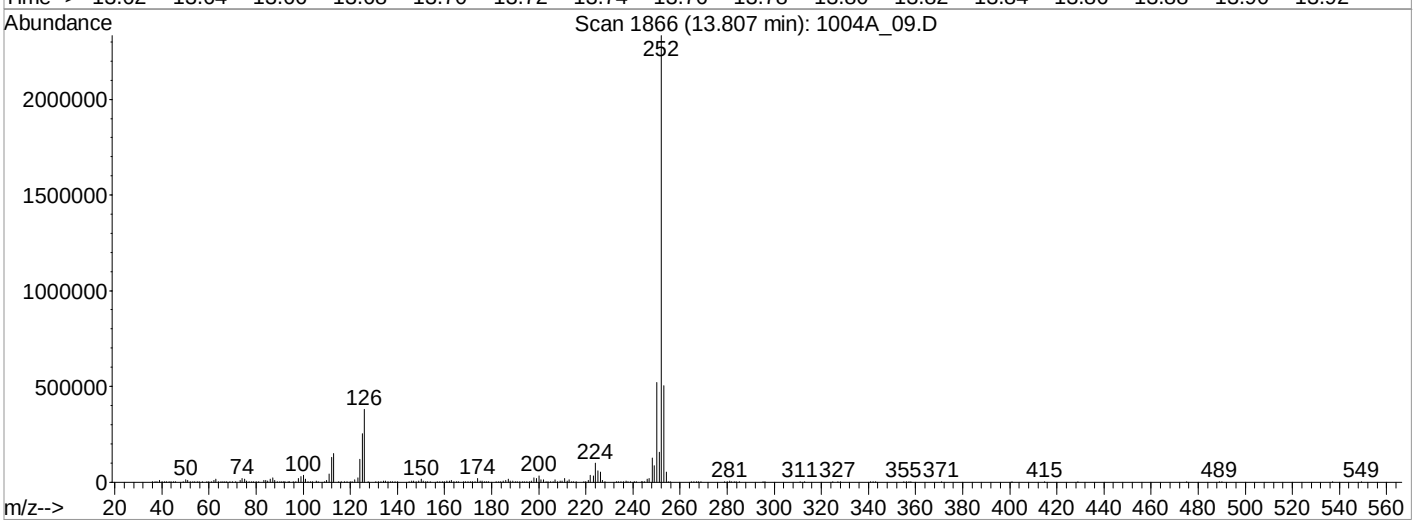
Ion	Exp%	Act%
252.00	100	0.00
253.00	21.60	0.00#
126.00	15.70	0.00
125.00	11.00	0.00

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\100414A\1004A 09.D Vial: 7
Acq On : 4 Oct 2014 3:19 pm Operator: 280
Sample : STD SVMS 20K PPB 14G09881 Inst : BNAMS11
Misc : 8270 Primary Calibration Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 4 18:20 2014 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\S811J04N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Sat Oct 04 18:17:50 2014
Response via : Multiple Level Calibration





TIC: 1004A_09.D

(90) Benzo(k)fluoranthene (MT)

13.81min (-0.018) 20373.4525226 ppb m

response 2208288

Ion	Exp%	Act%
252.00	100	100
253.00	21.60	21.56
126.00	15.70	16.29
125.00	11.00	10.78

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\100414A\1004A 10.D Vial: 8
Acq On : 4 Oct 2014 3:40 pm Operator: 280
Sample : STD SVMS 30K PPB 14G09881 Inst : BNAMS11
Misc : 8270 Primary Calibration Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 4 18:23 2014 Quant Results File: S811J04N.RES

Quant Method : C:\MSDCHEM\1\METHODS\S811J04N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Sat Oct 04 18:04:37 2014
Response via : Initial Calibration
DataAcq Meth : BNA11

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	5.17	152	106954	8000.00 ppb	0.00
22) Naphthalene-d8	6.40	136	440179	8000.00 ppb	0.00
40) Acenaphthene-d10	8.25	164	271820	8000.00 ppb	0.00
64) Phenanthrene-d10	9.85	188	534427	8000.00 ppb	0.00
78) Chrysene-d12	12.70	240	636020	8000.00 ppb	0.01
88) Perylene-d12	14.15	264	718343	8000.00 ppb	0.01

System Monitoring Compounds					
4) 2-Fluorophenol	4.10	112	521288	28659.1830628 ppb	0.01
Spiked Amount 20.000	Range 10 - 74		Recovery = 143295.92%#		
7) Phenol-d5	4.81	99	661204	28436.0132111 ppb	0.02
Spiked Amount 20.000	Range 10 - 63		Recovery = 142180.07%#		
23) Nitrobenzene-d5	5.68	82	678585	29645.4787721 ppb	0.01
Spiked Amount 10.000	Range 28 - 123		Recovery = 296454.79%#		
44) 2-Fluorobiphenyl	7.52	172	1496649	30103.6488330 ppb	0.00
Spiked Amount 10.000	Range 35 - 133		Recovery = 301036.49%#		
67) 2,4,6-Tribromophenol	9.10	330	225995	33754.6997877 ppb	0.00
Spiked Amount 20.000	Range 22 - 154		Recovery = 168773.50%#		
81) p-Terphenyl-d14	11.55	244	2465871	29811.3528164 ppb	0.00
Spiked Amount 10.000	Range 30 - 148		Recovery = 298113.53%#		

Target Compounds					Qvalue
2) Pyridine	3.17	79	790402m	26356.5454915 ppb	
3) N-Nitrosodimethylamine	3.15	42	502614	24714.4042780 ppb	94
5) Aniline	4.88	66	338645m	28788.4459652 ppb	
6) bis(2-Chloroethyl)ether	4.91	63	416261	26968.8157513 ppb	99
8) Phenol	4.82	94	670573	28430.4486386 ppb	96
9) Benzaldehyde	0.00	105	0	N.D. d	
10) 2-Chlorophenol	4.98	128	588626	29725.3770893 ppb	98
11) n-Decane	5.00	41	387774	25613.8965229 ppb	95
12) 1,3-Dichlorobenzene	5.12	146	646609	29150.8049562 ppb	98
13) 1,4-Dichlorobenzene	5.18	146	661431	28965.5148939 ppb	99
14) Benzyl Alcohol	5.28	79	535785	28203.5649205 ppb	100
15) 1,2-Dichlorobenzene	5.32	146	621958	29693.5960566 ppb	97
16) bis(2-Chloroisopropyl)ethe	5.40	121	176771	27471.1831264 ppb	99
17) 2-Methylphenol	5.37	108	497316	28638.2508783 ppb	96
18) Hexachloroethane	5.64	117	303299	29190.4380736 ppb	95
19) N-Nitrosodi-n-propylamine	5.53	70	418212	28050.8698029 ppb	96
20) 3&4-Methyl phenol	5.51	107	590312	28696.2657340 ppb	98
21) Acetophenone	0.00	105	0	N.D. d	
24) Nitrobenzene	5.70	77	662829	29669.9447443 ppb	97
25) Isophorone	5.93	82	1114581	29443.6303448 ppb	100
26) 2-Nitrophenol	6.01	139	330449	31366.1250629 ppb	93
27) 2,4-Dimethylphenol	6.03	107	629446	30046.4894151 ppb	99
28) bis(2-Chlorethoxy)methane	6.13	93	675995	28943.7222325 ppb	95
29) 2,4-Dichlorophenol	6.25	162	519796	31358.2681926 ppb	94
30) Benzoic Acid	0.00	105	0	N.D. d	
31) 1,2,4-Trichlorobenzene	6.34	180	596788	31084.1538526 ppb	95
32) Naphthalene	6.42	128	1833010	30338.9080305 ppb	100
33) 4-Chloroaniline	6.47	65	255969	28504.7370250 ppb	94
34) Hexachloro-1,3-butadiene	6.54	225	408944	32243.7163323 ppb	98
35) Caprolactam	0.00	113	0	N.D. d	
36) 4-Chloro-3-methylphenol	6.95	107	610495	30635.9188733 ppb	98
37) 2-Methylnaphthalene	7.14	142	1374344	31045.7328931 ppb	99
38) 1-Methylnaphthalene	7.25	142	1255701	30912.0520749 ppb	100

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\100414A\1004A 10.D Vial: 8
Acq On : 4 Oct 2014 3:40 pm Operator: 280
Sample : STD SVMS 30K PPB 14G09881 Inst : BNAMS11
Misc : 8270 Primary Calibration Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 4 18:23 2014 Quant Results File: S811J04N.RES

Quant Method : C:\MSDCHEM\1\METHODS\S811J04N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Sat Oct 04 18:04:37 2014
Response via : Initial Calibration
DataAcq Meth : BNA11

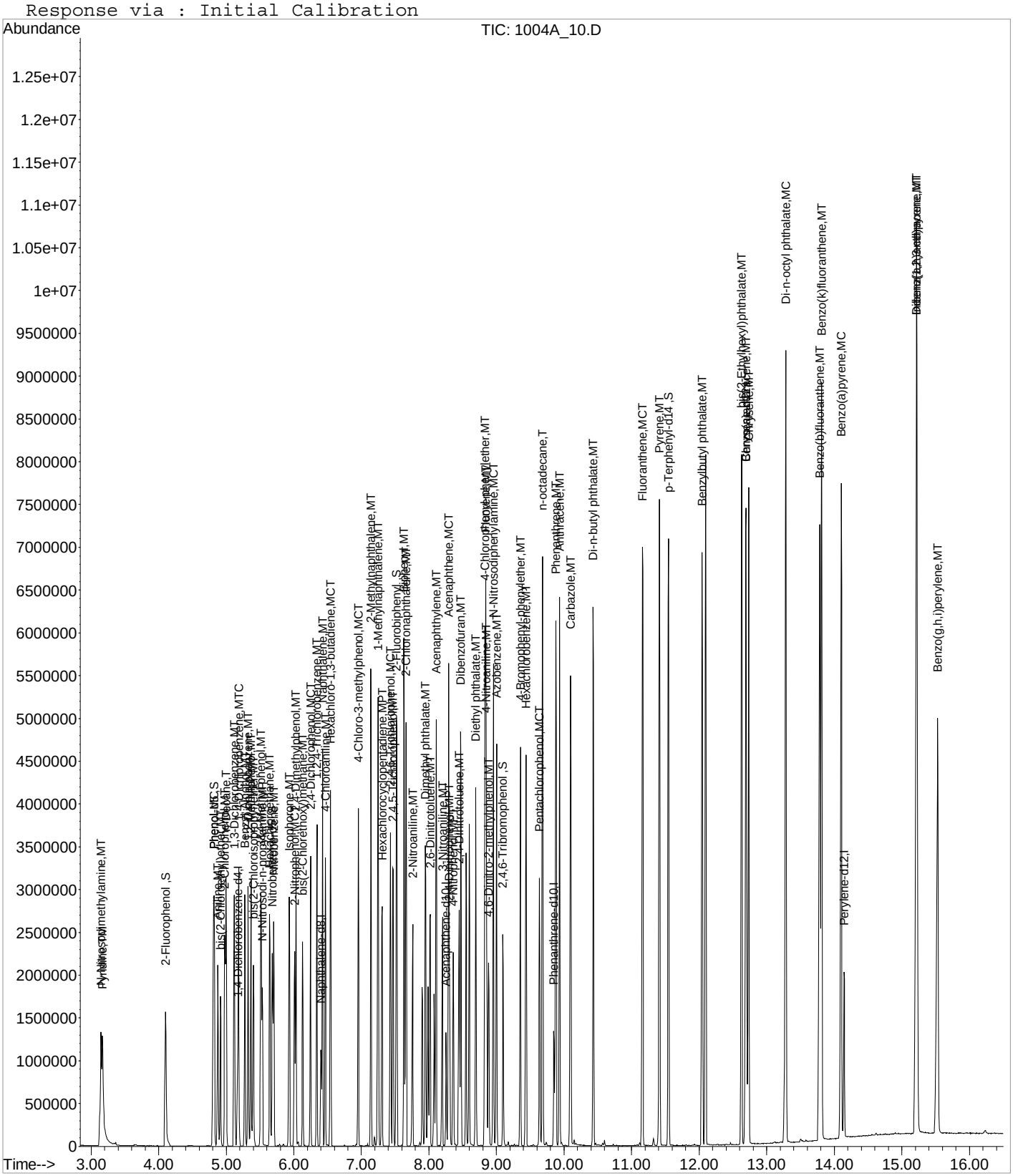
	Compound	R.T.	QIon	Response	Conc Unit		Qvalue
39)	1,2,4,5-Tetrachlorobenzene	0.00	216	0	N.D. d		
41)	Hexachlorocyclopentadiene	7.31	237	445983	33629.1170253 ppb		95
42)	2,4,6-Trichlorophenol	7.43	196	410661	31447.9211933 ppb		96
43)	2,4,5-Trichlorophenol	7.47	196	438564	31168.4656907 ppb		96
45)	Biphenyl	7.63	154	1671506	30159.4551864 ppb		100
46)	2-Chloronaphthalene	7.66	162	1243326	30130.7044721 ppb		98
47)	2-Nitroaniline	7.76	138	420425	30969.6626908 ppb		97
48)	Acenaphthylene	8.11	152	2045201	30179.0972020 ppb		99
49)	Dimethyl phthalate	7.95	163	1460382	30715.5958211 ppb		98
50)	2,6-Dinitrotoluene	8.02	165	335764	30288.2380636 ppb		98
51)	3-Nitroaniline	8.20	138	371301	30482.8649871 ppb		94
52)	Acenaphthene	8.30	153	1350243	29722.4504021 ppb		98
53)	2,4-Dinitrophenol	8.31	184	226557	36485.5857118 ppb	#	55
54)	Dibenzofuran	8.47	168	1855797	30130.3967952 ppb		99
55)	2,4-Dinitrotoluene	8.45	165	462859	31503.0536014 ppb		95
56)	2,3,4,6-Tetrachlorophenol	0.00	232	0	N.D. d		
57)	4-Nitrophenol	8.36	139	302379	30771.4434102 ppb		91
58)	Fluorene	8.84	166	1581628	30878.4205846 ppb		99
59)	4-Chlorophenyl-phenylether	8.83	204	796546	31805.1919494 ppb		97
60)	Diethyl phthalate	8.70	149	1634258	30295.2902766 ppb		98
61)	4-Nitroaniline	8.85	138	372506	31425.4065396 ppb		98
62)	Azobenzene	9.00	77	1691312	29661.7598867 ppb		97
63)	Atrazine	0.00	200	0	N.D. d		
65)	4,6-Dinitro-2-methylphenol	8.89	198	283037	31368.7969155 ppb	#	77
66)	N-Nitrosodiphenylamine	8.95	169	1335418	31268.5990081 ppb		99
68)	4-Bromophenyl-phenylether	9.35	248	459035	32622.8847586 ppb		93
69)	Hexachlorobenzene	9.44	284	499145	32888.3655208 ppb		97
70)	n-octadecane	9.68	55	318417	26850.0854952 ppb		99
71)	Pentachlorophenol	9.64	266	300996	34444.1325808 ppb		97
72)	Phenanthrene	9.88	178	2329138	29766.6759059 ppb		99
73)	Anthracene	9.94	178	2416359	30399.6178099 ppb		99
74)	Carbazole	10.10	167	2288764	29881.5560756 ppb		100
75)	Di-n-butyl phthalate	10.43	149	3269847	31561.1950348 ppb		100
76)	2-nitrodiphenylamine	0.00	167	0	N.D. d		
77)	Fluoranthene	11.17	202	3125514	31650.3030080 ppb		100
79)	Benzidine	0.00	184	0	N.D. d		
80)	Pyrene	11.41	202	3252424	29015.5886549 ppb		99
82)	Benzylbutyl phthalate	12.04	149	1656061	30308.1104684 ppb		97
83)	3,3-Dichlorobenzidine	0.00	252	0	N.D. d		
84)	Benzo(a)anthracene	12.69	228	3299262	30307.1965697 ppb		98
85)	Chrysene	12.74	228	2978350	30169.0446611 ppb		97
86)	bis(2-Ethylhexyl)phthalate	12.63	149	2443840	29958.8110144 ppb		99
87)	Di-n-octyl phthalate	13.28	149	4312048	30129.9608390 ppb		99
89)	Benzo(b)fluoranthene	13.78	252	3488559m	31275.7989550 ppb		
90)	Benzo(k)fluoranthene	13.81	252	3373363m	31023.2376937 ppb		
91)	Benzo(a)pyrene	14.10	252	3441266	31408.9510243 ppb		99
92)	Indeno(1,2,3-cd)pyrene	15.22	276	3991548	30141.3683558 ppb		98
93)	Dibenz(a,h)anthracene	15.22	278	3468260	30830.6040842 ppb		93
94)	Benzo(g,h,i)perylene	15.53	276	3125630	29085.9947736 ppb		99

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\100414A\1004A 10.D Vial: 8
Acq On : 4 Oct 2014 3:40 pm Operator: 280
Sample : STD SVMS 30K PPB 14G09881 Inst : BNAMS11
Misc : 8270 Primary Calibration Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 4 18:23 2014 Quant Results File: S811J04N.RES

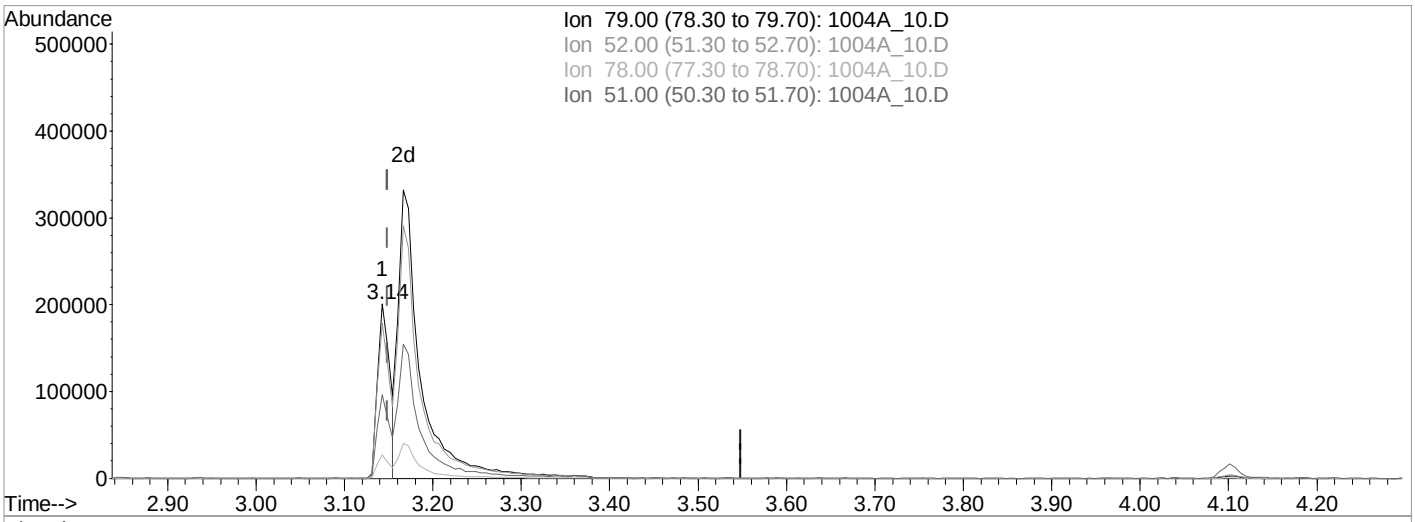
Method : C:\MSDCHEM\1\METHODS\S811J04N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Sat Oct 04 18:20:45 2014
Response via : Initial Calibration

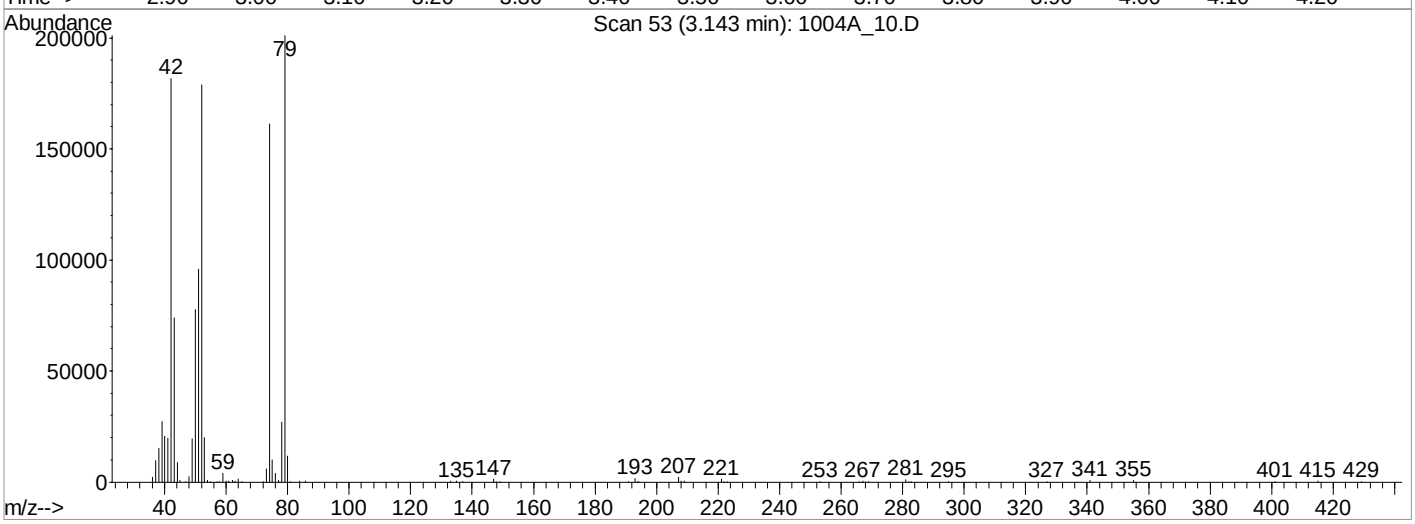


Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\100414A\1004A 10.D Vial: 8
Acq On : 4 Oct 2014 3:40 pm Operator: 280
Sample : STD SVMS 30K PPB 14G09881 Inst : BNAMS11
Misc : 8270 Primary Calibration Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 4 18:21 2014 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\S811J04N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Sat Oct 04 18:20:45 2014
Response via : Multiple Level Calibration





TIC: 1004A_10.D

(2) Pyridine (TM)

3.14min (-0.006) 6645.1739015 ppb

Qvalue = 98

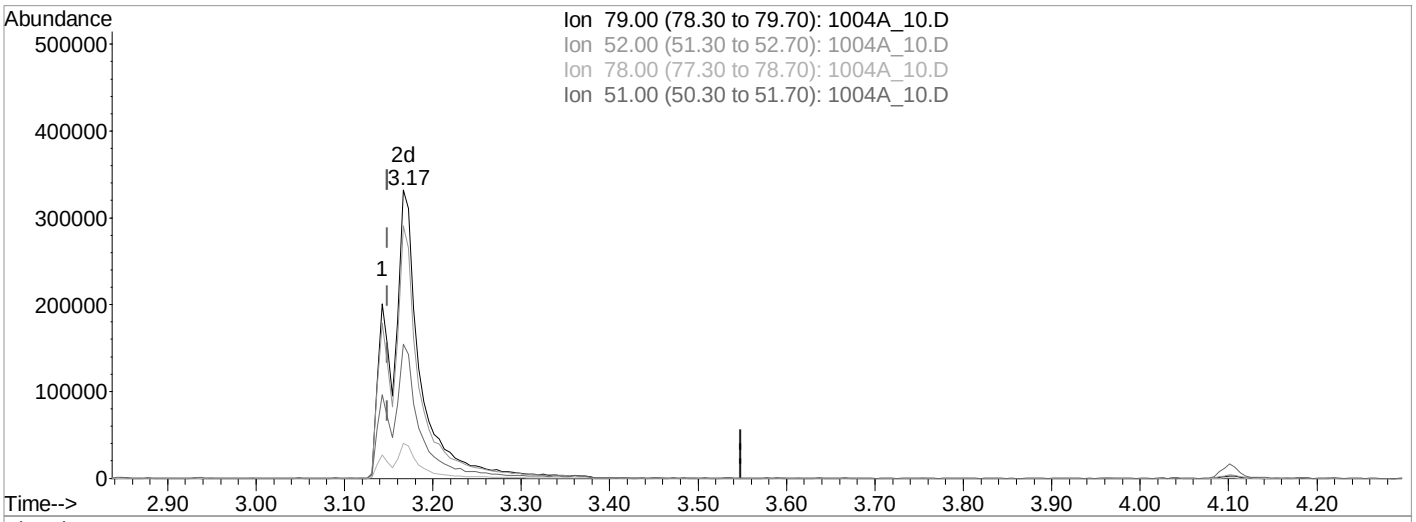
response 199281

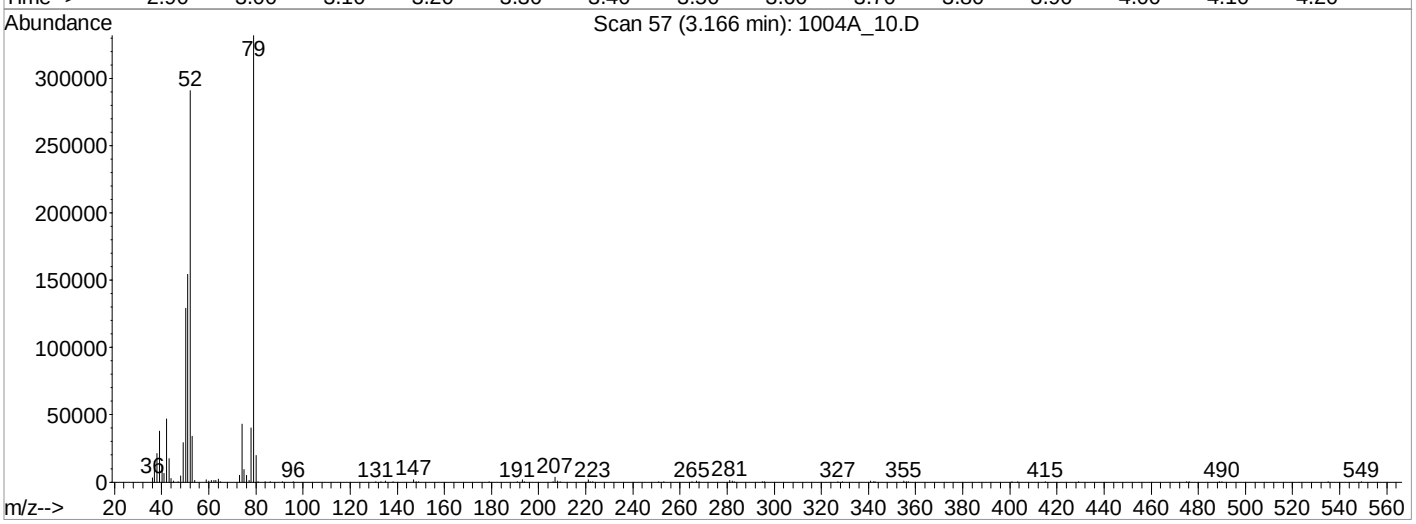
Ion	Exp%	Act%
79.00	100	100
52.00	89.70	88.96
78.00	12.30	13.36
51.00	50.50	47.41

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\100414A\1004A 10.D Vial: 8
Acq On : 4 Oct 2014 3:40 pm Operator: 280
Sample : STD SVMS 30K PPB 14G09881 Inst : BNAMS11
Misc : 8270 Primary Calibration Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 4 18:21 2014 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\S811J04N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Sat Oct 04 18:20:45 2014
Response via : Multiple Level Calibration





TIC: 1004A_10.D

(2) Pyridine (TM)

3.17min (+0.018) 26356.5454915 ppb m

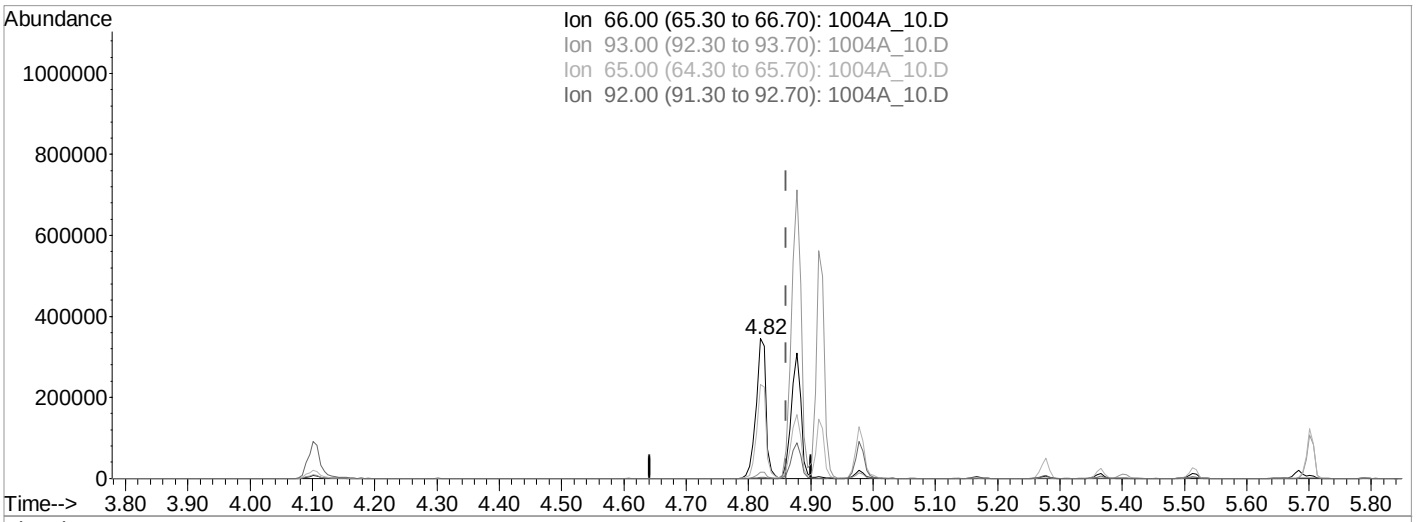
response 790402

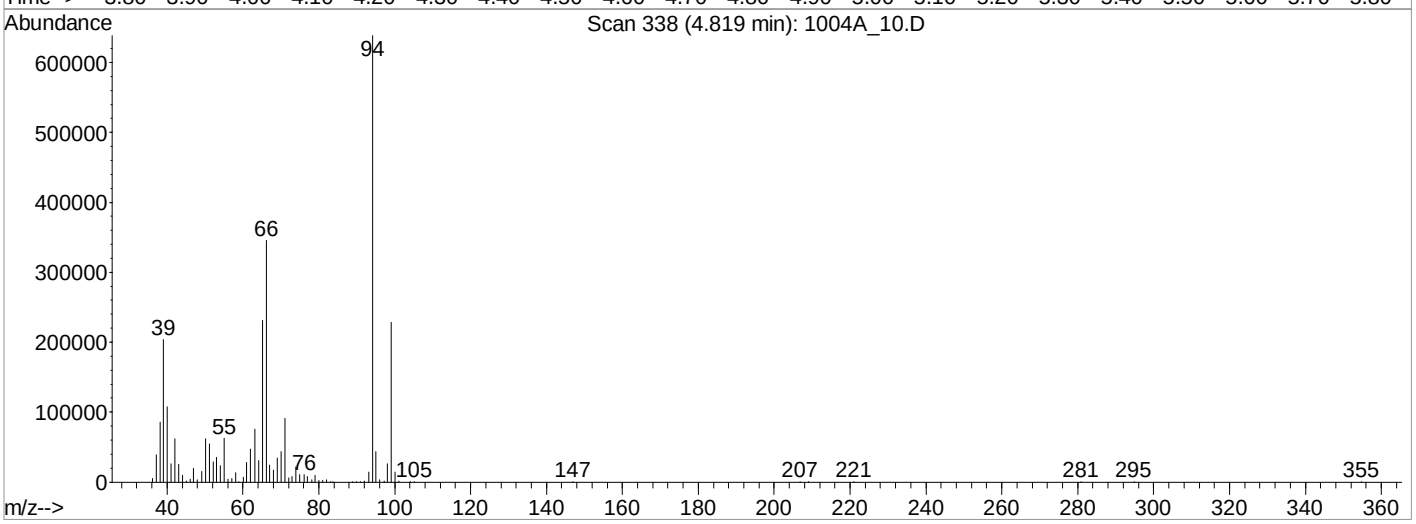
Ion	Exp%	Act%
79.00	100	100
52.00	89.70	87.60
78.00	12.30	12.16
51.00	50.50	46.52

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\100414A\1004A 10.D Vial: 8
Acq On : 4 Oct 2014 3:40 pm Operator: 280
Sample : STD SVMS 30K PPB 14G09881 Inst : BNAMS11
Misc : 8270 Primary Calibration Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 4 18:21 2014 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\S811J04N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Sat Oct 04 18:20:45 2014
Response via : Multiple Level Calibration





TIC: 1004A_10.D

(5) Aniline (MT)

4.82min (-0.041) 32367.9911947 ppb

Qvalue = 1

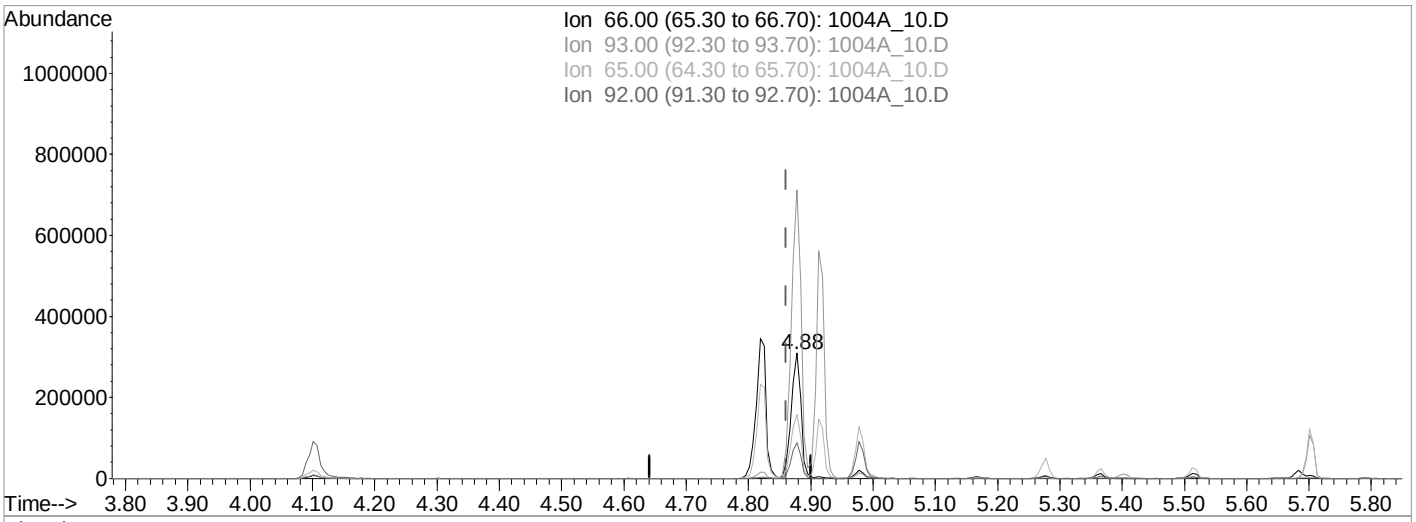
response 380752

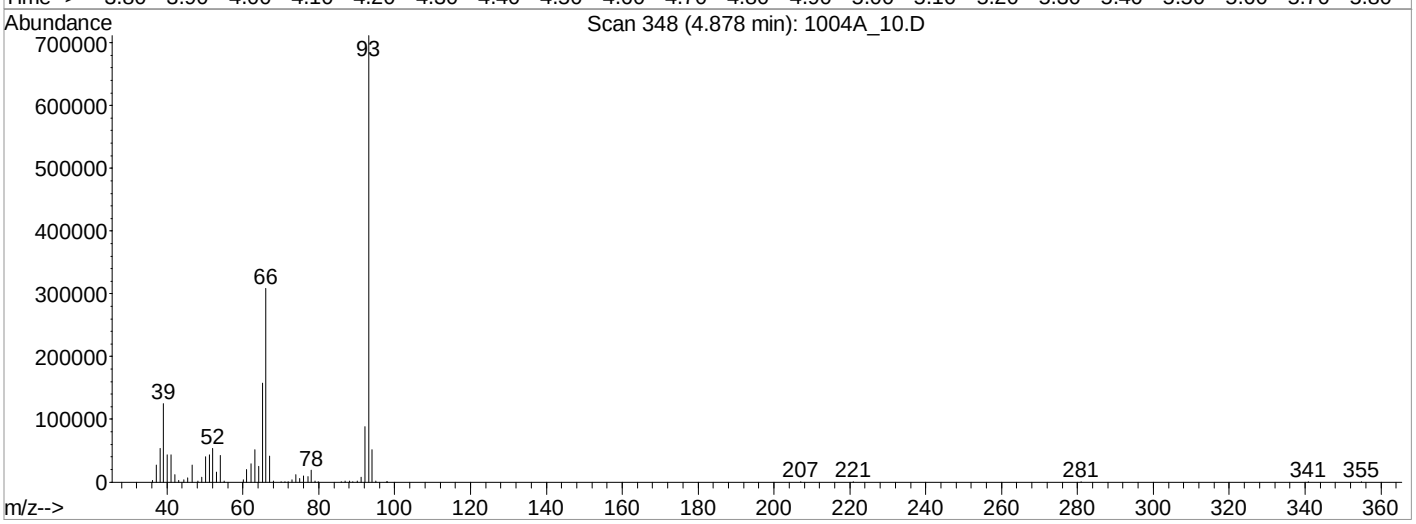
Ion	Exp%	Act%
66.00	100	100
93.00	226.20	0.00#
65.00	51.10	63.62#
92.00	28.60	0.00#

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\100414A\1004A 10.D Vial: 8
Acq On : 4 Oct 2014 3:40 pm Operator: 280
Sample : STD SVMS 30K PPB 14G09881 Inst : BNAMS11
Misc : 8270 Primary Calibration Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 4 18:21 2014 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\S811J04N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Sat Oct 04 18:20:45 2014
Response via : Multiple Level Calibration





TIC: 1004A_10.D

(5) Aniline (MT)

4.88min (+0.018) 28788.4459652 ppb m

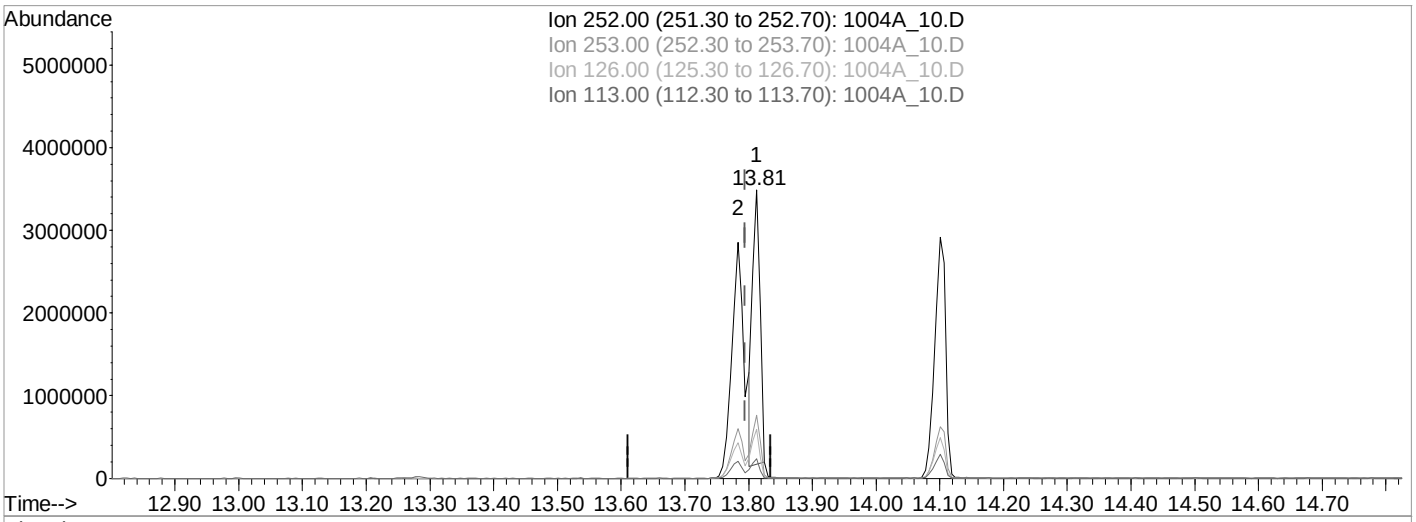
response 338645

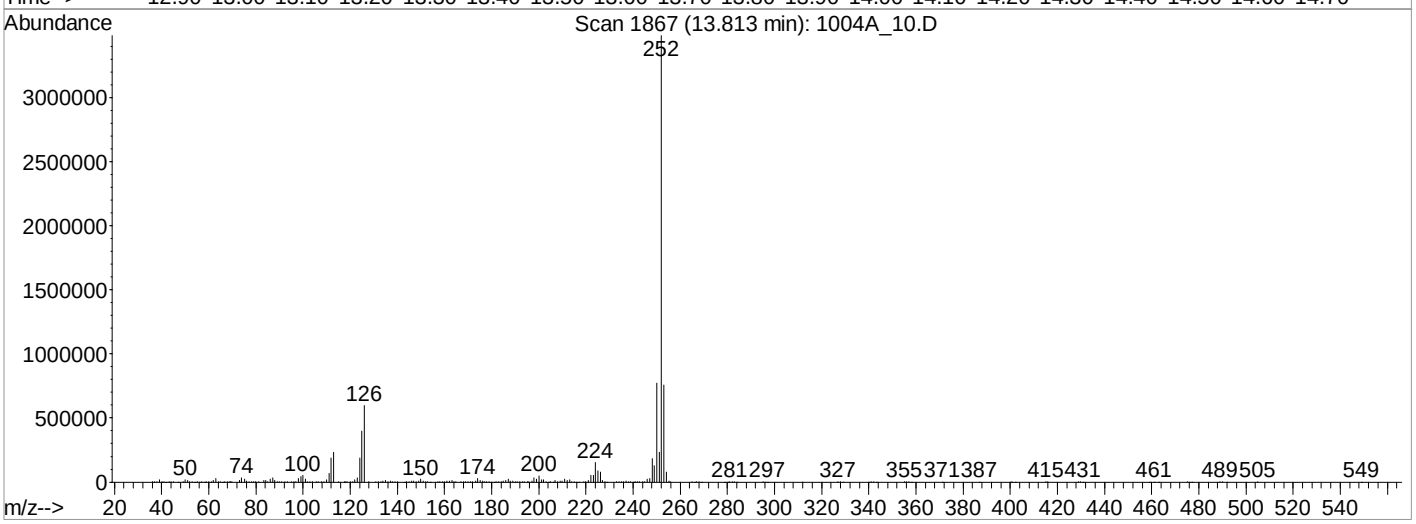
Ion	Exp%	Act%
66.00	100	100
93.00	226.20	0.00#
65.00	51.10	71.53#
92.00	28.60	0.00#

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\100414A\1004A 10.D Vial: 8
Acq On : 4 Oct 2014 3:40 pm Operator: 280
Sample : STD SVMS 30K PPB 14G09881 Inst : BNAMS11
Misc : 8270 Primary Calibration Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 4 18:21 2014 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\S811J04N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Sat Oct 04 18:20:45 2014
Response via : Multiple Level Calibration





TIC: 1004A_10.D

(89) Benzo(b)fluoranthene (MT)

13.81min (+0.018) 23858.8038993 ppb

Qvalue = 98

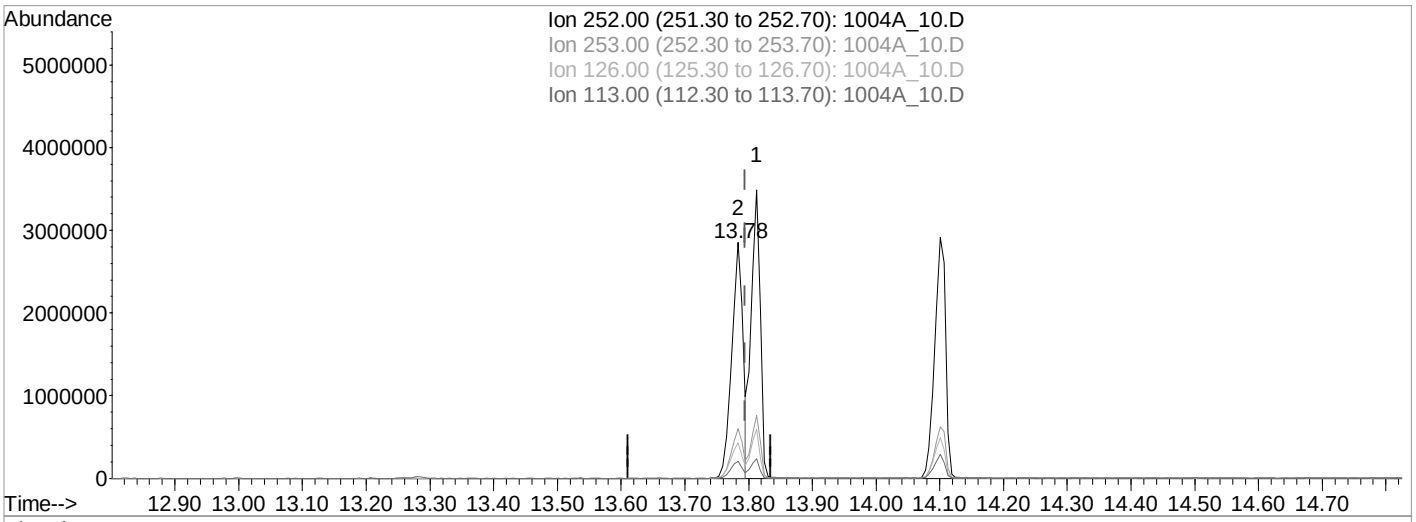
response 2661254

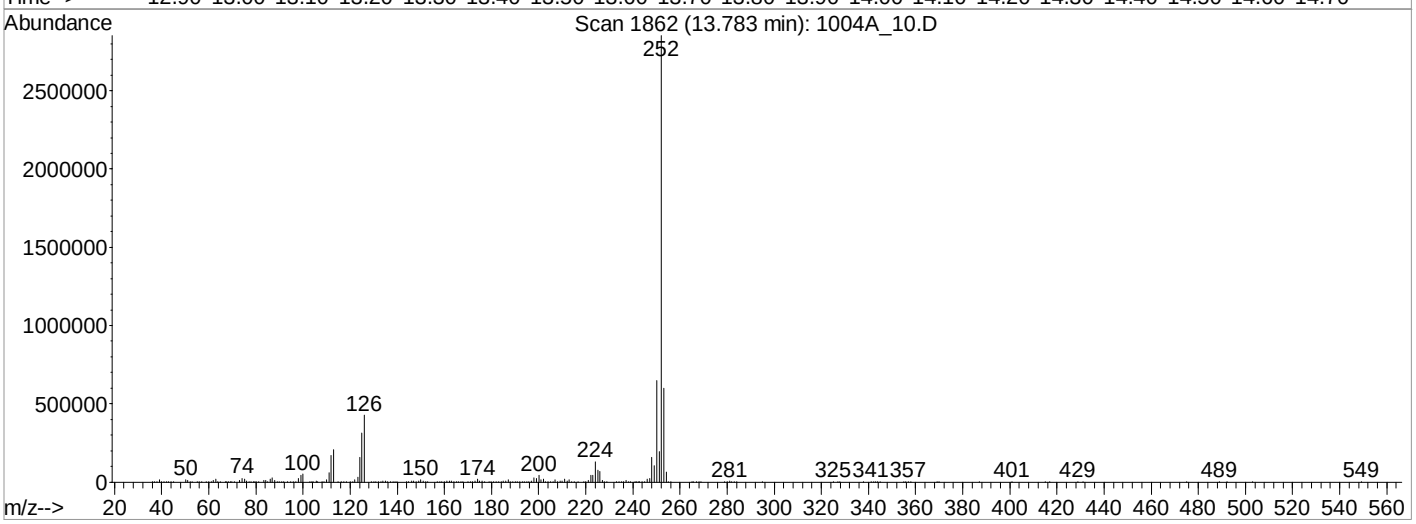
Ion	Exp%	Act%
252.00	100	100
253.00	21.20	21.63
126.00	16.00	16.85
113.00	7.90	6.48

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\100414A\1004A 10.D Vial: 8
Acq On : 4 Oct 2014 3:40 pm Operator: 280
Sample : STD SVMS 30K PPB 14G09881 Inst : BNAMS11
Misc : 8270 Primary Calibration Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 4 18:22 2014 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\S811J04N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Sat Oct 04 18:20:45 2014
Response via : Multiple Level Calibration





TIC: 1004A_10.D

(89) Benzo(b)fluoranthene (MT)

13.78min (-0.012) 31275.7989550 ppb m

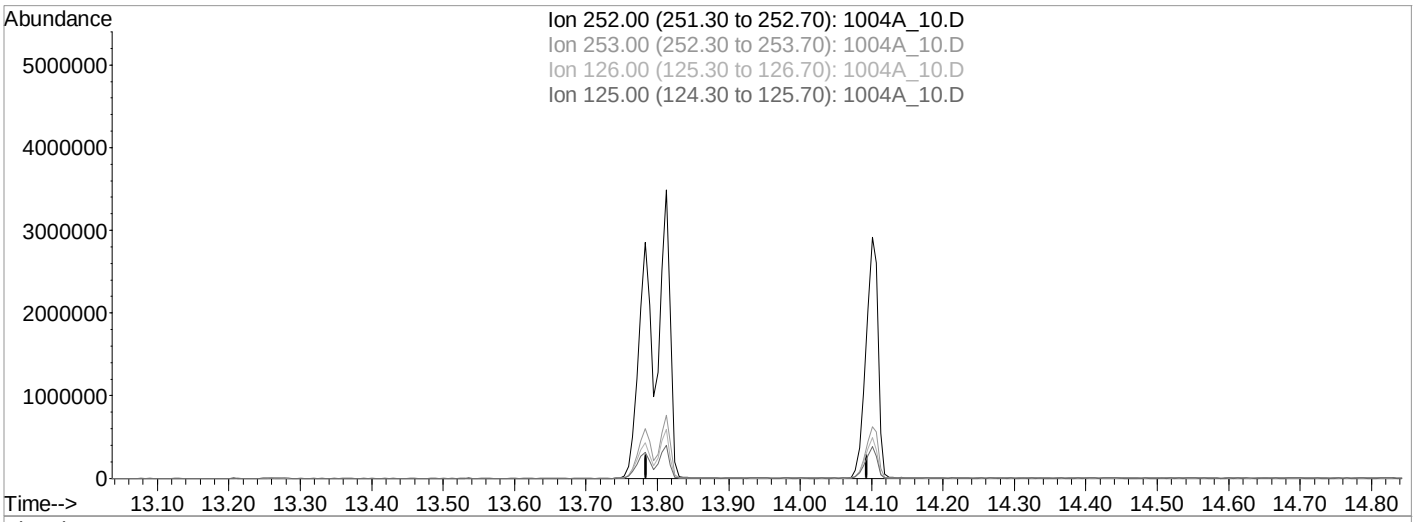
response 3488559

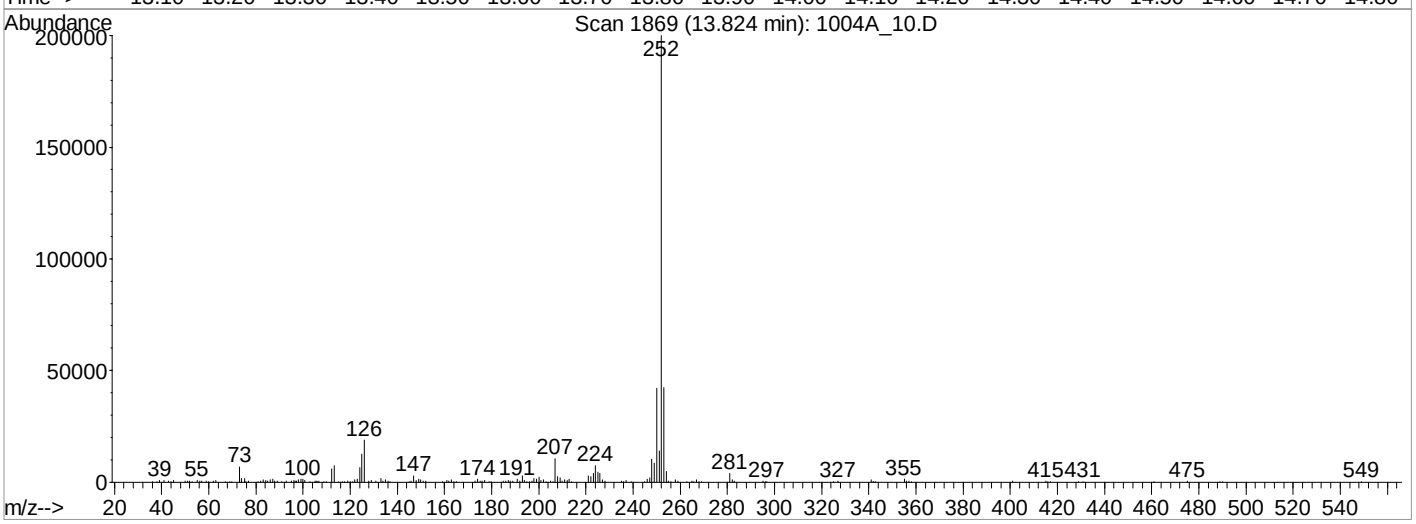
Ion	Exp%	Act%
252.00	100	100
253.00	21.20	20.96
126.00	16.00	15.02
113.00	7.90	7.28

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\100414A\1004A 10.D Vial: 8
Acq On : 4 Oct 2014 3:40 pm Operator: 280
Sample : STD SVMS 30K PPB 14G09881 Inst : BNAMS11
Misc : 8270 Primary Calibration Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 4 18:22 2014 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\S811J04N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Sat Oct 04 18:20:45 2014
Response via : Multiple Level Calibration





TIC: 1004A_10.D

(90) Benzo(k)fluoranthene (MT)

13.82min (-13.824) 0.0000000 ppb

Qvalue = 0

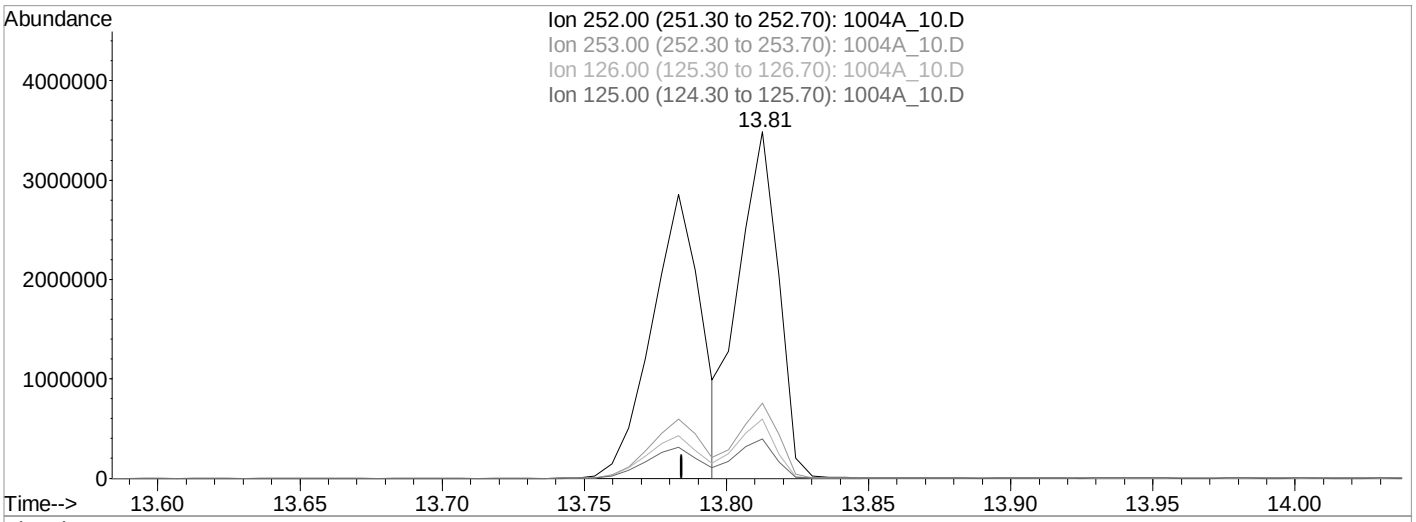
response 0

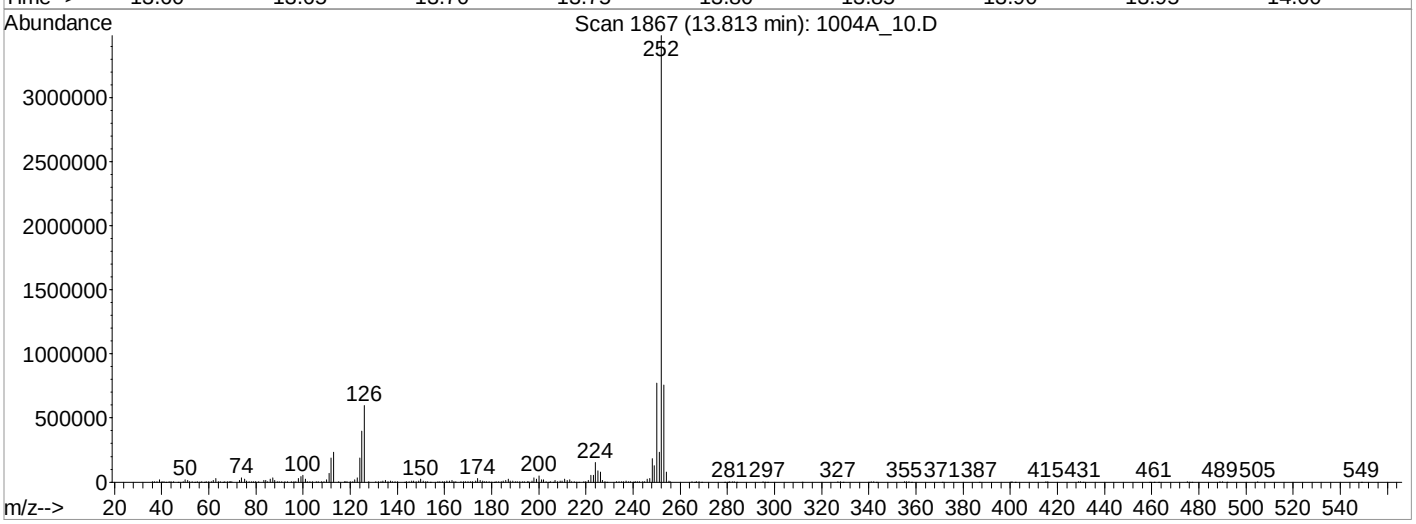
Ion	Exp%	Act%
252.00	100	0.00
253.00	21.60	0.00#
126.00	15.70	0.00
125.00	11.00	0.00

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\100414A\1004A 10.D Vial: 8
Acq On : 4 Oct 2014 3:40 pm Operator: 280
Sample : STD SVMS 30K PPB 14G09881 Inst : BNAMS11
Misc : 8270 Primary Calibration Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 4 18:23 2014 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\S811J04N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Sat Oct 04 18:20:45 2014
Response via : Multiple Level Calibration





TIC: 1004A_10.D

(90) Benzo(k)fluoranthene (MT)

13.81min (-0.012) 31023.2376937 ppb m

response 3373363

Ion	Exp%	Act%
252.00	100	100
253.00	21.60	21.78
126.00	15.70	17.08
125.00	11.00	11.40

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\100414A\1004A 11.D Vial: 9
Acq On : 4 Oct 2014 4:01 pm Operator: 280
Sample : STD SVMS 40K PPB 14G09881 Inst : BNAMS11
Misc : 8270 Primary Calibration Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 4 18:25 2014 Quant Results File: S811J04N.RES

Quant Method : C:\MSDCHEM\1\METHODS\S811J04N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Sat Oct 04 18:04:37 2014
Response via : Initial Calibration
DataAcq Meth : BNA11

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	5.17	152	105393	8000.00 ppb	0.00
22) Naphthalene-d8	6.41	136	447576	8000.00 ppb	0.00
40) Acenaphthene-d10	8.25	164	277392	8000.00 ppb	0.00
64) Phenanthrene-d10	9.85	188	541448	8000.00 ppb	0.00
78) Chrysene-d12	12.71	240	657283	8000.00 ppb	0.02
88) Perylene-d12	14.15	264	751071	8000.00 ppb	0.01

System Monitoring Compounds					
4) 2-Fluorophenol	4.11	112	707866	39493.2065448 ppb	0.02
Spiked Amount 20.000	Range 10 - 74		Recovery = 197466.03%#		
7) Phenol-d5	4.81	99	904156	39460.4349955 ppb	0.02
Spiked Amount 20.000	Range 10 - 63		Recovery = 197302.17%#		
23) Nitrobenzene-d5	5.69	82	895451	38473.2228172 ppb	0.02
Spiked Amount 10.000	Range 28 - 123		Recovery = 384732.23%#		
44) 2-Fluorobiphenyl	7.52	172	2024556	39904.0016413 ppb	0.00
Spiked Amount 10.000	Range 35 - 133		Recovery = 399040.02%#		
67) 2,4,6-Tribromophenol	9.10	330	328551	48436.1761232 ppb	0.00
Spiked Amount 20.000	Range 22 - 154		Recovery = 242180.88%#		
81) p-Terphenyl-d14	11.55	244	3489124	40817.4724349 ppb	0.00
Spiked Amount 10.000	Range 30 - 148		Recovery = 408174.72%#		

Target Compounds					Qvalue
2) Pyridine	3.17	79	1048047m	35465.5321523 ppb	
3) N-Nitrosodimethylamine	3.15	42	669474	33406.7744614 ppb	93
5) Aniline	4.88	66	450158m	38835.0430859 ppb	
6) bis(2-Chloroethyl)ether	4.92	63	542666	35679.1114323 ppb	92
8) Phenol	4.82	94	893072	38424.6029096 ppb	98
9) Benzaldehyde	0.00	105	0	N.D. d	
10) 2-Chlorophenol	4.98	128	774713	39702.1512713 ppb	95
11) n-Decane	5.00	41	496097	33254.3780398 ppb	95
12) 1,3-Dichlorobenzene	5.12	146	881520	40329.8160584 ppb	98
13) 1,4-Dichlorobenzene	5.18	146	896628	39846.8751417 ppb	99
14) Benzyl Alcohol	5.28	79	735808	39306.3960404 ppb	99
15) 1,2-Dichlorobenzene	5.32	146	836048	40505.8933433 ppb	98
16) bis(2-Chloroisopropyl)ethe	5.41	121	236755	37337.9757653 ppb	95
17) 2-Methylphenol	5.37	108	674621	39423.8631057 ppb	98
18) Hexachloroethane	5.65	117	406857	39737.1477744 ppb	92
19) N-Nitrosodi-n-propylamine	5.54	70	559989	38116.6393614 ppb	93
20) 3&4-Methyl phenol	5.52	107	797368	39335.7867471 ppb	98
21) Acetophenone	0.00	105	0	N.D. d	
24) Nitrobenzene	5.71	77	888928	39133.1088609 ppb	96
25) Isophorone	5.94	82	1498112	38921.2278703 ppb	100
26) 2-Nitrophenol	6.01	139	453873	42369.4966659 ppb	96
27) 2,4-Dimethylphenol	6.04	107	858786	40316.4926711 ppb	99
28) bis(2-Chlorethoxy)methane	6.14	93	908333	38248.8620860 ppb	95
29) 2,4-Dichlorophenol	6.25	162	719622	42695.8926361 ppb	89
30) Benzoic Acid	0.00	105	0	N.D. d	
31) 1,2,4-Trichlorobenzene	6.34	180	818916	41948.9266688 ppb	96
32) Naphthalene	6.43	128	2459803	40040.3593793 ppb	99
33) 4-Chloroaniline	6.47	65	342823	37545.8678092 ppb	95
34) Hexachloro-1,3-butadiene	6.55	225	557822	43255.3089545 ppb	99
35) Caprolactam	0.00	113	0	N.D. d	
36) 4-Chloro-3-methylphenol	6.96	107	835979	41257.8598427 ppb	96
37) 2-Methylnaphthalene	7.14	142	1868110	41502.2306697 ppb	100
38) 1-Methylnaphthalene	7.25	142	1688327	40875.2753148 ppb	100

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\100414A\1004A 11.D Vial: 9
Acq On : 4 Oct 2014 4:01 pm Operator: 280
Sample : STD SVMS 40K PPB 14G09881 Inst : BNAMS11
Misc : 8270 Primary Calibration Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 4 18:25 2014 Quant Results File: S811J04N.RES

Quant Method : C:\MSDCHEM\1\METHODS\S811J04N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Sat Oct 04 18:04:37 2014
Response via : Initial Calibration
DataAcq Meth : BNA11

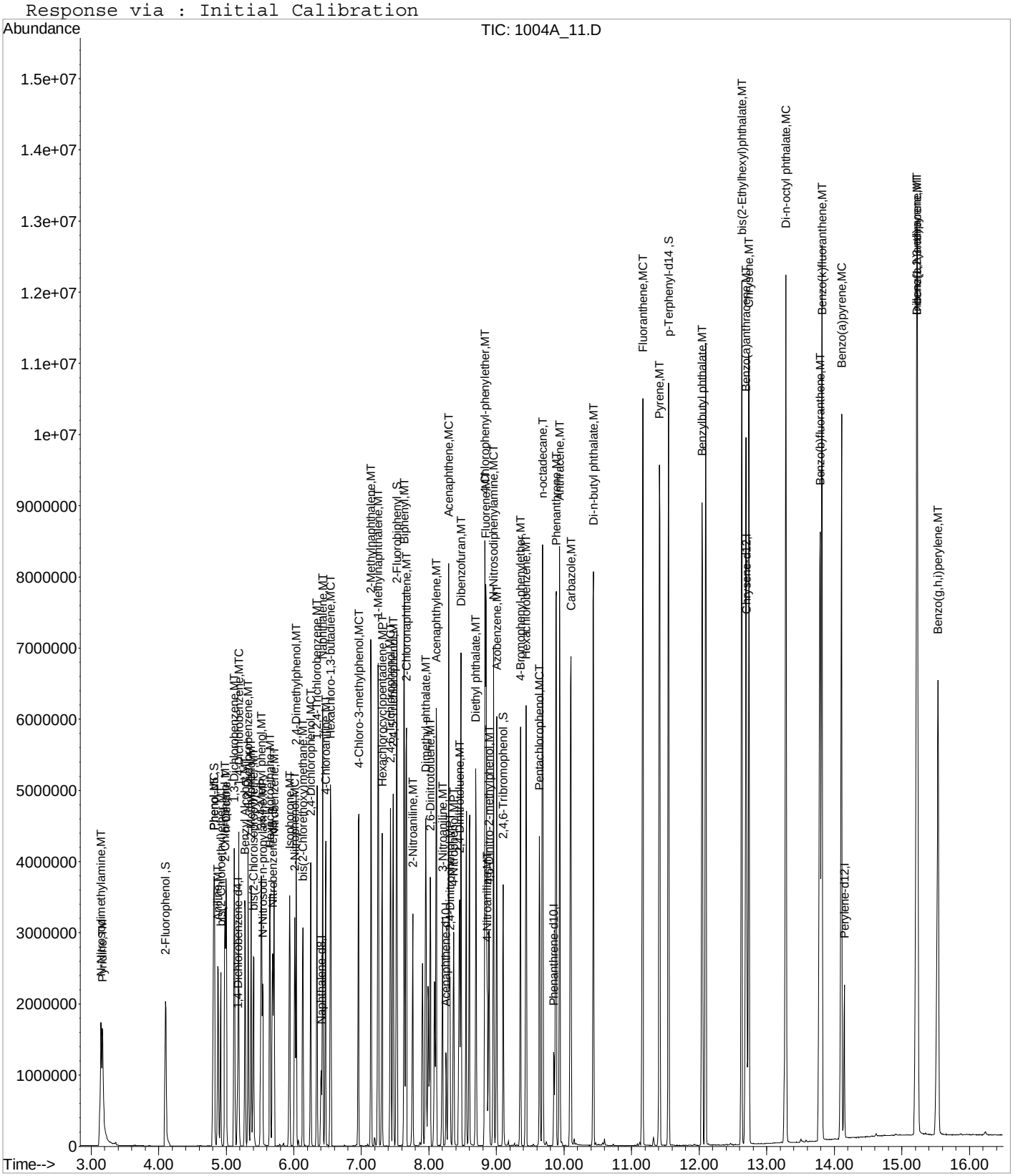
	Compound	R.T.	QIon	Response	Conc Unit		Qvalue
39)	1,2,4,5-Tetrachlorobenzene	0.00	216	0	N.D. d		
41)	Hexachlorocyclopentadiene	7.31	237	636263	47013.3615356 ppb		97
42)	2,4,6-Trichlorophenol	7.43	196	572415	42954.3314765 ppb		98
43)	2,4,5-Trichlorophenol	7.47	196	607643	42317.3457974 ppb		99
45)	Biphenyl	7.64	154	2263346	40017.8708680 ppb		99
46)	2-Chloronaphthalene	7.67	162	1707108	40538.9731782 ppb		99
47)	2-Nitroaniline	7.76	138	587050	42375.0780418 ppb		95
48)	Acenaphthylene	8.11	152	2766746	40006.1735375 ppb		99
49)	Dimethyl phthalate	7.95	163	1977887	40764.4347889 ppb		99
50)	2,6-Dinitrotoluene	8.02	165	461704	40812.2927776 ppb		93
51)	3-Nitroaniline	8.20	138	509033	40950.8648346 ppb		88
52)	Acenaphthene	8.30	153	1845356	39805.2461689 ppb		98
53)	2,4-Dinitrophenol	8.31	184	319334	50393.7264917 ppb	#	49
54)	Dibenzofuran	8.48	168	2516613	40038.5457260 ppb		99
55)	2,4-Dinitrotoluene	8.45	165	640499	42717.8977356 ppb		91
56)	2,3,4,6-Tetrachlorophenol	0.00	232	0	N.D. d		
57)	4-Nitrophenol	8.37	139	418725	41755.3962562 ppb		89
58)	Fluorene	8.84	166	2190489	41906.2969788 ppb		99
59)	4-Chlorophenyl-phenylether	8.83	204	1124143	43984.1492987 ppb		97
60)	Diethyl phthalate	8.70	149	2228824	40487.2006854 ppb		99
61)	4-Nitroaniline	8.87	138	508322	42021.7384055 ppb		97
62)	Azobenzene	9.00	77	2311484	39723.8700611 ppb		96
63)	Atrazine	0.00	200	0	N.D. d		
65)	4,6-Dinitro-2-methylphenol	8.89	198	404198m	44216.1014264 ppb		
66)	N-Nitrosodiphenylamine	8.96	169	1834096	42388.1925399 ppb		99
68)	4-Bromophenyl-phenylether	9.35	248	642616	45077.4907973 ppb		90
69)	Hexachlorobenzene	9.44	284	709276	46127.7708421 ppb		98
70)	n-octadecane	9.68	55	418523	34833.7630785 ppb	#	98
71)	Pentachlorophenol	9.64	266	430664	48643.4909712 ppb		95
72)	Phenanthrene	9.88	178	3226296	40697.8029802 ppb		99
73)	Anthracene	9.94	178	3287012	40816.8600503 ppb		98
74)	Carbazole	10.10	167	3148780	40576.6464852 ppb		99
75)	Di-n-butyl phthalate	10.44	149	4467167	42558.8449564 ppb		100
76)	2-nitrodiphenylamine	0.00	167	0	N.D.		
77)	Fluoranthene	11.17	202	4389303	43871.6150854 ppb		99
79)	Benzidine	0.00	184	0	N.D. d		
80)	Pyrene	11.41	202	4504044	38881.6982774 ppb		99
82)	Benzylbutyl phthalate	12.04	149	2286260	40488.0184827 ppb		99
83)	3,3-Dichlorobenzidine	0.00	252	0	N.D. d		
84)	Benzo(a)anthracene	12.69	228	4563830	40567.3643201 ppb		97
85)	Chrysene	12.74	228	4150791	40685.0697239 ppb		99
86)	bis(2-Ethylhexyl)phthalate	12.63	149	3329670	39497.6602980 ppb		98
87)	Di-n-octyl phthalate	13.28	149	5935677	40133.1837326 ppb		100
89)	Benzo(b)fluoranthene	13.79	252	5073639m	43504.3589905 ppb		
90)	Benzo(k)fluoranthene	13.82	252	4545215m	39978.7623261 ppb		
91)	Benzo(a)pyrene	14.11	252	4806526	41958.2489237 ppb		99
92)	Indeno(1,2,3-cd)pyrene	15.23	276	5533942	39967.5090451 ppb		98
93)	Dibenz(a,h)anthracene	15.22	278	4807527	40873.6093291 ppb		92
94)	Benzo(g,h,i)perylene	15.54	276	4218102	37541.7318288 ppb		98

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\100414A\1004A 11.D Vial: 9
Acq On : 4 Oct 2014 4:01 pm Operator: 280
Sample : STD SVMS 40K PPB 14G09881 Inst : BNAMS11
Misc : 8270 Primary Calibration Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 4 18:25 2014 Quant Results File: S811J04N.RES

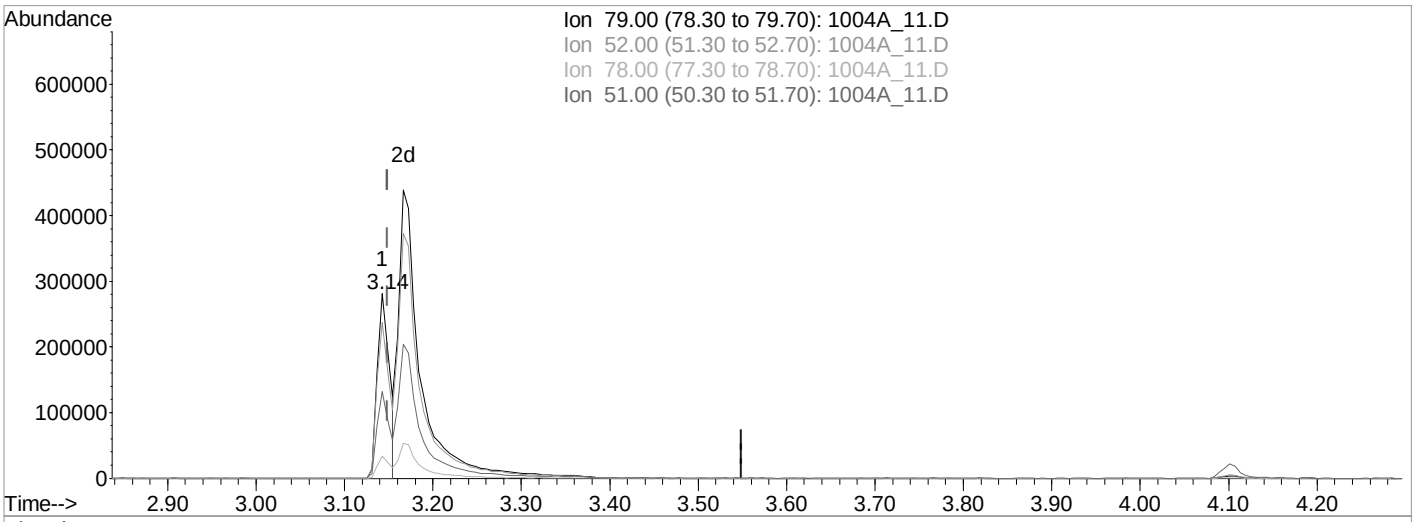
Method : C:\MSDCHEM\1\METHODS\S811J04N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Sat Oct 04 18:23:19 2014
Response via : Initial Calibration

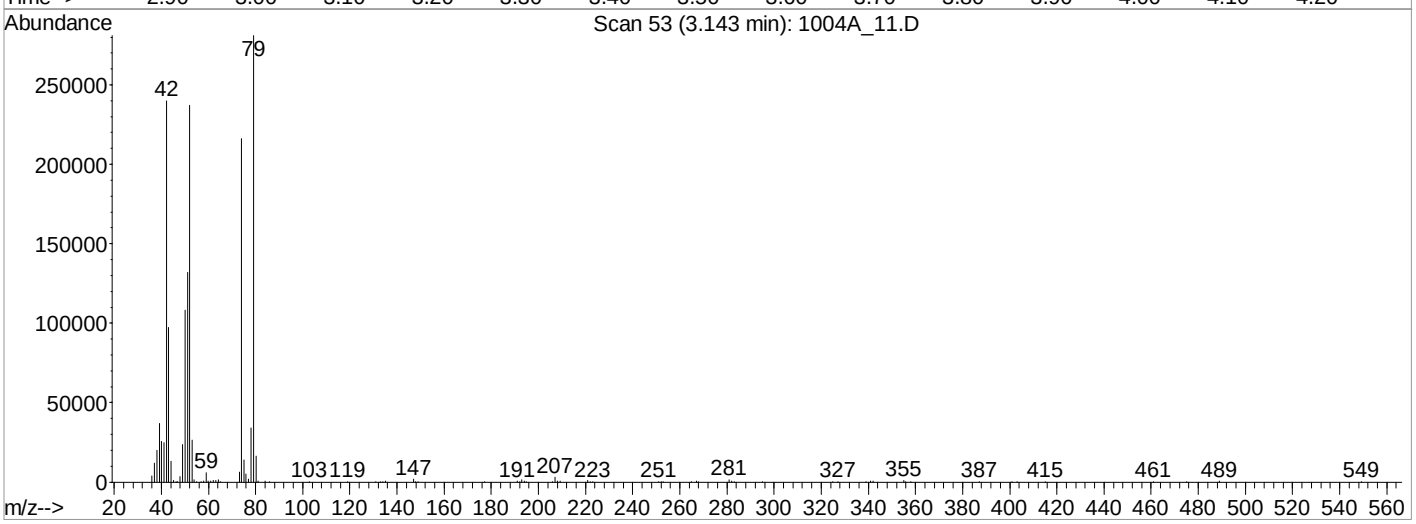


Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\100414A\1004A 11.D Vial: 9
Acq On : 4 Oct 2014 4:01 pm Operator: 280
Sample : STD SVMS 40K PPB 14G09881 Inst : BNAMS11
Misc : 8270 Primary Calibration Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 4 18:23 2014 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\S811J04N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Sat Oct 04 18:23:19 2014
Response via : Multiple Level Calibration





TIC: 1004A_11.D

(2) Pyridine (TM)

3.14min (-0.006) 9366.4060041 ppb

Qvalue = 95

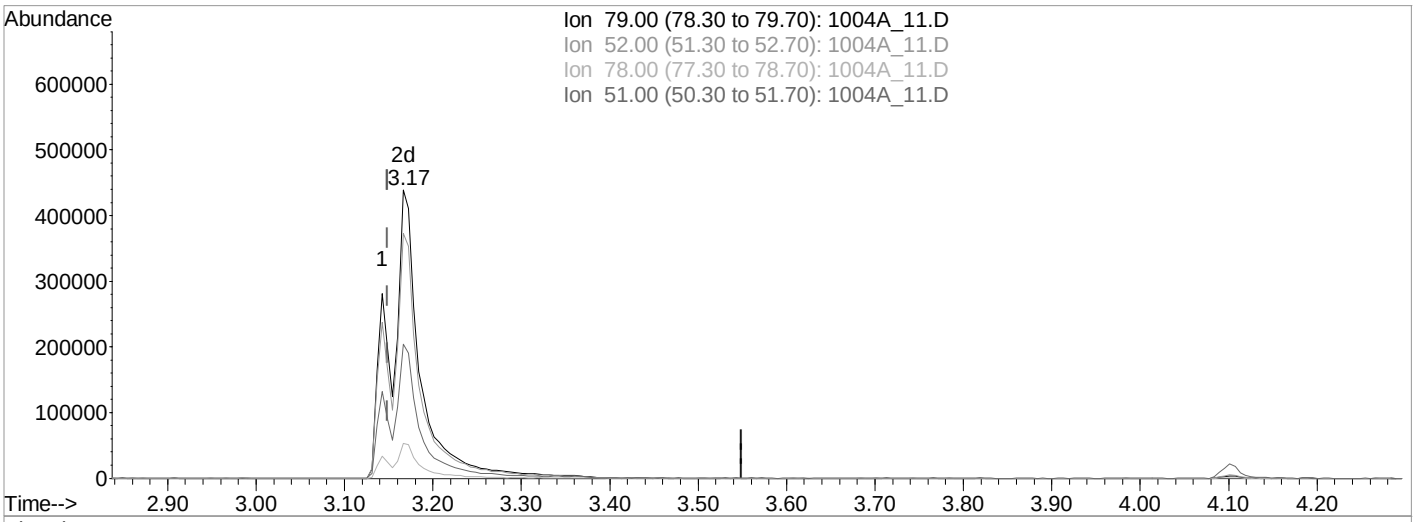
response 276788

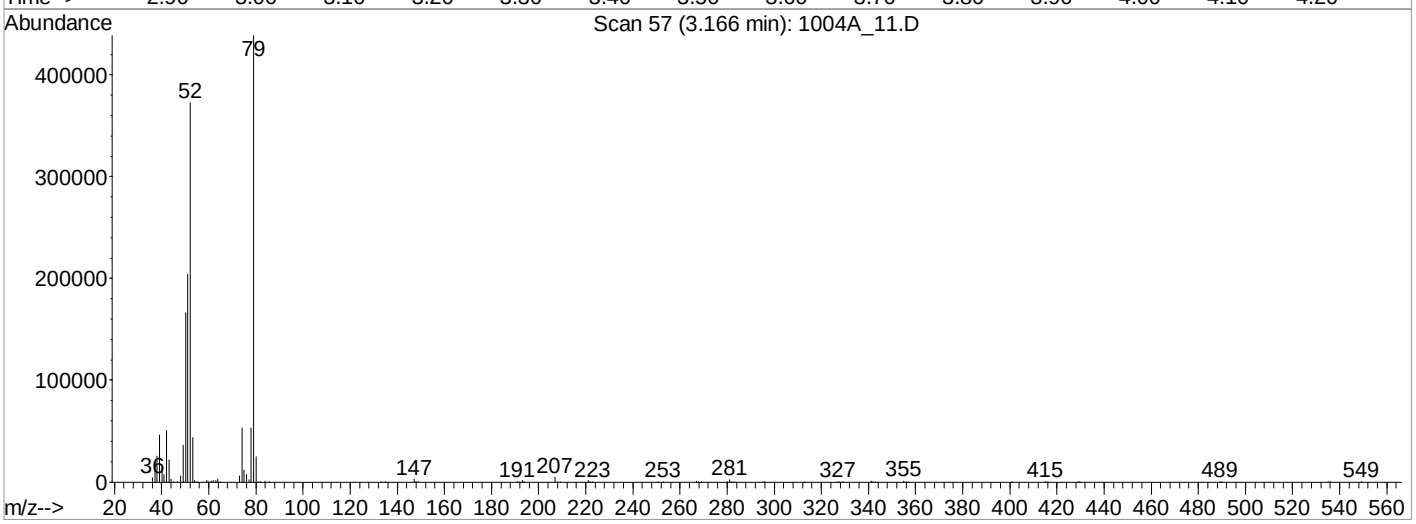
Ion	Exp%	Act%
79.00	100	100
52.00	89.70	84.27
78.00	12.30	12.06
51.00	50.50	46.80

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\100414A\1004A 11.D Vial: 9
Acq On : 4 Oct 2014 4:01 pm Operator: 280
Sample : STD SVMS 40K PPB 14G09881 Inst : BNAMS11
Misc : 8270 Primary Calibration Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 4 18:23 2014 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\S811J04N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Sat Oct 04 18:23:19 2014
Response via : Multiple Level Calibration





TIC: 1004A_11.D

(2) Pyridine (TM)

3.17min (+0.018) 35465.5321523 ppb m

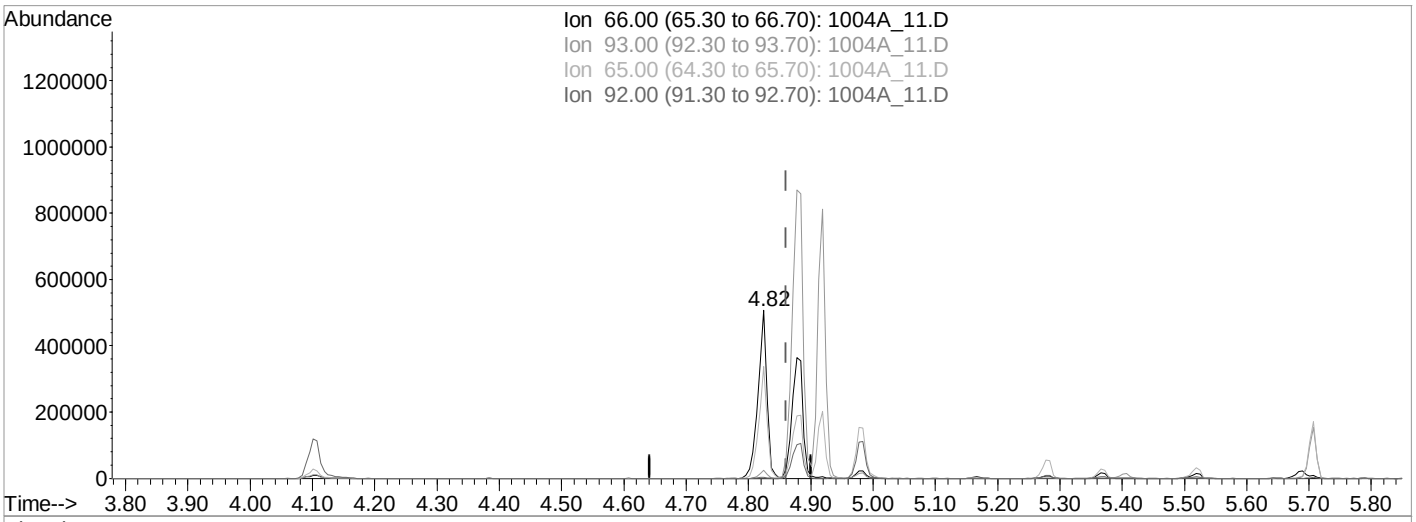
response 1048047

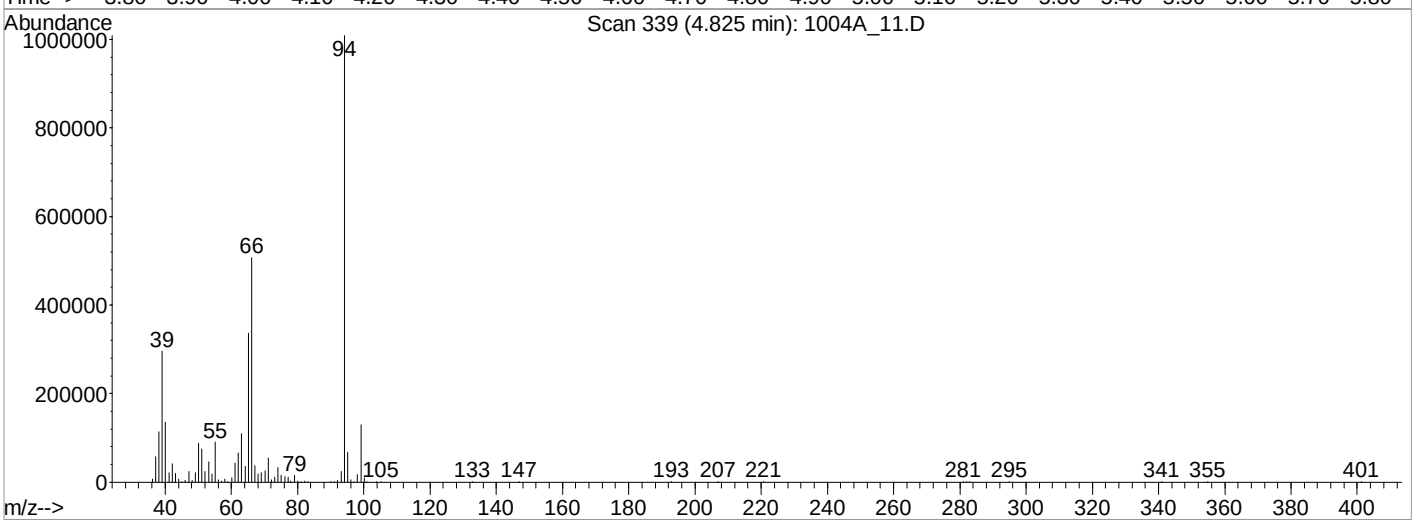
Ion	Exp%	Act%
79.00	100	100
52.00	89.70	84.94
78.00	12.30	12.07
51.00	50.50	46.43

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\100414A\1004A 11.D Vial: 9
Acq On : 4 Oct 2014 4:01 pm Operator: 280
Sample : STD SVMS 40K PPB 14G09881 Inst : BNAMS11
Misc : 8270 Primary Calibration Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 4 18:23 2014 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\S811J04N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Sat Oct 04 18:23:19 2014
Response via : Multiple Level Calibration





TIC: 1004A_11.D

(5) Aniline (MT)

4.82min (-0.035) 44031.1597385 ppb

Qvalue = 1

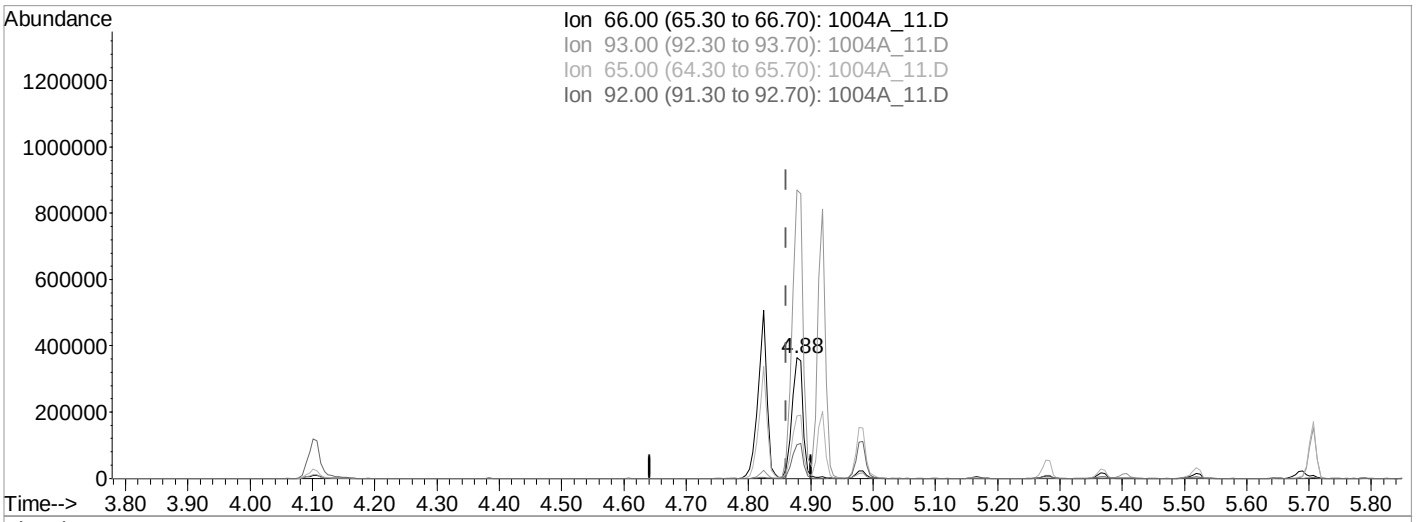
response 510389

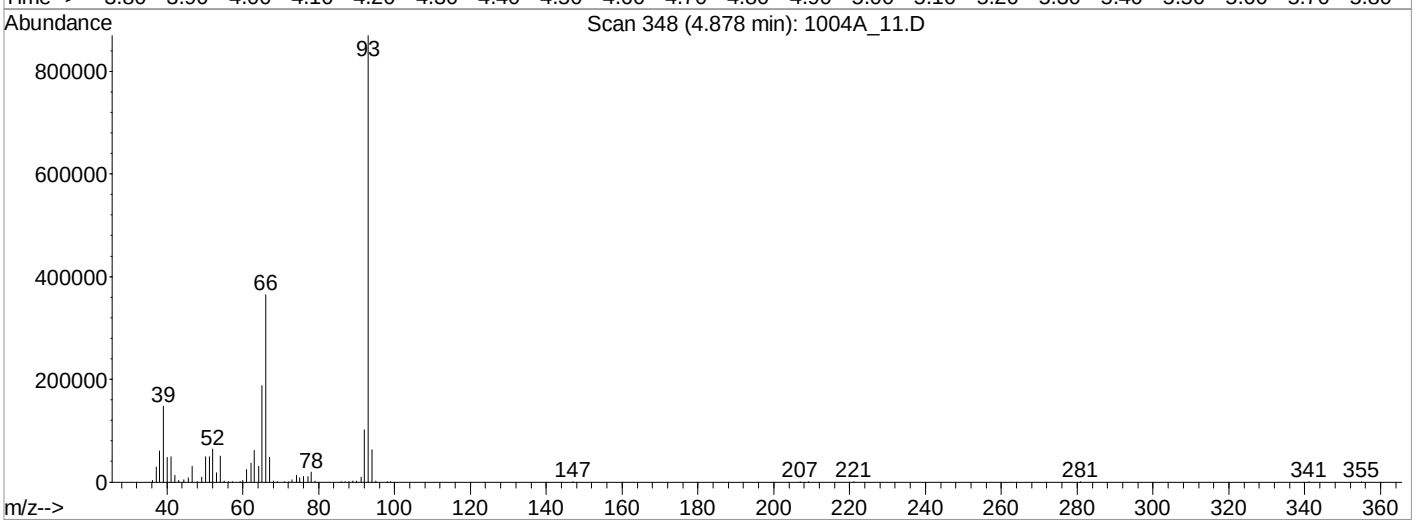
Ion	Exp%	Act%
66.00	100	100
93.00	226.20	0.00#
65.00	51.10	61.96#
92.00	28.60	0.00#

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\100414A\1004A 11.D Vial: 9
Acq On : 4 Oct 2014 4:01 pm Operator: 280
Sample : STD SVMS 40K PPB 14G09881 Inst : BNAMS11
Misc : 8270 Primary Calibration Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 4 18:24 2014 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\S811J04N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Sat Oct 04 18:23:19 2014
Response via : Multiple Level Calibration





TIC: 1004A_11.D

(5) Aniline (MT)

4.88min (+0.018) 38835.0430859 ppb m

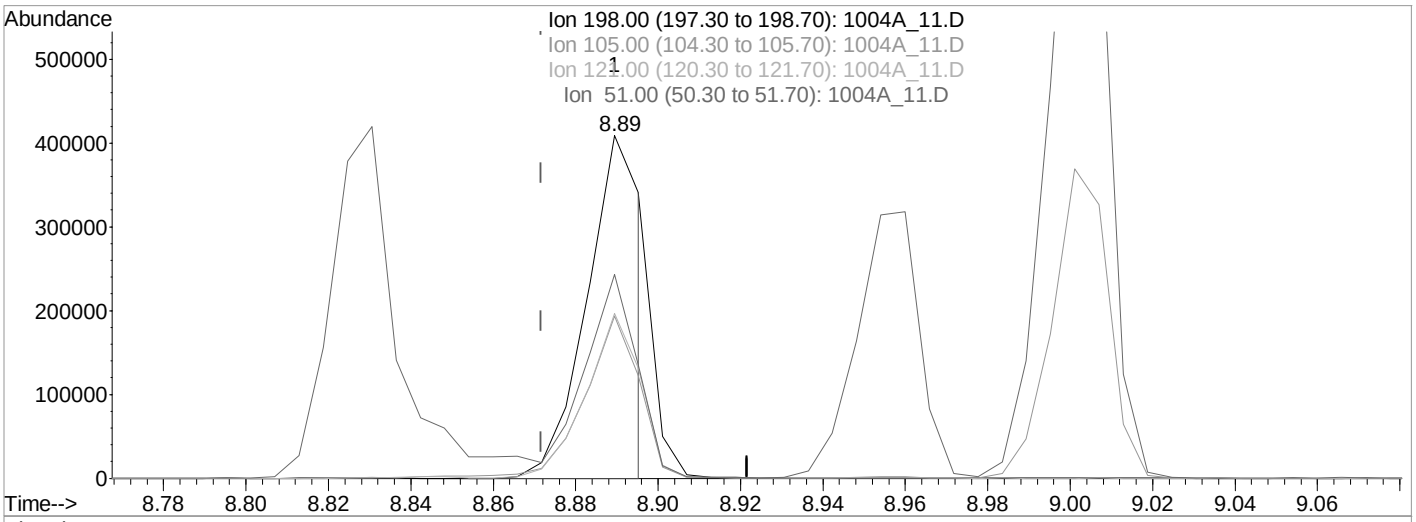
response 450158

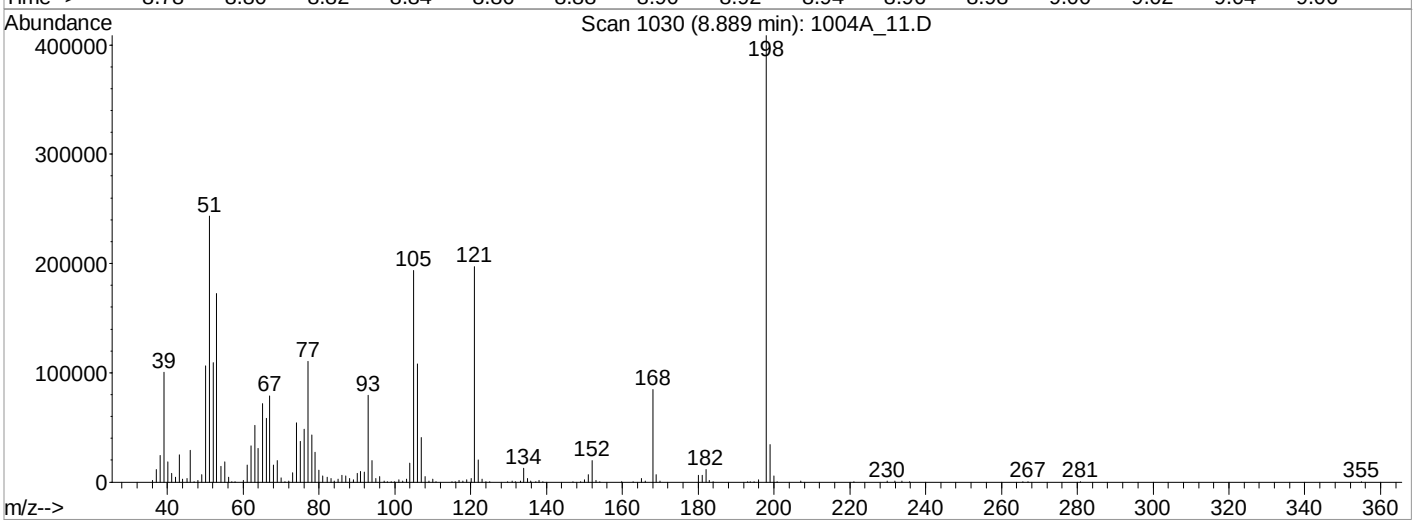
Ion	Exp%	Act%
66.00	100	100
93.00	226.20	0.00#
65.00	51.10	70.25#
92.00	28.60	0.00#

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\100414A\1004A 11.D Vial: 9
Acq On : 4 Oct 2014 4:01 pm Operator: 280
Sample : STD SVMS 40K PPB 14G09881 Inst : BNAMS11
Misc : 8270 Primary Calibration Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 4 18:24 2014 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\S811J04N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Sat Oct 04 18:23:19 2014
Response via : Multiple Level Calibration





TIC: 1004A_11.D

(65) 4,6-Dinitro-2-methylphenol (MT)

8.89min (+0.018) 42045.1041704 ppb

Qvalue = 90

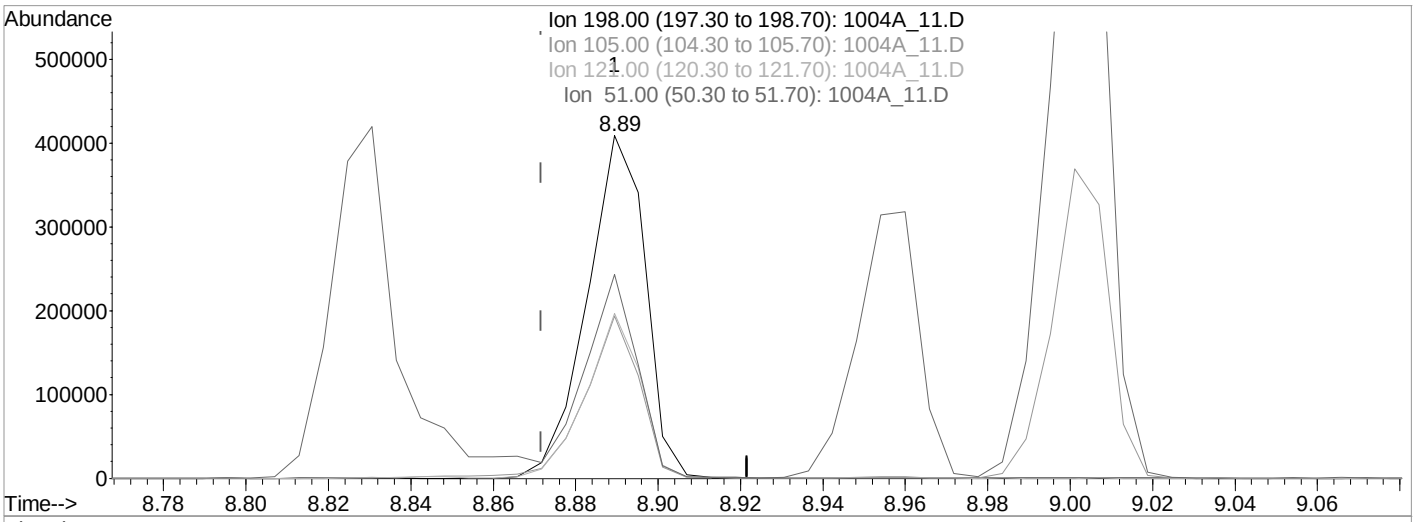
response 384352

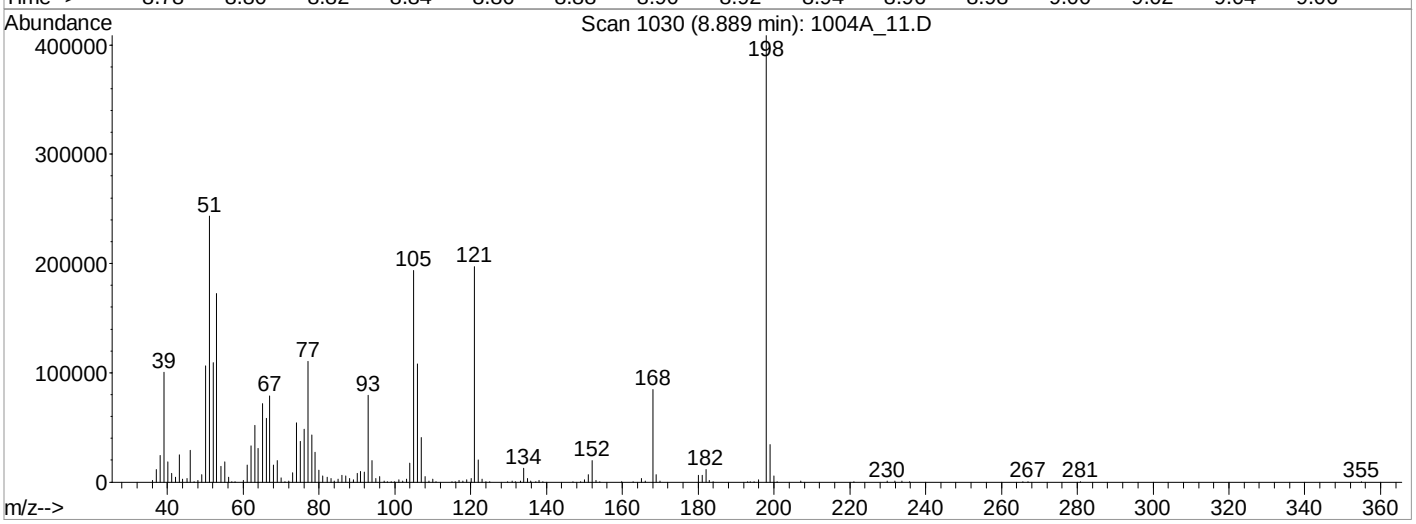
Ion	Exp%	Act%
198.00	100	100
105.00	50.50	46.58
121.00	51.90	48.07
51.00	67.50	53.22

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\100414A\1004A 11.D Vial: 9
Acq On : 4 Oct 2014 4:01 pm Operator: 280
Sample : STD SVMS 40K PPB 14G09881 Inst : BNAMS11
Misc : 8270 Primary Calibration Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 4 18:24 2014 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\S811J04N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Sat Oct 04 18:23:19 2014
Response via : Multiple Level Calibration





TIC: 1004A_11.D

(65) 4,6-Dinitro-2-methylphenol (MT)

8.89min (+0.018) 44216.1014264 ppb m

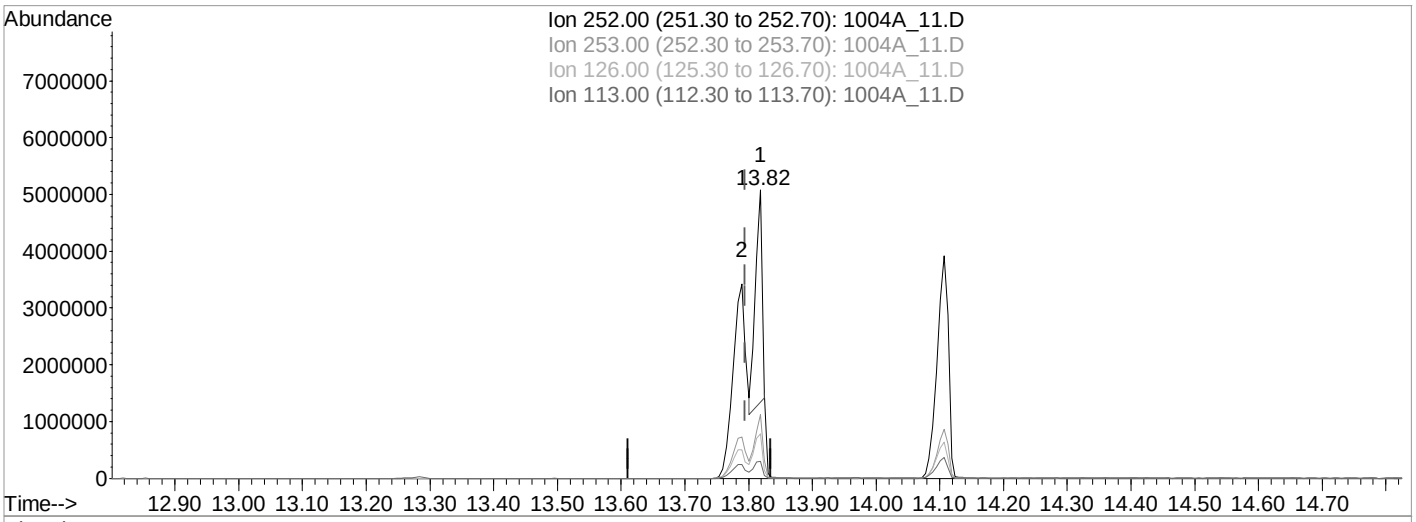
response 404198

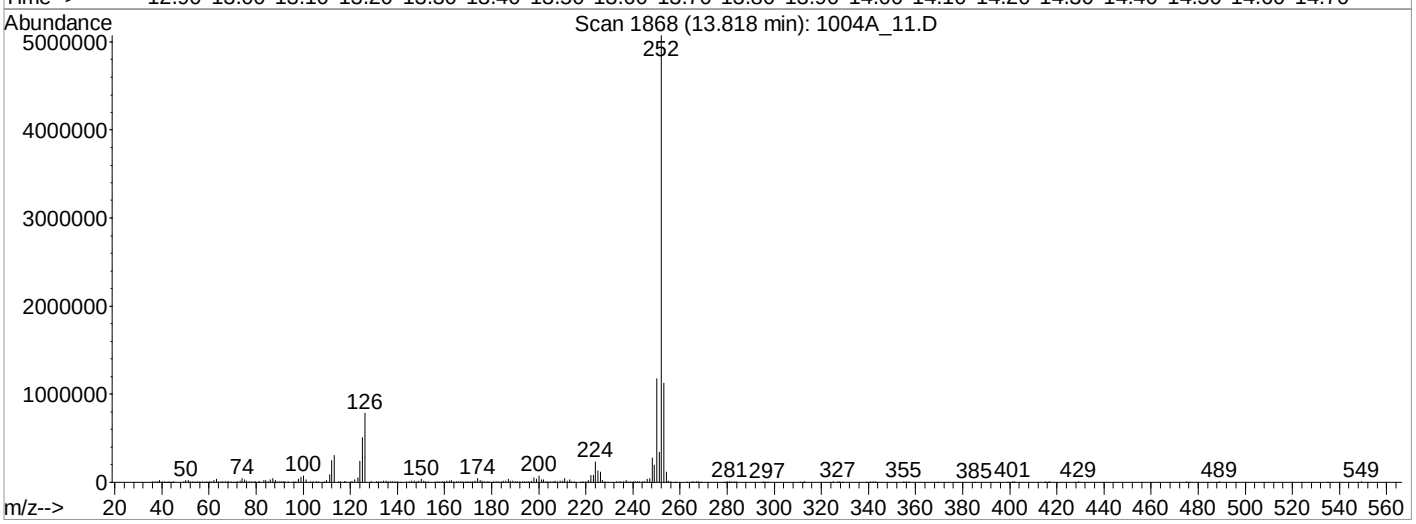
Ion	Exp%	Act%
198.00	100	100
105.00	50.50	47.29
121.00	51.90	48.18
51.00	67.50	59.58

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\100414A\1004A 11.D Vial: 9
Acq On : 4 Oct 2014 4:01 pm Operator: 280
Sample : STD SVMS 40K PPB 14G09881 Inst : BNAMS11
Misc : 8270 Primary Calibration Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 4 18:24 2014 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\S811J04N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Sat Oct 04 18:23:19 2014
Response via : Multiple Level Calibration





TIC: 1004A_11.D

(89) Benzo(b)fluoranthene (MT)

13.82min (+0.024) 23205.3361899 ppb

Qvalue = 98

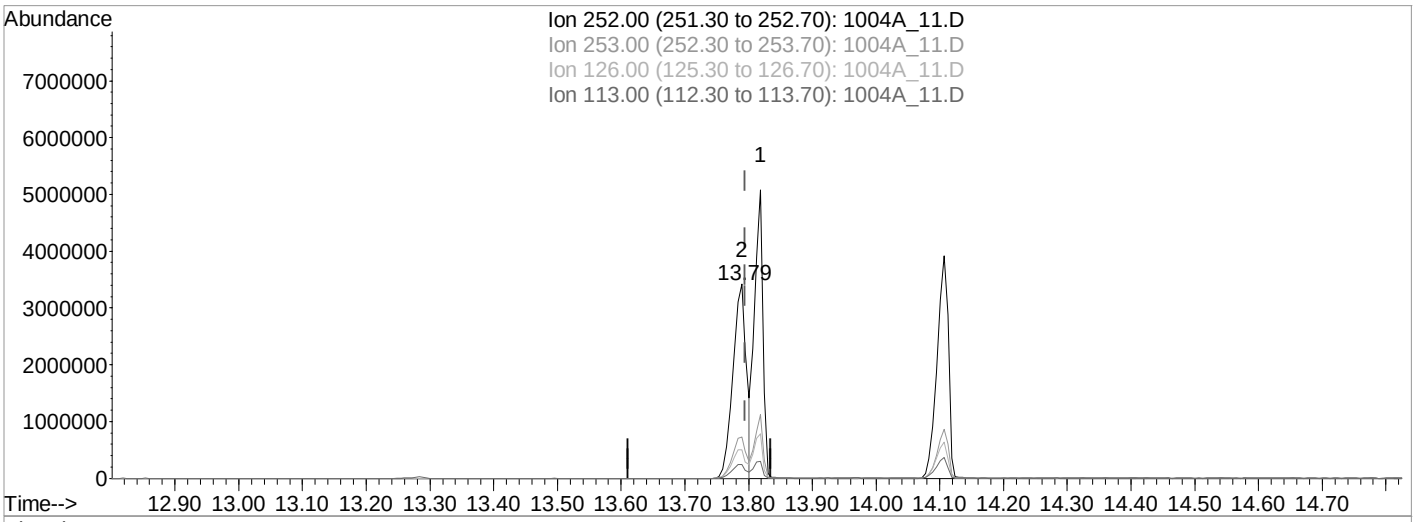
response 2706292

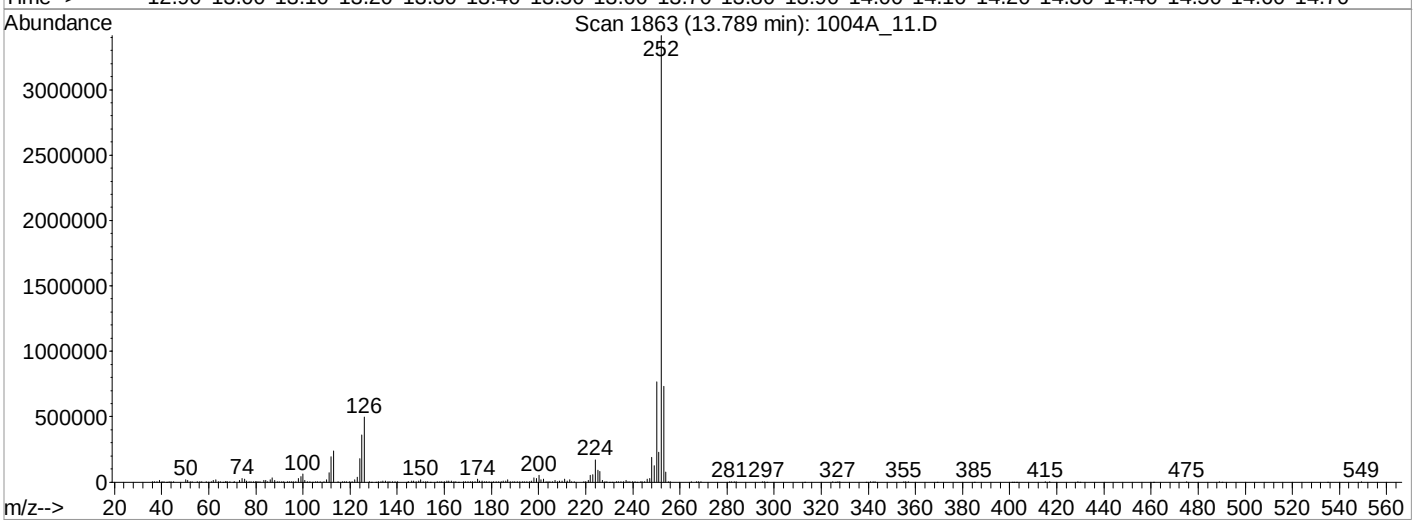
Ion	Exp%	Act%
252.00	100	100
253.00	21.20	22.49
126.00	16.00	16.31
113.00	7.90	6.24

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\100414A\1004A 11.D Vial: 9
Acq On : 4 Oct 2014 4:01 pm Operator: 280
Sample : STD SVMS 40K PPB 14G09881 Inst : BNAMS11
Misc : 8270 Primary Calibration Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 4 18:25 2014 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\S811J04N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Sat Oct 04 18:23:19 2014
Response via : Multiple Level Calibration





TIC: 1004A_11.D

(89) Benzo(b)fluoranthene (MT)

13.79min (-0.006) 43504.3589905 ppb m

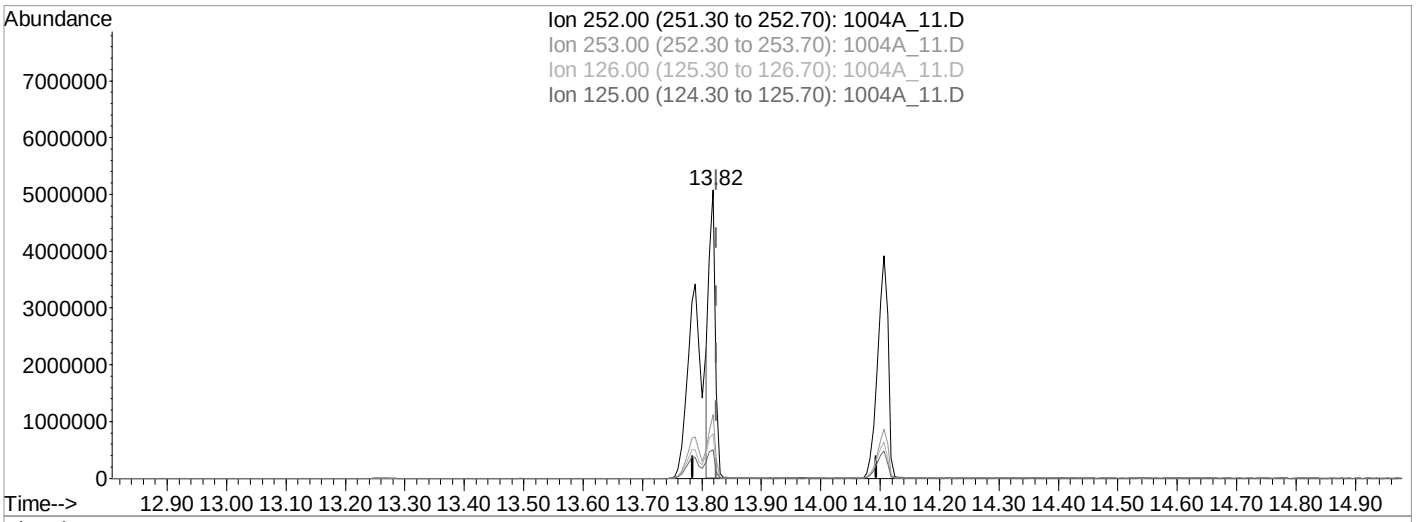
response 5073639

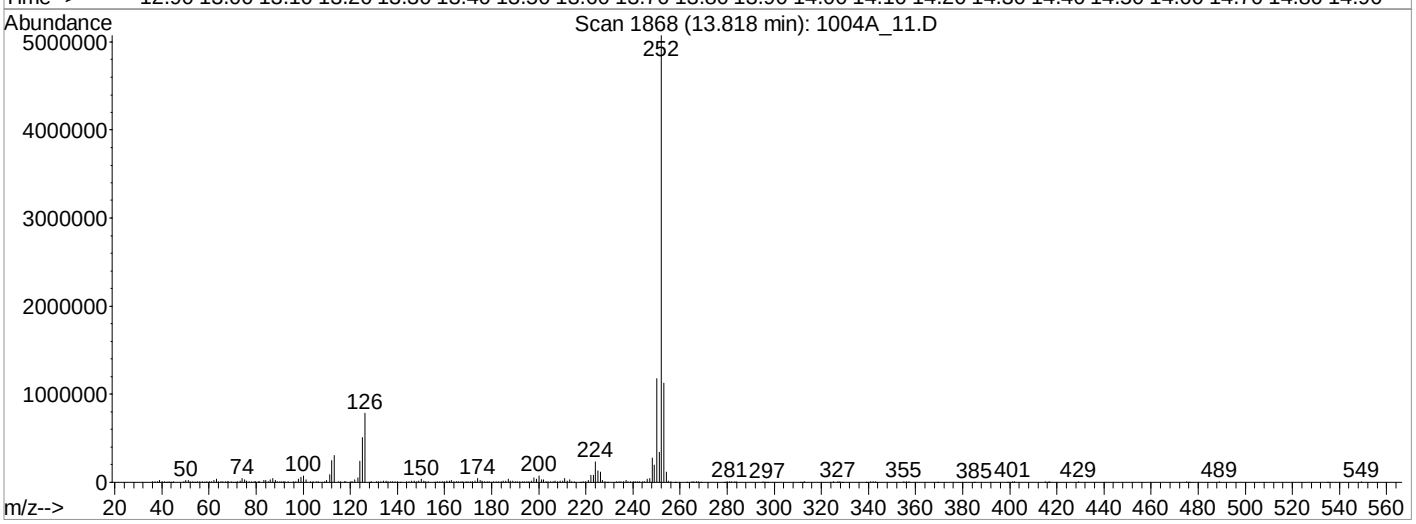
Ion	Exp%	Act%
252.00	100	100
253.00	21.20	21.44
126.00	16.00	14.54
113.00	7.90	6.96

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\100414A\1004A 11.D Vial: 9
Acq On : 4 Oct 2014 4:01 pm Operator: 280
Sample : STD SVMS 40K PPB 14G09881 Inst : BNAMS11
Misc : 8270 Primary Calibration Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 4 18:25 2014 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\S811J04N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Sat Oct 04 18:23:19 2014
Response via : Multiple Level Calibration





TIC: 1004A_11.D

(90) Benzo(k)fluoranthene (MT)

13.82min (-0.006) 32984.7889137 ppb

Qvalue = 99

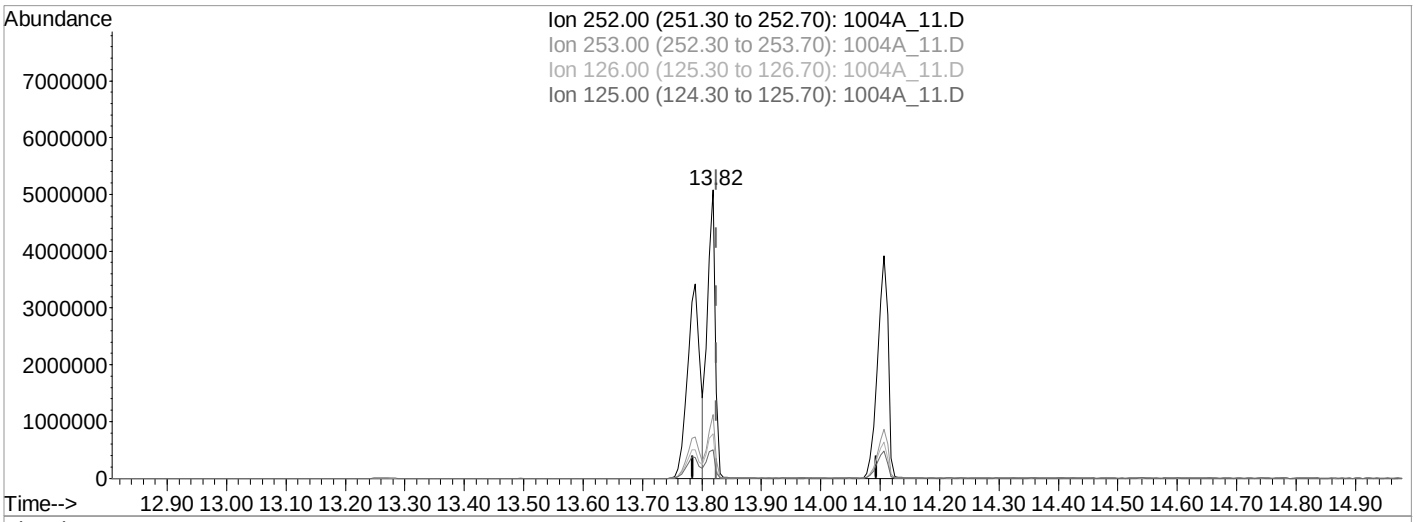
response 3750065

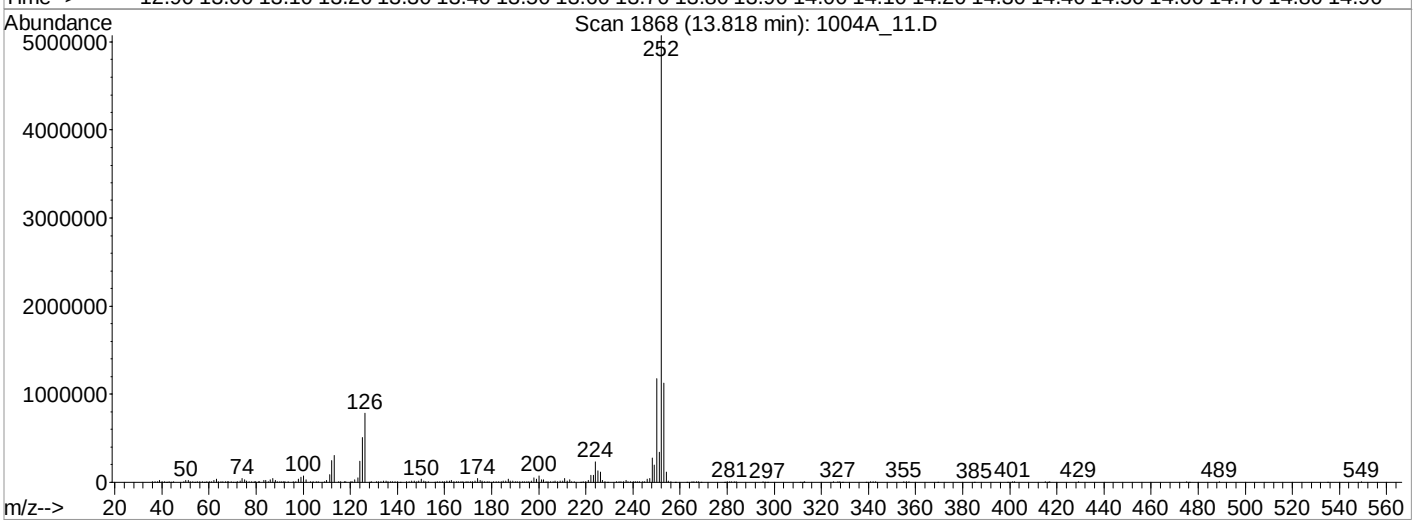
Ion	Exp%	Act%
252.00	100	100
253.00	21.60	22.14
126.00	15.70	15.36
125.00	11.00	9.98

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\100414A\1004A 11.D Vial: 9
Acq On : 4 Oct 2014 4:01 pm Operator: 280
Sample : STD SVMS 40K PPB 14G09881 Inst : BNAMS11
Misc : 8270 Primary Calibration Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 4 18:25 2014 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\S811J04N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Sat Oct 04 18:23:19 2014
Response via : Multiple Level Calibration





TIC: 1004A_11.D

(90) Benzo(k)fluoranthene (MT)

13.82min (-0.006) 39978.7623261 ppb m

response 4545215

Ion	Exp%	Act%
252.00	100	100
253.00	21.60	22.15
126.00	15.70	15.37
125.00	11.00	9.99

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\100414A\1004A 12.D Vial: 10
Acq On : 4 Oct 2014 4:23 pm Operator: 280
Sample : STD SVMS 50K PPB 14G09881 Inst : BNAMS11
Misc : 8270 Primary Calibration Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 4 18:28 2014 Quant Results File: S811J04N.RES

Quant Method : C:\MSDCHEM\1\METHODS\S811J04N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Sat Oct 04 18:04:37 2014
Response via : Initial Calibration
DataAcq Meth : BNA11

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	5.17	152	106017	8000.00 ppb	0.00
22) Naphthalene-d8	6.41	136	437843	8000.00 ppb	0.00
40) Acenaphthene-d10	8.26	164	272566	8000.00 ppb	0.01
64) Phenanthrene-d10	9.85	188	522155	8000.00 ppb	0.00
78) Chrysene-d12	12.71	240	648888	8000.00 ppb	0.02
88) Perylene-d12	14.15	264	741090	8000.00 ppb	0.01

System Monitoring Compounds					
4) 2-Fluorophenol	4.11	112	873554	48450.3988363 ppb	0.02
Spiked Amount 20.000	Range 10 - 74		Recovery = 242251.99%#		
7) Phenol-d5	4.82	99	1096294	47564.3748595 ppb	0.02
Spiked Amount 20.000	Range 10 - 63		Recovery = 237821.87%#		
23) Nitrobenzene-d5	5.69	82	1098976	48267.3360343 ppb	0.02
Spiked Amount 10.000	Range 28 - 123		Recovery = 482673.36%#		
44) 2-Fluorobiphenyl	7.52	172	2517327	50495.0190773 ppb	0.00
Spiked Amount 10.000	Range 35 - 133		Recovery = 504950.19%#		
67) 2,4,6-Tribromophenol	9.11	330	416874	63727.8370549 ppb	0.01
Spiked Amount 20.000	Range 22 - 154		Recovery = 318639.19%#		
81) p-Terphenyl-d14	11.55	244	4385247	51964.4603136 ppb	0.00
Spiked Amount 10.000	Range 30 - 148		Recovery = 519644.60%#		

Target Compounds					Qvalue
2) Pyridine	3.17	79	1300299m	43742.6617353 ppb	
3) N-Nitrosodimethylamine	3.15	42	820664	40710.1280725 ppb	93
5) Aniline	4.88	66	558510m	47898.9538631 ppb	
6) bis(2-Chloroethyl)ether	4.92	63	668953	43723.3349172 ppb	96
8) Phenol	4.83	94	1105198	47271.4866989 ppb	96
9) Benzaldehyde	0.00	105	0	N.D. d	
10) 2-Chlorophenol	4.98	128	972675	49553.8276364 ppb	96
11) n-Decane	5.00	41	613104	40855.6979908 ppb	94
12) 1,3-Dichlorobenzene	5.12	146	1107977	50391.9393311 ppb	99
13) 1,4-Dichlorobenzene	5.18	146	1112169	49134.7797685 ppb	98
14) Benzyl Alcohol	5.28	79	885473	47022.9963814 ppb	98
15) 1,2-Dichlorobenzene	5.32	146	1044217	50293.7499214 ppb	98
16) bis(2-Chloroisopropyl)ethe	5.41	121	301359	47246.7600539 ppb	95
17) 2-Methylphenol	5.37	108	839842	48790.2639815 ppb	95
18) Hexachloroethane	5.65	117	493882	47952.8422050 ppb	89
19) N-Nitrosodi-n-propylamine	5.54	70	711371	48135.7252629 ppb	88
20) 3&4-Methyl phenol	5.52	107	971486	47643.3006236 ppb	93
21) Acetophenone	0.00	105	0	N.D. d	
24) Nitrobenzene	5.71	77	1102707	49623.3724815 ppb	95
25) Isophorone	5.94	82	1809845	48065.3392697 ppb	99
26) 2-Nitrophenol	6.02	139	561323	53564.8846541 ppb	91
27) 2,4-Dimethylphenol	6.04	107	1059705	50854.7063679 ppb	99
28) bis(2-Chlorethoxy)methane	6.14	93	1123990	48382.0486698 ppb	95
29) 2,4-Dichlorophenol	6.25	162	884560	53648.4701648 ppb	94
30) Benzoic Acid	0.00	105	0	N.D. d	
31) 1,2,4-Trichlorobenzene	6.34	180	1027704	53814.3282472 ppb	98
32) Naphthalene	6.43	128	3028620	50395.3894524 ppb	99
33) 4-Chloroaniline	6.47	65	419310	46943.5355576 ppb	91
34) Hexachloro-1,3-butadiene	6.55	225	703399	55756.2948795 ppb	99
35) Caprolactam	0.00	113	0	N.D. d	
36) 4-Chloro-3-methylphenol	6.96	107	1014358	51174.1887639 ppb	100
37) 2-Methylnaphthalene	7.15	142	2282499	51835.5809673 ppb	99
38) 1-Methylnaphthalene	7.25	142	2084707	51593.8016287 ppb	99

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\100414A\1004A 12.D Vial: 10
Acq On : 4 Oct 2014 4:23 pm Operator: 280
Sample : STD SVMS 50K PPB 14G09881 Inst : BNAMS11
Misc : 8270 Primary Calibration Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 4 18:28 2014 Quant Results File: S811J04N.RES

Quant Method : C:\MSDCHEM\1\METHODS\S811J04N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Sat Oct 04 18:04:37 2014
Response via : Initial Calibration
DataAcq Meth : BNA11

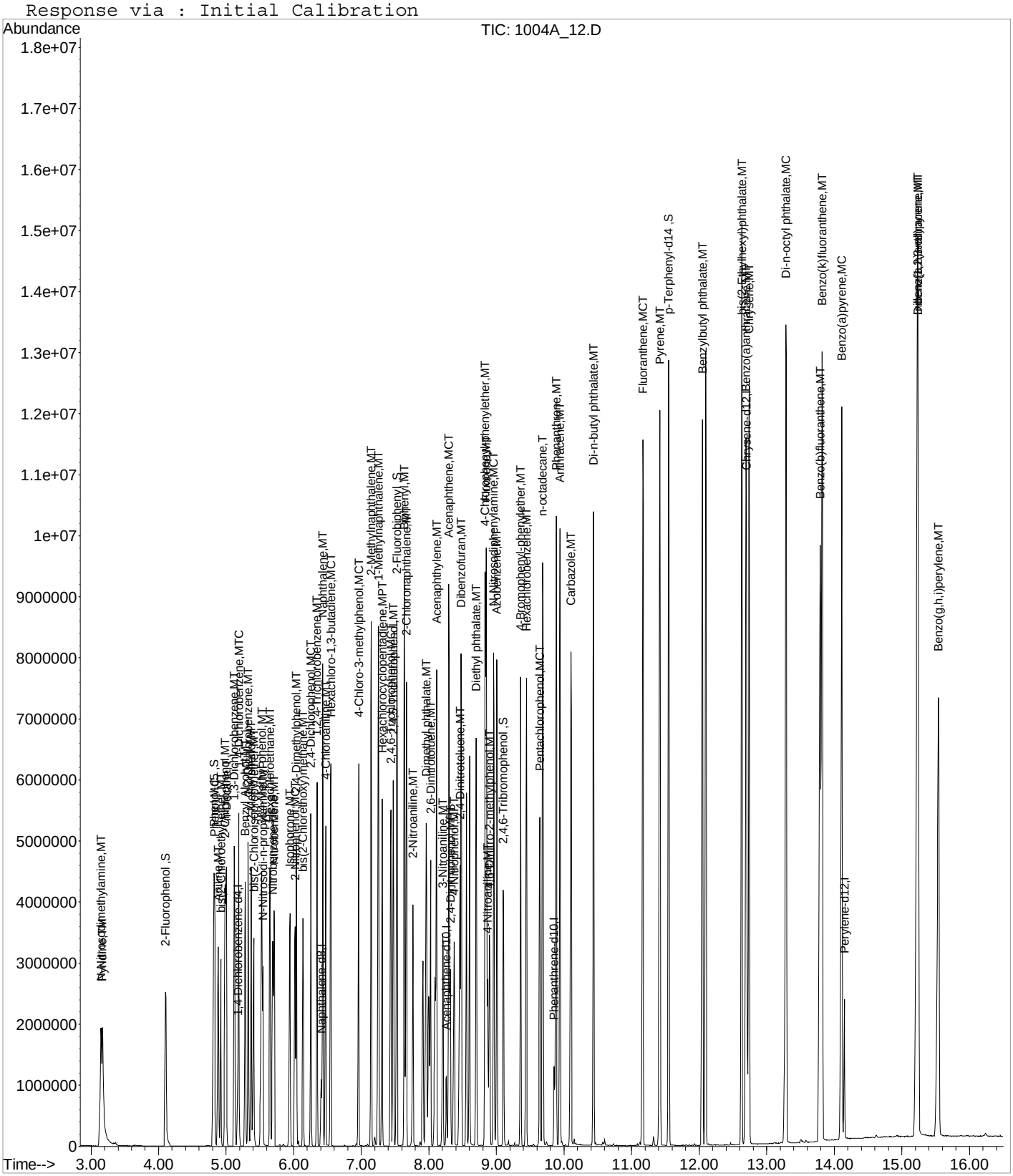
	Compound	R.T.	QIon	Response	Conc Unit		Qvalue
39)	1,2,4,5-Tetrachlorobenzene	0.00	216	0	N.D. d		
41)	Hexachlorocyclopentadiene	7.31	237	807250	60703.6689783 ppb		97
42)	2,4,6-Trichlorophenol	7.44	196	711856	54363.8692622 ppb		95
43)	2,4,5-Trichlorophenol	7.47	196	728760	51650.7579917 ppb		99
45)	Biphenyl	7.64	154	2765863	49768.6595854 ppb		100
46)	2-Chloronaphthalene	7.67	162	2062245	49839.5665814 ppb		98
47)	2-Nitroaniline	7.77	138	708014	52011.5163047 ppb		95
48)	Acenaphthylene	8.11	152	3402836	50075.0041004 ppb		100
49)	Dimethyl phthalate	7.96	163	2455854	51511.5650043 ppb		98
50)	2,6-Dinitrotoluene	8.02	165	565932	50911.2615578 ppb		94
51)	3-Nitroaniline	8.21	138	622263	50946.3845543 ppb		98
52)	Acenaphthene	8.30	153	2273223	49902.7461345 ppb		99
53)	2,4-Dinitrophenol	8.32	184	398662	64026.3000799 ppb	#	50
54)	Dibenzofuran	8.48	168	3148545	50979.3172521 ppb		99
55)	2,4-Dinitrotoluene	8.46	165	783631	53189.4224790 ppb		97
56)	2,3,4,6-Tetrachlorophenol	0.00	232	0	N.D. d		
57)	4-Nitrophenol	8.37	139	518457	52616.1069714 ppb		91
58)	Fluorene	8.85	166	2698511	52539.3449214 ppb		98
59)	4-Chlorophenyl-phenylether	8.83	204	1397064	55630.5289020 ppb		96
60)	Diethyl phthalate	8.70	149	2761275	51047.4305239 ppb		98
61)	4-Nitroaniline	8.87	138	625685	52639.6633476 ppb		97
62)	Azobenzene	9.01	77	2871317	50218.5367571 ppb		96
63)	Atrazine	0.00	200	0	N.D. d		
65)	4,6-Dinitro-2-methylphenol	8.90	198	499914m	56707.2908417 ppb		
66)	N-Nitrosodiphenylamine	8.96	169	2266381	54314.1601033 ppb		99
68)	4-Bromophenyl-phenylether	9.36	248	816830	59415.1491340 ppb		98
69)	Hexachlorobenzene	9.44	284	886748	59800.4887135 ppb		96
70)	n-octadecane	9.68	55	504655	43554.4924597 ppb		97
71)	Pentachlorophenol	9.64	266	552599	64722.2449627 ppb		99
72)	Phenanthrene	9.88	178	4010930	52464.9364021 ppb		98
73)	Anthracene	9.94	178	4021648	51784.4861711 ppb		99
74)	Carbazole	10.10	167	3865093	51647.7128361 ppb		100
75)	Di-n-butyl phthalate	10.44	149	5511714	54450.4698154 ppb		100
76)	2-nitrodiphenylamine	0.00	167	0	N.D. d		
77)	Fluoranthene	11.17	202	5431848	56298.0020167 ppb		98
79)	Benzidine	0.00	184	0	N.D. d		
80)	Pyrene	11.42	202	5652328	49425.6755603 ppb		99
82)	Benzylbutyl phthalate	12.05	149	2838692	50921.5758795 ppb		97
83)	3,3-Dichlorobenzidine	0.00	252	0	N.D. d		
84)	Benzo(a)anthracene	12.70	228	5609806	50510.0540399 ppb		97
85)	Chrysene	12.74	228	5150917	51141.2580367 ppb		98
86)	bis(2-Ethylhexyl)phthalate	12.63	149	4161360	50002.0859752 ppb		99
87)	Di-n-octyl phthalate	13.28	149	7300898	50002.5659538 ppb		100
89)	Benzo(b)fluoranthene	13.79	252	6121603m	53197.1557174 ppb		
90)	Benzo(k)fluoranthene	13.82	252	5882866m	52441.3556836 ppb		
91)	Benzo(a)pyrene	14.11	252	5929308	52456.5966240 ppb		98
92)	Indeno(1,2,3-cd)pyrene	15.24	276	6706156	49085.8336373 ppb		97
93)	Dibenz(a,h)anthracene	15.24	278	5848308	50391.9929570 ppb		89
94)	Benzo(g,h,i)perylene	15.54	276	5026207	45336.4631950 ppb		98

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\100414A\1004A 12.D Vial: 10
Acq On : 4 Oct 2014 4:23 pm Operator: 280
Sample : STD SVMS 50K PPB 14G09881 Inst : BNAMS11
Misc : 8270 Primary Calibration Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 4 18:28 2014 Quant Results File: S811J04N.RES

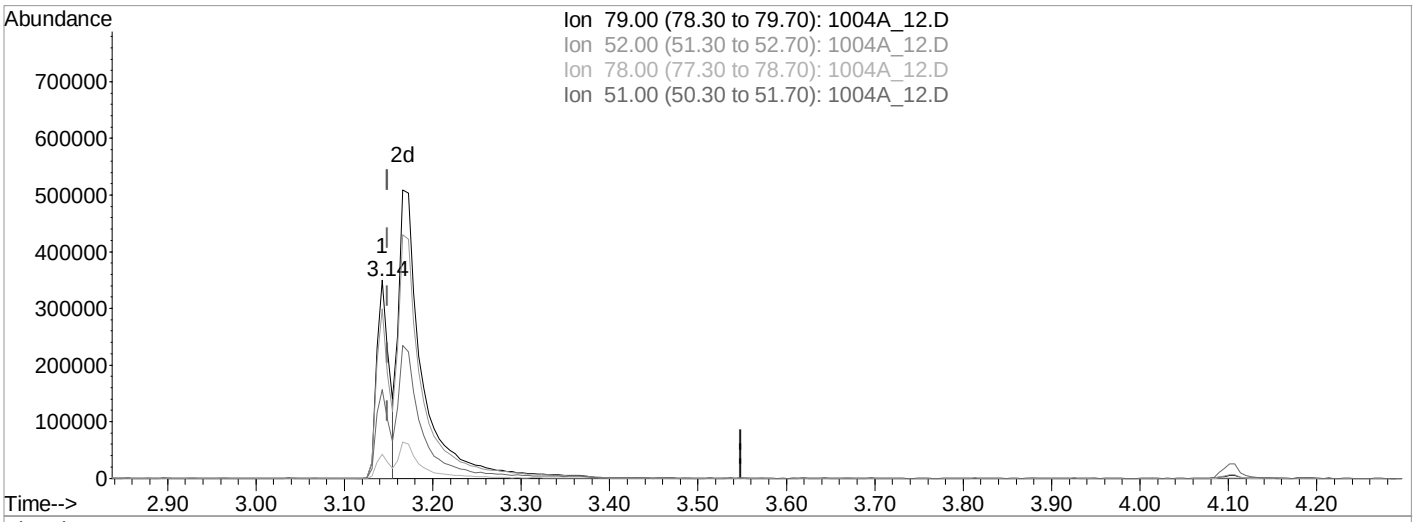
Method : C:\MSDCHEM\1\METHODS\S811J04N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Sat Oct 04 18:25:52 2014
Response via : Initial Calibration

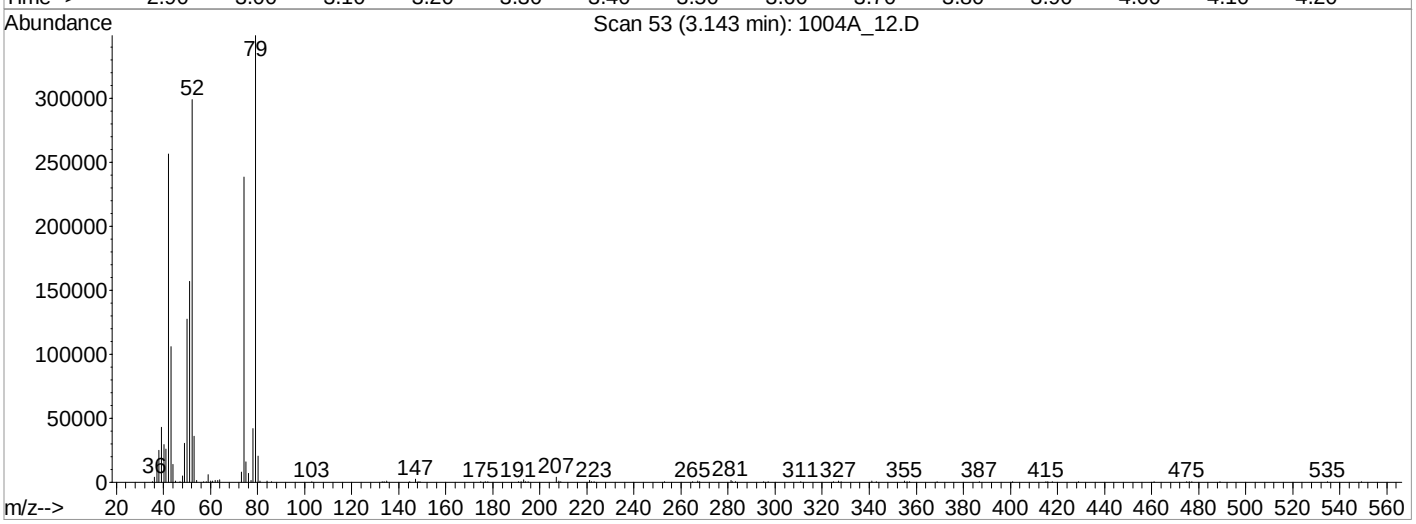


Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\100414A\1004A 12.D Vial: 10
Acq On : 4 Oct 2014 4:23 pm Operator: 280
Sample : STD SVMS 50K PPB 14G09881 Inst : BNAMS11
Misc : 8270 Primary Calibration Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 4 18:26 2014 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\S811J04N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Sat Oct 04 18:25:52 2014
Response via : Multiple Level Calibration





TIC: 1004A_12.D

(2) Pyridine (TM)

3.14min (-0.006) 11586.0785755 ppb

Qvalue = 95

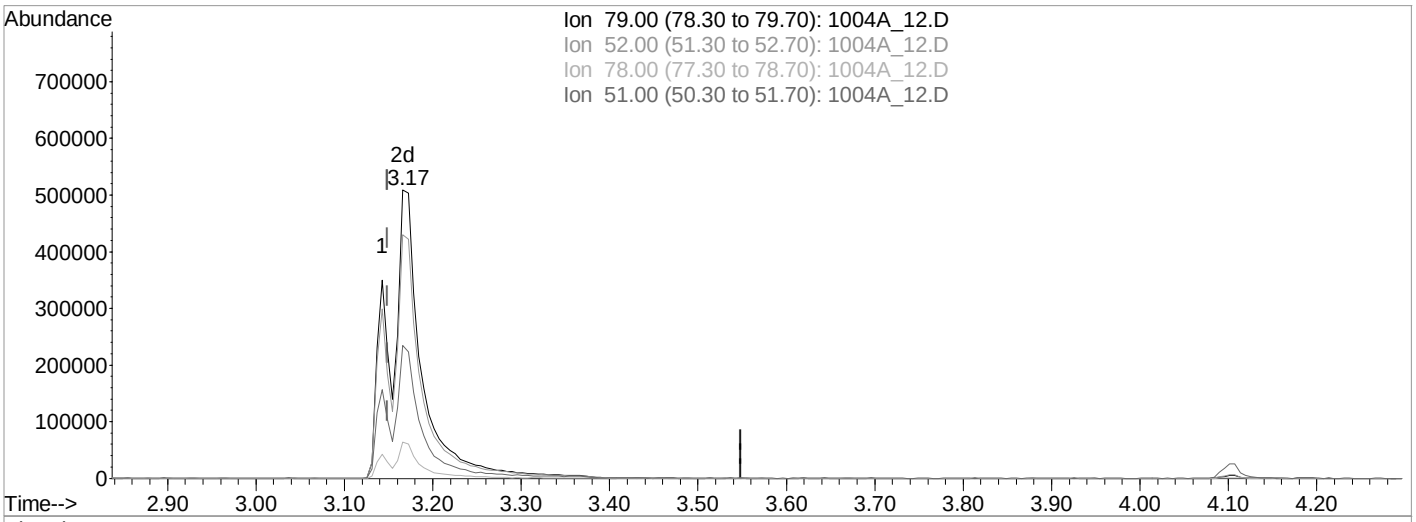
response 344409

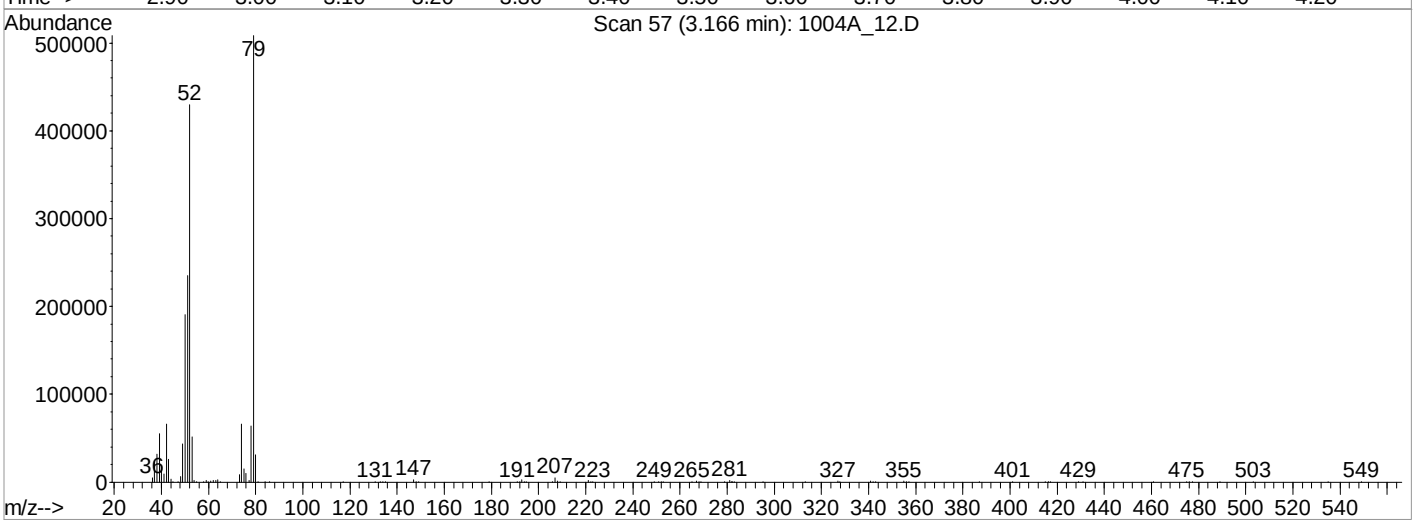
Ion	Exp%	Act%
79.00	100	100
52.00	89.70	85.58
78.00	12.30	12.01
51.00	50.50	44.75

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\100414A\1004A 12.D Vial: 10
Acq On : 4 Oct 2014 4:23 pm Operator: 280
Sample : STD SVMS 50K PPB 14G09881 Inst : BNAMS11
Misc : 8270 Primary Calibration Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 4 18:26 2014 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\S811J04N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Sat Oct 04 18:25:52 2014
Response via : Multiple Level Calibration





TIC: 1004A_12.D

(2) Pyridine (TM)

3.17min (+0.018) 43742.6617353 ppb m

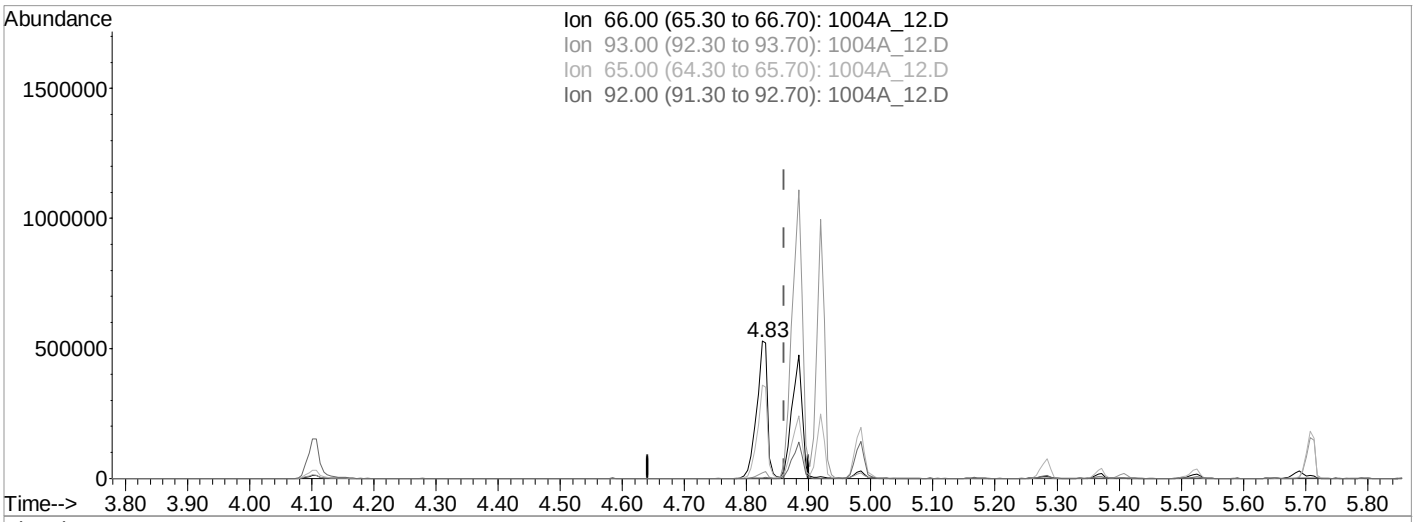
response 1300299

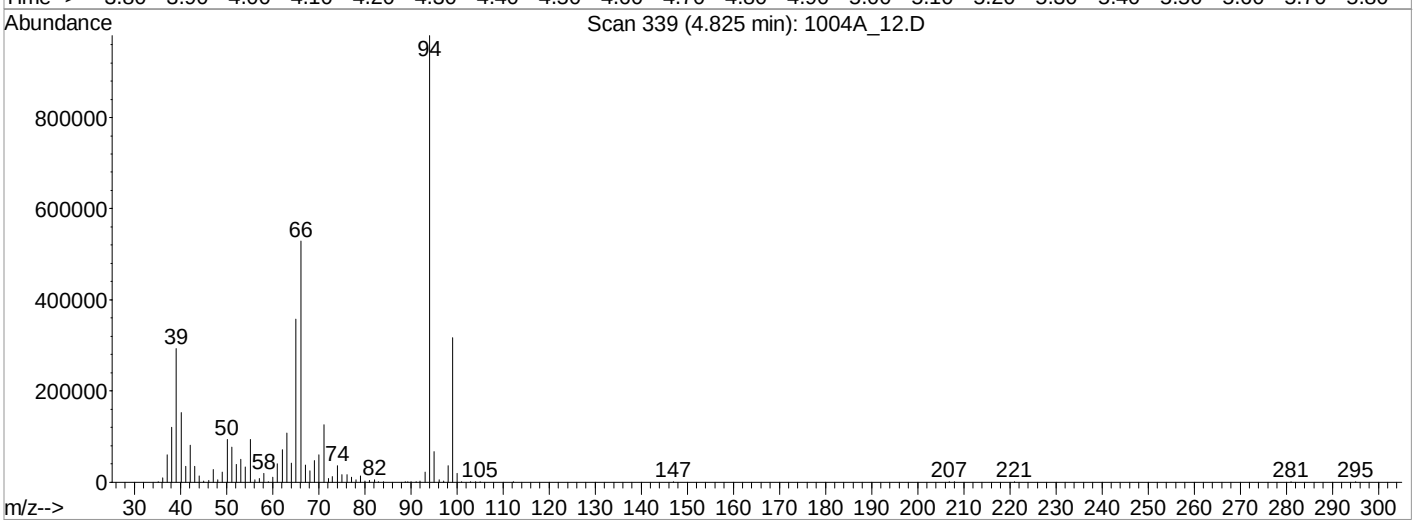
Ion	Exp%	Act%
79.00	100	100
52.00	89.70	84.53
78.00	12.30	12.50
51.00	50.50	46.15

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\100414A\1004A 12.D Vial: 10
Acq On : 4 Oct 2014 4:23 pm Operator: 280
Sample : STD SVMS 50K PPB 14G09881 Inst : BNAMS11
Misc : 8270 Primary Calibration Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 4 18:26 2014 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\S811J04N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Sat Oct 04 18:25:52 2014
Response via : Multiple Level Calibration





TIC: 1004A_12.D

(5) Aniline (MT)

4.83min (-0.035) 54633.3318566 ppb

Qvalue = 1

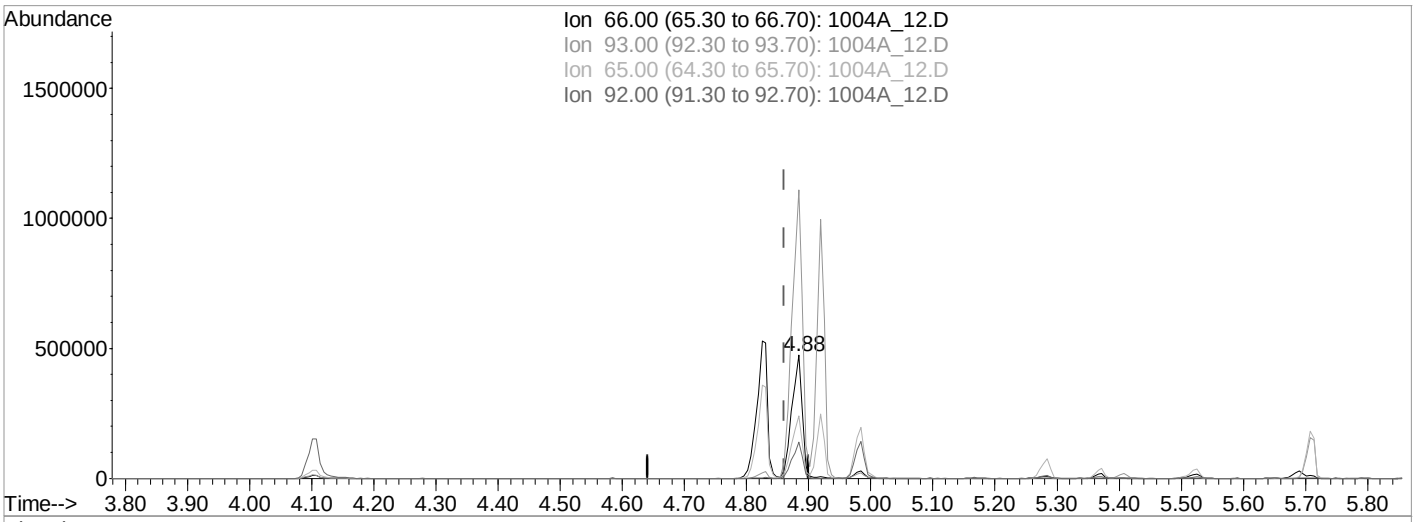
response 637034

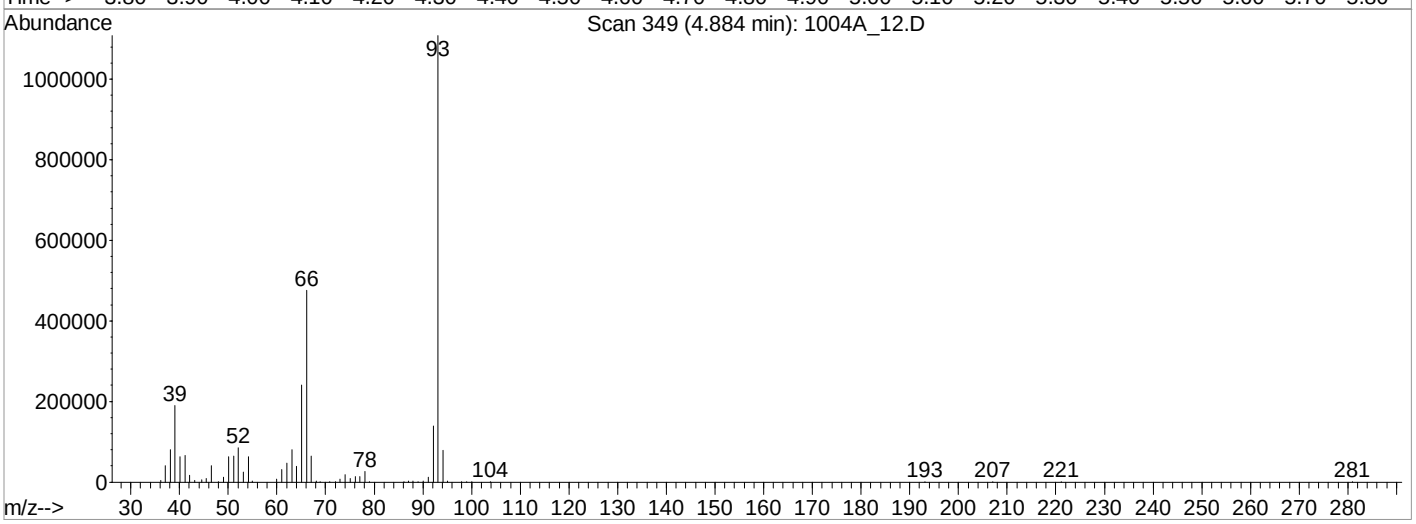
Ion	Exp%	Act%
66.00	100	100
93.00	226.20	0.00#
65.00	51.10	63.17#
92.00	28.60	0.00#

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\100414A\1004A 12.D Vial: 10
Acq On : 4 Oct 2014 4:23 pm Operator: 280
Sample : STD SVMS 50K PPB 14G09881 Inst : BNAMS11
Misc : 8270 Primary Calibration Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 4 18:26 2014 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\S811J04N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Sat Oct 04 18:25:52 2014
Response via : Multiple Level Calibration





TIC: 1004A_12.D

(5) Aniline (MT)

4.88min (+0.024) 47898.9538631 ppb m

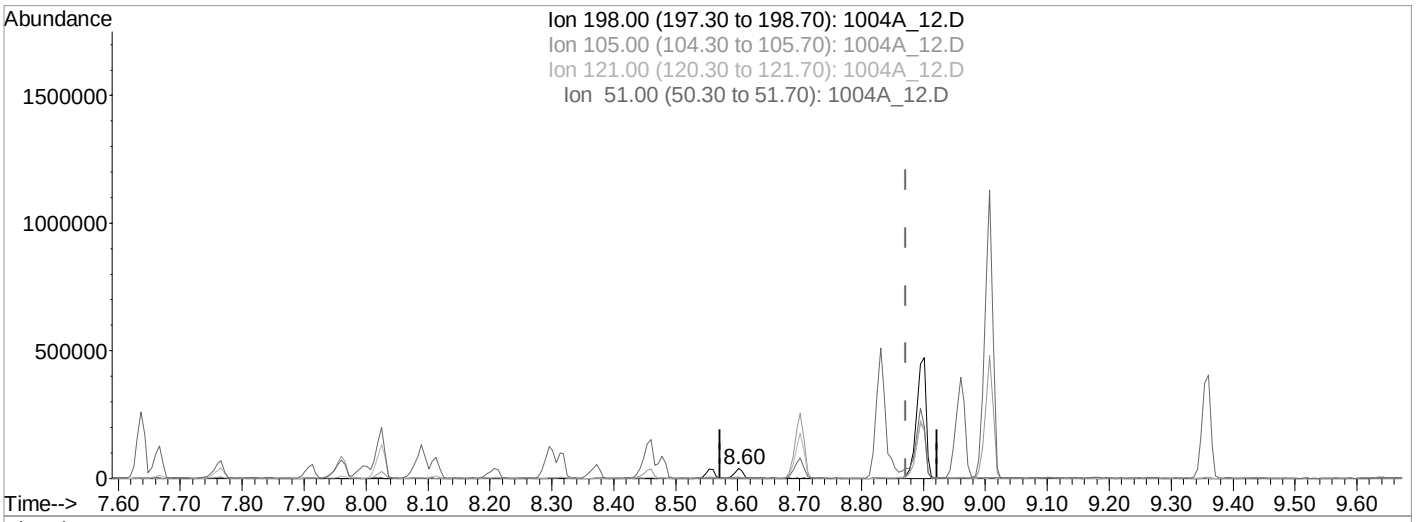
response 558510

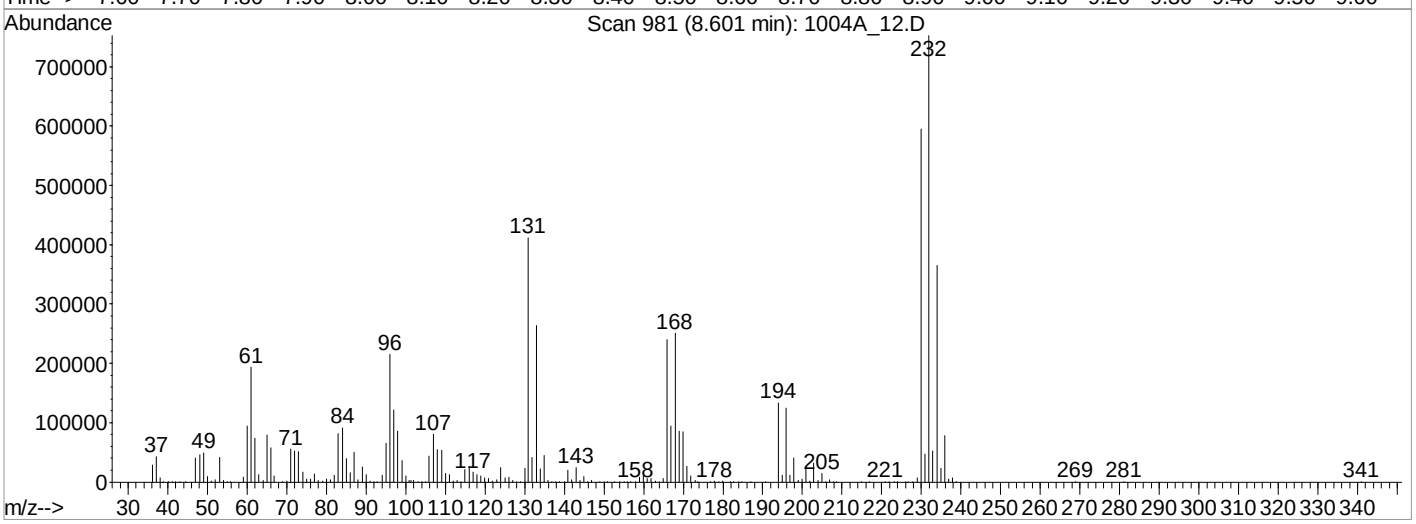
Ion	Exp%	Act%
66.00	100	100
93.00	226.20	0.00#
65.00	51.10	72.06#
92.00	28.60	0.00#

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\100414A\1004A 12.D Vial: 10
Acq On : 4 Oct 2014 4:23 pm Operator: 280
Sample : STD SVMS 50K PPB 14G09881 Inst : BNAMS11
Misc : 8270 Primary Calibration Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 4 18:26 2014 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\S811J04N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Sat Oct 04 18:25:52 2014
Response via : Multiple Level Calibration





TIC: 1004A_12.D

(65) 4,6-Dinitro-2-methylphenol (MT)

8.60min (-0.270) 3843.4873510 ppb

Qvalue = 30

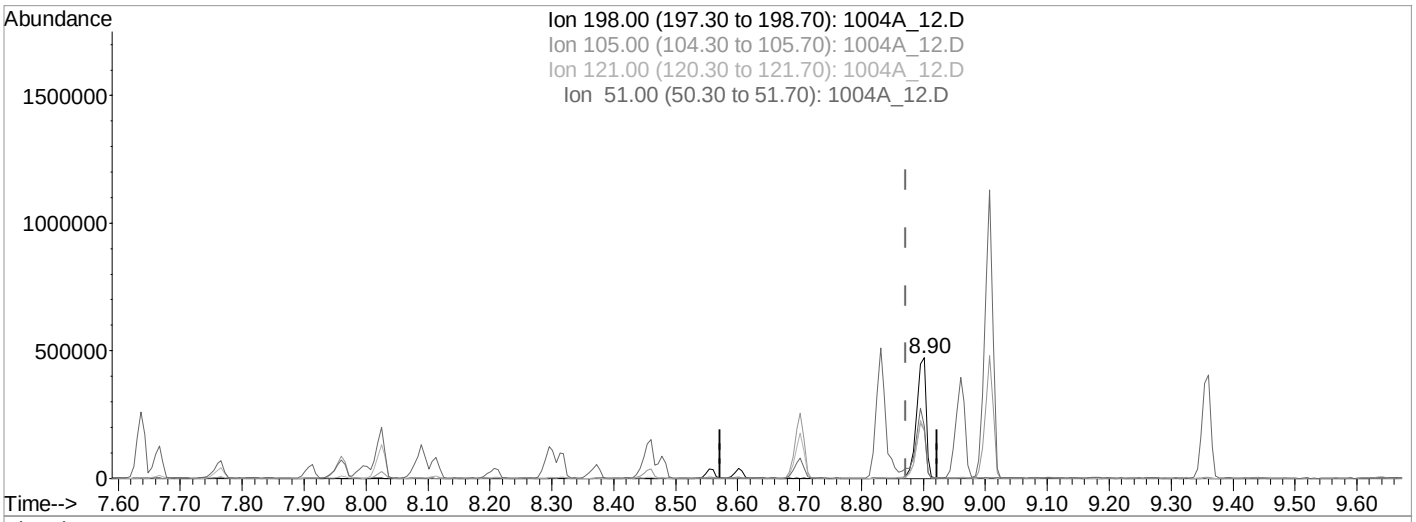
response 33883

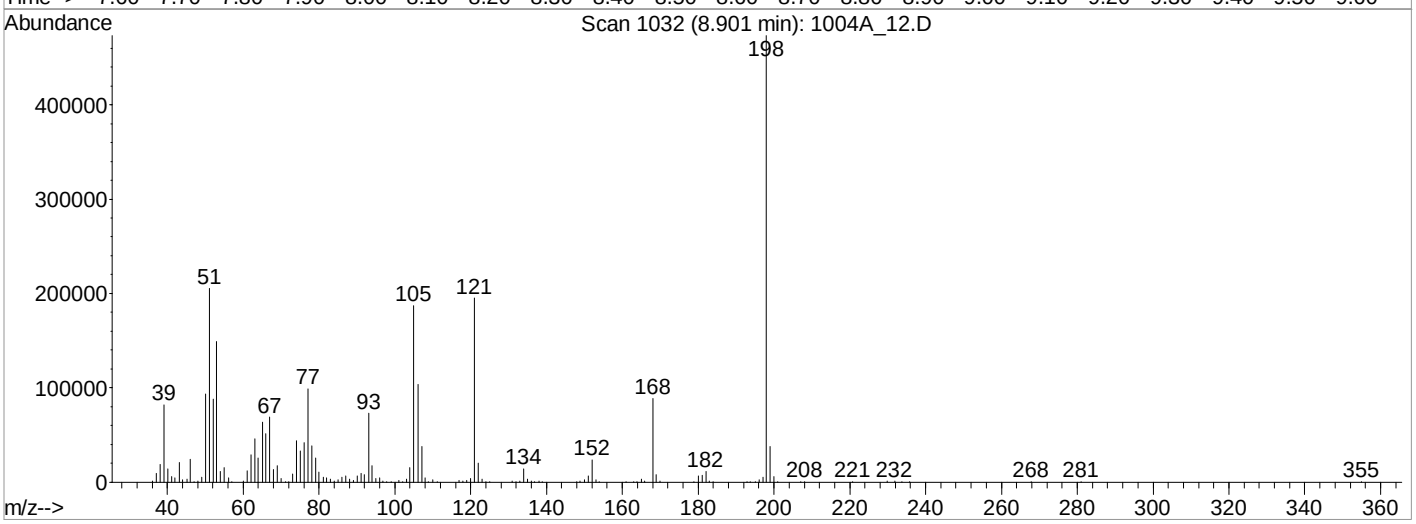
Ion	Exp%	Act%
198.00	100	100
105.00	50.50	1.12#
121.00	51.90	14.32#
51.00	67.50	2.13#

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\100414A\1004A 12.D Vial: 10
Acq On : 4 Oct 2014 4:23 pm Operator: 280
Sample : STD SVMS 50K PPB 14G09881 Inst : BNAMS11
Misc : 8270 Primary Calibration Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 4 18:28 2014 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\S811J04N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Sat Oct 04 18:25:52 2014
Response via : Multiple Level Calibration





TIC: 1004A_12.D

(65) 4,6-Dinitro-2-methylphenol (MT)

8.90min (+0.030) 56707.2908417 ppb m

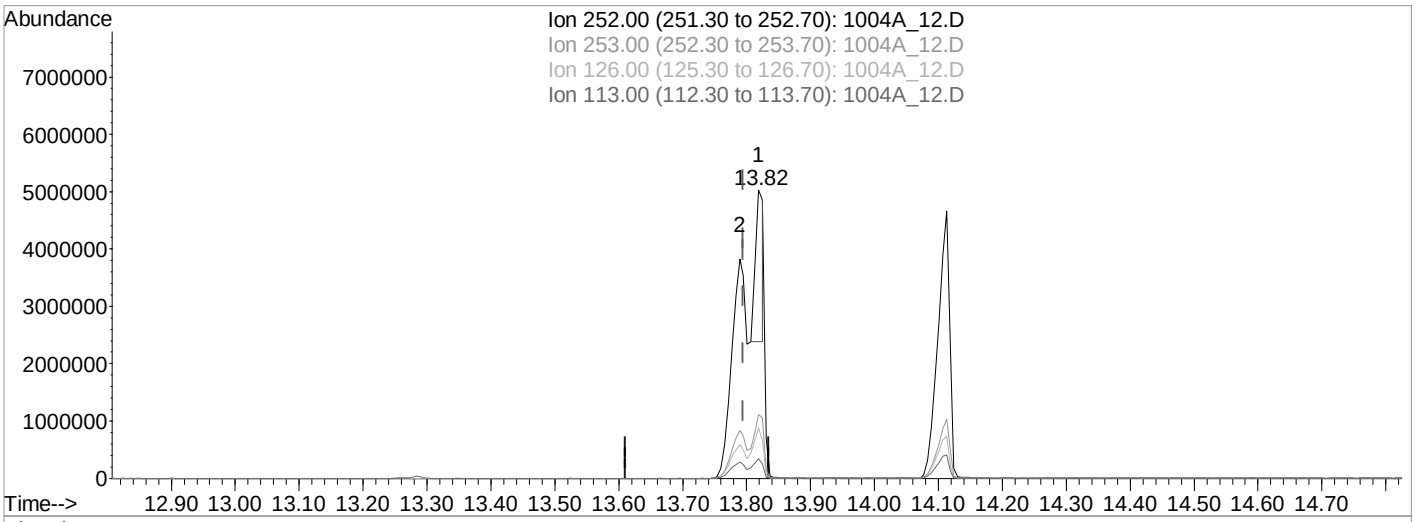
response 499914

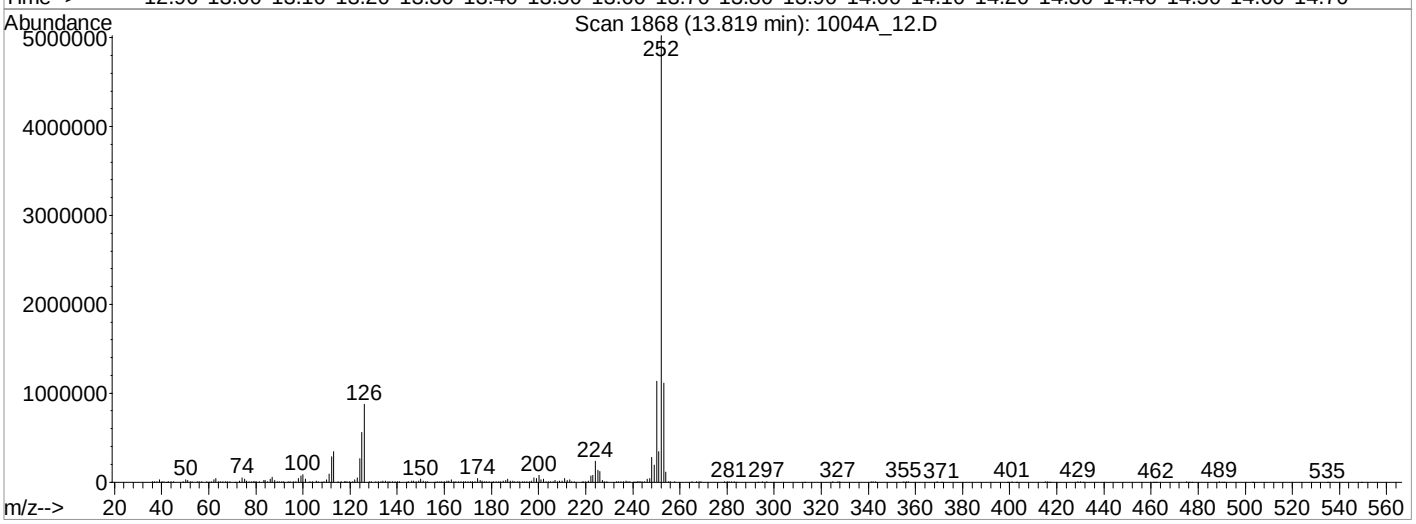
Ion	Exp%	Act%
198.00	100	100
105.00	50.50	39.50
121.00	51.90	41.16
51.00	67.50	43.38#

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\100414A\1004A 12.D Vial: 10
Acq On : 4 Oct 2014 4:23 pm Operator: 280
Sample : STD SVMS 50K PPB 14G09881 Inst : BNAMS11
Misc : 8270 Primary Calibration Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 4 18:28 2014 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\S811J04N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Sat Oct 04 18:25:52 2014
Response via : Multiple Level Calibration





TIC: 1004A_12.D

(89) Benzo(b)fluoranthene (MT)

13.82min (+0.024) 19548.1636811 ppb

Qvalue = 92

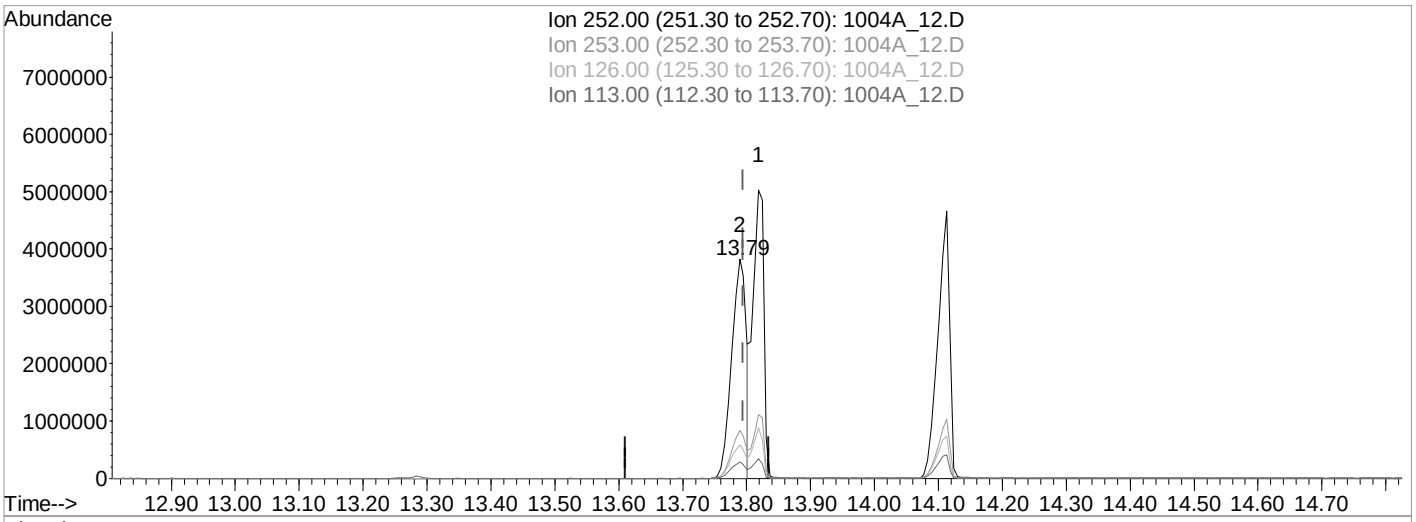
response 2249483

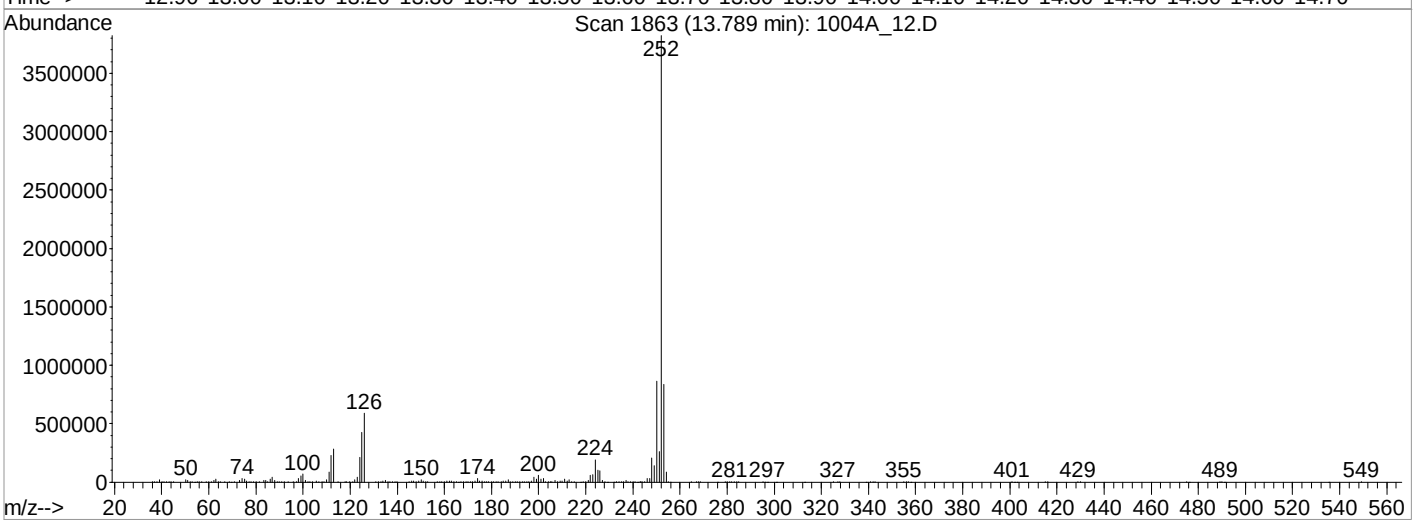
Ion	Exp%	Act%
252.00	100	100
253.00	21.20	22.96
126.00	16.00	22.66
113.00	7.90	9.11

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\100414A\1004A 12.D Vial: 10
Acq On : 4 Oct 2014 4:23 pm Operator: 280
Sample : STD SVMS 50K PPB 14G09881 Inst : BNAMS11
Misc : 8270 Primary Calibration Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 4 18:28 2014 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\S811J04N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Sat Oct 04 18:25:52 2014
Response via : Multiple Level Calibration





TIC: 1004A_12.D

(89) Benzo(b)fluoranthene (MT)

13.79min (-0.006) 53197.1557174 ppb m

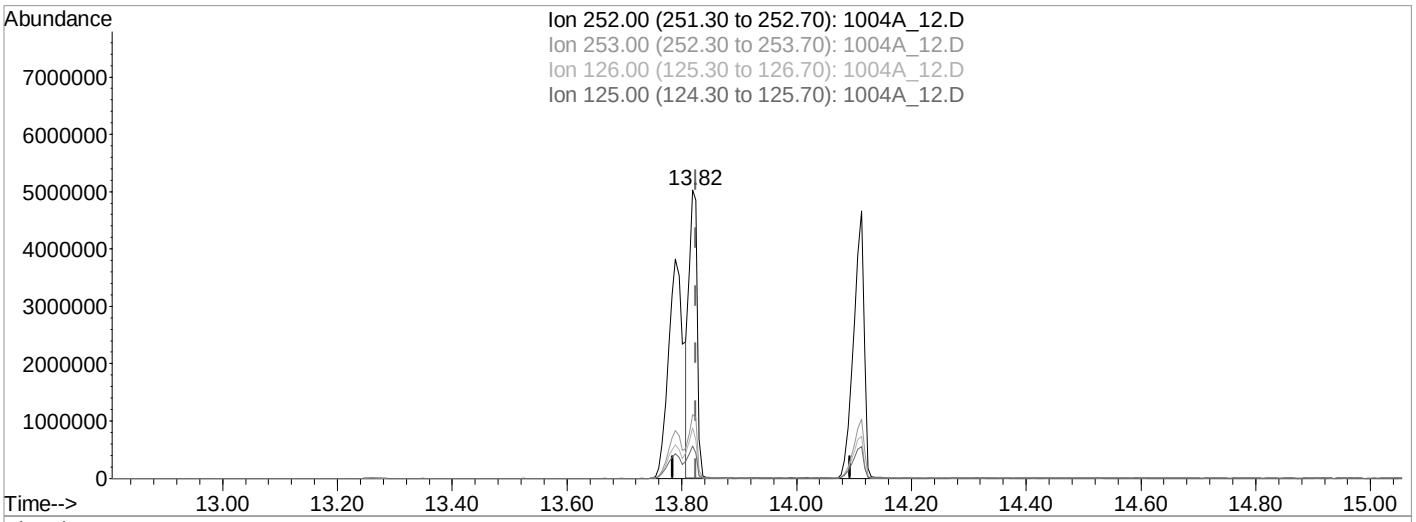
response 6121603

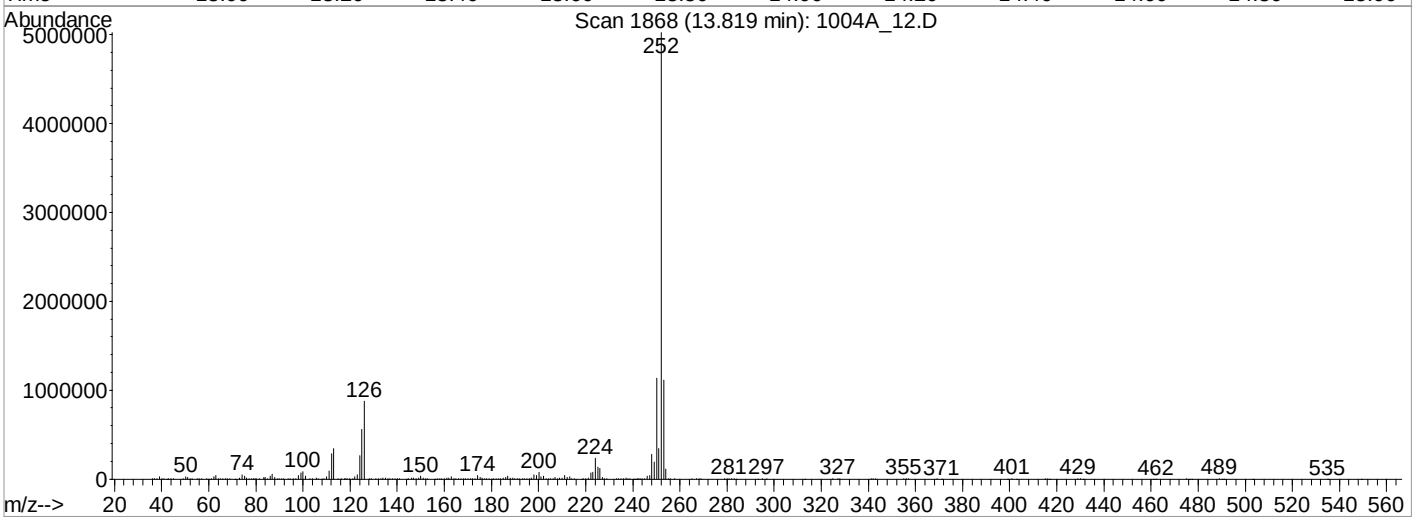
Ion	Exp%	Act%
252.00	100	100
253.00	21.20	21.86
126.00	16.00	15.40
113.00	7.90	7.43

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\100414A\1004A 12.D Vial: 10
Acq On : 4 Oct 2014 4:23 pm Operator: 280
Sample : STD SVMS 50K PPB 14G09881 Inst : BNAMS11
Misc : 8270 Primary Calibration Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 4 18:28 2014 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\S811J04N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Sat Oct 04 18:25:52 2014
Response via : Multiple Level Calibration





TIC: 1004A_12.D

(90) Benzo(k)fluoranthene (MT)

13.82min (-0.006) 45106.5657159 ppb

Qvalue = 98

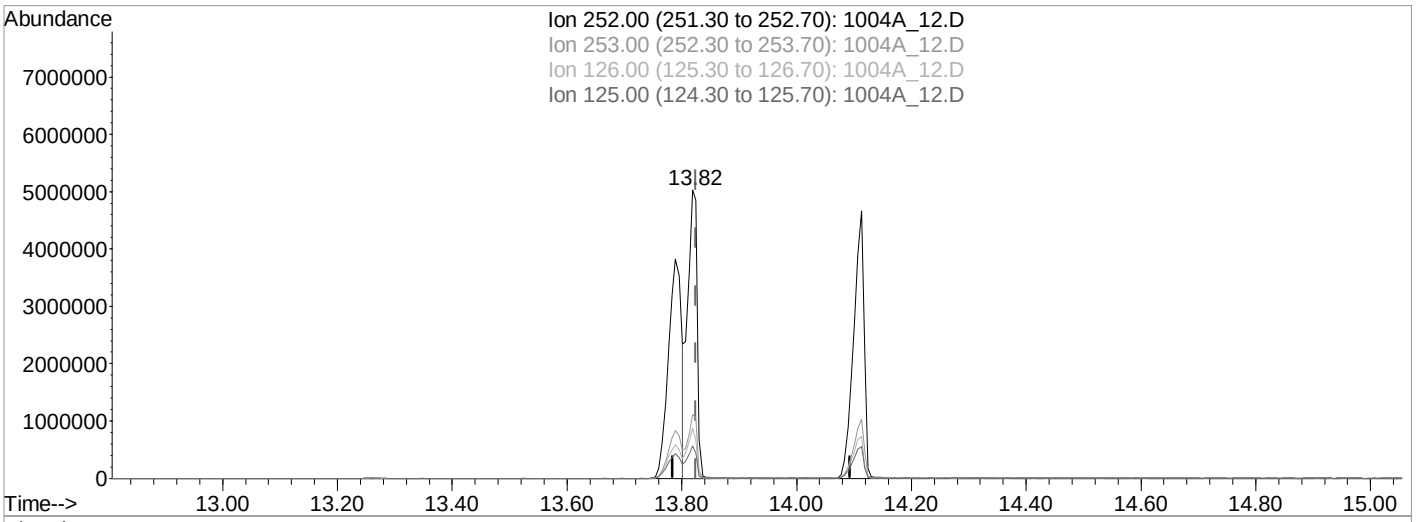
response 5060050

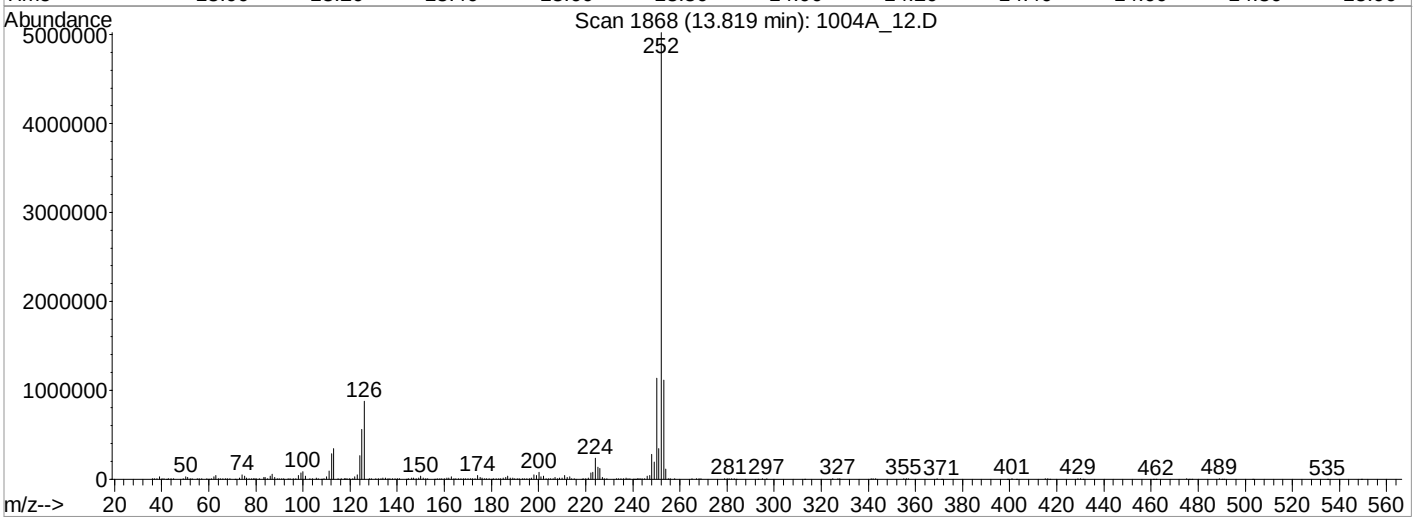
Ion	Exp%	Act%
252.00	100	100
253.00	21.60	22.10
126.00	15.70	17.36
125.00	11.00	11.14

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\100414A\1004A 12.D Vial: 10
Acq On : 4 Oct 2014 4:23 pm Operator: 280
Sample : STD SVMS 50K PPB 14G09881 Inst : BNAMS11
Misc : 8270 Primary Calibration Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 4 18:28 2014 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\S811J04N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Sat Oct 04 18:25:52 2014
Response via : Multiple Level Calibration





TIC: 1004A_12.D

(90) Benzo(k)fluoranthene (MT)

13.82min (-0.006) 52441.3556836 ppb m

response 5882866

Ion	Exp%	Act%
252.00	100	100
253.00	21.60	22.12
126.00	15.70	17.37
125.00	11.00	11.15

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\100414A\1004A 13.D Vial: 11
Acq On : 4 Oct 2014 4:44 pm Operator: 280
Sample : MSTD TCL 10K1 PPB 14G09881 Inst : BNAMS11
Misc : 8270 Primary Calibration Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 4 18:30 2014 Quant Results File: S811J04N.RES

Quant Method : C:\MSDCHEM\1\METHODS\S811J04N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Sat Oct 04 18:04:37 2014
Response via : Initial Calibration
DataAcq Meth : BNA11

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	5.17	152	95665	8000.00 ppb	0.00
22) Naphthalene-d8	6.40	136	398569	8000.00 ppb	0.00
40) Acenaphthene-d10	8.25	164	249785	8000.00 ppb	0.00
64) Phenanthrene-d10	9.85	188	464885	8000.00 ppb	0.00
78) Chrysene-d12	12.69	240	543534	8000.00 ppb	0.00
88) Perylene-d12	14.14	264	630524	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	0	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	4.79	105	77033	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.	
20) 3&4-Methyl phenol	0.00	107	0	N.D. d	
21) Acetophenone	5.52	105	241947	10000.0000000 ppb	100
24) Nitrobenzene	0.00	77	0	N.D. d	
25) Isophorone	0.00	82	0	N.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	6.11	105	99112	10194.8198893 ppb	100
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	6.81	113	50257	10000.0000000 ppb	100
36) 4-Chloro-3-methylphenol	0.00	107	0	N.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\100414A\1004A 13.D Vial: 11
Acq On : 4 Oct 2014 4:44 pm Operator: 280
Sample : MSTD TCL 10K1 PPB 14G09881 Inst : BNAMS11
Misc : 8270 Primary Calibration Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 4 18:30 2014 Quant Results File: S811J04N.RES

Quant Method : C:\MSDCHEM\1\METHODS\S811J04N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Sat Oct 04 18:04:37 2014
Response via : Initial Calibration
DataAcq Meth : BNA11

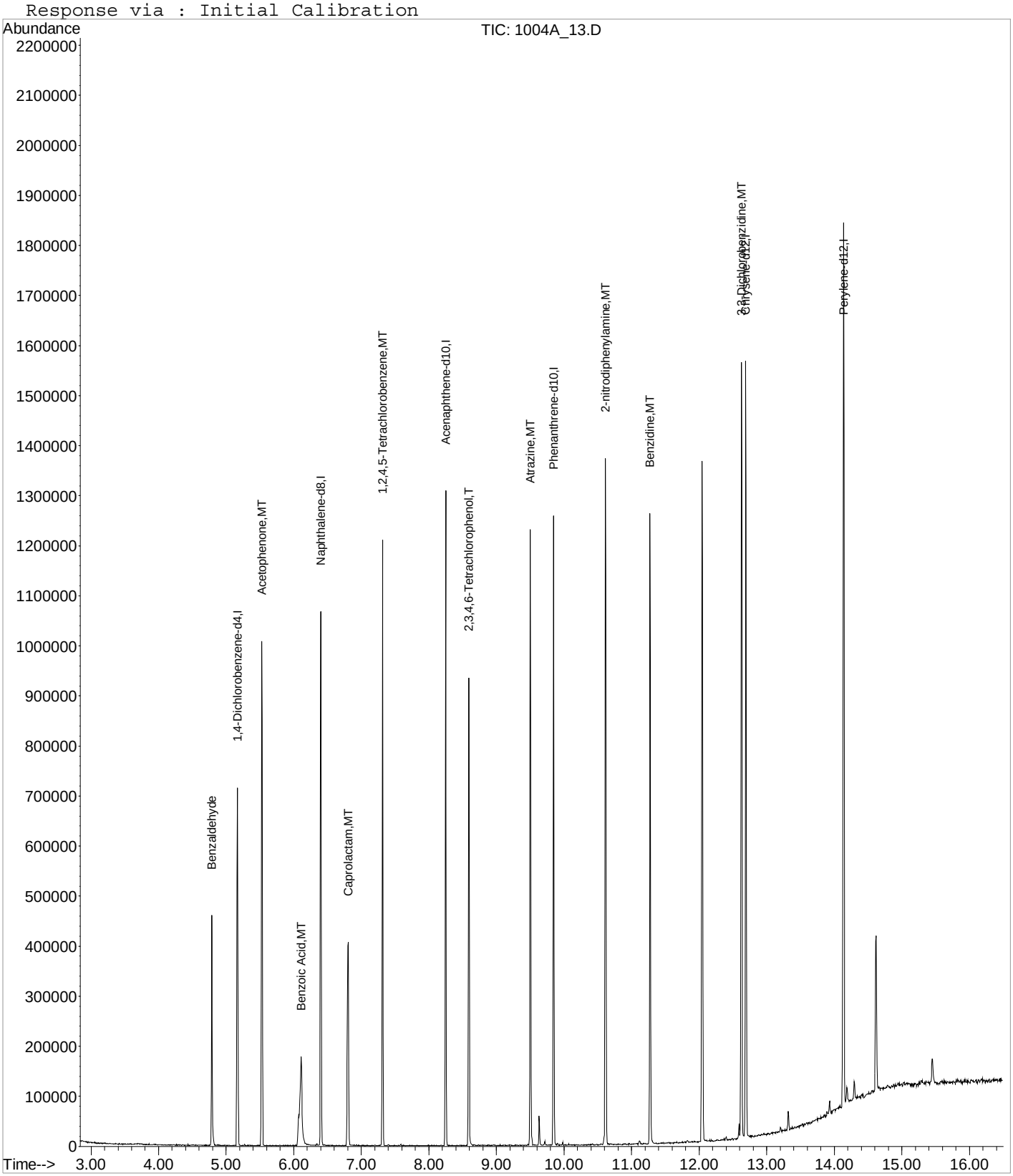
	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
39)	1,2,4,5-Tetrachlorobenzene	7.31	216	187704	10000.0000000 ppb	100
41)	Hexachlorocyclopentadiene	0.00	237	0	N.D.	
42)	2,4,6-Trichlorophenol	0.00	196	0	N.D.	
43)	2,4,5-Trichlorophenol	0.00	196	0	N.D.	
45)	Biphenyl	0.00	154	0	N.D.	
46)	2-Chloronaphthalene	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.	
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.	
56)	2,3,4,6-Tetrachlorophenol	8.59	232	90968	10000.0000000 ppb	100
57)	4-Nitrophenol	0.00	139	0	N.D. 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.	
61)	4-Nitroaniline	0.00	138	0	N.D.	
62)	Azobenzene	0.00	77	0	N.D. d	
63)	Atrazine	9.50	200	122696	10000.0000000 ppb	100
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	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	10.61	167	176545	10000.2832219 ppb	100
77)	Fluoranthene	0.00	202	0	N.D.	
79)	Benzidine	11.27	184	449625	9979.8017912 ppb	100
80)	Pyrene	0.00	202	0	N.D.	
82)	Benzylbutyl phthalate	0.00	149	0	N.D. d	
83)	3,3-Dichlorobenzidine	12.62	252	319465	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\100414A\1004A 13.D Vial: 11
Acq On : 4 Oct 2014 4:44 pm Operator: 280
Sample : MSTD TCL 10K1 PPB 14G09881 Inst : BNAMS11
Misc : 8270 Primary Calibration Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 4 18:30 2014 Quant Results File: S811J04N.RES

Method : C:\MSDCHEM\1\METHODS\S811J04N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Sat Oct 04 20:15:55 2014
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\100414A\1004A 14.D Vial: 12
Acq On : 4 Oct 2014 5:05 pm Operator: 280
Sample : STD TCL .2K1 PPB 14G21532 Inst : BNAMS11
Misc : 8270 TCL Calibration Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 4 18:31 2014 Quant Results File: S811J04N.RES

Quant Method : C:\MSDCHEM\1\METHODS\S811J04N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Sat Oct 04 18:04:37 2014
Response via : Initial Calibration
DataAcq Meth : BNA11

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	5.17	152	108044	8000.00 ppb	0.00
22) Naphthalene-d8	6.40	136	436037	8000.00 ppb	0.00
40) Acenaphthene-d10	8.25	164	277598	8000.00 ppb	0.00
64) Phenanthrene-d10	9.84	188	524973	8000.00 ppb	0.00
78) Chrysene-d12	12.69	240	604417	8000.00 ppb	0.00
88) Perylene-d12	14.14	264	704548	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	0	0.0000000 ppb	
Spiked Amount 20.000	Range 10 - 63		Recovery = 0.00%#		
23) Nitrobenzene-d5	0.00	82	0	0.0000000 ppb	
Spiked Amount 10.000	Range 28 - 123		Recovery = 0.00%#		
44) 2-Fluorobiphenyl	0.00	172	0	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.		
6) bis(2-Chloroethyl)ether	0.00	63	0	N.D. d		
8) Phenol	0.00	94	0	N.D.		
9) Benzaldehyde	4.79	105	1557	178.9634003 ppb	#	84
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.		
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.		
19) N-Nitrosodi-n-propylamine	0.00	70	0	N.D.		
20) 3&4-Methyl phenol	0.00	107	0	N.D. d		
21) Acetophenone	5.52	105	4357	159.4482438 ppb		93
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.		
28) bis(2-Chlorethoxy)methane	0.00	93	0	N.D.		
29) 2,4-Dichlorophenol	0.00	162	0	N.D.		
30) Benzoic Acid	6.06	105	508	47.7636166 ppb		96
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. d		
35) Caprolactam	6.78	113	878	159.6901502 ppb	#	86
36) 4-Chloro-3-methylphenol	0.00	107	0	N.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\100414A\1004A 14.D Vial: 12
Acq On : 4 Oct 2014 5:05 pm Operator: 280
Sample : STD TCL .2K1 PPB 14G21532 Inst : BNAMS11
Misc : 8270 TCL Calibration Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 4 18:31 2014 Quant Results File: S811J04N.RES

Quant Method : C:\MSDCHEM\1\METHODS\S811J04N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Sat Oct 04 18:04:37 2014
Response via : Initial Calibration
DataAcq Meth : BNA11

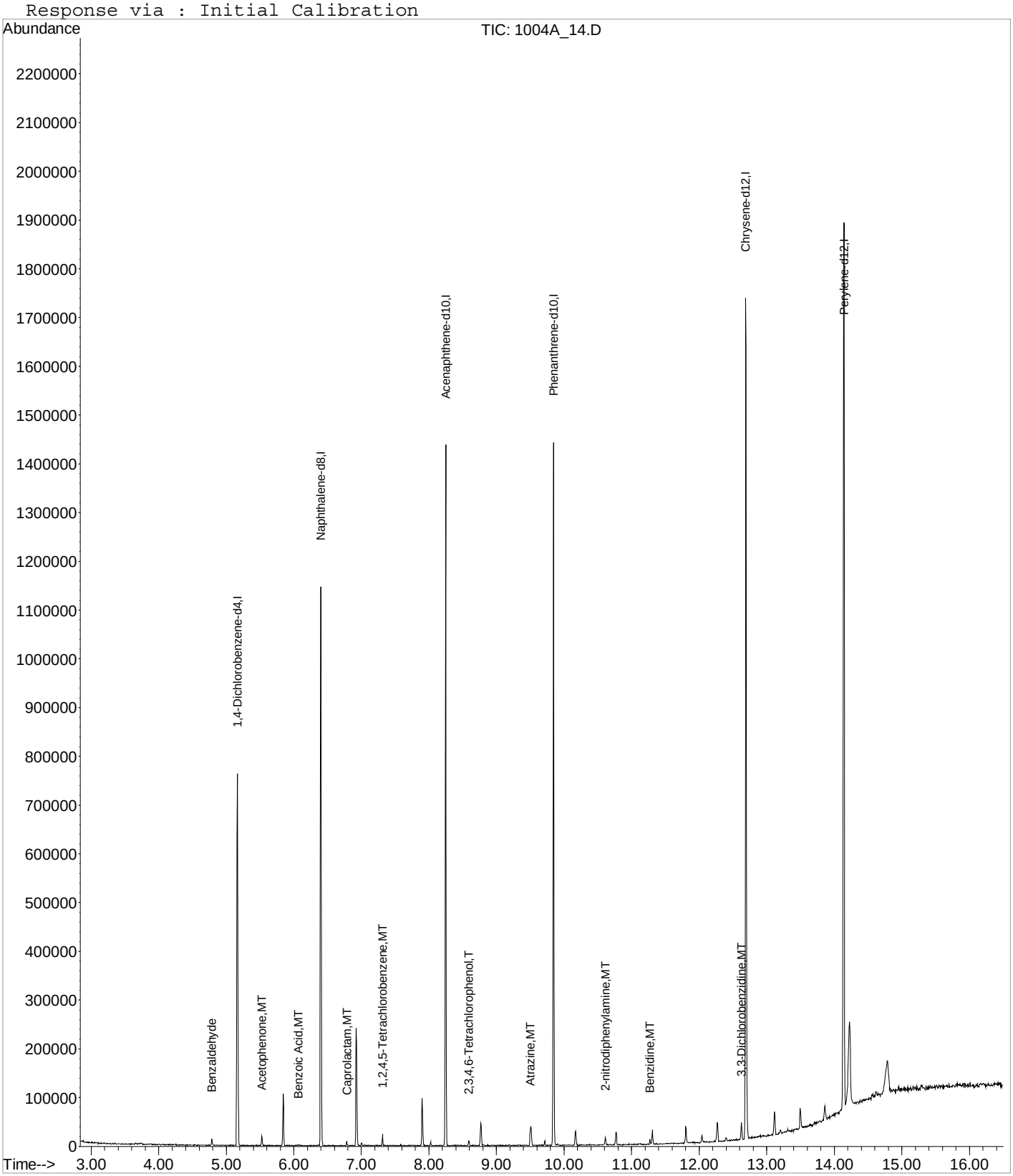
	Compound	R.T.	QIon	Response	Conc Unit		Qvalue
39)	1,2,4,5-Tetrachlorobenzene	7.31	216	3956	192.6473012 ppb		97
41)	Hexachlorocyclopentadiene	0.00	237	0	N.D.		
42)	2,4,6-Trichlorophenol	0.00	196	0	N.D.		
43)	2,4,5-Trichlorophenol	0.00	196	0	N.D.		
45)	Biphenyl	0.00	154	0	N.D.		
46)	2-Chloronaphthalene	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. 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	8.59	232	1253	123.9402724 ppb	#	74
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.		
63)	Atrazine	9.50	200	2259	165.6669391 ppb	#	84
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.		
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.		
75)	Di-n-butyl phthalate	0.00	149	0	N.D. d		
76)	2-nitrodiphenylamine	10.61	167	2069	103.7829316 ppb	#	79
77)	Fluoranthene	0.00	202	0	N.D.		
79)	Benzidine	11.27	184	3948	78.8022566 ppb		96
80)	Pyrene	0.00	202	0	N.D.		
82)	Benzylbutyl phthalate	0.00	149	0	N.D. d		
83)	3,3-Dichlorobenzidine	12.62	252	5587	157.2698352 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\100414A\1004A 14.D Vial: 12
Acq On : 4 Oct 2014 5:05 pm Operator: 280
Sample : STD TCL .2K1 PPB 14G21532 Inst : BNAMS11
Misc : 8270 TCL Calibration Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 4 18:31 2014 Quant Results File: S811J04N.RES

Method : C:\MSDCHEM\1\METHODS\S811J04N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Sat Oct 04 20:15:55 2014
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\100414A\1004A 15.D Vial: 13
Acq On : 4 Oct 2014 5:26 pm Operator: 280
Sample : STD TCL 1K1 PPB 14G21532 Inst : BNAMS11
Misc : 8270 TCL Calibration Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 4 18:33 2014 Quant Results File: S811J04N.RES

Quant Method : C:\MSDCHEM\1\METHODS\S811J04N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Sat Oct 04 18:04:37 2014
Response via : Initial Calibration
DataAcq Meth : BNA11

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	5.17	152	100396	8000.00 ppb	0.00
22) Naphthalene-d8	6.40	136	415491	8000.00 ppb	0.00
40) Acenaphthene-d10	8.25	164	255290	8000.00 ppb	0.00
64) Phenanthrene-d10	9.84	188	479419	8000.00 ppb	0.00
78) Chrysene-d12	12.69	240	561043	8000.00 ppb	0.00
88) Perylene-d12	14.14	264	660099	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	0	0.0000000 ppb	
Spiked Amount 20.000	Range 10 - 63		Recovery	= 0.00%#	
23) Nitrobenzene-d5	0.00	82	0	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.	
6) bis(2-Chloroethyl)ether	0.00	63	0	N.D. d	
8) Phenol	0.00	94	0	N.D.	
9) Benzaldehyde	4.79	105	6946	859.2007222 ppb	95
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.	
20) 3&4-Methyl phenol	0.00	107	0	N.D. d	
21) Acetophenone	5.52	105	23495	925.3198395 ppb	97
24) Nitrobenzene	0.00	77	0	N.D. d	
25) Isophorone	0.00	82	0	N.D.	
26) 2-Nitrophenol	0.00	139	0	N.D.	
27) 2,4-Dimethylphenol	0.00	107	0	N.D.	
28) bis(2-Chlorethoxy)methane	0.00	93	0	N.D.	
29) 2,4-Dichlorophenol	0.00	162	0	N.D.	
30) Benzoic Acid	6.06	105	4185	412.9435396 ppb	99
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	6.78	113	4581	874.3908962 ppb	87
36) 4-Chloro-3-methylphenol	0.00	107	0	N.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\100414A\1004A 15.D Vial: 13
Acq On : 4 Oct 2014 5:26 pm Operator: 280
Sample : STD TCL 1K1 PPB 14G21532 Inst : BNAMS11
Misc : 8270 TCL Calibration Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 4 18:33 2014 Quant Results File: S811J04N.RES

Quant Method : C:\MSDCHEM\1\METHODS\S811J04N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Sat Oct 04 18:04:37 2014
Response via : Initial Calibration
DataAcq Meth : BNA11

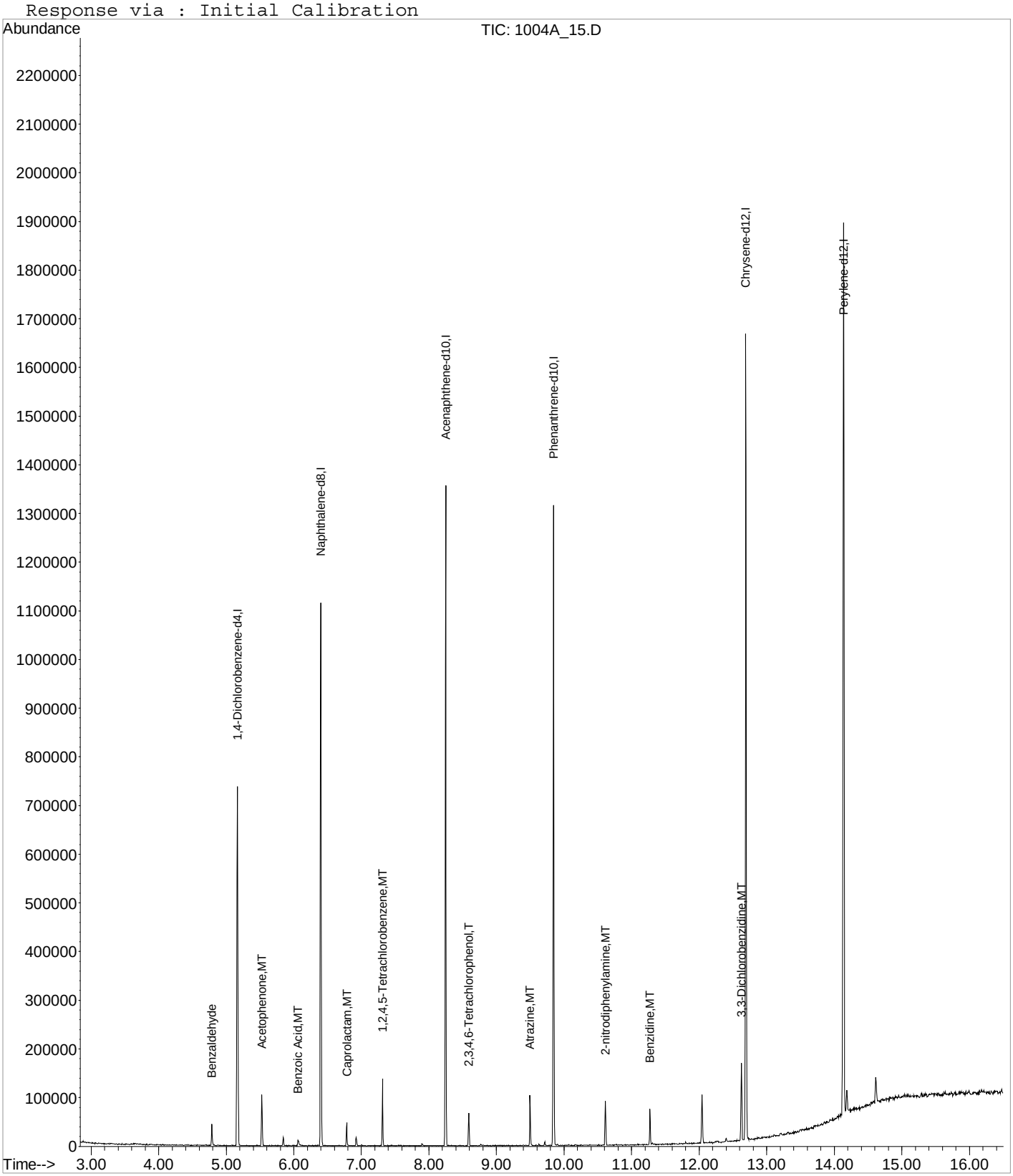
	Compound	R.T.	QIon	Response	Conc Unit		Qvalue
39)	1,2,4,5-Tetrachlorobenzene	7.31	216	19412	992.0616264 ppb		97
41)	Hexachlorocyclopentadiene	0.00	237	0	N.D.		
42)	2,4,6-Trichlorophenol	0.00	196	0	N.D.		
43)	2,4,5-Trichlorophenol	0.00	196	0	N.D.		
45)	Biphenyl	0.00	154	0	N.D. d		
46)	2-Chloronaphthalene	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.		
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.		
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	8.59	232	7236	778.2918148 ppb		94
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	9.50	200	11285	899.9195990 ppb		93
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	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	10.61	167	9975	547.8984526 ppb	#	87
77)	Fluoranthene	0.00	202	0	N.D. d		
79)	Benzidine	11.27	184	27434	589.9173470 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	12.62	252	29165	884.4418085 ppb		96
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\100414A\1004A 15.D Vial: 13
Acq On : 4 Oct 2014 5:26 pm Operator: 280
Sample : STD TCL 1K1 PPB 14G21532 Inst : BNAMS11
Misc : 8270 TCL Calibration Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 4 18:33 2014 Quant Results File: S811J04N.RES

Method : C:\MSDCHEM\1\METHODS\S811J04N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Sat Oct 04 20:15:55 2014
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\100414A\1004A 16.D Vial: 14
Acq On : 4 Oct 2014 5:47 pm Operator: 280
Sample : STD TCL 2K1 PPB 14G21532 Inst : BNAMS11
Misc : 8270 TCL Calibration Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 4 18:34 2014 Quant Results File: S811J04N.RES

Quant Method : C:\MSDCHEM\1\METHODS\S811J04N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Sat Oct 04 18:04:37 2014
Response via : Initial Calibration
DataAcq Meth : BNA11

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	5.17	152	95348	8000.00 ppb	0.00
22) Naphthalene-d8	6.40	136	394898	8000.00 ppb	0.00
40) Acenaphthene-d10	8.25	164	244380	8000.00 ppb	0.00
64) Phenanthrene-d10	9.84	188	449578	8000.00 ppb	0.00
78) Chrysene-d12	12.69	240	524945	8000.00 ppb	0.00
88) Perylene-d12	14.14	264	621451	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	0	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	0	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.	
6) bis(2-Chloroethyl)ether	0.00	63	0	N.D. d	
8) Phenol	0.00	94	0	N.D.	
9) Benzaldehyde	4.79	105	14275	1859.2628574 ppb	96
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.	
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.	
19) N-Nitrosodi-n-propylamine	0.00	70	0	N.D.	
20) 3&4-Methyl phenol	0.00	107	0	N.D. d	
21) Acetophenone	5.52	105	44187	1832.3809305 ppb	99
24) Nitrobenzene	0.00	77	0	N.D. d	
25) Isophorone	0.00	82	0	N.D.	
26) 2-Nitrophenol	0.00	139	0	N.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	6.06	105	9289	964.3637194 ppb	99
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	8415	1689.9588994 ppb	97
36) 4-Chloro-3-methylphenol	0.00	107	0	N.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\100414A\1004A 16.D Vial: 14
Acq On : 4 Oct 2014 5:47 pm Operator: 280
Sample : STD TCL 2K1 PPB 14G21532 Inst : BNAMS11
Misc : 8270 TCL Calibration Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 4 18:34 2014 Quant Results File: S811J04N.RES

Quant Method : C:\MSDCHEM\1\METHODS\S811J04N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Sat Oct 04 18:04:37 2014
Response via : Initial Calibration
DataAcq Meth : BNA11

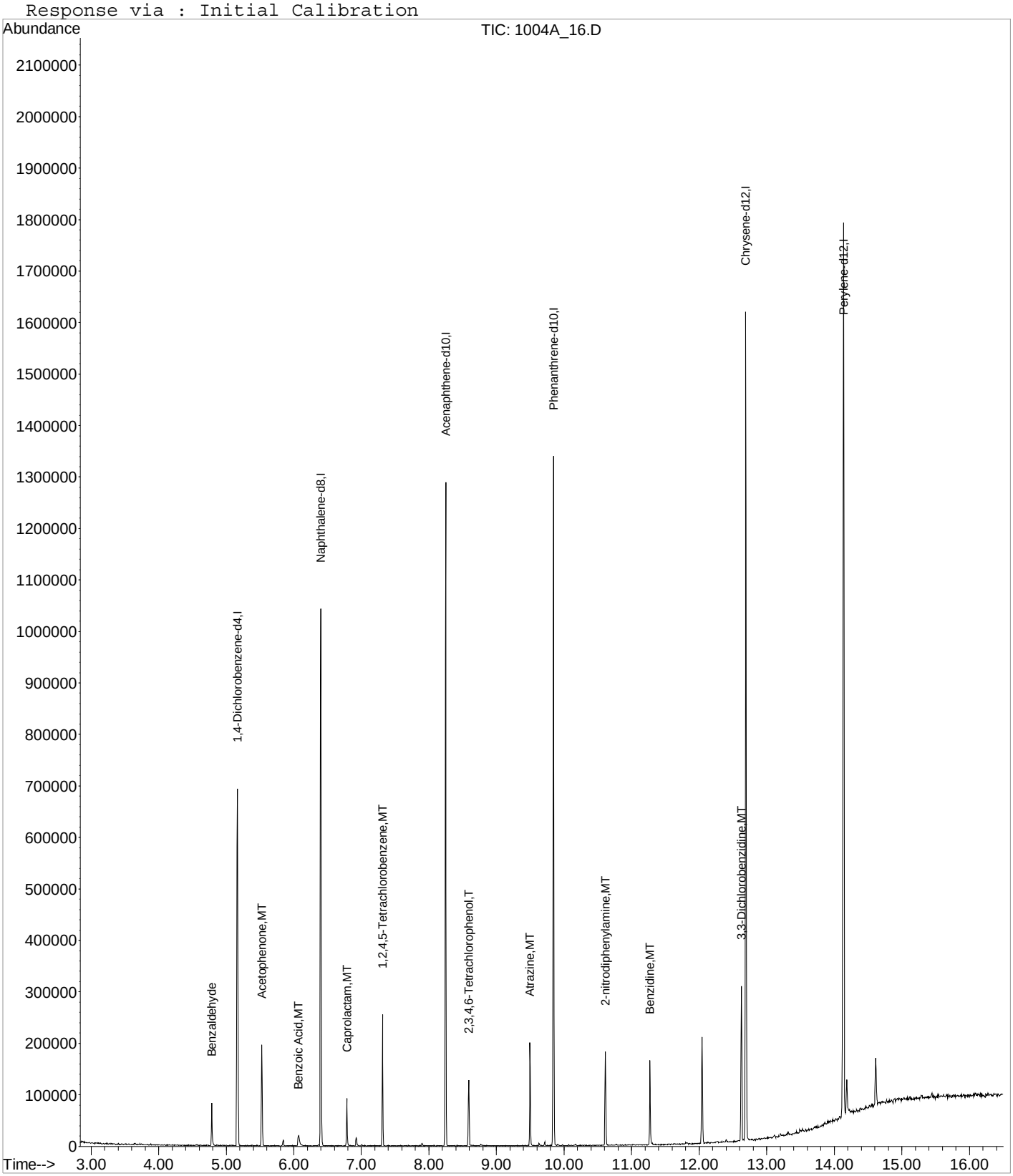
	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
39)	1,2,4,5-Tetrachlorobenzene	7.31	216	36893	1983.7595343 ppb	98
41)	Hexachlorocyclopentadiene	0.00	237	0	N.D.	
42)	2,4,6-Trichlorophenol	0.00	196	0	N.D.	
43)	2,4,5-Trichlorophenol	0.00	196	0	N.D.	
45)	Biphenyl	0.00	154	0	N.D.	
46)	2-Chloronaphthalene	0.00	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.	
56)	2,3,4,6-Tetrachlorophenol	8.59	232	14603	1640.7942784 ppb	86
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.	
63)	Atrazine	9.50	200	19758	1645.9372375 ppb	98
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	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.	
75)	Di-n-butyl phthalate	0.00	149	0	N.D. d	
76)	2-nitrodiphenylamine	10.61	167	22331	1307.9933373 ppb	94
77)	Fluoranthene	0.00	202	0	N.D.	
79)	Benzidine	11.27	184	57996	1332.8535058 ppb	99
80)	Pyrene	0.00	202	0	N.D.	
82)	Benzylbutyl phthalate	0.00	149	0	N.D. d	
83)	3,3-Dichlorobenzidine	12.62	252	55596	1801.9103262 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.	
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\100414A\1004A 16.D Vial: 14
Acq On : 4 Oct 2014 5:47 pm Operator: 280
Sample : STD TCL 2K1 PPB 14G21532 Inst : BNAMS11
Misc : 8270 TCL Calibration Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 4 18:34 2014 Quant Results File: S811J04N.RES

Method : C:\MSDCHEM\1\METHODS\S811J04N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Sat Oct 04 20:15:55 2014
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\100414A\1004A 17.D Vial: 15
Acq On : 4 Oct 2014 6:09 pm Operator: 280
Sample : STD TCL 5K1 PPB 14G21532 Inst : BNAMS11
Misc : 8270 TCL Calibration Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 4 18:35 2014 Quant Results File: S811J04N.RES

Quant Method : C:\MSDCHEM\1\METHODS\S811J04N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Sat Oct 04 18:34:59 2014
Response via : Initial Calibration
DataAcq Meth : BNA11

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	5.17	152	92417	8000.00 ppb	0.00
22) Naphthalene-d8	6.40	136	384181	8000.00 ppb	0.00
40) Acenaphthene-d10	8.25	164	240855	8000.00 ppb	0.00
64) Phenanthrene-d10	9.84	188	445381	8000.00 ppb	0.00
78) Chrysene-d12	12.69	240	517978	8000.00 ppb	0.00
88) Perylene-d12	14.14	264	624139	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	0	0.0000000 ppb	
Spiked Amount 20.000	Range 10 - 63		Recovery	= 0.00%#	
23) Nitrobenzene-d5	0.00	82	0	0.0000000 ppb	
Spiked Amount 10.000	Range 28 - 123		Recovery	= 0.00%#	
44) 2-Fluorobiphenyl	0.00	172	0	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.	
6) bis(2-Chloroethyl)ether	0.00	63	0	N.D. d	
8) Phenol	0.00	94	0	N.D.	
9) Benzaldehyde	4.78	105	33979	4958.1164568 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.	
18) Hexachloroethane	0.00	117	0	N.D.	
19) N-Nitrosodi-n-propylamine	0.00	70	0	N.D.	
20) 3&4-Methyl phenol	0.00	107	0	N.D. d	
21) Acetophenone	5.52	105	109116	5131.8859485 ppb	98
24) Nitrobenzene	0.00	77	0	N.D. d	
25) Isophorone	0.00	82	0	N.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.	
29) 2,4-Dichlorophenol	0.00	162	0	N.D.	
30) Benzoic Acid	6.09	105	32195	6381.7461789 ppb	99
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	6.80	113	21969	5156.6494007 ppb	97
36) 4-Chloro-3-methylphenol	0.00	107	0	N.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\100414A\1004A 17.D Vial: 15
Acq On : 4 Oct 2014 6:09 pm Operator: 280
Sample : STD TCL 5K1 PPB 14G21532 Inst : BNAMS11
Misc : 8270 TCL Calibration Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 4 18:35 2014 Quant Results File: S811J04N.RES

Quant Method : C:\MSDCHEM\1\METHODS\S811J04N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Sat Oct 04 18:34:59 2014
Response via : Initial Calibration
DataAcq Meth : BNA11

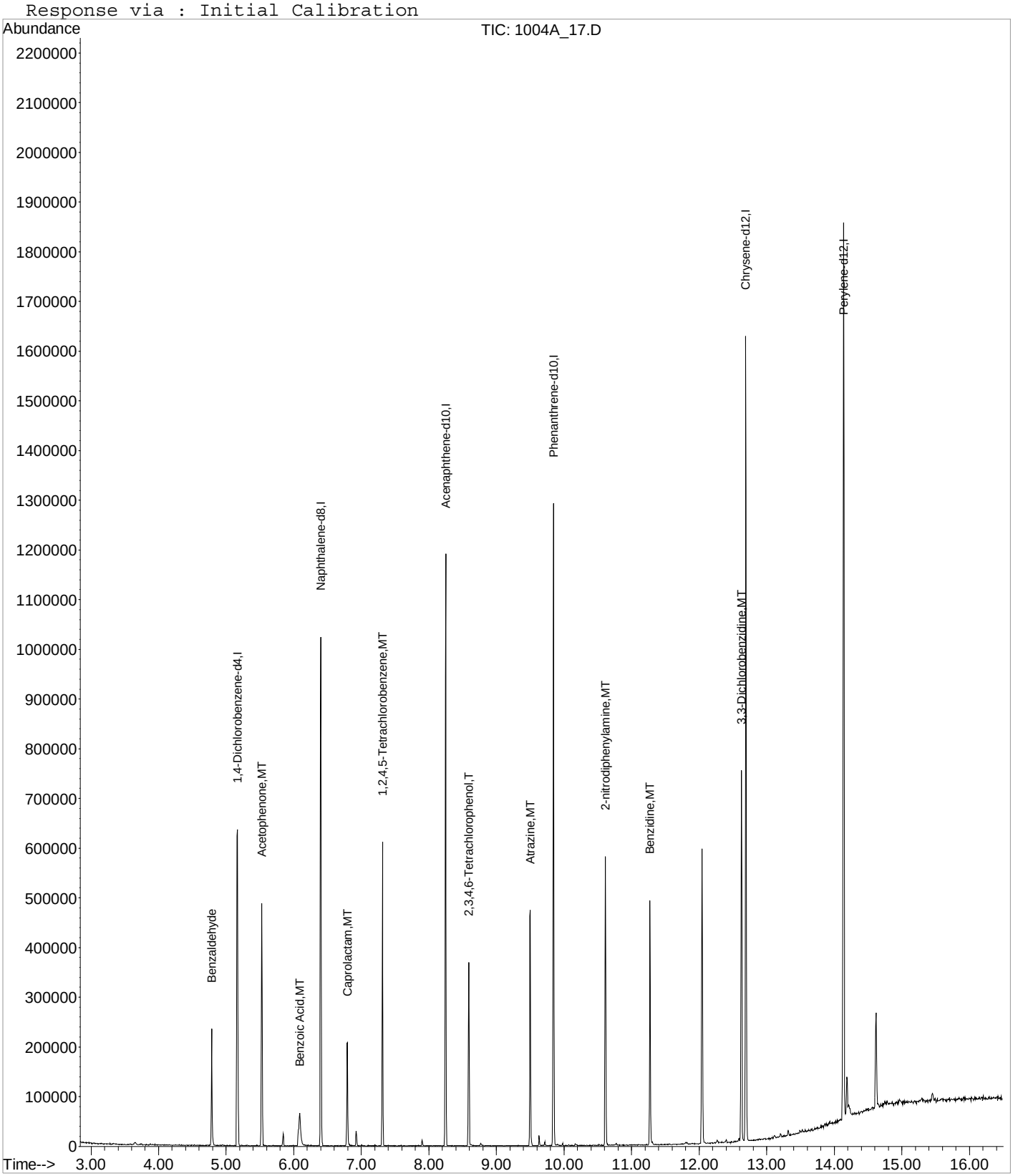
	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
39)	1,2,4,5-Tetrachlorobenzene	7.31	216	87412	4895.9666928 ppb	100
41)	Hexachlorocyclopentadiene	0.00	237	0	N.D.	
42)	2,4,6-Trichlorophenol	0.00	196	0	N.D.	
43)	2,4,5-Trichlorophenol	0.00	196	0	N.D.	
45)	Biphenyl	0.00	154	0	N.D.	
46)	2-Chloronaphthalene	0.00	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.	
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.	
56)	2,3,4,6-Tetrachlorophenol	8.59	232	36688	5198.3720350 ppb	90
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.	
61)	4-Nitroaniline	0.00	138	0	N.D.	
62)	Azobenzene	0.00	77	0	N.D. d	
63)	Atrazine	9.50	200	51761	4927.9353198 ppb	98
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	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	10.61	167	66170	5751.6062967 ppb	97
77)	Fluoranthene	0.00	202	0	N.D. d	
79)	Benzidine	11.27	184	175221	6163.9626739 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	12.62	252	141089	5189.9679817 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.	
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\100414A\1004A 17.D Vial: 15
Acq On : 4 Oct 2014 6:09 pm Operator: 280
Sample : STD TCL 5K1 PPB 14G21532 Inst : BNAMS11
Misc : 8270 TCL Calibration Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 4 18:35 2014 Quant Results File: S811J04N.RES

Method : C:\MSDCHEM\1\METHODS\S811J04N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Sat Oct 04 20:15:55 2014
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\100414A\1004A 18.D Vial: 16
Acq On : 4 Oct 2014 6:30 pm Operator: 280
Sample : STD TCL 20K1 PPB 14G21532 Inst : BNAMS11
Misc : 8270 TCL Calibration Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 4 19:00 2014 Quant Results File: S811J04N.RES

Quant Method : C:\MSDCHEM\1\METHODS\S811J04N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Sat Oct 04 18:55:37 2014
Response via : Initial Calibration
DataAcq Meth : BNA11

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	5.17	152	99266	8000.00 ppb	0.00
22) Naphthalene-d8	6.40	136	406699	8000.00 ppb	0.00
40) Acenaphthene-d10	8.25	164	264080	8000.00 ppb	0.00
64) Phenanthrene-d10	9.84	188	496689	8000.00 ppb	0.00
78) Chrysene-d12	12.69	240	577949	8000.00 ppb	0.00
88) Perylene-d12	14.14	264	684490	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	0	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	4.79	105	182443	24826.3504237 ppb	96
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.	
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.	
20) 3&4-Methyl phenol	0.00	107	0	N.D. d	
21) Acetophenone	5.53	105	478112	20824.9743894 ppb	100
24) Nitrobenzene	0.00	77	0	N.D. d	
25) Isophorone	0.00	82	0	N.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	6.13	105	211471	37523.3121068 ppb	85
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	6.82	113	98738	21756.6302787 ppb	92
36) 4-Chloro-3-methylphenol	0.00	107	0	N.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\100414A\1004A 18.D Vial: 16
Acq On : 4 Oct 2014 6:30 pm Operator: 280
Sample : STD TCL 20K1 PPB 14G21532 Inst : BNAMS11
Misc : 8270 TCL Calibration Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 4 19:00 2014 Quant Results File: S811J04N.RES

Quant Method : C:\MSDCHEM\1\METHODS\S811J04N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Sat Oct 04 18:55:37 2014
Response via : Initial Calibration
DataAcq Meth : BNA11

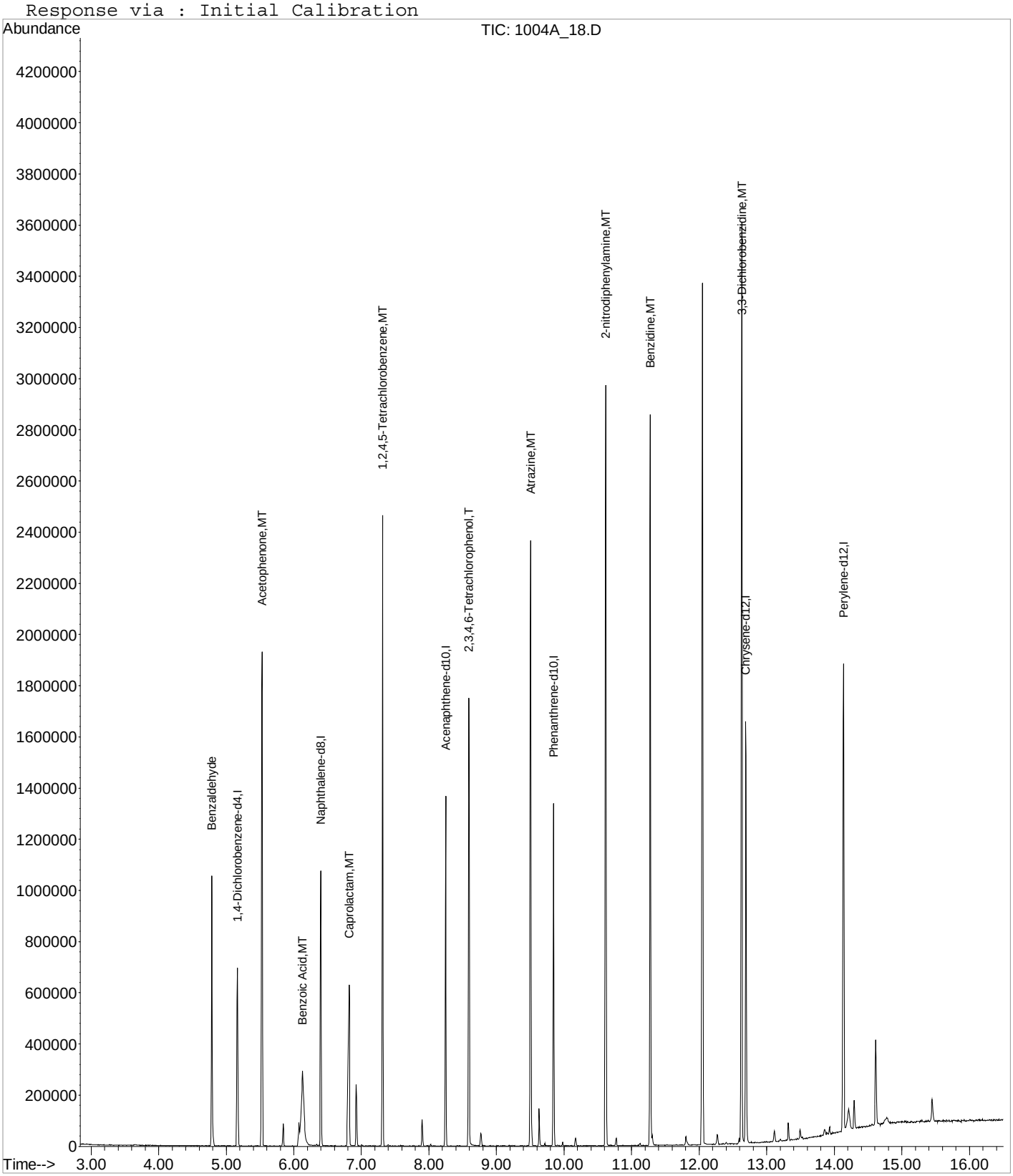
	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
39)	1,2,4,5-Tetrachlorobenzene	7.31	216	391851	20819.1095036 ppb	99
41)	Hexachlorocyclopentadiene	0.00	237	0	N.D.	
42)	2,4,6-Trichlorophenol	0.00	196	0	N.D. d	
43)	2,4,5-Trichlorophenol	0.00	196	0	N.D.	
45)	Biphenyl	0.00	154	0	N.D.	
46)	2-Chloronaphthalene	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.	
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.	
56)	2,3,4,6-Tetrachlorophenol	8.59	232	190483	24422.3371709 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	9.51	200	268512	23382.9819769 ppb	96
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	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	10.62	167	394254	29832.3147787 ppb	98
77)	Fluoranthene	0.00	202	0	N.D. d	
79)	Benzidine	11.28	184	1049773	31624.7812218 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	12.63	252	703049	23003.3617449 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.	

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\100414A\1004A 18.D Vial: 16
Acq On : 4 Oct 2014 6:30 pm Operator: 280
Sample : STD TCL 20K1 PPB 14G21532 Inst : BNAMS11
Misc : 8270 TCL Calibration Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 4 19:00 2014 Quant Results File: S811J04N.RES

Method : C:\MSDCHEM\1\METHODS\S811J04N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Sat Oct 04 20:15:55 2014
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\100414A\1004A 19.D Vial: 17
Acq On : 4 Oct 2014 6:51 pm Operator: 280
Sample : STD TCL 30K1 PPB 14G21532 Inst : BNAMS11
Misc : 8270 TCL Calibration Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 4 20:04 2014 Quant Results File: S811J04N.RES

Quant Method : C:\MSDCHEM\1\METHODS\S811J04N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Sat Oct 04 19:00:57 2014
Response via : Initial Calibration
DataAcq Meth : BNA11

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	5.17	152	98223	8000.00 ppb	0.00
22) Naphthalene-d8	6.40	136	400396	8000.00 ppb	0.00
40) Acenaphthene-d10	8.25	164	249732	8000.00 ppb	0.00
64) Phenanthrene-d10	9.84	188	482204	8000.00 ppb	0.00
78) Chrysene-d12	12.69	240	564981	8000.00 ppb	0.00
88) Perylene-d12	14.14	264	666233	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	0	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	4.79	105	274555	36297.5518058 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.	
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	5.53	105	723612	31635.3361854 ppb	99
24) Nitrobenzene	0.00	77	0	N.D. d	
25) Isophorone	0.00	82	0	N.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	6.15	105	338328	53207.9571720 ppb	100
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	6.84	113	146237	32257.9359267 ppb	93
36) 4-Chloro-3-methylphenol	0.00	107	0	N.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\100414A\1004A 19.D Vial: 17
Acq On : 4 Oct 2014 6:51 pm Operator: 280
Sample : STD TCL 30K1 PPB 14G21532 Inst : BNAMS11
Misc : 8270 TCL Calibration Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 4 20:04 2014 Quant Results File: S811J04N.RES

Quant Method : C:\MSDCHEM\1\METHODS\S811J04N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Sat Oct 04 19:00:57 2014
Response via : Initial Calibration
DataAcq Meth : BNA11

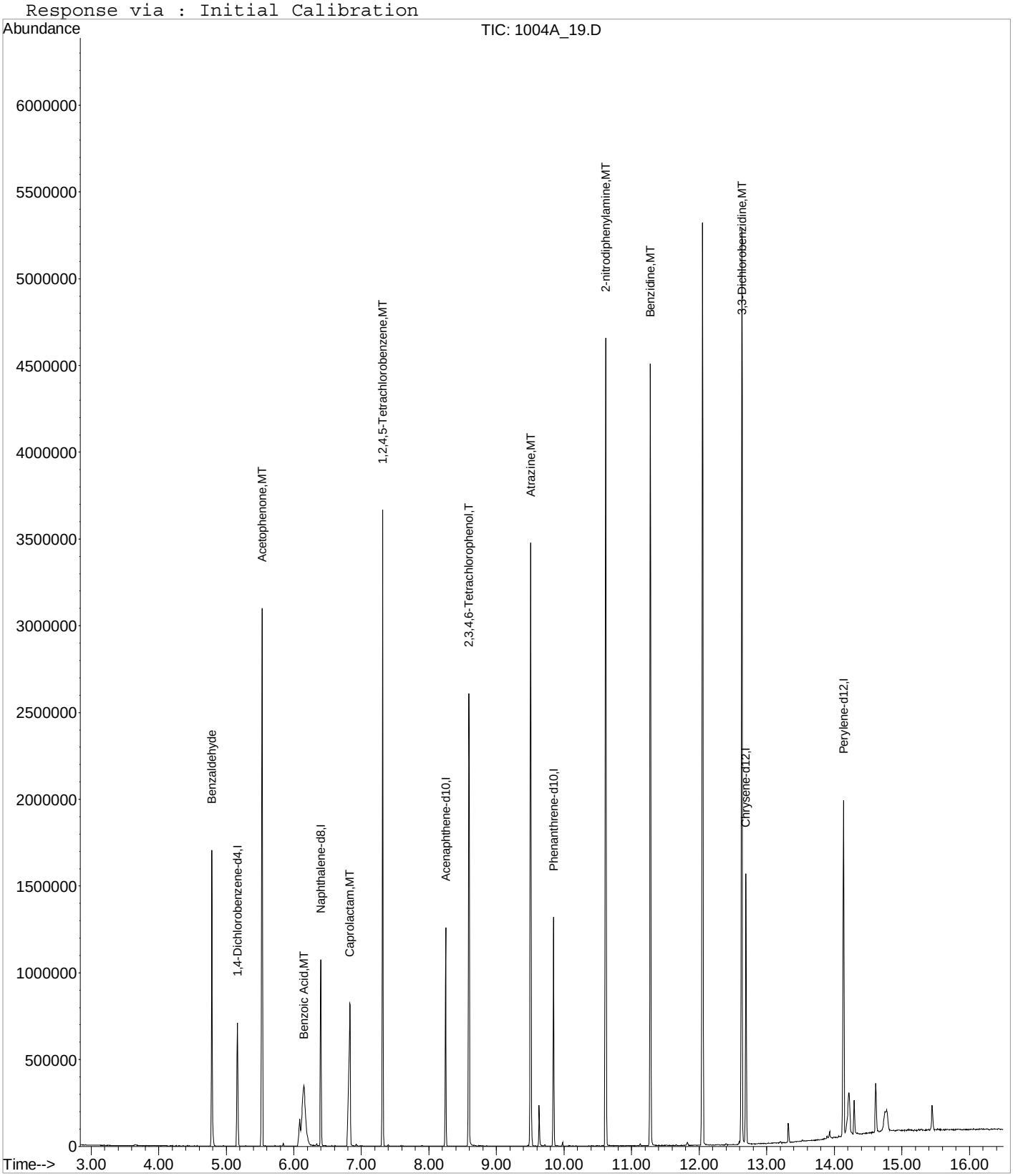
	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
39)	1,2,4,5-Tetrachlorobenzene	7.32	216	585713	31394.6064591 ppb	99
41)	Hexachlorocyclopentadiene	0.00	237	0	N.D.	
42)	2,4,6-Trichlorophenol	0.00	196	0	N.D. d	
43)	2,4,5-Trichlorophenol	0.00	196	0	N.D.	
45)	Biphenyl	0.00	154	0	N.D.	
46)	2-Chloronaphthalene	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.	
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	8.59	232	288166	37680.6118115 ppb	98
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.	
61)	4-Nitroaniline	0.00	138	0	N.D.	
62)	Azobenzene	0.00	77	0	N.D. d	
63)	Atrazine	9.51	200	396546	35515.4293117 ppb	96
65)	4,6-Dinitro-2-methylphenol	0.00	198	0	N.D. 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	10.62	167	609498	43907.1561205 ppb	97
77)	Fluoranthene	0.00	202	0	N.D.	
79)	Benzidine	11.28	184	1648806	46323.4554542 ppb	100
80)	Pyrene	0.00	202	0	N.D.	
82)	Benzylbutyl phthalate	0.00	149	0	N.D. d	
83)	3,3-Dichlorobenzidine	12.63	252	1075460	35117.2027473 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\100414A\1004A 19.D Vial: 17
Acq On : 4 Oct 2014 6:51 pm Operator: 280
Sample : STD TCL 30K1 PPB 14G21532 Inst : BNAMS11
Misc : 8270 TCL Calibration Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 4 20:04 2014 Quant Results File: S811J04N.RES

Method : C:\MSDCHEM\1\METHODS\S811J04N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Sat Oct 04 20:15:55 2014
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\100414A\1004A 20.D Vial: 18
Acq On : 4 Oct 2014 7:12 pm Operator: 280
Sample : STD TCL 40K1 PPB 14G21532 Inst : BNAMS11
Misc : 8270 TCL Calibration Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 4 20:09 2014 Quant Results File: S811J04N.RES

Quant Method : C:\MSDCHEM\1\METHODS\S811J04N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Sat Oct 04 20:05:08 2014
Response via : Initial Calibration
DataAcq Meth : BNA11

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	5.17	152	97952	8000.00 ppb	0.00
22) Naphthalene-d8	6.40	136	378302	8000.00 ppb	0.00
40) Acenaphthene-d10	8.25	164	246797	8000.00 ppb	0.00
64) Phenanthrene-d10	9.85	188	463599	8000.00 ppb	0.00
78) Chrysene-d12	12.69	240	545730	8000.00 ppb	0.00
88) Perylene-d12	14.14	264	638369	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	0	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.	
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	4.79	105	369239	47525.1088478 ppb	98
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.	
20) 3&4-Methyl phenol	0.00	107	0	N.D. d	
21) Acetophenone	5.53	105	951770	41402.7991934 ppb	99
24) Nitrobenzene	0.00	77	0	N.D. d	
25) Isophorone	0.00	82	0	N.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	6.17	105	449695	67403.6982254 ppb	99
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	6.84	113	191579	44252.0769370 ppb	88
36) 4-Chloro-3-methylphenol	0.00	107	0	N.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\100414A\1004A 20.D Vial: 18
Acq On : 4 Oct 2014 7:12 pm Operator: 280
Sample : STD TCL 40K1 PPB 14G21532 Inst : BNAMS11
Misc : 8270 TCL Calibration Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 4 20:09 2014 Quant Results File: S811J04N.RES

Quant Method : C:\MSDCHEM\1\METHODS\S811J04N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Sat Oct 04 20:05:08 2014
Response via : Initial Calibration
DataAcq Meth : BNA11

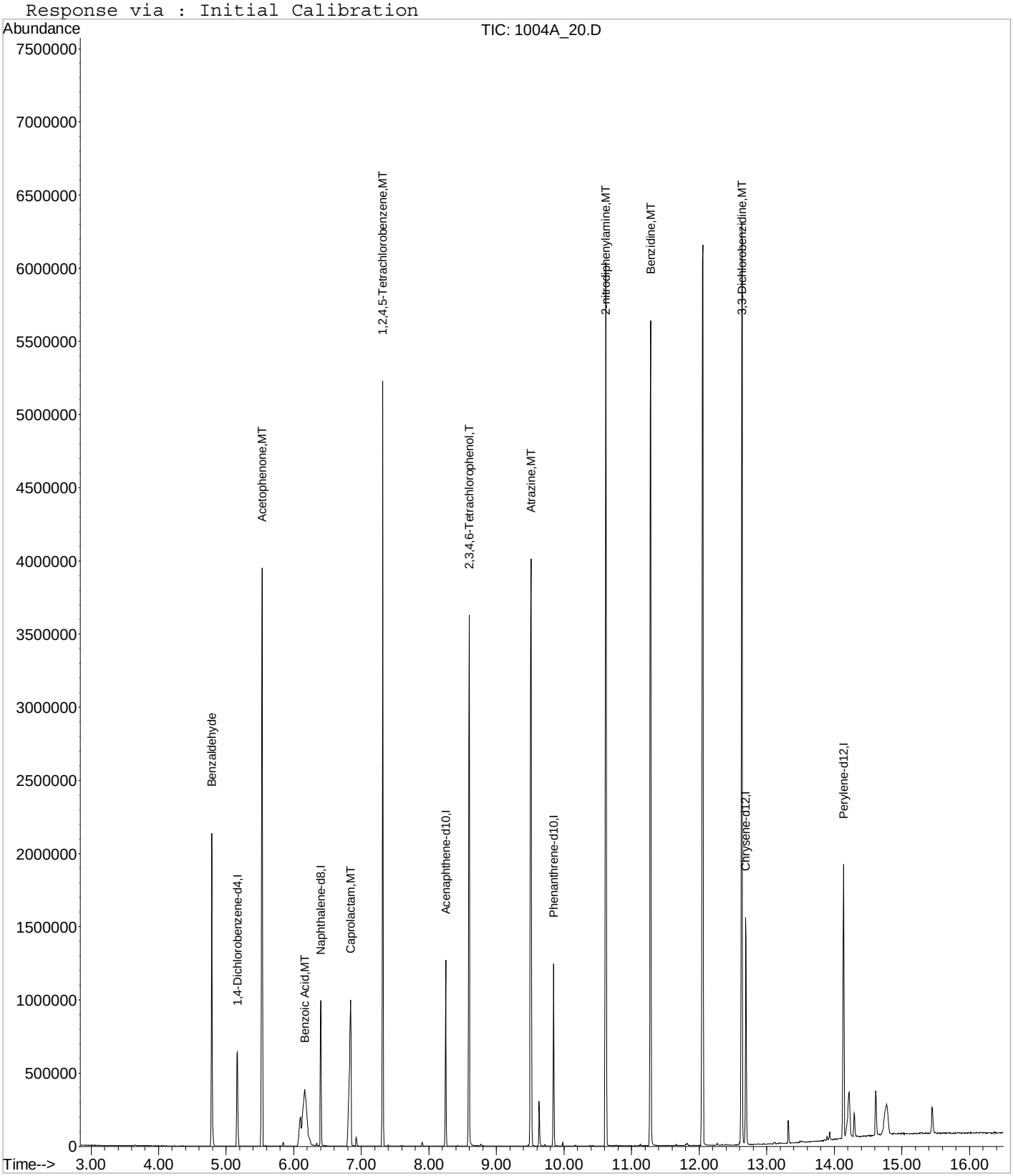
	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
39)	1,2,4,5-Tetrachlorobenzene	7.32	216	759498	42802.9103686 ppb	99
41)	Hexachlorocyclopentadiene	0.00	237	0	N.D.	
42)	2,4,6-Trichlorophenol	0.00	196	0	N.D. d	
43)	2,4,5-Trichlorophenol	0.00	196	0	N.D.	
45)	Biphenyl	0.00	154	0	N.D.	
46)	2-Chloronaphthalene	0.00	162	0	N.D.	
47)	2-Nitroaniline	0.00	138	0	N.D.	
48)	Acenaphthylene	0.00	152	0	N.D. 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.	
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	8.60	232	373025	47615.3532882 ppb	92
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. 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	9.51	200	510760	45104.0582635 ppb	98
65)	4,6-Dinitro-2-methylphenol	0.00	198	0	N.D. 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	10.62	167	809255	56870.6319344 ppb	97
77)	Fluoranthene	0.00	202	0	N.D. d	
79)	Benzidine	11.28	184	2132845	57562.0732268 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	12.64	252	1377466	45457.6214786 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.	
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\100414A\1004A 20.D Vial: 18
Acq On : 4 Oct 2014 7:12 pm Operator: 280
Sample : STD TCL 40K1 PPB 14G21532 Inst : BNAMS11
Misc : 8270 TCL Calibration Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 4 20:09 2014 Quant Results File: S811J04N.RES

Method : C:\MSDCHEM\1\METHODS\S811J04N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Sat Oct 04 20:15:55 2014
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\100414A\1004A 21.D Vial: 19
Acq On : 4 Oct 2014 7:33 pm Operator: 280
Sample : STD TCL 50K1 PPB 14G21532 Inst : BNAMS11
Misc : 8270 TCL Calibration Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 4 20:10 2014 Quant Results File: S811J04N.RES

Quant Method : C:\MSDCHEM\1\METHODS\S811J04N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Sat Oct 04 20:10:04 2014
Response via : Initial Calibration
DataAcq Meth : BNA11

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	5.17	152	94468	8000.00 ppb	0.00
22) Naphthalene-d8	6.40	136	383737	8000.00 ppb	0.00
40) Acenaphthene-d10	8.25	164	244684	8000.00 ppb	0.00
64) Phenanthrene-d10	9.85	188	467988	8000.00 ppb	0.00
78) Chrysene-d12	12.70	240	545608	8000.00 ppb	0.00
88) Perylene-d12	14.14	264	661826	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	0	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	4.79	105	434099	56602.8508265 ppb	98
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.	
20) 3&4-Methyl phenol	0.00	107	0	N.D. d	
21) Acetophenone	5.53	105	1190205	53450.0817120 ppb	98
24) Nitrobenzene	0.00	77	0	N.D. d	
25) Isophorone	0.00	82	0	N.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. d	
30) Benzoic Acid	6.18	105	608966	82885.6246249 ppb	100
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	6.85	113	243907	54812.8260885 ppb	92
36) 4-Chloro-3-methylphenol	0.00	107	0	N.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\100414A\1004A 21.D Vial: 19
Acq On : 4 Oct 2014 7:33 pm Operator: 280
Sample : STD TCL 50K1 PPB 14G21532 Inst : BNAMS11
Misc : 8270 TCL Calibration Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 4 20:10 2014 Quant Results File: S811J04N.RES

Quant Method : C:\MSDCHEM\1\METHODS\S811J04N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Sat Oct 04 20:10:04 2014
Response via : Initial Calibration
DataAcq Meth : BNA11

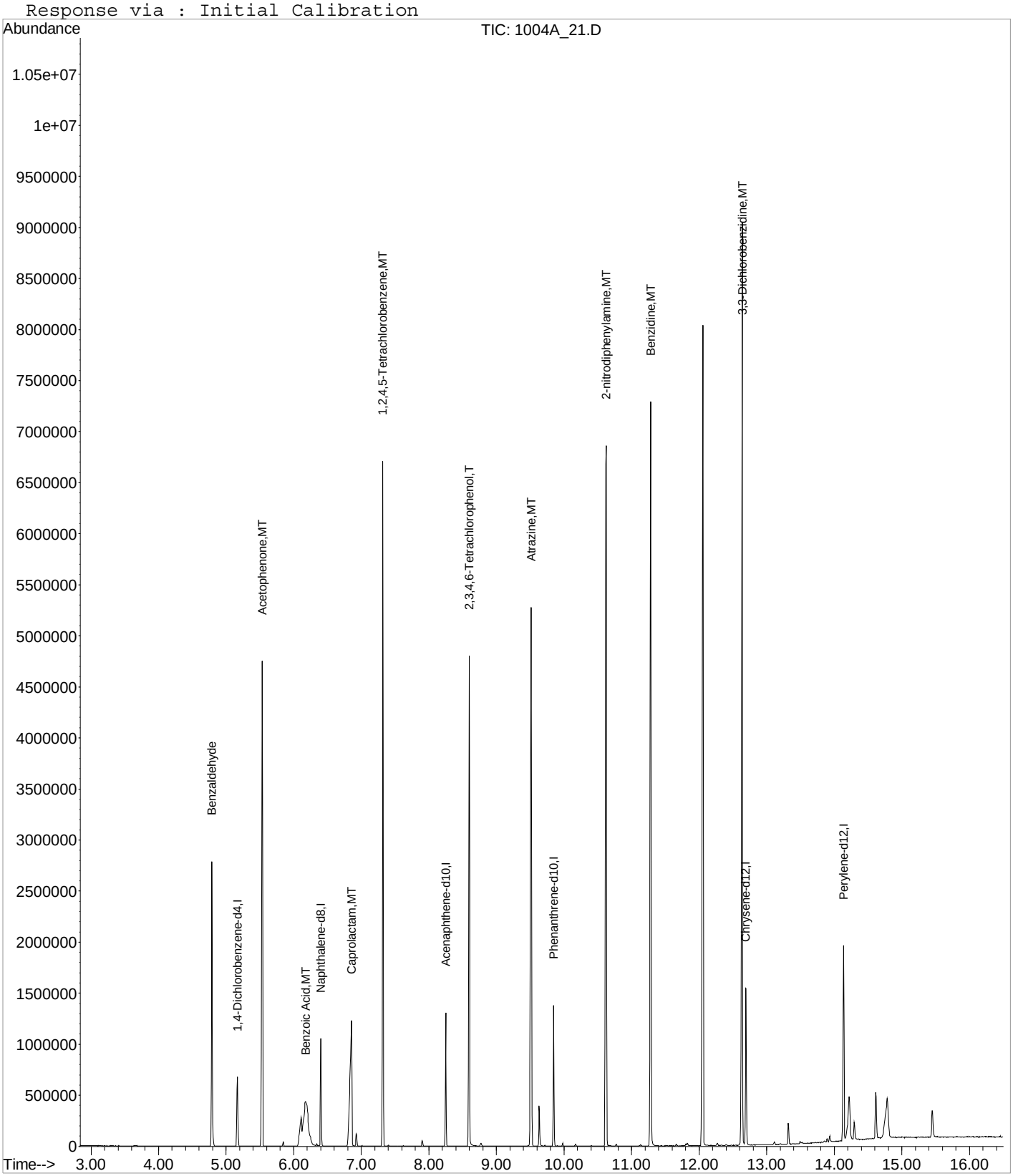
	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
39)	1,2,4,5-Tetrachlorobenzene	7.32	216	982952	54137.2852304 ppb	100
41)	Hexachlorocyclopentadiene	0.00	237	0	N.D.	
42)	2,4,6-Trichlorophenol	0.00	196	0	N.D. d	
43)	2,4,5-Trichlorophenol	0.00	196	0	N.D.	
45)	Biphenyl	0.00	154	0	N.D.	
46)	2-Chloronaphthalene	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.	
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.	
56)	2,3,4,6-Tetrachlorophenol	8.60	232	487534	61310.3812754 ppb	99
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	9.51	200	652983	57248.2885979 ppb	96
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	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	10.62	167	1048768	69354.8266849 ppb	97
77)	Fluoranthene	0.00	202	0	N.D.	
79)	Benzidine	11.28	184	2685510	68722.2449490 ppb	100
80)	Pyrene	0.00	202	0	N.D.	
82)	Benzylbutyl phthalate	0.00	149	0	N.D. d	
83)	3,3-Dichlorobenzidine	12.64	252	1793806	58217.5498214 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\100414A\1004A 21.D Vial: 19
Acq On : 4 Oct 2014 7:33 pm Operator: 280
Sample : STD TCL 50K1 PPB 14G21532 Inst : BNAMS11
Misc : 8270 TCL Calibration Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 4 20:10 2014 Quant Results File: S811J04N.RES

Method : C:\MSDCHEM\1\METHODS\S811J04N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Sat Oct 04 20:15:55 2014
Response via : Initial Calibration



Mint Miner 2.6.4 Directory Scan: z:\100414A

6 Oct 2014 09:54

Level	Status	Code	Operator	Instrument	Sample ID
Scan File Path: z:\100414A\1004A_01.D					
Original Path: z:\100414A\1004A_01.D					
0	No Audit				
Scan File Path: z:\100414A\1004A_02.D					
Original Path: C:\MSDCHEM\1\DATA\100414A\1004A_02.D					
0	Scanned		280	BNAMS11	INSTBLK SVOC (instrument blank)
Scan File Path: z:\100414A\1004A_03.D					
Original Path: C:\MSDCHEM\1\DATA\100414A\1004A_03.D					
5	Scanned	TA(1)	280	BNAMS11	TUNE 50 PPM 14F19703 (DFTPP)
Scan File Path: z:\100414A\1004A_04.D					
Original Path: C:\MSDCHEM\1\DATA\100414A\1004A_04.D					
18	Scanned	M(4), D(9), MR(1)	280	BNAMS11	MSTD SVMS 10K PPB 14G09881 (8270 Primar
Scan File Path: z:\100414A\1004A_05.D					
Original Path: C:\MSDCHEM\1\DATA\100414A\1004A_05.D					
20	Scanned	D(8), MC(1), MB(1), M(3), MR(1)	280	BNAMS11	STD SVMS 200 PPB 14G09881 (8270 Primary C
Scan File Path: z:\100414A\1004A_05MRL.D					
Original Path: C:\MSDCHEM\1\DATA\100414A\1004A_05MRL.D					
85	Scanned	D(8), MC(5), MB(5), M(9), MR(5), QM(1), MT(3), MM(1), ENR(1)	280	BNAMS11	MRL SVMS 200 PPB 14G09881 (8270 Primary C
Scan File Path: z:\100414A\1004A_06.D					
Original Path: C:\MSDCHEM\1\DATA\100414A\1004A_06.D					
10	Scanned	D(8), M(2)	280	BNAMS11	STD SVMS 1K PPB 14G09881 (8270 Primary C
Scan File Path: z:\100414A\1004A_07.D					
Original Path: C:\MSDCHEM\1\DATA\100414A\1004A_07.D					
11	Scanned	D(9), M(2)	280	BNAMS11	STD SVMS 2K PPB 14G09881 (8270 Primary C
Scan File Path: z:\100414A\1004A_07mrl.D					
Original Path: C:\MSDCHEM\1\DATA\100414A\1004A_07MRL.D					
26	Scanned	D(9), M(4), QM(1), MT(2), ENR(1)	280	BNAMS11	MRL SVMS 2K PPB 14G09881 (8270 Primary C
Scan File Path: z:\100414A\1004A_08.D					
Original Path: C:\MSDCHEM\1\DATA\100414A\1004A_08.D					
19	Scanned	D(9), DB(1), MQ(1), MB(1), M(3)	280	BNAMS11	STD SVMS 5K PPB 14G09881 (8270 Primary C

Level	Status	Code	Operator	Instrument	Sample ID
Scan File Path: z:\100414A\1004A_09.D					
Original Path: C:\MSDCHEM\1\DATA\100414A\1004A_09.D					
19	Scanned	D(9), M(5), MR(1)	280	BNAMS11	STD SVMS 20K PPB 14G09881 (8270 Primary
Scan File Path: z:\100414A\1004A_10.D					
Original Path: C:\MSDCHEM\1\DATA\100414A\1004A_10.D					
14	Scanned	D(10), M(4)	280	BNAMS11	STD SVMS 30K PPB 14G09881 (8270 Primary
Scan File Path: z:\100414A\1004A_11.D					
Original Path: C:\MSDCHEM\1\DATA\100414A\1004A_11.D					
19	Scanned	D(9), M(5), MR(1)	280	BNAMS11	STD SVMS 40K PPB 14G09881 (8270 Primary
Scan File Path: z:\100414A\1004A_12.D					
Original Path: C:\MSDCHEM\1\DATA\100414A\1004A_12.D					
15	Scanned	D(10), M(5)	280	BNAMS11	STD SVMS 50K PPB 14G09881 (8270 Primary
Scan File Path: z:\100414A\1004A_13.D					
Original Path: C:\MSDCHEM\1\DATA\100414A\1004A_13.D					
144	Scanned	D(82), DC(8), DK(8), DS(4), DP(2), DB(8)	280	BNAMS11	MSTD TCL 10K PPB 14G09881 (8270 Primary
Scan File Path: z:\100414A\1004A_14.D					
Original Path: C:\MSDCHEM\1\DATA\100414A\1004A_14.D					
68	Scanned	D(34), DB(6), DC(3), DK(1)	280	BNAMS11	STD TCL .2K PPB 14G21532 (8270 TCL Calibra
Scan File Path: z:\100414A\1004A_15.D					
Original Path: C:\MSDCHEM\1\DATA\100414A\1004A_15.D					
71	Scanned	D(38), DS(1), DK(3), DB(5), DC(4)	280	BNAMS11	STD TCL 1K PPB 14G21532 (8270 TCL Calibra
Scan File Path: z:\100414A\1004A_16.D					
Original Path: C:\MSDCHEM\1\DATA\100414A\1004A_16.D					
66	Scanned	D(33), DS(1), DK(3), DC(4), DB(5)	280	BNAMS11	STD TCL 2K PPB 14G21532 (8270 TCL Calibra
Scan File Path: z:\100414A\1004A_16MRL.D					
Original Path: C:\MSDCHEM\1\DATA\100414A\1004A_16.D					
66	Scanned	D(33), DS(1), DK(3), DC(4), DB(5)	280	BNAMS11	STD TCL 2K PPB 14G21532 (8270 TCL Calibra
Scan File Path: z:\100414A\1004A_17.D					
Original Path: C:\MSDCHEM\1\DATA\100414A\1004A_17.D					
61	Scanned	D(34), DK(3), DC(4), DB(4)	280	BNAMS11	STD TCL 5K PPB 14G21532 (8270 TCL Calibra

Level	Status	Code	Operator	Instrument	Sample ID
Scan File Path: z:\100414A\1004A_18.D					
Original Path: C:\MSDCHEM\1\DATA\100414A\1004A_18.D					
85	Scanned	D(46), DC(7), DK(5), DS(2), DB(5)	280	BNAMS11	STD TCL 20K PPB 14G21532 (8270 TCL Calibr
Scan File Path: z:\100414A\1004A_19.D					
Original Path: C:\MSDCHEM\1\DATA\100414A\1004A_19.D					
79	Scanned	D(47), DC(5), DK(4), DP(1), DS(2), DB(4)	280	BNAMS11	STD TCL 30K PPB 14G21532 (8270 TCL Calibr
Scan File Path: z:\100414A\1004A_20.D					
Original Path: C:\MSDCHEM\1\DATA\100414A\1004A_20.D					
83	Scanned	D(46), DC(6), DK(4), DS(2), DB(5)	280	BNAMS11	STD TCL 40K PPB 14G21532 (8270 TCL Calibr
Scan File Path: z:\100414A\1004A_21.D					
Original Path: C:\MSDCHEM\1\DATA\100414A\1004A_21.D					
80	Scanned	D(44), DC(6), DK(3), DS(2), DB(5)	280	BNAMS11	STD TCL 50K PPB 14G21532 (8270 TCL Calibr
Scan File Path: z:\100414A\1004A_22.D					
Original Path: C:\MSDCHEM\1\DATA\100414A\1004A_22.D					
3	Scanned	M(3)	280	BNAMS11	SSCV SVMS 10K PPB 14C29003 (8270 sscv)
Scan File Path: z:\100414A\1004A_23.D					
Original Path: C:\MSDCHEM\1\DATA\100414A\1004A_23.D					
5	Scanned	TA(1)	280	BNAMS11	TUNE 50 PPM 14F19703 (DFTPP)
Scan File Path: z:\100414A\1004A_24.D					
Original Path: C:\MSDCHEM\1\DATA\100414A\1004A_24.D					
0	Scanned		280	BNAMS11	ICV SVMS 10K PPB 14G09881 (8270 Primary S
Scan File Path: z:\100414A\1004A_25.D					
Original Path: C:\MSDCHEM\1\DATA\100414A\1004A_25.D					
0	Scanned		280	BNAMS11	ICV TCL 10K PPB 14G09881 (8270 Primary Sta
Scan File Path: z:\100414A\1004A_26.D					
Original Path: z:\100414A\1004A_26.D					
0	No Audit				
Scan File Path: z:\100414A\1004A_27.D					
Original Path: z:\100414A\1004A_27.D					
0	No Audit				
Scan File Path: z:\100414A\1004A_28.D					
Original Path: z:\100414A\1004A_28.D					
0	No Audit				

Level	Status	Code	Operator	Instrument	Sample ID
Scan File Path: z:\100414A\1004A_29.D					
Original Path: z:\100414A\1004A_29.D					
0	No Audit				
Scan File Path: z:\100414A\1004A_30.D					
Original Path: z:\100414A\1004A_30.D					
0	No Audit				
Scan File Path: z:\100414A\1004A_31.D					
Original Path: z:\100414A\1004A_31.D					
0	No Audit				
Scan File Path: z:\100414A\1004A_32.D					
Original Path: z:\100414A\1004A_32.D					
0	No Audit				
Scan File Path: z:\100414A\1004A_33.D					
Original Path: z:\100414A\1004A_33.D					
0	No Audit				
Scan File Path: z:\100414A\1004A_34.D					
Original Path: z:\100414A\1004A_34.D					
0	No Audit				
Scan File Path: z:\100414A\1004A_35.D					
Original Path: z:\100414A\1004A_35.D					
0	No Audit				
Scan File Path: z:\100414A\1004A_36.D					
Original Path: z:\100414A\1004A_36.D					
0	No Audit				
Scan File Path: z:\100414A\1004A_37.D					
Original Path: z:\100414A\1004A_37.D					
0	No Audit				
Scan File Path: z:\100414A\1004A_38.D					
Original Path: z:\100414A\1004A_38.D					
0	No Audit				
Scan File Path: z:\100414A\1004A_39.D					
Original Path: z:\100414A\1004A_39.D					
0	No Audit				

Level	Status	Code	Operator	Instrument	Sample ID
Scan File Path: z:\100414A\1004A_40.D					
Original Path: z:\100414A\1004A_40.D					
0	No Audit				
Scan File Path: z:\100414A\1004A_41.D					
Original Path: z:\100414A\1004A_41.D					
0	No Audit				
Scan File Path: z:\100414A\1004A_42.D					
Original Path: z:\100414A\1004A_42.D					
0	No Audit				
Scan File Path: z:\100414A\1004A_43.D					
Original Path: z:\100414A\1004A_43.D					
0	No Audit				
Scan File Path: z:\100414A\1004A_44.D					
Original Path: z:\100414A\1004A_44.D					
0	No Audit				
Scan File Path: z:\100414A\1004A_45.D					
Original Path: z:\100414A\1004A_45.D					
0	No Audit				
Scan File Path: z:\100414A\1004A_46.D					
Original Path: z:\100414A\1004A_46.D					
0	No Audit				
Scan File Path: z:\100414A\1004A_47.D					
Original Path: z:\100414A\1004A_47.D					
0	No Audit				
Scan File Path: z:\100414A\1004A_48.D					
Original Path: z:\100414A\1004A_48.D					
0	No Audit				
Scan File Path: z:\100414A\1004A_49.D					
Original Path: z:\100414A\1004A_49.D					
0	No Audit				
Scan File Path: z:\100414A\1004A_50.D					
Original Path: z:\100414A\1004A_50.D					
0	No Audit				

Level	Status	Code	Operator	Instrument	Sample ID
Scan File Path: z:\100414A\1004A_51.D					
Original Path: z:\100414A\1004A_51.D					
0	No Audit				
Scan File Path: z:\100414A\1004A_52.D					
Original Path: C:\MSDCHEM\1\DATA\100414A\1004A_52.D					
1	Scanned	ENR(1)	280	BNAMS11	RR L724152-02 1x WG746206 15-0.5 (soil 14I1
Scan File Path: z:\100414A\1004A_53.D					
Original Path: z:\100414A\1004A_53.D					
0	No Audit				
Scan File Path: z:\100414A\1004A_54.D					
Original Path: z:\100414A\1004A_54.D					
0	No Audit				
Scan File Path: z:\100414A\1004A_55.D					
Original Path: z:\100414A\1004A_55.D					
0	No Audit				
Scan File Path: z:\100414A\1004A_56.D					
Original Path: C:\MSDCHEM\1\DATA\100414A\1004A_56.D					
1	Scanned	ENR(1)	280	BNAMS11	L723663-10 10x WG745753 15-1 (soil 14I17635
Scan File Path: z:\100414A\1004A_57.D					
Original Path: C:\MSDCHEM\1\DATA\100414A\1004A_57.D					
1	Scanned	ENR(1)	280	BNAMS11	TT L723859-18 10x WG746026 15-5 (soil 14I17
Scan File Path: z:\100414A\1004A_58.D					
Original Path: C:\MSDCHEM\1\DATA\100414A\1004A_58.D					
1	Scanned	ENR(1)	280	BNAMS11	L723859-22 10x WG746026 15-5 (soil 14I17635
Scan File Path: z:\100414A\1004A_59.D					
Original Path: z:\100414A\1004A_59.D					
0	No Audit				

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)
MB	=	Manual integration of a common contaminant	MC	=	Manual integration of a CCC
MM	=	More than 3 manual integrations of the same analyte	MQ	=	Manual integration and deletion 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	TA	=	Tune spectrum obtained by spectral averaging

Level	Status	Code	Operator	Instrument	Sample ID

ScanSummary.rpt

Total Files Scanned	62	Beginning Analyzed Date	10/4/2014 12:03:59PM
Methods	0	Ending Analyzed Date	10/5/2014 7:49:54PM
Samples	60	Analyzed Range	31 hours, 46 minutes
Tunes	2	Greatest Time Between Tunes	7 hours, 38 minutes
CCCs	0	Greatest Time Between CCCs	N/A

Distinct Method Last Updated count 4
Operators 1 Intruments 1

Semi-Volatiles by Method 8270 C-SIM

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Est. 1970

Quality Control Summary
SDG: L729800

Semi-Volatiles by Method 8270 C-SIM
URS Corporation - Tucson AZ - 1088308

Project: Holloman AFB
Project No: 23446543.0053AA

Login No: L729800

Lab SampleID.	Client ID
L729800-01	H-TU904-GW03-NT01
L729800-02	H-TU904-GW03-ND01

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: L729800
URS Corporation - Tucson AZ - 1088308

Test:	Semi-Volatiles by Method 8270 C-SIM		
Project No:	23446543.0053AA	Matrix:	Water - ug/L
Project:	Holloman AFB	EPA ID:	TN00003
Collection Date:	10/23/2014	**Analytic Batch:**	**WG750797**
Analysis Date:	10/29/2014	Analyst:	282
Instrument ID:	BNAMS13	Prep Date:	10/25/2014
Sample Numbers:	L729800-01		

Workgroup: **WG750797**
Description: **PAHs by SIM by Method 8270 C-SIM (GW)**

Sample Name	Collect Date	Prep Date	Analysis Date
L729800-01 1x	10/23/2014	10/27/2014	10/29/2014

Parameters in bold text are reported in this SDG

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Quality Control Summary
SDG: L729800
URS Corporation - Tucson AZ - 1088308

Test:	Semi-Volatiles by Method 8270 C-SIM		
Project No:	23446543.0053AA	Matrix:	Water - ug/L
Project:	Holloman AFB	EPA ID:	TN00003
Collection Date:	10/23/2014	**Analytic Batch:**	**WG750797**
Analysis Date:	10/29/2014	Analyst:	282
Instrument ID:	BNAMS13	Prep Date:	10/25/2014
Sample Numbers:	L729800-01		

Method Blank Summary

Instrument	Client Sample ID	Lab Sample ID	File Name	Analysis Date	Analysis Time
BNAMS13	LCS WG750797	LCS WG750797	1028_27.D	10/29/2014	9:20 AM
BNAMS13	LCSD WG750797	LCSD WG750797	1028_28.D	10/29/2014	9:41 AM
BNAMS13	Blank WG750797	Blank WG750797	1028_29.D	10/29/2014	10:03 AM
BNAMS13	MS WG750797	MS WG750797	1029_20.D	10/29/2014	7:07 PM
BNAMS13	MSD WG750797	MSD WG750797	1029_21.D	10/29/2014	7:29 PM
BNAMS13	H-TU904-GW03-NT01	L729800-01	1029_28.D	10/29/2014	9:59 PM
BNAMS13	MS WG750797	MS WG750797	1029_29.D	10/29/2014	10:21 PM
BNAMS13	MSD WG750797	MSD WG750797	1029_30.D	10/29/2014	10:42 PM

Parameters in bold text are reported in this SDG

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Quality Control Summary
SDG: L729800
URS Corporation - Tucson AZ - 1088308

Test:	Semi-Volatiles by Method 8270 C-SIM		
Project No:	23446543.0053AA	Matrix:	Water - ug/L
Project:	Holloman AFB	EPA ID:	TN00003
Collection Date:	10/23/2014	**Analytic Batch:**	**WG750797**
Analysis Date:	10/29/2014	Analyst:	282
Instrument ID:	BNAMS13	Prep Date:	10/25/2014
Sample Numbers:	L729800-01		

Method Blank

Analyte	CAS	RDL	MDL	Qualifier
2-Chloronaphthalene	91-58-7	< 1.00	< 0.330	
2-Methylnaphthalene	91-57-6	< 0.250	< 0.0155	
Acenaphthene	83-32-9	< 0.0500	< 0.00823	
Acenaphthylene	208-96-8	< 0.0500	< 0.0109	
Anthracene	120-12-7	< 0.0500	< 0.0131	
Benzo(a)anthracene	56-55-3	< 0.0500	< 0.0124	
Benzo(a)pyrene	50-32-8	< 0.0500	< 0.0158	
Benzo(b)fluoranthene	205-99-2	< 0.0500	< 0.0192	
Benzo(g,h,i)perylene	191-24-2	< 0.0500	< 0.0157	
Benzo(k)fluoranthene	207-08-9	< 0.0500	< 0.0255	
Chrysene	218-01-9	< 0.0500	< 0.0144	
Dibenz(a,h)anthracene	53-70-3	< 0.0500	< 0.00454	
Fluoranthene	206-44-0	< 0.0500	< 0.0165	
Fluorene	86-73-7	< 0.0500	< 0.00898	
Indeno(1,2,3-cd)pyrene	193-39-5	< 0.0500	< 0.00739	
Naphthalene	91-20-3	< 0.250	0.0182	
Phenanthrene	85-01-8	< 0.0500	< 0.0184	
Pyrene	129-00-0	< 0.0500	< 0.0155	

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Quality Control Summary
SDG: L729800
URS Corporation - Tucson AZ - 1088308

Test:	Semi-Volatiles by Method 8270 C-SIM		
Project No:	23446543.0053AA	Matrix:	Water - ug/L
Project:	Holloman AFB	EPA ID:	TN00003
Collection Date:	10/23/2014	**Analytic Batch:**	**WG750797**
Analysis Date:	10/29/2014	Analyst:	282
Instrument ID:	BNAMS13	Prep Date:	10/25/2014
Sample Numbers:	L729800-01		

Laboratory Control Sample (LCS)

Analyte	Dil	True Value	Found	% Rec	Control Limits	Qual
2-Chloronaphthalene	1	2	1.5315	76.6	50 - 106	
2-Methylnaphthalene	1	2	1.5790	78.9	45.5 - 113	
Acenaphthene	1	2	1.6841	84.2	49.4 - 111	
Acenaphthylene	1	2	1.6987	84.9	45.9 - 112	
Anthracene	1	2	1.9133	95.7	49.2 - 120	
Benzo(a)anthracene	1	2	1.9529	97.6	48.1 - 122	
Benzo(a)pyrene	1	2	1.8636	93.2	51 - 116	
Benzo(b)fluoranthene	1	2	1.9488	97.4	49.8 - 118	
Benzo(g,h,i)perylene	1	2	1.9286	96.4	46.7 - 122	
Benzo(k)fluoranthene	1	2	1.8203	91	50 - 121	
Chrysene	1	2	1.8737	93.7	50.3 - 119	
Dibenz(a,h)anthracene	1	2	1.9840	99.2	41.1 - 125	
Fluoranthene	1	2	1.9701	98.5	52.3 - 124	
Fluorene	1	2	1.7822	89.1	49 - 112	
Indeno(1,2,3-cd)pyrene	1	2	1.9773	98.9	46.9 - 123	
Naphthalene	1	2	1.5276	76.4	43.6 - 108	
Phenanthrene	1	2	1.8161	90.8	50.3 - 111	
Pyrene	1	2	2.1221	106	48.1 - 116	

Parameters in bold text are reported in this SDG

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Quality Control Summary
SDG: L729800
URS Corporation - Tucson AZ - 1088308

Test:	Semi-Volatiles by Method 8270 C-SIM		
Project No:	23446543.0053AA	Matrix:	Water - ug/L
Project:	Holloman AFB	EPA ID:	TN00003
Collection Date:	10/23/2014	**Analytic Batch:**	**WG750797**
Analysis Date:	10/29/2014	Analyst:	282
Instrument ID:	BNAMS13	Prep Date:	10/25/2014
Sample Numbers:	L729800-01		

Laboratory Control Sample Duplicate (LCSD)

Analyte	Dil	True Value	Found	% Rec	Control Limits	Qual
2-Chloronaphthalene	1	2	1.4678	73.4	50 - 106	
2-Methylnaphthalene	1	2	1.5149	75.7	45.5 - 113	
Acenaphthene	1	2	1.6280	81.4	49.4 - 111	
Acenaphthylene	1	2	1.6705	83.5	45.9 - 112	
Anthracene	1	2	1.8702	93.5	49.2 - 120	
Benzo(a)anthracene	1	2	1.9624	98.1	48.1 - 122	
Benzo(a)pyrene	1	2	1.8589	92.9	51 - 116	
Benzo(b)fluoranthene	1	2	1.9832	99.2	49.8 - 118	
Benzo(g,h,i)perylene	1	2	1.9110	95.6	46.7 - 122	
Benzo(k)fluoranthene	1	2	1.7996	90	50 - 121	
Chrysene	1	2	1.8901	94.5	50.3 - 119	
Dibenz(a,h)anthracene	1	2	1.9720	98.6	41.1 - 125	
Fluoranthene	1	2	1.9278	96.4	52.3 - 124	
Fluorene	1	2	1.7289	86.4	49 - 112	
Indeno(1,2,3-cd)pyrene	1	2	1.9623	98.1	46.9 - 123	
Naphthalene	1	2	1.4593	73	43.6 - 108	
Phenanthrene	1	2	1.7812	89.1	50.3 - 111	
Pyrene	1	2	2.1362	107	48.1 - 116	

Parameters in bold text are reported in this SDG

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Quality Control Summary
SDG: L729800
URS Corporation - Tucson AZ - 1088308

Test:	Semi-Volatiles by Method 8270 C-SIM		
Project No:	23446543.0053AA	Matrix:	Water - ug/L
Project:	Holloman AFB	EPA ID:	TN00003
Collection Date:	10/23/2014	**Analytic Batch:**	**WG750797**
Analysis Date:	10/29/2014	Analyst:	282
Instrument ID:	BNAMS13	Prep Date:	10/25/2014
Sample Numbers:	L729800-01		

Laboratory Control Sample / Laboratory Control Sample Duplicate

Analyte	Dil	Spike	LCS	% Rec	LCSD	% Rec	Control Limits	% Rec Qual	% RPD	Control Limits	RPD Qual
2-Chloronaphthalene	1	2	1.5315	76.6	1.4678	73.4	50 - 106		4.24	20	
2-Methylnaphthalene	1	2	1.5790	78.9	1.5149	75.7	45.5 - 113		4.14	20	
Acenaphthene	1	2	1.6841	84.2	1.6280	81.4	49.4 - 111		3.38	20	
Acenaphthylene	1	2	1.6987	84.9	1.6705	83.5	45.9 - 112		1.67	20	
Anthracene	1	2	1.9133	95.7	1.8702	93.5	49.2 - 120		2.28	20	
Benzo(a)anthracene	1	2	1.9529	97.6	1.9624	98.1	48.1 - 122		0.48	20	
Benzo(a)pyrene	1	2	1.8636	93.2	1.8589	92.9	51 - 116		0.25	20	
Benzo(b)fluoranthene	1	2	1.9488	97.4	1.9832	99.2	49.8 - 118		1.75	21	
Benzo(g,h,i)perylene	1	2	1.9286	96.4	1.9110	95.6	46.7 - 122		0.92	20	
Benzo(k)fluoranthene	1	2	1.8203	91	1.7996	90	50 - 121		1.14	20	
Chrysene	1	2	1.8737	93.7	1.8901	94.5	50.3 - 119		0.87	20	
Dibenz(a,h)anthracene	1	2	1.9840	99.2	1.9720	98.6	41.1 - 125		0.61	20	
Fluoranthene	1	2	1.9701	98.5	1.9278	96.4	52.3 - 124		2.17	20	
Fluorene	1	2	1.7822	89.1	1.7289	86.4	49 - 112		3.04	20	
Indeno(1,2,3-cd)pyrene	1	2	1.9773	98.9	1.9623	98.1	46.9 - 123		0.76	20	
Naphthalene	1	2	1.5276	76.4	1.4593	73	43.6 - 108		4.57	20	
Phenanthrene	1	2	1.8161	90.8	1.7812	89.1	50.3 - 111		1.94	20	
Pyrene	1	2	2.1221	106	2.1362	107	48.1 - 116		0.66	20	

Parameters in bold text are reported in this SDG

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Quality Control Summary
SDG: L729800
URS Corporation - Tucson AZ - 1088308

Test:	Semi-Volatiles by Method 8270 C-SIM		
Project No:	23446543.0053AA	Matrix:	Water - ug/L
Project:	Holloman AFB	EPA ID:	TN00003
Collection Date:	10/23/2014	**Analytic Batch:**	**WG750797**
Analysis Date:	10/29/2014	Analyst:	282
Instrument ID:	BNAMS13	Prep Date:	10/25/2014
Sample Numbers:	L729800-01		

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
2-Chloronaphthalene	1	2	<0.33	1.9269	95.7	1.8229	90.4	50 - 106		5.55	20	
2-Methylnaphthalene	1	2	5.5879	8.3703	139	5.5902	0.12	45.5 - 113	J5J6	39.8	20	J3
Acenaphthene	1	2	0.1700	2.2475	104	2.0814	95.6	49.4 - 111		7.67	20	
Acenaphthylene	1	2	0.0308	2.1794	107	2.0621	102	45.9 - 112		5.53	20	
Anthracene	1	2	0.0235	2.3712	117	2.2682	112	49.2 - 120		4.44	20	
Benzo(a)anthracene	1	2	<0.0124	2.2935	114	2.1783	108	48.1 - 122		5.15	20	
Benzo(a)pyrene	1	2	<0.0158	2.1549	108	2.0536	102	51 - 116		4.81	20	
Benzo(b)fluoranthene	1	2	<0.0192	2.2530	112	2.1609	107	49.8 - 118		4.17	21	
Benzo(g,h,i)perylene	1	2	<0.0157	2.1869	109	2.0936	105	46.7 - 122		4.36	20	
Benzo(k)fluoranthene	1	2	<0.0255	1.9966	99.8	1.8973	94.8	50 - 121		5.1	20	
Chrysene	1	2	<0.0144	2.1898	109	2.0778	104	50.3 - 119		5.25	20	
Dibenz(a,h)anthracene	1	2	<0.0045	2.2687	113	2.1687	108	41.1 - 125		4.5	20	
Fluoranthene	1	2	<0.0165	2.4207	120	2.2952	114	52.3 - 124		5.32	20	
Fluorene	1	2	0.2814	2.5582	114	2.3030	101	49 - 112	J5	10.5	20	
Indeno(1,2,3-cd)pyrene	1	2	<0.0074	2.2428	112	2.1508	107	46.9 - 123		4.19	20	
Naphthalene	1	2	2.4624	4.5399	104	3.2637	40.1	43.6 - 108	J6	32.7	20	J3
Phenanthrene	1	2	0.2106	2.4682	113	2.2613	103	50.3 - 111	J5	8.75	20	
Pyrene	1	2	0.0205	2.5138	125	2.4155	120	48.1 - 116	J5	3.99	20	

Parameters in bold text are reported in this SDG

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Quality Control Summary
SDG: L729800
URS Corporation - Tucson AZ - 1088308

Test:	Semi-Volatiles by Method 8270 C-SIM		
Project No:	23446543.0053AA	Matrix:	Water - ug/L
Project:	Holloman AFB	EPA ID:	TN00003
Collection Date:	10/23/2014	**Analytic Batch:**	**WG750797**
Analysis Date:	10/29/2014	Analyst:	282
Instrument ID:	BNAMS13	Prep Date:	10/25/2014
Sample Numbers:	L729800-01		

Matrix Spike / Matrix Spike Duplicate

L729800-01

Analyte	Dil	Spike Value	Sample	MS	% Rec	MSD	% Rec	Control Limits	% Rec Qual	RPD	Control Limits	RPD Qual
2-Chloronaphthalene	1	2	<0.33	1.9137	95.6	1.9526	97.5	50 - 106		2.02	20	
2-Methylnaphthalene	1	2	0.4773	2.5100	102	2.2559	88.9	45.5 - 113		10.7	20	
Acenaphthene	1	2	0.0277	2.0837	103	2.1024	104	49.4 - 111		0.89	20	
Acenaphthylene	1	2	<0.0109	2.1745	108	2.1822	109	45.9 - 112		0.36	20	
Anthracene	1	2	<0.0131	2.3486	117	2.3575	118	49.2 - 120		0.38	20	
Benzo(a)anthracene	1	2	<0.0124	2.2572	112	2.1725	108	48.1 - 122		3.82	20	
Benzo(a)pyrene	1	2	<0.0158	2.0911	104	2.0127	100	51 - 116		3.82	20	
Benzo(b)fluoranthene	1	2	<0.0192	2.1064	105	2.1128	105	49.8 - 118		0.3	21	
Benzo(g,h,i)perylene	1	2	<0.0157	2.1118	106	2.0278	101	46.7 - 122		4.06	20	
Benzo(k)fluoranthene	1	2	<0.0255	2.0041	100	1.8008	90	50 - 121		10.7	20	
Chrysene	1	2	<0.0144	2.1467	107	2.0576	103	50.3 - 119		4.24	20	
Dibenz(a,h)anthracene	1	2	<0.0045	2.1701	109	2.0397	102	41.1 - 125		6.2	20	
Fluoranthene	1	2	<0.0165	2.3557	117	2.4151	120	52.3 - 124		2.49	20	
Fluorene	1	2	0.0423	2.2186	109	2.2181	109	49 - 112		0.02	20	
Indeno(1,2,3-cd)pyrene	1	2	<0.0074	2.1270	106	2.0042	100	46.9 - 123		5.95	20	
Naphthalene	1	2	0.1886	2.2194	102	2.1088	96	43.6 - 108		5.11	20	
Phenanthrene	1	2	0.0441	2.2166	109	2.2299	109	50.3 - 111		0.6	20	
Pyrene	1	2	<0.0155	2.4865	124	2.4044	120	48.1 - 116	J5	3.36	20	

Parameters in bold text are reported in this SDG

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Quality Control Summary
SDG: L729800
URS Corporation - Tucson AZ - 1088308

Test:	Semi-Volatiles by Method 8270 C-SIM		
Project No:	23446543.0053AA	Matrix:	Water - ug/L
Project:	Holloman AFB	EPA ID:	TN00003
Collection Date:	10/23/2014	**Analytic Batch:**	**WG750797**
Analysis Date:	10/29/2014	Analyst:	282
Instrument ID:	BNAMS13	Prep Date:	10/25/2014
Sample Numbers:	L729800-01		

Internal Standard Response and Retention Time Summary

File ID: 1028_03
Analyzed: 10/29/14 004300

	ACE		CHR		NAP		PER	
	Response	**RT**	**Response**	**RT**	**Response**	**RT**	**Response**	**RT**
12 Hr. Std	43051	7.43	59500	11.68	81891	5.50	60804	13.29
Upper Limit	86100	7.93	119000	12.18	164000	6.00	122000	13.79
Lower Limit	21500	6.93	29800	11.18	40900	5.00	30400	12.79
Sample ID	**Response**	**RT**	**Response**	**RT**	**Response**	**RT**	**Response**	**RT**
LCSD WG750797	52955	7.43	72614	11.66	97270	5.52	75389	13.26
LCS WG750797	51801	7.43	71674	11.66	95478	5.52	74151	13.26
BLANK WG750797	54113	7.43	74420	11.66	98306	5.52	78722	13.27

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: L729800
URS Corporation - Tucson AZ - 1088308

Test:	Semi-Volatiles by Method 8270 C-SIM		
Project No:	23446543.0053AA	Matrix:	Water - ug/L
Project:	Holloman AFB	EPA ID:	TN00003
Collection Date:	10/23/2014	**Analytic Batch:**	**WG750797**
Analysis Date:	10/29/2014	Analyst:	282
Instrument ID:	BNAMS13	Prep Date:	10/25/2014
Sample Numbers:	L729800-01		

Internal Standard Response and Retention Time Summary

File ID: 1028_03
Analyzed: 10/29/14 004300

	ACE		PHEN	
	Response	**RT**	**Response**	**RT**
12 Hr. Std	43051	7.43	68286	8.97
Upper Limit	86100	7.93	137000	9.47
Lower Limit	21500	6.93	34100	8.47
Sample ID	**Response**	**RT**	**Response**	**RT**
LCSD WG750797	52955	7.43	85585	8.97
LCS WG750797	51801	7.43	83301	8.97
BLANK WG750797	54113	7.43	87077	8.97

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: L729800
URS Corporation - Tucson AZ - 1088308

Test:	Semi-Volatiles by Method 8270 C-SIM		
Project No:	23446543.0053AA	Matrix:	Water - ug/L
Project:	Holloman AFB	EPA ID:	TN00003
Collection Date:	10/23/2014	**Analytic Batch:**	**WG750797**
Analysis Date:	10/29/2014	Analyst:	282
Instrument ID:	BNAMS13	Prep Date:	10/25/2014
Sample Numbers:	L729800-01		

Internal Standard Response and Retention Time Summary

File ID: 1029_02
Analyzed: 10/29/14 123800

	ACE		CHR		NAP		PER	
	Response	**RT**	**Response**	**RT**	**Response**	**RT**	**Response**	**RT**
12 Hr. Std	38904	7.43	54511	11.66	72919	5.52	57063	13.27
Upper Limit	77800	7.93	109000	12.16	146000	6.02	114000	13.77
Lower Limit	19500	6.93	27300	11.16	36500	5.02	28500	12.77
Sample ID	**Response**	**RT**	**Response**	**RT**	**Response**	**RT**	**Response**	**RT**
L729800-01	39872	7.43	58705	11.66	71036	5.52	64111	13.26
MSD WG750797	39519	7.43	57894	11.66	73412	5.52	61983	13.26
MSD WG750797	38718	7.43	58872	11.66	70470	5.52	64922	13.26
MS WG750797	39989	7.43	59278	11.66	74124	5.52	63469	13.26
MS WG750797	38636	7.43	55463	11.66	70415	5.52	59891	13.26

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: L729800
URS Corporation - Tucson AZ - 1088308

Test:	Semi-Volatiles by Method 8270 C-SIM		
Project No:	23446543.0053AA	Matrix:	Water - ug/L
Project:	Holloman AFB	EPA ID:	TN00003
Collection Date:	10/23/2014	**Analytic Batch:**	**WG750797**
Analysis Date:	10/29/2014	Analyst:	282
Instrument ID:	BNAMS13	Prep Date:	10/25/2014
Sample Numbers:	L729800-01		

Internal Standard Response and Retention Time Summary

File ID: 1029_02
Analyzed: 10/29/14 123800

	ACE		PHEN	
	Response	**RT**	**Response**	**RT**
12 Hr. Std	38904	7.43	62123	8.97
Upper Limit	77800	7.93	124000	9.47
Lower Limit	19500	6.93	31100	8.47
Sample ID	**Response**	**RT**	**Response**	**RT**
L729800-01	39872	7.43	65087	8.97
MSD WG750797	39519	7.43	64856	8.97
MSD WG750797	38718	7.43	62999	8.97
MS WG750797	39989	7.43	65635	8.97
MS WG750797	38636	7.43	62922	8.97

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: L729800
URS Corporation - Tucson AZ - 1088308

Test:	Semi-Volatiles by Method 8270 C-SIM		
Project No:	23446543.0053AA	Matrix:	Water - ug/L
Project:	Holloman AFB	EPA ID:	TN00003
Collection Date:	10/23/2014	**Analytic Batch:**	**WG750797**
Analysis Date:	10/29/2014	Analyst:	282
Instrument ID:	BNAMS13	Prep Date:	10/25/2014
Sample Numbers:	L729800-01		

Surrogate Summary

Laboratory Sample ID	Instrument	File ID	2-Fluorobiphenyl ppm	2-Fluorobiphenyl % Rec	Nitrobenzene-d5 ppm	Nitrobenzene-d5 % Rec	p-Terphenyl-d14 ppm	p-Terphenyl-d14 % Rec
L729800-01	BNAMS13	1029_28	0.00163	81.4	0.00162	81.1	0.00184	92.2
LCS WG750797	BNAMS13	1028_27	0.00157	78.6	0.00166	82.9	0.00169	84.3
LCSD WG750797	BNAMS13	1028_28	0.00154	77.0	0.00161	80.5	0.00166	83.1
BLANK WG750797	BNAMS13	1028_29	0.00152	76.2	0.00162	80.8	0.00165	82.5
MS WG750797	BNAMS13	1029_20	0.00183	91.6	0.00188	94.1	0.00194	96.9
MSD WG750797	BNAMS13	1029_21	0.00178	88.9	0.00181	90.3	0.00188	94.2
MS WG750797	BNAMS13	1029_29	0.00180	89.9	0.00195	97.3	0.00192	96.0
MSD WG750797	BNAMS13	1029_30	0.00182	91.2	0.00192	95.9	0.00183	91.3

2-Fluorobiphenyl --2-FLUOROBIPHENYL	True Value: 0.002 ppm	Limits: 30.5 - 120
Nitrobenzene-d5 --NITROBENZENE-D5	True Value: 0.002 ppm	Limits: 19.5 - 128
p-Terphenyl-d14 --P-TERPHENYL-D14	True Value: 0.002 ppm	Limits: 32.20 - 125

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Quality Control Summary
SDG: L729800
URS Corporation - Tucson AZ - 1088308

Test:	Semi-Volatiles by Method 8270 C-SIM		
Project No:	23446543.0053AA	Matrix:	Water - mg/L
Project:	Holloman AFB	EPA ID:	TN00003
Collection Date:	10/23/2014	**Analytic Batch:**	**WG750797**
Analysis Date:	10/29/2014	Analyst:	282
Instrument ID:	BNAMS13	Prep Date:	10/25/2014
Sample Numbers:	L729800-01		

Instrument Performance Summary

FileID:1028_02.D Date:10/28/2014 Time: 11:00 PM

m/e	Ion Abundance Criteria	% Relative Abundance
51	10 - 80% of mass 198	59.7
68	Less than 2% of mass 69	1.1
70	Less than 2% of mass 69	0.0
127	10 - 80% of mass 198	61.6
197	Less than 2% of mass 198	0.0
198	50 - 100% of mass 198	100.0
199	5 - 9% of mass 198	6.6
275	10 - 60% of mass 198	26.1
365	1 - 100% of mass 198	3.7
441	Present, but less than mass 443	83.0
442	50 - 100% of mass 198	93.8
443	15 - 24% of mass 442	19.3

This Check applies to the following samples and quality control samples

Client Sample ID	Laboratory Sample ID	Lab Filename	Date Analyzed	Time Analyzed
LCS WG750797	LCS WG750797	1028_27.D	10/29/2014	9:20 AM
LCSD WG750797	LCSD WG750797	1028_28.D	10/29/2014	9:41 AM
Blank WG750797	Blank WG750797	1028_29.D	10/29/2014	10:03 AM

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Quality Control Summary
SDG: L729800
URS Corporation - Tucson AZ - 1088308

Test:	Semi-Volatiles by Method 8270 C-SIM		
Project No:	23446543.0053AA	Matrix:	Water - mg/L
Project:	Holloman AFB	EPA ID:	TN00003
Collection Date:	10/23/2014	**Analytic Batch:**	**WG750797**
Analysis Date:	10/29/2014	Analyst:	282
Instrument ID:	BNAMS13	Prep Date:	10/25/2014
Sample Numbers:	L729800-01		

Instrument Performance Summary

FileID:1029_01.D Date:10/29/2014 Time: 12:17 PM

m/e	Ion Abundance Criteria	% Relative Abundance
51	10 - 80% of mass 198	67.9
68	Less than 2% of mass 69	0.3
70	Less than 2% of mass 69	0.0
127	10 - 80% of mass 198	65.6
197	Less than 2% of mass 198	0.0
198	50 - 100% of mass 198	100.0
199	5 - 9% of mass 198	6.7
275	10 - 60% of mass 198	25.4
365	1 - 100% of mass 198	3.6
441	Present, but less than mass 443	79.8
442	50 - 100% of mass 198	81.6
443	15 - 24% of mass 442	19.9

This Check applies to the following samples and quality control samples

Client Sample ID	Laboratory Sample ID	Lab Filename	Date Analyzed	Time Analyzed
MS WG750797	MS WG750797	1029_20.D	10/29/2014	7:07 PM
MSD WG750797	MSD WG750797	1029_21.D	10/29/2014	7:29 PM
H-TU904-GW03-NT01	L729800-01	1029_28.D	10/29/2014	9:59 PM
MS WG750797	MS WG750797	1029_29.D	10/29/2014	10:21 PM
MSD WG750797	MSD WG750797	1029_30.D	10/29/2014	10:42 PM

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Quality Control Summary
SDG: L729800
URS Corporation - Tucson AZ - 1088308

Test: Semi-Volatiles by Method 8270 C-SIM
Project: Holloman AFB
Instrument ID: BNAMS13
Method Name : SS13J24N.M

Relative Response Factor Summary

Compound Name	Level 1	Level 5	Level 10	Level 20	Level 40	Level 80	Level 200	Level 1000	Level 2000	Average RRF	%RSD
Nitrobenzene-d5	0.322	0.355	0.333	0.347	0.339	0.328	0.353	0.328	0.318	0.335869	3.97
Naphthalene		1.209	1.156	1.173	1.109	1.055	1.089	0.926	0.874	1.073911	11.05
2-Methylnaphthalene	0.740	0.738	0.726	0.751	0.721	0.689	0.716	0.607	0.575	0.695791	9.00
1-Methylnaphthalene	0.694	0.691	0.677	0.700	0.666	0.632	0.649	0.546	0.518	0.641414	10.31
2-Fluorobiphenyl	1.462	1.465	1.430	1.479	1.411	1.344	1.391	1.145	1.056	1.353636	11.15
2-Chloronaphthalene	1.297	1.311	1.282	1.319	1.267	1.199	1.244	1.040	0.972	1.214674	10.28
Acenaphthylene	1.948	1.948	1.918	2.005	1.965	1.912	2.041	1.728	1.589	1.894824	7.61
Acenaphthene	1.304	1.289	1.261	1.298	1.242	1.182	1.228	1.016	0.936	1.195125	11.01
Dibenzofuran	1.733	1.735	1.729	1.771	1.677	1.592	1.634	1.337	1.221	1.603255	12.11
Fluorene	1.400	1.401	1.388	1.440	1.390	1.331	1.409	1.199	1.101	1.339979	8.51
Hexachlorobenzene	0.272	0.260	0.250	0.259	0.246	0.233	0.242	0.199	0.183	0.238158	12.33
Pentachlorophenol	0.130	0.088	0.086	0.094	0.100	0.097	0.115	0.115	0.115	0.104526	14.25
Phenanthrene	1.266	1.235	1.212	1.252	1.193	1.142	1.181	0.944	0.837	1.140300	13.05
Anthracene	1.108	1.120	1.119	1.189	1.158	1.135	1.182	0.943	0.839	1.088149	10.85
Fluoranthene	1.172	1.162	1.147	1.207	1.166	1.128	1.181	0.948	0.840	1.105689	11.30
Pyrene	1.331	1.296	1.266	1.305	1.248	1.176	1.177	0.884		1.210244	11.87
p-Terphenyl-d14	1.026	1.026	1.003	1.037	0.985	0.928	0.926	0.697		0.953411	11.77
Benzo(a)anthracene	1.326	1.221	1.177	1.229	1.190	1.132	1.163	0.867		1.163178	11.43
Chrysene	1.228	1.231	1.214	1.243	1.164	1.098	1.085	0.773		1.129434	13.85
Benzo(b)fluoranthene	1.207	1.256	1.172	1.236	1.231	1.142	1.181	0.741		1.145704	14.66
Benzo(k)fluoranthene	1.169	1.137	1.208	1.243	1.137	1.134	1.074			1.157496	4.76
Benzo(a)pyrene	0.971	0.976	0.977	1.039	1.017	0.979	1.000			0.994134	2.57
Indeno(1,2,3-cd)pyrene	1.303	1.319	1.338	1.419	1.381	1.334	1.355			1.349884	2.93
Dibenz(a,h)anthracene	1.096	1.120	1.121	1.197	1.165	1.129	1.146			1.139128	2.93
Benzo(g,h,i)perylene	1.159	1.164	1.159	1.223	1.177	1.135	1.145			1.166057	2.45

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Quality Control Summary
SDG: L729800
URS Corporation - Tucson AZ - 1088308

Test: Semi-Volatiles by Method 8270 C-SIM
Project No: 23446543.0053AA
Project: Holloman AFB EPA ID: TN00003
Collection Date: 10/23/2014
Instrument ID: BNAMS13

Method Name : SS13J24N.M Date : 10/29/2014
FileName : 1028_03.D Time : 12:43 AM

Continuing Calibration Verification

Compound Name	Average RRF	CCC RRF	%D
Naphthalene	1.0739	1.1827	10.1
2-Methylnaphthalene	0.6958	0.7222	3.8
Acenaphthylene	1.8948	1.9663	3.77
Acenaphthene	1.1951	1.2326	3.14
Fluorene	1.3400	1.4050	4.85
Phenanthrene	1.1403	1.1708	2.68
Anthracene	1.0881	1.1684	7.38
Fluoranthene	1.1057	1.1935	7.94
Pyrene	1.2102	1.2385	2.33
Benzo(a)anthracene	1.1632	1.2247	5.29
Chrysene	1.1294	1.1497	1.8
Benzo(b)fluoranthene	1.1457	1.1922	4.05
Benzo(k)fluoranthene	1.1575	1.1994	3.62
Benzo(a)pyrene	0.9941	1.0336	3.97
Indeno(1,2,3-cd)pyrene	1.3499	1.4514	7.52
Dibenz(a,h)anthracene	1.1391	1.2319	8.15
Benzo(g,h,i)perylene	1.1661	1.2296	5.45

*** - calibrated by linear regression*

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Quality Control Summary
SDG: L729800
URS Corporation - Tucson AZ - 1088308

Test: Semi-Volatiles by Method 8270 C-SIM
Project No: 23446543.0053AA
Project: Holloman AFB EPA ID: TN00003
Collection Date: 10/23/2014
Instrument ID: BNAMS13

Method Name : SS13J24N.M Date : 10/29/2014
FileName : 1029_02.D Time : 12:38 PM

Continuing Calibration Verification

Compound Name	Average RRF	CCC RRF	%D
Naphthalene	1.0739	1.2014	11.9
2-Methylnaphthalene	0.6958	0.7289	4.76
Acenaphthylene	1.8948	1.9793	4.46
Acenaphthene	1.1951	1.2433	4.03
Fluorene	1.3400	1.4104	5.26
Phenanthrene	1.1403	1.1754	3.08
Anthracene	1.0881	1.1609	6.68
Fluoranthene	1.1057	1.1973	8.28
Pyrene	1.2102	1.2254	1.26
Benzo(a)anthracene	1.1632	1.2099	4.02
Chrysene	1.1294	1.1616	2.85
Benzo(b)fluoranthene	1.1457	1.1714	2.24
Benzo(k)fluoranthene	1.1575	1.1844	2.32
Benzo(a)pyrene	0.9941	1.0279	3.4
Indeno(1,2,3-cd)pyrene	1.3499	1.4569	7.93
Dibenz(a,h)anthracene	1.1391	1.2286	7.86
Benzo(g,h,i)perylene	1.1661	1.2304	5.52

*** - calibrated by linear regression*

Raw Data

SIM RV SVOCs Benchsheet

Batch #: WG750797

Analyst: STM601 **Prep Start Date/Time:** 10/27/14 22:44:12 **Prep End Date/Time:** 10/28/14 00:00:56

Na2SO4: 14I12389 Amt. Used: 10 Exp. Date:03/12/15 **NaOH:** 14J01287 Amt. Used: 1 Exp. Date:02/01/15 **MeCl2:** 14J11832 Amt. Used: 1 Exp. Date:04/11/15

Surrogate: 14J13916 Amt. Used: 200 µL Exp. Date:04/05/15 **LCS/MS Spike:** 14I03861 Amt. Used: 200 µL Exp. Date:11/22/14

Sample Number	Qualifiers	Extracted Vol. (mL)	Adjusted pH >11	Solvent Vol. (mL)	Emulsion	Final Volume(mL)	Extract Color	Sample Comments
BLANK		100	>11	18	No Emulsion	5	Colorless	
LCS		100	>11	18	No Emulsion	5	Colorless	
LCSD		100	>11	18	No Emulsion	5	Colorless	
MS(L729559-02)		90	>11	18	No Emulsion	5	Colorless	
MSD(L729559-02)		90	>11	18	No Emulsion	5	Colorless	
MS(L729800-01)		90	>11	18	No Emulsion	5	Colorless	
MSD(L729800-01)		90	>11	18	No Emulsion	5	Colorless	
1. L729034-03		100	>11	18	No Emulsion	5	Colorless	EDD/QC4/DOD
2. L729034-04		100	>11	18	No Emulsion	5	Colorless	EDD/QC4/DOD
3. L729034-06		100	>11	18	No Emulsion	5	Colorless	EDD/QC4/DOD
4. L729094-01		100	>11	18	No Emulsion	5	Yellow	
5. L729094-02		100	>11	18	No Emulsion	5	Colorless	
6. L729094-03		100	>11	18	No Emulsion	5	Colorless	
7. L729094-04		100	>11	18	No Emulsion	5	Yellow	
8. L729094-05		100	>11	18	No Emulsion	5	Yellow	
9. L729559-02		90	>11	18	No Emulsion	5	Colorless	MS/MSD EDD/QC4/DOD
10. L729561-02		100	>11	18	No Emulsion	5	Colorless	EDD/QC4/DOD
11. L729561-04		100	>11	18	No Emulsion	5	Colorless	EDD/QC4/DOD

12. L729561-06		100	>11	18	No Emulsion	5	Colorless	EDD/QC4/DOD
13. L729798-02		100	>11	18	No Emulsion	5	Yellow	QC4/EDD
14. L729798-04		100	>11	18	No Emulsion	5	Yellow	QC4/EDD
15. L729798-06		80	>11	18	No Emulsion	5	Colorless	QC4/EDD
16. L729800-01		90	>11	18	No Emulsion	5	Colorless	QC4/EDD. MS/MSD

Comments:
dod syringe ESC25485

Reviewed By: on

Environmental Science Corporation
12065 Lebanon Rd., Mt. Juliet, TN 37122

Injection Log

Instrument ID : BNAMS13
Computer Name : SVCOMPAK

Released By : Fallon Labeots
Date Released : 10/29/2014 1:49:50 PM

Run ID : 102814
Signature : _____

#	File ID	Sample ID	Method	WG	Product	Matrix	Account #	State	Dil.	Mult.	Injected	Misc.
1	1028_01	INSTBLK	SS13J24N						1	1	10/28/14 2239	"instrument blank"
2	1028_02	TUNE SVMS 2000 PPB 14J03433	TUNE525						1	1	10/28/14 2300	"DFTPP TUNE"
3	1028_02T	TUNE SVMS 2000 PPB 14J03433	TUNE525							1	10/28/14 2300	
4	1028_03	ICV SIMLVI 40 PPB 14J10795	SS13J24N						1	1	10/29/14 0043	"sim calibration"
4	1028_03-1	ICV SIMLVI 40 PPB 14J10795	SS13J24N						1	1	10/29/14 0043	"sim calibration"
5	1028_04	LCS	SS13J24N	WG751189	PAHSIMLVI	GW			1	0.05	10/29/14 0106	"water 14J13916/14I03861"
5	1028_04-2	LCS	SS13J24N	WG751189	PAHSIMLVID	GW	TERRPOR		1	0.05	10/29/14 0106	"water 14J13916/14I03861"
6	1028_05	LCSD	SS13J24N	WG751189	PAHSIMLVI	GW			1	0.05	10/29/14 0127	"water 14J13916/14I03861"
6	1028_05-2	LCSD	SS13J24N	WG751189	PAHSIMLVID	GW	TERRPOR		1	0.05	10/29/14 0127	"water 14J13916/14I03861"
7	1028_06	BLANK	SS13J24N	WG751189	PAHSIMLVI	GW			1	0.05	10/29/14 0149	"water 14J13916/14I03861"
7	1028_06-2	BLANK	SS13J24N	WG751189	PAHSIMLVID	GW	TERRPOR		1	0.05	10/29/14 0149	"water 14J13916/14I03861"
8	1028_07	L729690-11	SS13J24N	WG751189	PAHSIMLVI	GW	PECKTN	OH	1	0.05	10/29/14 0210	"water 14J13916/14I03861"
9	1028_08	L729690-12	SS13J24N	WG751189	PAHSIMLVI	GW	PECKTN	OH	1	0.05	10/29/14 0232	"water 14J13916/14I03861"
10	1028_09	L729776-01	SS13J24N	WG751189	PAHSIMLVI	GW	QOREHAL	AL	1	0.05	10/29/14 0253	"water 14J13916/14I03861"
11	1028_10	L729864-06	SS13J24N	WG751189	PAHSIMLVID	GW	TERRPOR	OR	1	0.05	10/29/14 0315	"water 14J13916/14I03861"
12	1028_11	L729864-07	SS13J24N	WG751189	PAHSIMLVID	GW	TERRPOR	OR	1	0.05	10/29/14 0336	"water 14J13916/14I03861"
13	1028_12	L729864-08	SS13J24N	WG751189	PAHSIMLVID	GW	TERRPOR	OR	1	0.05	10/29/14 0358	"water 14J13916/14I03861"
14	1028_13	L729864-09	SS13J24N	WG751189	PAHSIMLVID	GW	TERRPOR	OR	1	0.05	10/29/14 0419	"water 14J13916/14I03861"
15	1028_14	L729864-10	SS13J24N	WG751189	PAHSIMLVID	GW	TERRPOR	OR	1	0.05	10/29/14 0441	"water 14J13916/14I03861"
16	1028_15	L729871-01	SS13J24N	WG751189	PAHSIMLVI	GW	EARCONTMS	AR	1	0.05	10/29/14 0502	"water 14J13916/14I03861"
17	1028_16	L729871-02	SS13J24N	WG751189	PAHSIMLVI	GW	EARCONTMS	AR	1	0.05	10/29/14 0524	"water 14J13916/14I03861"

Environmental Science Corporation
12065 Lebanon Rd., Mt. Juliet, TN 37122

Injection Log

Instrument ID : BNAMS13
Computer Name : SVCOMPAK

Released By : Fallon Labeots
Date Released : 10/29/2014 1:49:50 PM

Run ID : 102814
Signature : _____

#	File ID	Sample ID	Method	WG	Product	Matrix	Account #	State	Dil.	Mult.	Injected	Misc.
18	1028_17	L729871-03	SS13J24N	WG751189	PAHSIMLVI	GW	EARCONTMS	AR	1	0.05	10/29/14 0545	"water 14J13916/14I03861"
19	1028_18	L729871-04	SS13J24N	WG751189	PAHSIMLVI	GW	EARCONTMS	AR	1	0.05	10/29/14 0606	"water 14J13916/14I03861"
20	1028_19	L729871-05	SS13J24N	WG751189	PAHSIMLVI	GW	EARCONTMS	AR	1	0.05	10/29/14 0628	"water 14J13916/14I03861"
21	1028_20	L729871-06	SS13J24N	WG751189	PAHSIMLVI	GW	EARCONTMS	AR	1	0.05	10/29/14 0649	"water 14J13916/14I03861"
22	1028_21	L729871-07	SS13J24N	WG751189	PAHSIMLVI	GW	EARCONTMS	AR	1	0.05	10/29/14 0711	"water 14J13916/14I03861"
23	1028_22	L729871-08	SS13J24N	WG751189	PAHSIMLVI	GW	EARCONTMS	AR	1	0.05	10/29/14 0732	"water 14J13916/14I03861"
24	1028_23	L729871-09	SS13J24N	WG751189	PAHSIMLVI	GW	EARCONTMS	AR	1	0.05	10/29/14 0754	"water 14J13916/14I03861"
25	1028_24	L729871-10	SS13J24N	WG751189	PAHSIMLVI	GW	EARCONTMS	AR	1	0.05	10/29/14 0815	"water 14J13916/14I03861"
26	1028_25	L729871-11	SS13J24N	WG751189	PAHSIMLVI	GW	EARCONTMS	AR	1	0.05	10/29/14 0837	"water 14J13916/14I03861"
27	1028_26	L729871-12	SS13J24N	WG751189	PAHSIMLVI	GW	EARCONTMS	AR	1	0.05	10/29/14 0858	"water 14J13916/14I03861"
28	1028_27	LCS	SS13J24N	WG750797	8270PAHSIM	GW			1	0.05	10/29/14 0920	"water 14J13916/14I03861"
29	1028_28	LCSD	SS13J24N	WG750797	8270PAHSIM	GW			1	0.05	10/29/14 0941	"water 14J13916/14I03861"
30	1028_29	BLANK	SS13J24N	WG750797	8270PAHSIM	GW			1	0.05	10/29/14 1003	"water 14J13916/14I03861"
31	1028_30	L729034-03	SS13J24N	WG750797	8270PAHSIM	GW	URSTAZ	NM	1	0.05	10/29/14 1024	"water 14J13916/14I03861"
32	1028_31	L729034-04	SS13J24N	WG750797	8270PAHSIM	GW	URSTAZ	NM	1	0.05	10/29/14 1046	"water 14J13916/14I03861"
33	1028_32	L729034-06	SS13J24N	WG750797	8270PAHSIM	GW	URSTAZ	NM	1	0.05	10/29/14 1107	"water 14J13916/14I03861"
34	1028_33	L729094-01	SS13J24N	WG750797	8270PAHSIM	GW	USAENVGCO	CO	1	0.05	10/29/14 1128	"water 14J13916/14I03861"

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\102814\
Data File : 1028 02.D
Acq On : 28 Oct 2014 11:00 pm
Operator : 282
Sample : TUNE SVMS 2000 PPB 14J03433
Misc : DFTPP TUNE
ALS Vial : 2 Sample Multiplier: 1
InstName : BNAMS13

Quant Time: Oct 29 13:48:44 2014
Quant Method : C:\msdchem\1\METHODS\TUNE525.M
Quant Title :
QLast Update : Mon Jun 03 22:15:37 2013
Response via : Initial Calibration

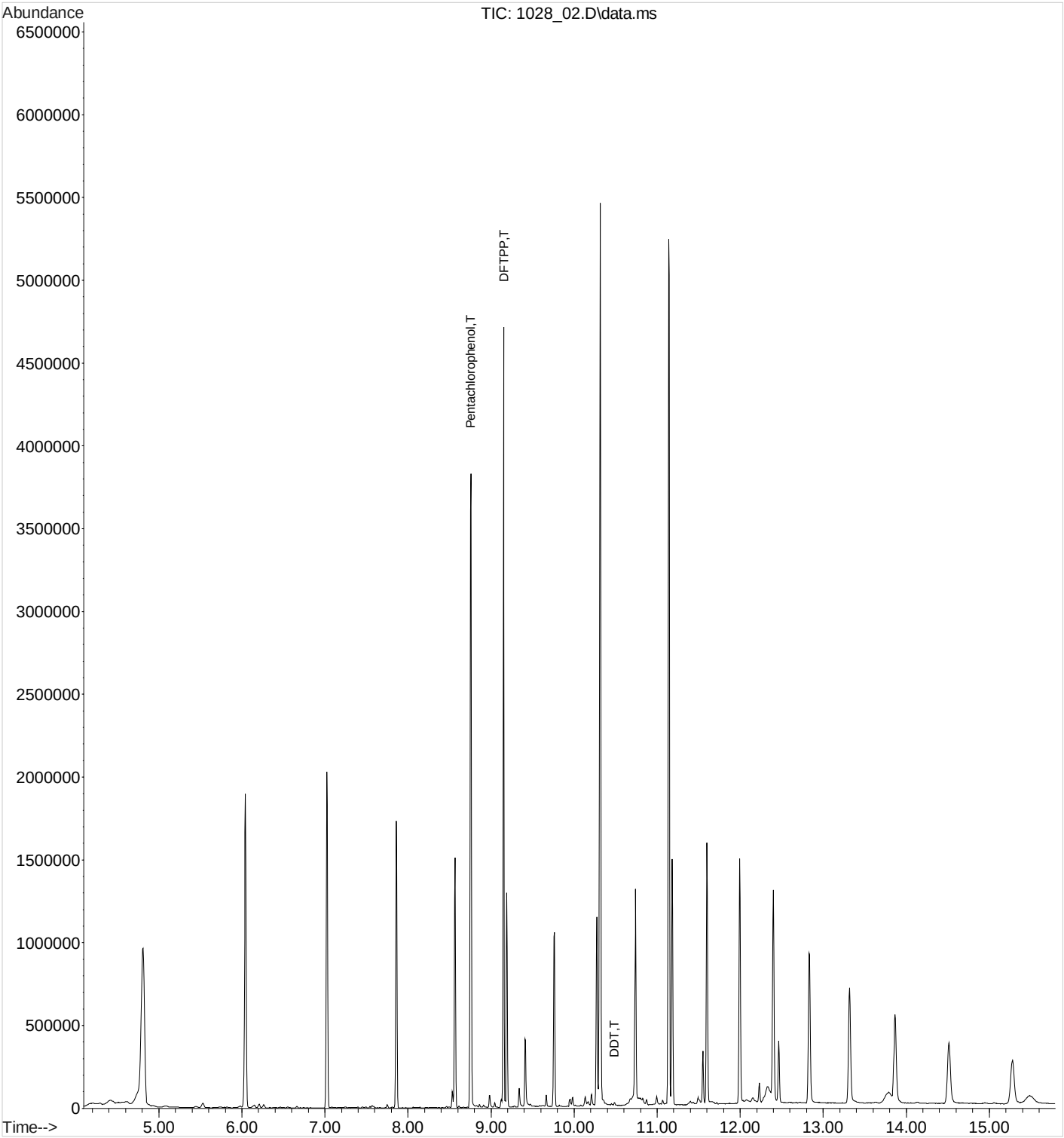
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Target Compounds						Qvalue
1) Pentachlorophenol	8.757	264	2403568	0.7848067	ppm	100
2) DFTPP	9.153	198	4081194	0.2425650	ppm	100
3) Benzidine	0.000		0	N.D.		
4) DDT	10.487	TIC	280644m	0.0215017	ppm	
5) DDT	11.147	235	8183258	No Calib		

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\102814\
Data File : 1028 02.D
Acq On : 28 Oct 2014 11:00 pm
Operator : 282
Sample : TUNE SVMS 2000 PPB 14J03433
Misc : DFTPP TUNE
ALS Vial : 2 Sample Multiplier: 1
InstName : BNAMS13

Quant Time: Oct 29 13:48:44 2014
Quant Method : C:\msdchem\1\METHODS\TUNE525.M
Quant Title :
QLast Update : Mon Jun 03 22:15:37 2013
Response via : Initial Calibration



Quantitation Report (Qedit)

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Data Path : C:\msdchem\1\DATA\102814\
Data File : 1028 02.D
Acq On    : 28 Oct 2014  11:00 pm
Operator  : 282
Sample    : TUNE SVMS 2000 PPB 14J03433
Misc      : DFTPP TUNE
ALS Vial  : 2   Sample Multiplier: 1
InstName  : BNAMS13

Quant Time: Oct 29 00:41:12 2014
Quant Method : C:\msdchem\1\METHODS\TUNE525.M
Quant Title  :
QLast Update : Mon Jun 03 22:15:37 2013
Response via : Initial Calibration
```
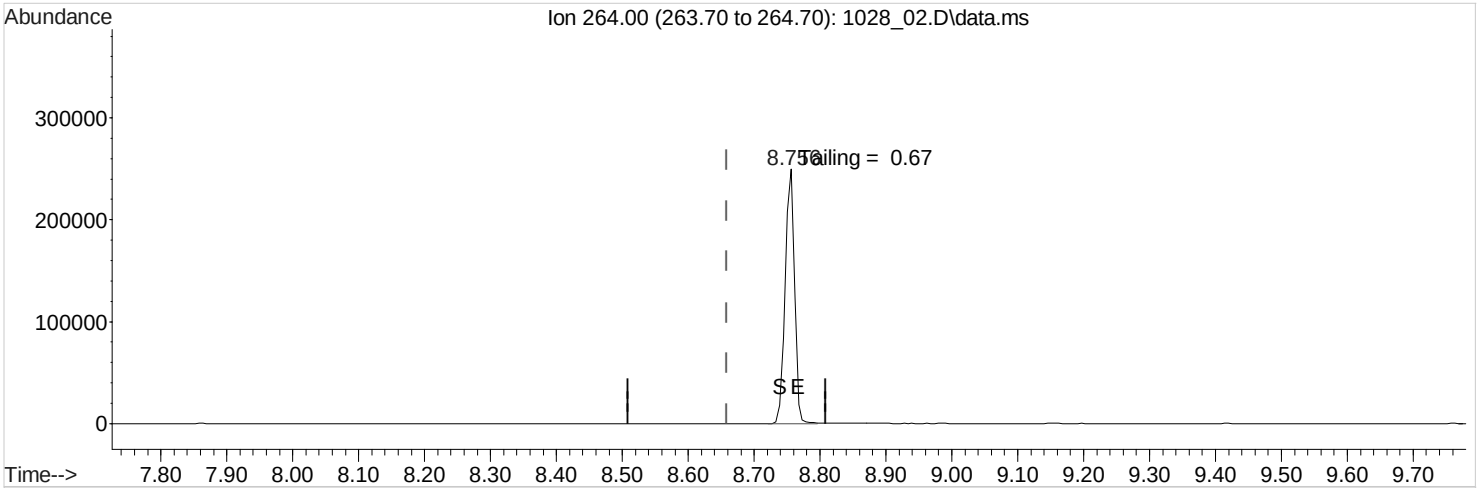
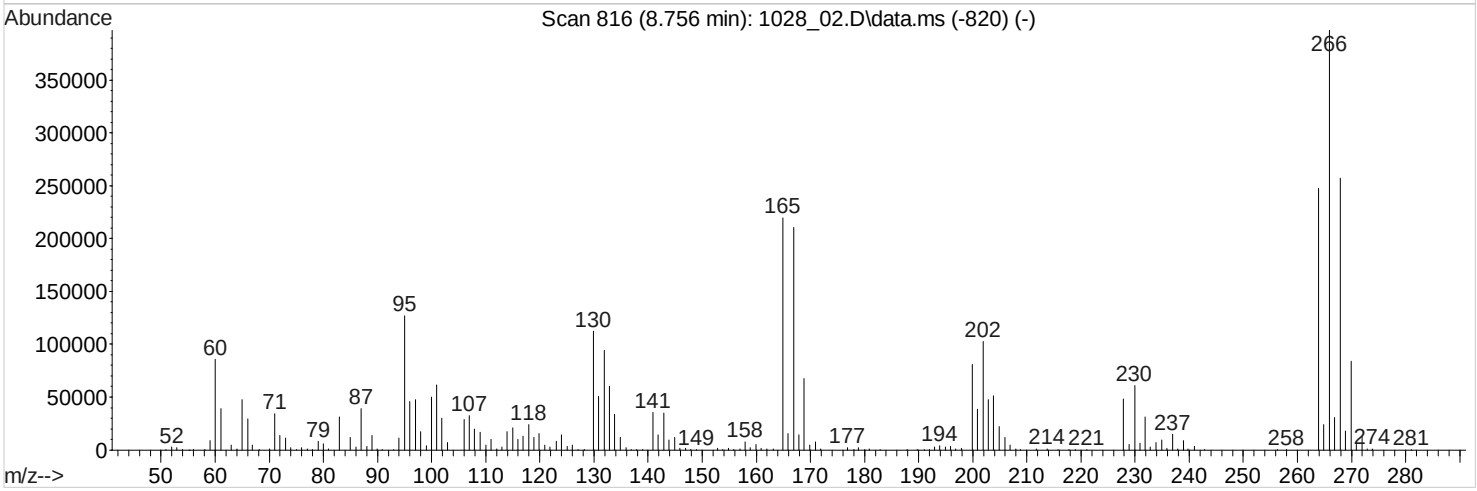





TIC: 1028_02.D\data.ms

(1) Pentachlorophenol (T)

8.757min (+0.098) 0.7848067 ppm

Qvalue = 100

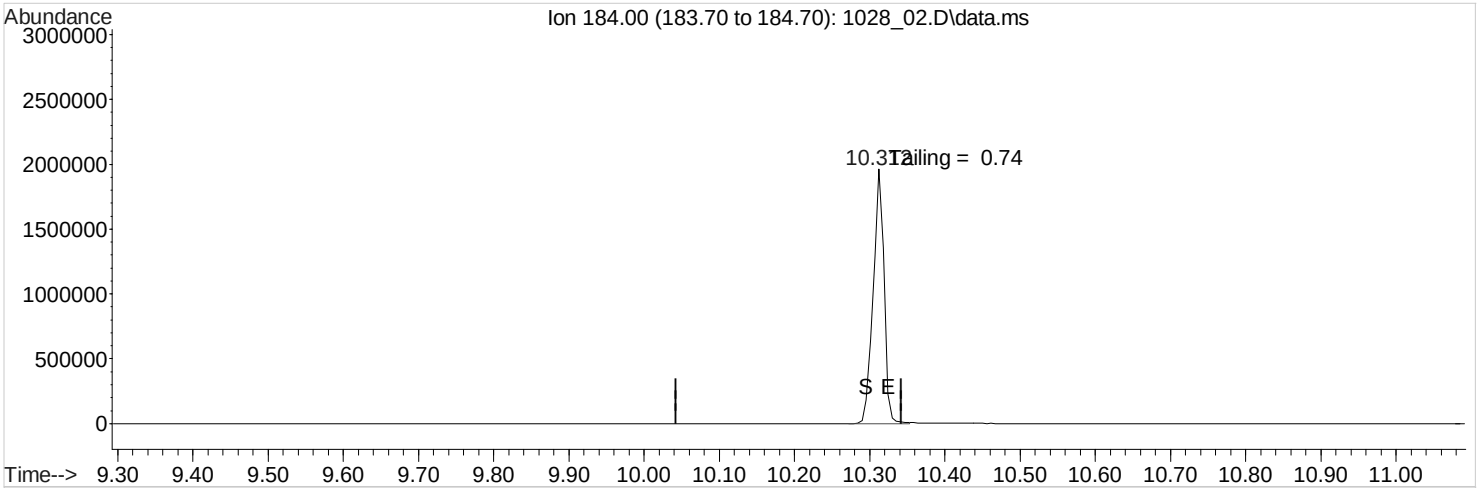
response 2403568

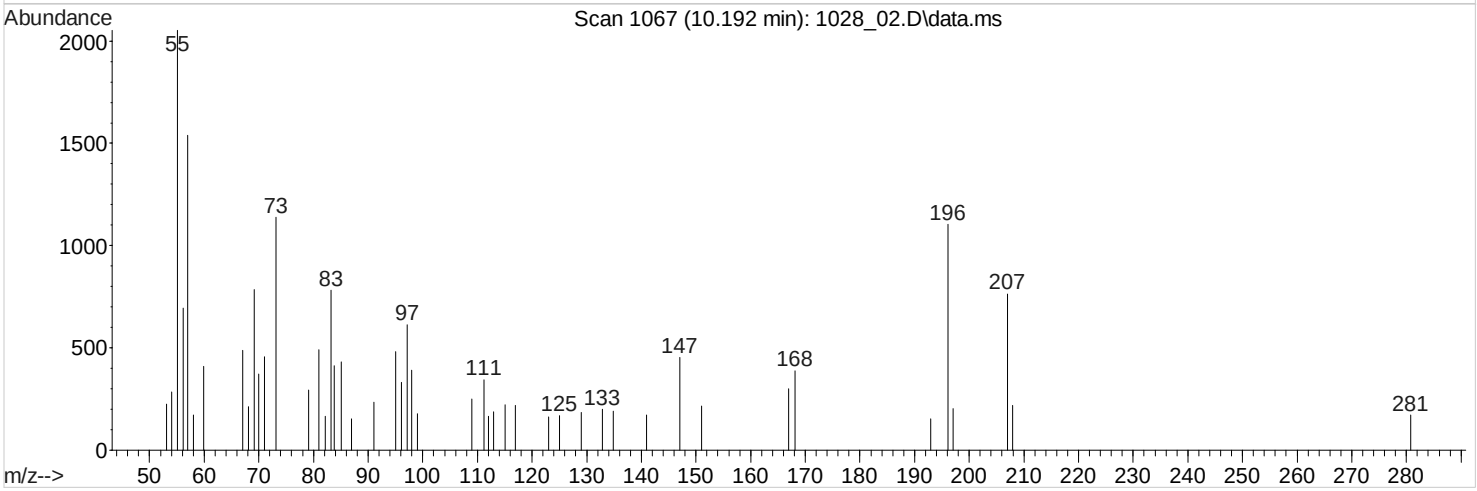
Ion	Exp%	Act%
264.00	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\102814\
Data File : 1028 02.D
Acq On : 28 Oct 2014 11:00 pm
Operator : 282
Sample : TUNE SVMS 2000 PPB 14J03433
Misc : DFTPP TUNE
ALS Vial : 2 Sample Multiplier: 1
InstName : BNAMS13

Quant Time: Oct 29 00:41:12 2014
Quant Method : C:\msdchem\1\METHODS\TUNE525.M
Quant Title :
QLast Update : Mon Jun 03 22:15:37 2013
Response via : Initial Calibration





TIC: 1028_02.D\data.ms

(3) Benzidine (T)

10.192min (-10.192) 0.0000000 ppm

Qvalue = 0

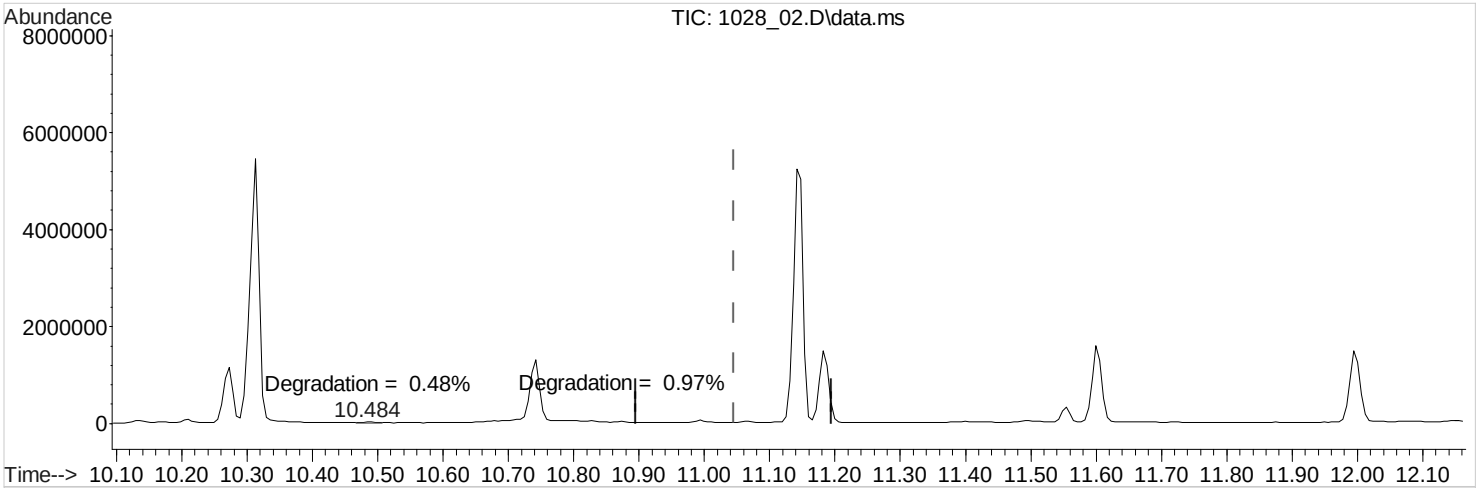
response 0

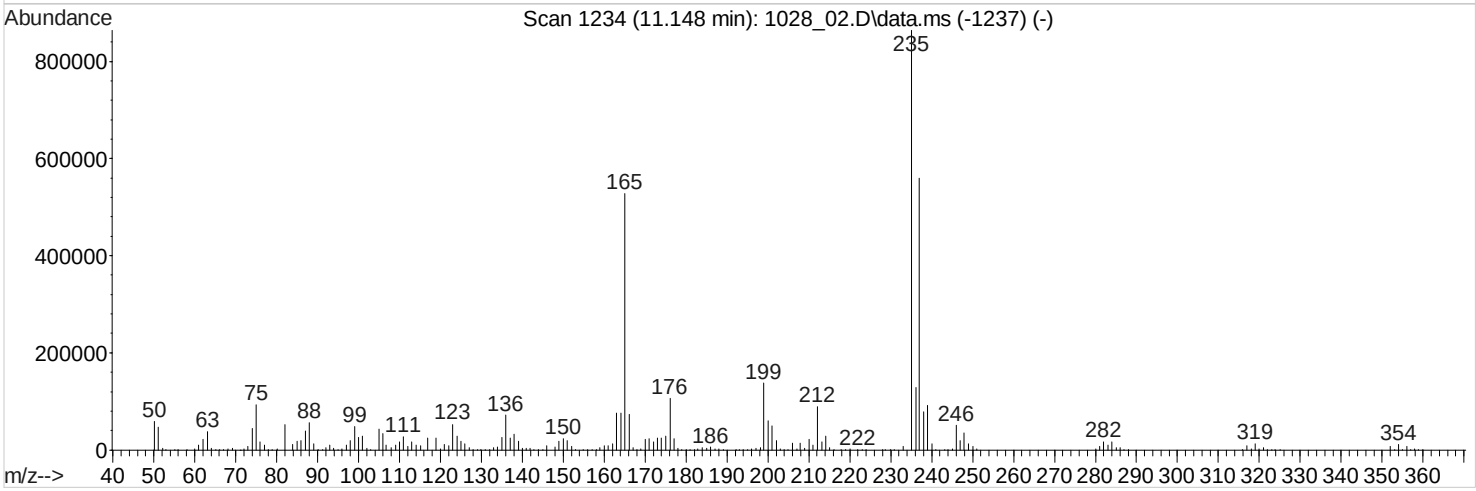
Ion	Exp%	Act%
184.00	100	0.00
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\102814\
Data File : 1028 02.D
Acq On : 28 Oct 2014 11:00 pm
Operator : 282
Sample : TUNE SVMS 2000 PPB 14J03433
Misc : DFTPP TUNE
ALS Vial : 2 Sample Multiplier: 1
InstName : BNAMS13

Quant Time: Oct 29 00:41:12 2014
Quant Method : C:\msdchem\1\METHODS\TUNE525.M
Quant Title :
QLast Update : Mon Jun 03 22:15:37 2013
Response via : Initial Calibration





TIC: 1028_02.D\data.ms

(4) DDT (T)

11.147min (+0.102) 3.9916054 ppm

Qvalue = 100

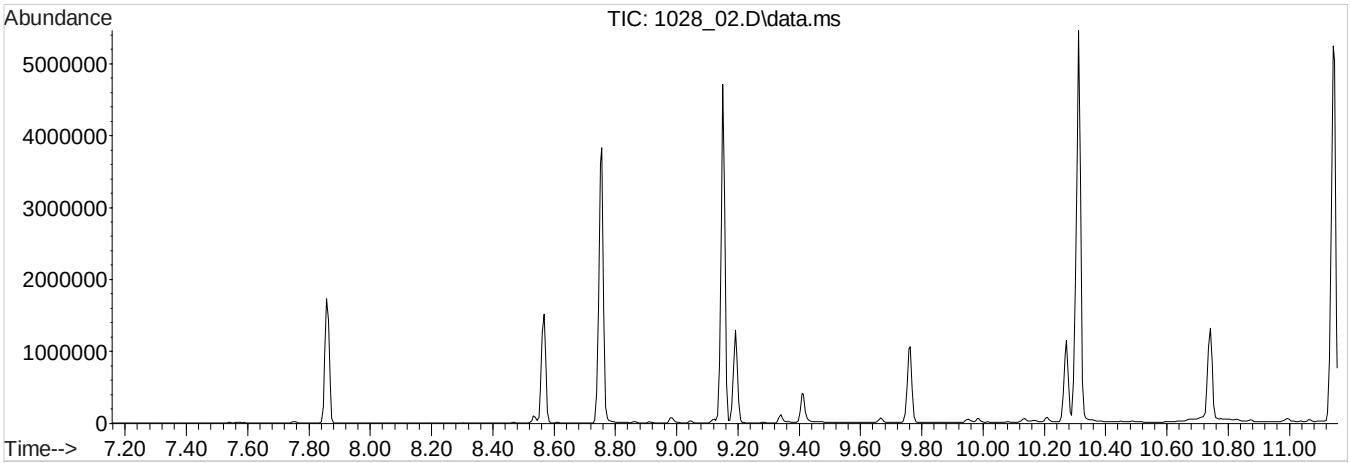
response 52099095

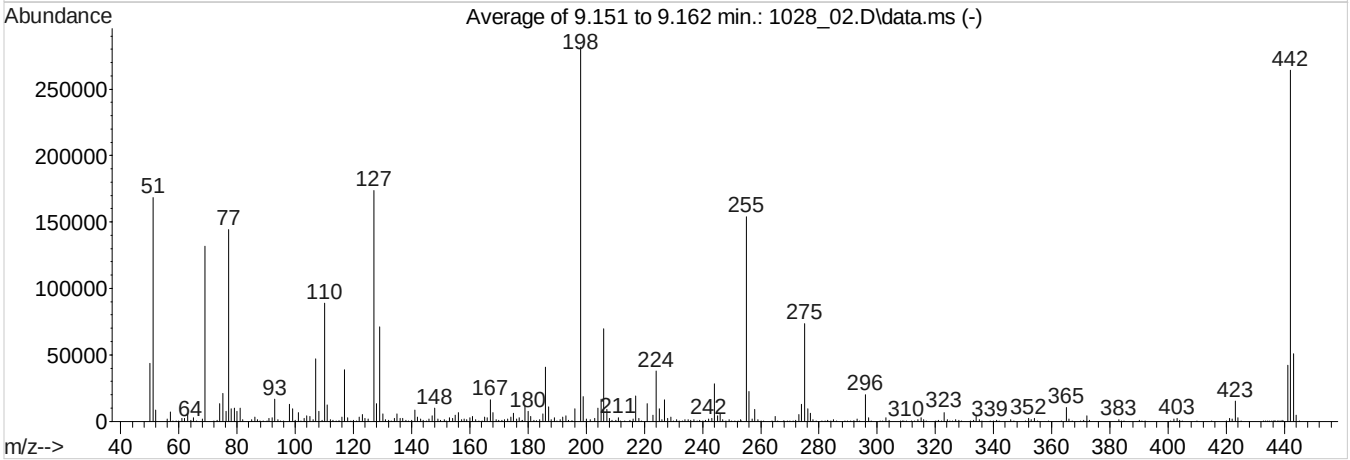
Signal	Exp%	Act%
TIC	100	100
0.00	6.20	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Data Path : C:\msdchem\1\DATA\102814\
Data File : 1028 02.D
Acq On : 28 Oct 2014 11:00 pm
Operator : 282
Sample : TUNE SVMS 2000 PPB 14J03433
Misc : DFTPP TUNE
ALS Vial : 2 Sample Multiplier: 1

Integration File: events.e

Method : C:\msdchem\1\METHODS\TUNE525.M
Title :
Last Update : Mon Jun 03 22:15:37 2013





AutoFind: Scans 885, 886, 887; Background Corrected with Scan 879

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	10	80	59.7	168176	PASS
68	69	0.00	2	1.1	1477	PASS
70	69	0.00	2	0.0	0	PASS
127	198	10	80	61.6	173656	PASS
197	198	0.00	2	0.0	0	PASS
198	198	50	100	100.0	281755	PASS
199	198	5	9	6.6	18495	PASS
275	198	10	60	26.1	73517	PASS
365	198	1	100	3.7	10521	PASS
441	443	0.01	100	83.0	42199	PASS
442	198	50	100	93.8	264269	PASS
443	442	15	24	19.3	50872	PASS

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\102814\
Data File : 1028 03.D
Acq On : 29 Oct 2014 12:43 am
Operator : 282
Sample : ICV SIMLVI 40 PPB 14J10795
Misc : sim calibration
ALS Vial : 3 Sample Multiplier: 1
InstName : BNAMS13

Quant Time: Oct 29 01:04:30 2014
Quant Method : C:\msdchem\1\METHODS\SS13J24N.M
Quant Title : 8270 BNA
QLast Update : Fri Oct 24 12:08:30 2014
Response via : Initial Calibration

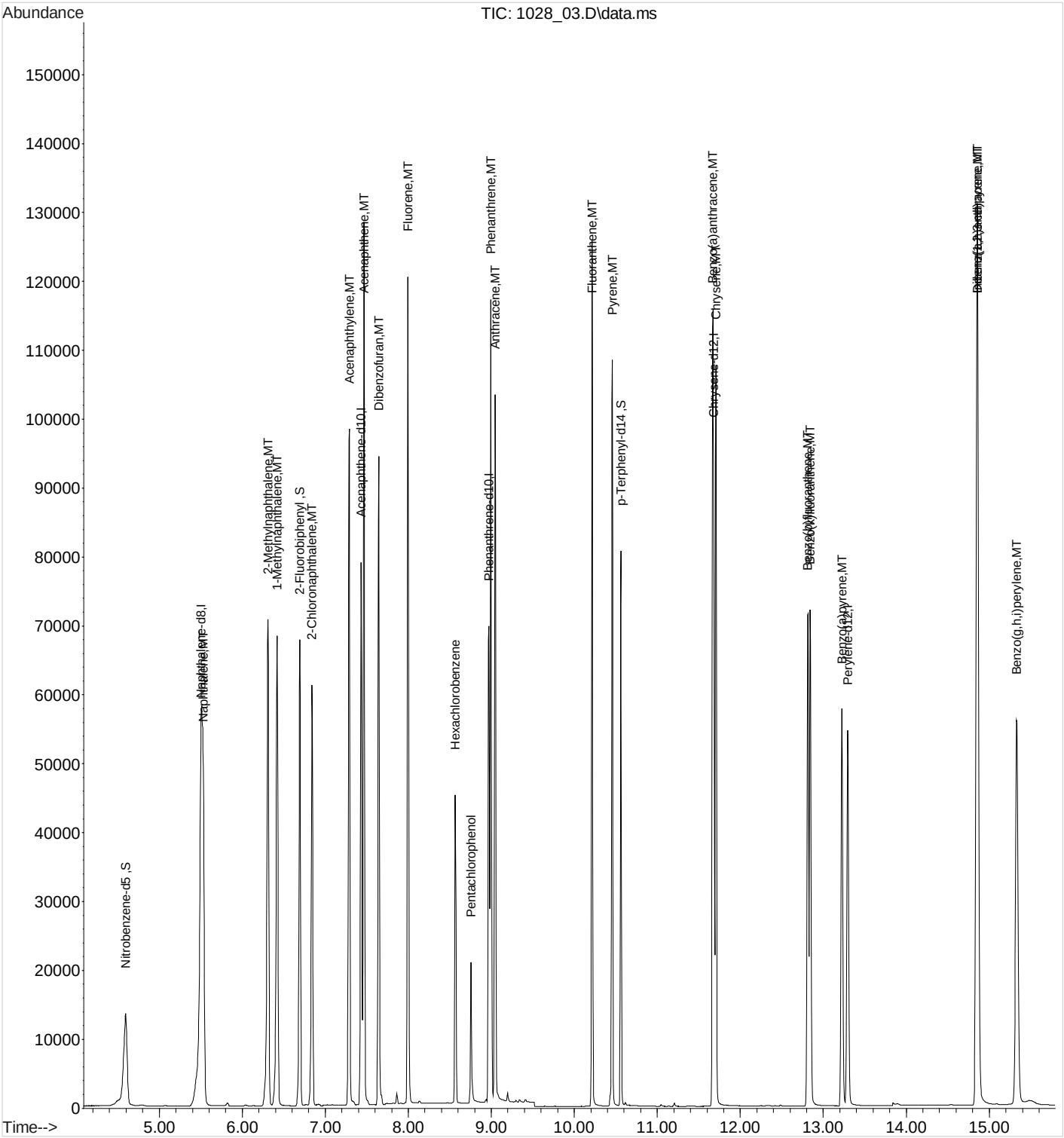
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Naphthalene-d8	5.500	136	81891	40.0000000	ppb	-0.01
6) Acenaphthene-d10	7.433	164	43051	40.0000000	ppb	0.00
13) Phenanthrene-d10	8.974	188	68286	40.0000000	ppb	0.00
19) Chrysene-d12	11.680	240	59500	40.0000000	ppb	0.00
24) Perylene-d12	13.294	264	60804	40.0000000	ppb	0.02
System Monitoring Compounds						
2) Nitrobenzene-d5	4.594	82	28556	41.5289337	ppb	-0.02
Spiked Amount 2.000	Range 45 - 170		Recovery = 2076.45%#			
7) 2-Fluorobiphenyl	6.692	172	60946	41.8330905	ppb	0.00
Spiked Amount 2.000	Range 58 - 153		Recovery = 2091.65%#			
21) p-Terphenyl-d14	10.562	244	59081	41.6591689	ppb	0.00
Spiked Amount 2.000	Range 53 - 156		Recovery = 2082.96%#			
Target Compounds						Qvalue
3) Naphthalene	5.530	128	96849	44.0504854	ppb	100
4) 2-Methylnaphthalene	6.309	142	59144	41.5198679	ppb	100
5) 1-Methylnaphthalene	6.418	142	54253	41.3151218	ppb	99
8) 2-Chloronaphthalene	6.840	162	54459	41.6568700	ppb	99
9) Acenaphthylene	7.290	152	84650	41.5082888	ppb	99
10) Acenaphthene	7.467	153	53065	41.2545073	ppb	100
11) Dibenzofuran	7.644	168	71561	41.4715704	ppb	100
12) Fluorene	7.997	166	60488	41.9418812	ppb	98
14) Hexachlorobenzene	8.566	284	16854	41.4539600	ppb	99
15) Pentachlorophenol	8.756	266	8420	47.1864307	ppb	99
16) Phenanthrene	8.995	178	79950	41.0702624	ppb	100
17) Anthracene	9.044	178	79786	42.9503251	ppb	97
18) Fluoranthene	10.215	202	81498	43.1759979	ppb	98
20) Pyrene	10.457	202	73690	40.9334717	ppb	99
22) Benzo(a)anthracene	11.666	228	72871	42.1164312	ppb	99
23) Chrysene	11.707	228	68410	40.7194322	ppb	99
25) Benzo(b)fluoranthene	12.810	252	72488	41.6218657	ppb	98
26) Benzo(k)fluoranthene	12.842	252	72928	41.4478956	ppb	97
27) Benzo(a)pyrene	13.224	252	62849	41.5892529	ppb	100
28) Indeno(1,2,3-cd)pyrene	14.857	276	88252	43.0086645	ppb	99
29) Dibenz(a,h)anthracene	14.857	278	74907	43.2591161	ppb	96
30) Benzo(g,h,i)perylene	15.329	276	74767	42.1811172	ppb	100

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

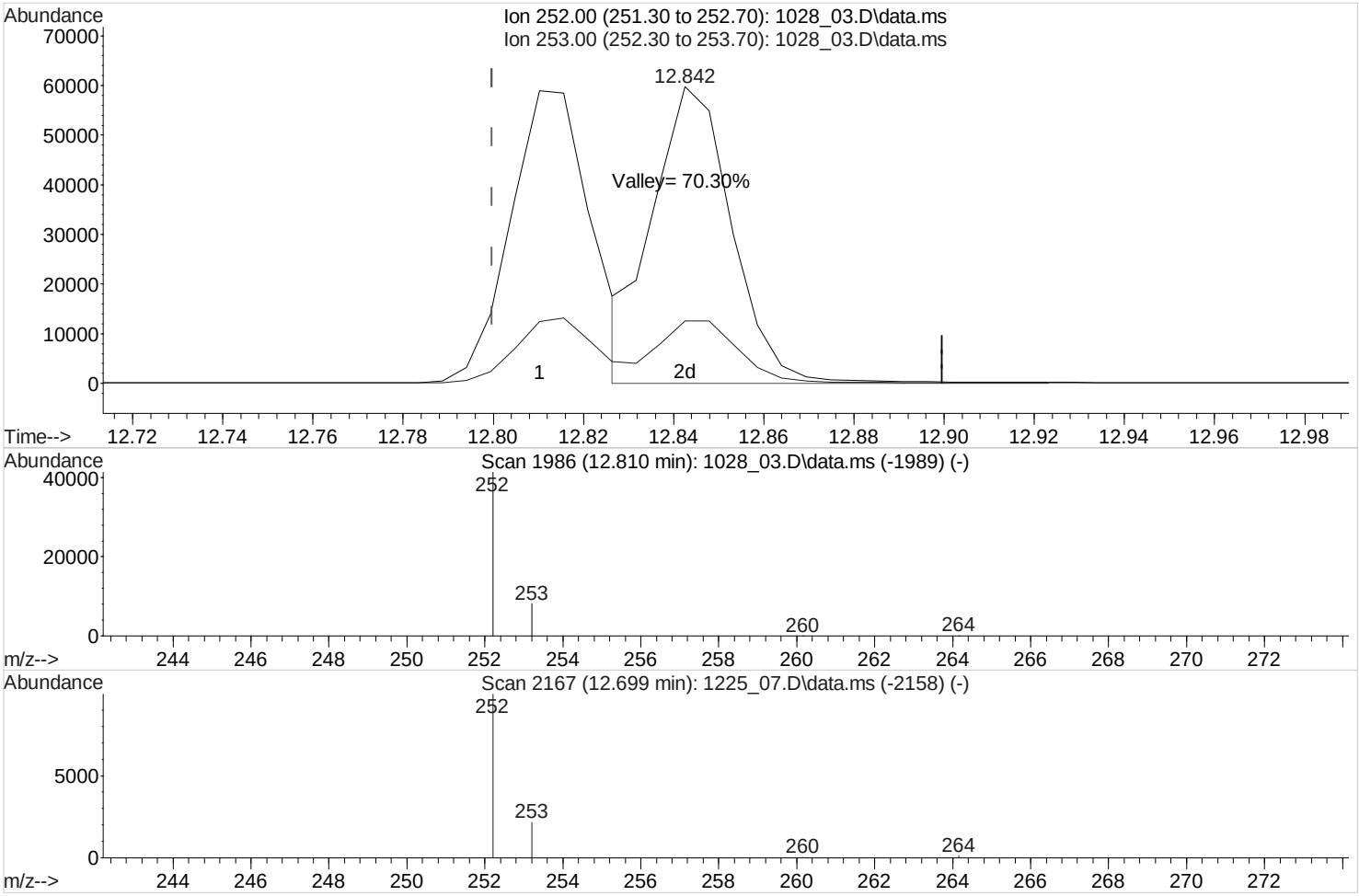
Data Path : C:\msdchem\1\DATA\102814\
Data File : 1028 03.D
Acq On : 29 Oct 2014 12:43 am
Operator : 282
Sample : ICV SIMLVI 40 PPB 14J10795
Misc : sim calibration
ALS Vial : 3 Sample Multiplier: 1
InstName : BNAMS13

Quant Time: Oct 29 01:04:30 2014
Quant Method : C:\msdchem\1\METHODS\SS13J24N.M
Quant Title : 8270 BNA
QLast Update : Fri Oct 24 12:08:30 2014
Response via : Initial Calibration



Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\DATA\102814\
Data File : 1028 03.D
Acq On    : 29 Oct 2014  12:43 am
Operator  : 282
Sample    : ICV SIMLVI 40 PPB 14J10795
Misc      : sim calibration
ALS Vial  : 3   Sample Multiplier: 1
InstName  : BNAMS13

Quant Time: Oct 29 01:04:30 2014
Quant Method : C:\msdchem\1\METHODS\SS13J24N.M
Quant Title  : 8270 BNA
QLast Update : Fri Oct 24 12:08:30 2014
Response via : Initial Calibration
```



TIC: 1028_03.D\data.ms

(25) Benzo(b)fluoranthene (MT)

12.810min (+0.011) 41.6218657 ppb

Qvalue = 98

response 72488

Ion	Exp%	Act%
252.00	100	100
253.00	22.00	20.94
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\102814\
Data File : 1028 27.D
Acq On : 29 Oct 2014 9:20 am
Operator : 282
Sample : LCS 1x WG750797 100-5
Misc : water 14J13916/14I03861
ALS Vial : 55 Sample Multiplier: 0.05
InstName : BNAMS13

Quant Time: Oct 29 11:50:34 2014
Quant Method : C:\msdchem\1\METHODS\SS13J24N.M
Quant Title : 8270 BNA
QLast Update : Fri Oct 24 12:08:30 2014
Response via : Initial Calibration

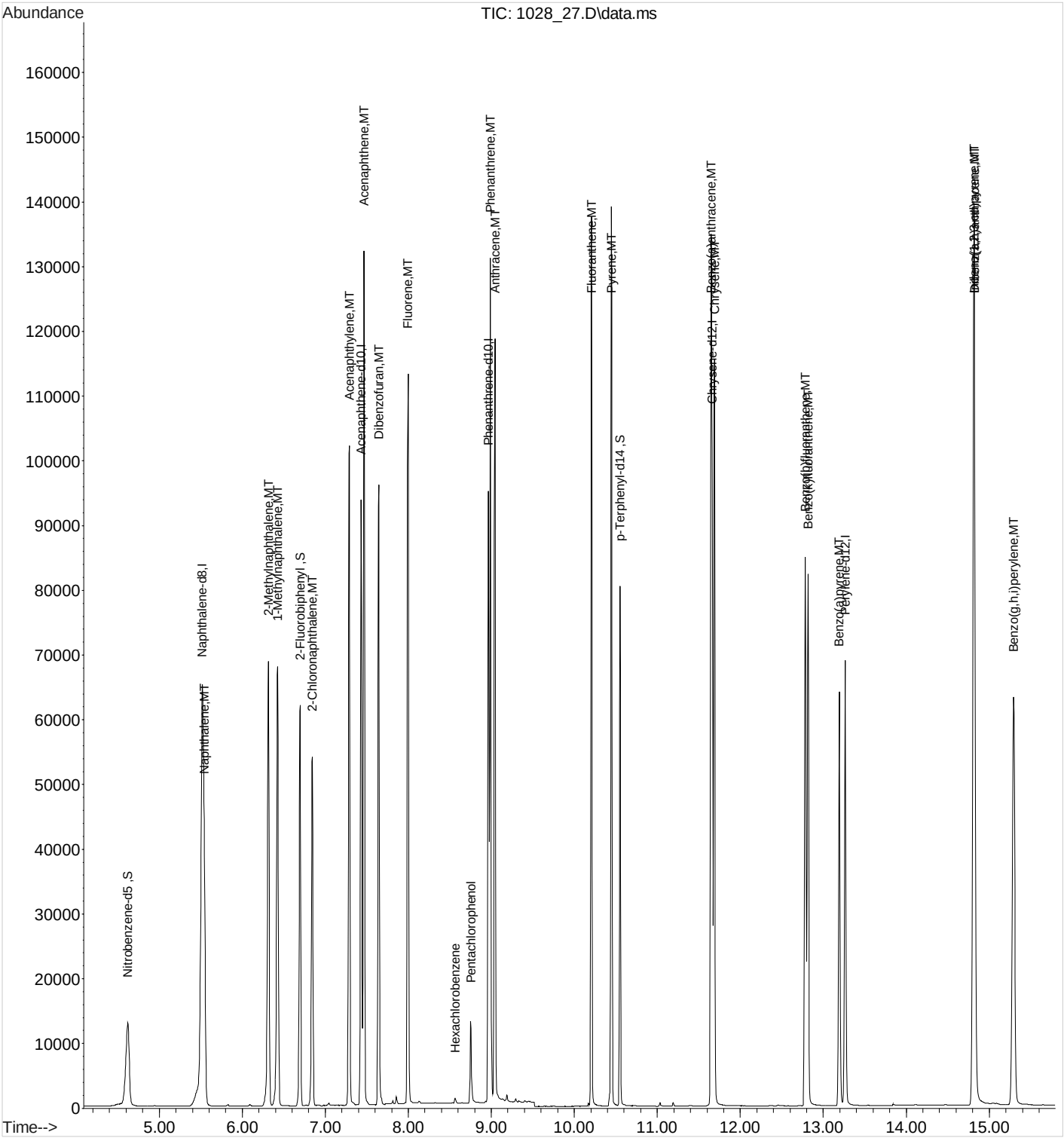
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) Naphthalene-d8	5.515	136	95478	40.0000000 ppb	0.00
6) Acenaphthene-d10	7.433	164	51801	40.0000000 ppb	0.00
13) Phenanthrene-d10	8.967	188	83301	40.0000000 ppb	0.00
19) Chrysene-d12	11.662	240	71674	40.0000000 ppb	0.00
24) Perylene-d12	13.262	264	74151	40.0000000 ppb	-0.02
System Monitoring Compounds					
2) Nitrobenzene-d5	4.620	82	26589	1.6582816 ppb	0.00
Spiked Amount 2.000	Range 45 - 170		Recovery = 82.91%		
7) 2-Fluorobiphenyl	6.696	172	55085	1.5711701 ppb	0.00
Spiked Amount 2.000	Range 58 - 153		Recovery = 78.56%		
21) p-Terphenyl-d14	10.551	244	57637	1.6869005 ppb	-0.01
Spiked Amount 2.000	Range 53 - 156		Recovery = 84.35%		
Target Compounds					Qvalue
3) Naphthalene	5.541	128	78316	1.5275974 ppb	100
4) 2-Methylnaphthalene	6.313	142	52447	1.5789515 ppb	99
5) 1-Methylnaphthalene	6.426	142	50880	1.6616335 ppb	99
8) 2-Chloronaphthalene	6.845	162	48181	1.5314679 ppb	94
9) Acenaphthylene	7.290	152	83365	1.6986610 ppb	99
10) Acenaphthene	7.467	153	52129	1.6840607 ppb	99
11) Dibenzofuran	7.644	168	72730	1.7514703 ppb	98
12) Fluorene	7.997	166	61853	1.7821923 ppb	96
14) Hexachlorobenzene	8.566	284	58	0.0058471 ppb #	1
15) Pentachlorophenol	8.756	266	5652	1.2982510 ppb	98
16) Phenanthrene	8.988	178	86253	1.8160788 ppb	100
17) Anthracene	9.044	178	86714	1.9132884 ppb	100
18) Fluoranthene	10.208	202	90726	1.9700564 ppb	97
20) Pyrene	10.446	202	92040	2.1221299 ppb	100
22) Benzo(a)anthracene	11.648	228	81408	1.9529416 ppb	99
23) Chrysene	11.689	228	75839	1.8737000 ppb	100
25) Benzo(b)fluoranthene	12.784	252	82780	1.9487943 ppb	98
26) Benzo(k)fluoranthene	12.816	252	78116	1.8202596 ppb	99
27) Benzo(a)pyrene	13.192	252	68688	1.8635831 ppb	99
28) Indeno(1,2,3-cd)pyrene	14.814	276	98958	1.9772767 ppb	100
29) Dibenz(a,h)anthracene	14.819	278	83792	1.9840058 ppb	95
30) Benzo(g,h,i)perylene	15.291	276	83378	1.9286114 ppb	99

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\102814\
Data File : 1028 27.D
Acq On : 29 Oct 2014 9:20 am
Operator : 282
Sample : LCS 1x WG750797 100-5
Misc : water 14J13916/14I03861
ALS Vial : 55 Sample Multiplier: 0.05
InstName : BNAMS13

Quant Time: Oct 29 11:50:34 2014
Quant Method : C:\msdchem\1\METHODS\SS13J24N.M
Quant Title : 8270 BNA
QLast Update : Fri Oct 24 12:08:30 2014
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\102814\
Data File : 1028 28.D
Acq On : 29 Oct 2014 9:41 am
Operator : 282
Sample : LCSD 1x WG750797 100-5
Misc : water 14J13916/14I03861
ALS Vial : 56 Sample Multiplier: 0.05
InstName : BNAMS13

Quant Time: Oct 29 12:01:12 2014
Quant Method : C:\msdchem\1\METHODS\SS13J24N.M
Quant Title : 8270 BNA
QLast Update : Fri Oct 24 12:08:30 2014
Response via : Initial Calibration

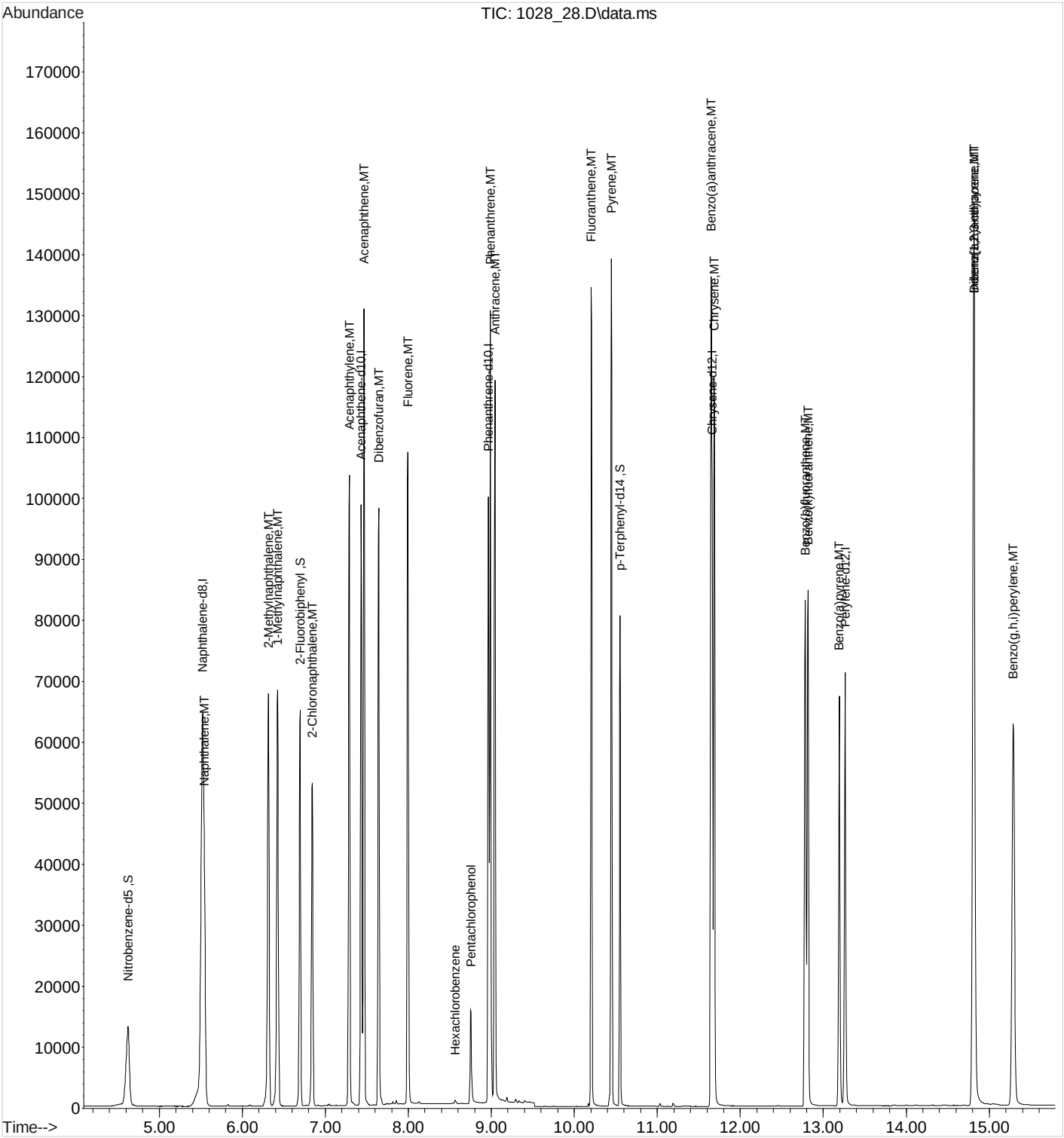
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Naphthalene-d8	5.519	136	97270	40.0000000	ppb	0.00
6) Acenaphthene-d10	7.433	164	52955	40.0000000	ppb	0.00
13) Phenanthrene-d10	8.967	188	85585	40.0000000	ppb	0.00
19) Chrysene-d12	11.662	240	72614	40.0000000	ppb	0.00
24) Perylene-d12	13.262	264	75389	40.0000000	ppb	-0.02
System Monitoring Compounds						
2) Nitrobenzene-d5	4.624	82	26290	1.6094269	ppb	0.01
Spiked Amount 2.000	Range 45 - 170		Recovery = 80.47%			
7) 2-Fluorobiphenyl	6.696	172	55187	1.5397769	ppb	0.00
Spiked Amount 2.000	Range 58 - 153		Recovery = 76.99%			
21) p-Terphenyl-d14	10.551	244	57528	1.6619144	ppb	-0.01
Spiked Amount 2.000	Range 53 - 156		Recovery = 83.10%			
Target Compounds						Qvalue
3) Naphthalene	5.542	128	76221	1.4593433	ppb	100
4) 2-Methylnaphthalene	6.313	142	51264	1.5149037	ppb	99
5) 1-Methylnaphthalene	6.426	142	49937	1.6007923	ppb	100
8) 2-Chloronaphthalene	6.845	162	47207	1.4678094	ppb	95
9) Acenaphthylene	7.290	152	83807	1.6704537	ppb	100
10) Acenaphthene	7.467	153	51517	1.6280213	ppb	99
11) Dibenzofuran	7.644	168	72437	1.7063999	ppb	98
12) Fluorene	7.997	166	61340	1.7288954	ppb	95
14) Hexachlorobenzene	8.566	284	41	0.0040230	ppb #	1
15) Pentachlorophenol	8.756	266	7217	1.6134881	ppb	98
16) Phenanthrene	8.988	178	86916	1.7812003	ppb	100
17) Anthracene	9.044	178	87085	1.8701961	ppb	100
18) Fluoranthene	10.204	202	91212	1.9277532	ppb	99
20) Pyrene	10.447	202	93866	2.1362149	ppb	100
22) Benzo(a)anthracene	11.648	228	82874	1.9623738	ppb	98
23) Chrysene	11.685	228	77508	1.8901456	ppb	97
25) Benzo(b)fluoranthene	12.784	252	85648	1.9832014	ppb	100
26) Benzo(k)fluoranthene	12.816	252	78520	1.7996276	ppb	99
27) Benzo(a)pyrene	13.192	252	69661	1.8589454	ppb	100
28) Indeno(1,2,3-cd)pyrene	14.814	276	99846	1.9622586	ppb	100
29) Dibenz(a,h)anthracene	14.814	278	84675	1.9719896	ppb	98
30) Benzo(g,h,i)perylene	15.286	276	83997	1.9110237	ppb	99

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\102814\
Data File : 1028 28.D
Acq On : 29 Oct 2014 9:41 am
Operator : 282
Sample : LCSD 1x WG750797 100-5
Misc : water 14J13916/14I03861
ALS Vial : 56 Sample Multiplier: 0.05
InstName : BNAMS13

Quant Time: Oct 29 12:01:12 2014
Quant Method : C:\msdchem\1\METHODS\SS13J24N.M
Quant Title : 8270 BNA
QLast Update : Fri Oct 24 12:08:30 2014
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\102814\
Data File : 1028 29.D
Acq On : 29 Oct 2014 10:03 am
Operator : 282
Sample : Blank 1x WG750797 100-5
Misc : water 14J13916/14I03861
ALS Vial : 57 Sample Multiplier: 0.05
InstName : BNAMS13

Quant Time: Oct 29 12:01:25 2014
Quant Method : C:\msdchem\1\METHODS\SS13J24N.M
Quant Title : 8270 BNA
QLast Update : Fri Oct 24 12:08:30 2014
Response via : Initial Calibration

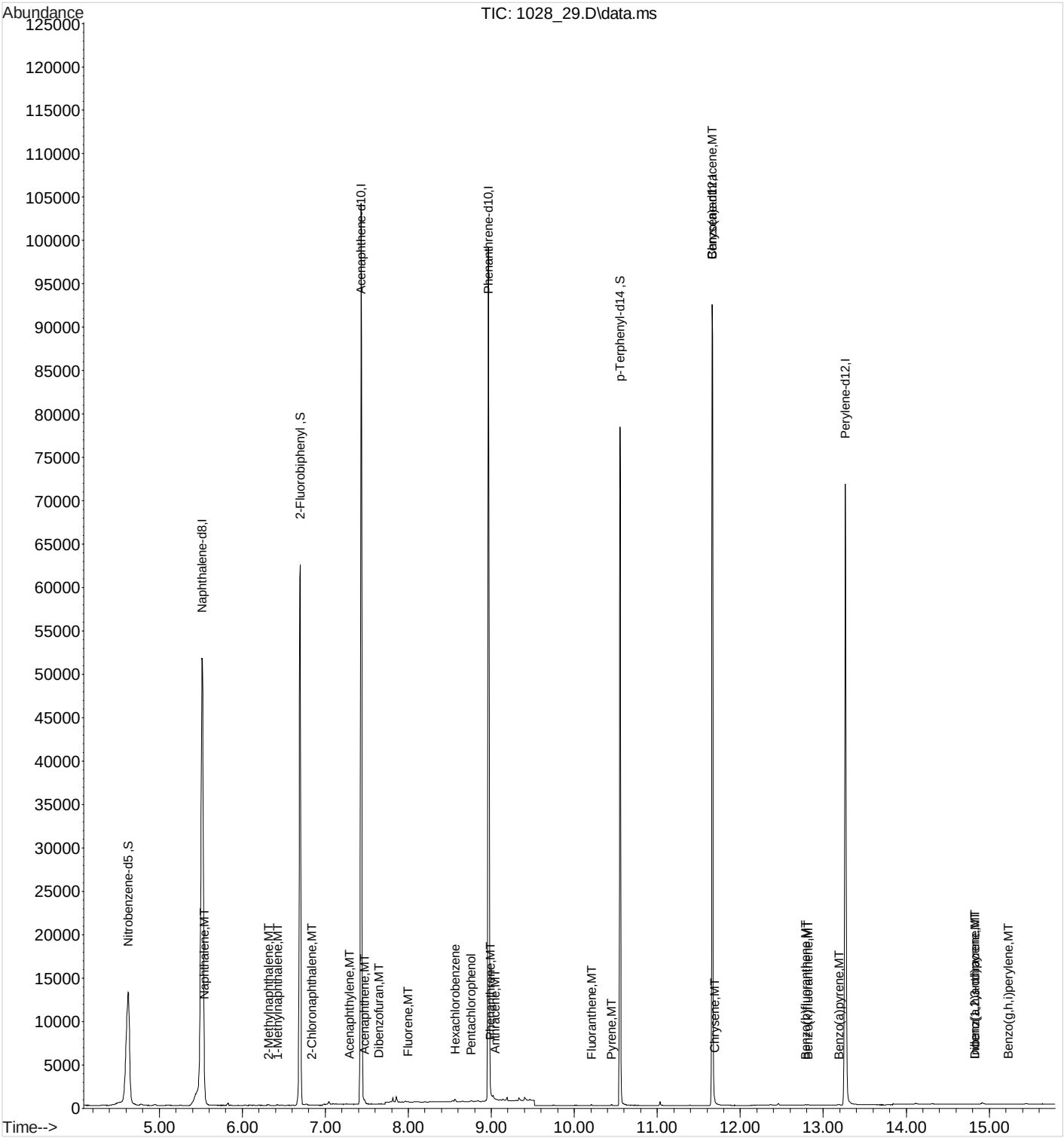
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Naphthalene-d8	5.515	136	98306	40.0000000	ppb	0.00
6) Acenaphthene-d10	7.433	164	54113	40.0000000	ppb	0.00
13) Phenanthrene-d10	8.967	188	87077	40.0000000	ppb	0.00
19) Chrysene-d12	11.662	240	74420	40.0000000	ppb	0.00
24) Perylene-d12	13.267	264	78722	40.0000000	ppb	-0.01
System Monitoring Compounds						
2) Nitrobenzene-d5	4.624	82	26679	1.6160288	ppb	0.01
Spiked Amount 2.000	Range 45 - 170		Recovery = 80.80%			
7) 2-Fluorobiphenyl	6.696	172	55824	1.5242189	ppb	0.00
Spiked Amount 2.000	Range 58 - 153		Recovery = 76.21%			
21) p-Terphenyl-d14	10.551	244	58548	1.6503351	ppb	-0.01
Spiked Amount 2.000	Range 53 - 156		Recovery = 82.52%			
Target Compounds						Qvalue
3) Naphthalene	5.541	128	961	0.0182056	ppb	100
4) 2-Methylnaphthalene	6.313	142	89	0.0026023	ppb	99
5) 1-Methylnaphthalene	6.426	142	64	0.0020300	ppb	92
8) 2-Chloronaphthalene	6.841	162	22	0.0006694	ppb #	35
9) Acenaphthylene	7.290	152	24	0.0004681	ppb	74
10) Acenaphthene	7.471	153	26	0.0008041	ppb #	44
11) Dibenzofuran	7.644	168	29	0.0006685	ppb	94
12) Fluorene	7.997	166	30	0.0008275	ppb	93
14) Hexachlorobenzene	8.566	284	30	0.0028932	ppb #	1
15) Pentachlorophenol	8.756	266	47	0.0103276	ppb	98
16) Phenanthrene	8.988	178	137	0.0027595	ppb	92
17) Anthracene	9.044	178	33	0.0006965	ppb	85
18) Fluoranthene	10.208	202	70	0.0014541	ppb #	56
20) Pyrene	10.446	202	85	0.0018875	ppb	92
22) Benzo(a)anthracene	11.662	228	231	0.0053371	ppb	65
23) Chrysene	11.689	228	33	0.0007852	ppb	88
25) Benzo(b)fluoranthene	12.789	252	40	0.0008870	ppb	76
26) Benzo(k)fluoranthene	12.816	252	36	0.0007902	ppb	82
27) Benzo(a)pyrene	13.192	252	48	0.0012267	ppb	74
28) Indeno(1,2,3-cd)pyrene	14.830	276	40	0.0007528	ppb #	71
29) Dibenz(a,h)anthracene	14.830	278	26	0.0005799	ppb #	62
30) Benzo(g,h,i)perylene	15.226	276	5	0.0001089	ppb	93

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\102814\
Data File : 1028 29.D
Acq On : 29 Oct 2014 10:03 am
Operator : 282
Sample : Blank 1x WG750797 100-5
Misc : water 14J13916/14I03861
ALS Vial : 57 Sample Multiplier: 0.05
InstName : BNAMS13

Quant Time: Oct 29 12:01:25 2014
Quant Method : C:\msdchem\1\METHODS\SS13J24N.M
Quant Title : 8270 BNA
QLast Update : Fri Oct 24 12:08:30 2014
Response via : Initial Calibration



Environmental Science Corporation
12065 Lebanon Rd., Mt. Juliet, TN 37122

Injection Log

Instrument ID : BNAMS13
Computer Name : SVCOMPAK
Released By : Fallon Labeots
Date Released : 10/30/2014 10:04:10 AM
Run ID : 102914
Signature : _____

#	File ID	Sample ID	Method	WG	Product	Matrix	Account #	State	Dil.	Mult.	Injected	Misc.
1	1029_01	TUNE SVMS 2000 PPB 14J03433	TUNE525						1	1	10/29/14 1217	"DFTPP TUNE"
2	1029_01T	TUNE SVMS 2000 PPB 14J03433								1	10/29/14 1217	
3	1029_02	ICV SIMLVI 40 PPB 14J10795	SS13J24N						1	1	10/29/14 1238	"sim calibration"
4	1029_03	NUBLANK	SS13J24N	WG749769					1	0.05	10/29/14 1300	"water 14J13916/14I03861"
5	1029_04	L728070-09	SS13J24N	WG749769	PAHSIMLVI	GW	ENVSCIMDL	TN	2	0.1	10/29/14 1322	"water 14J13916/14I03861"
6	1029_05	L728070-10	SS13J24N	WG749769	PAHSIMLVI	GW	ENVSCIMDL	TN	2	0.1	10/29/14 1345	"water 14J13916/14I03861"
7	1029_06	L728070-11	SS13J24N	WG749769	PAHSIMLVI	GW	ENVSCIMDL	TN	2	0.1	10/29/14 1407	"water 14J13916/14I03861"
8	1029_07	L728070-12	SS13J24N	WG749769	PAHSIMLVI	GW	ENVSCIMDL	TN	2	0.1	10/29/14 1428	"water 14J13916/14I03861"
9	1029_08	L728070-13	SS13J24N	WG749769	PAHSIMLVI	GW	ENVSCIMDL	TN	2	0.1	10/29/14 1450	"water 14J13916/14I03861"
10	1029_09	L728070-14	SS13J24N	WG749769	PAHSIMLVI	GW	ENVSCIMDL	TN	2	0.1	10/29/14 1511	"water 14J13916/14I03861"
11	1029_10	L728070-15	SS13J24N	WG749769	PAHSIMLVI	GW	ENVSCIMDL	TN	2	0.1	10/29/14 1533	"water 14J13916/14I03861"
12	1029_11	L728070-16	SS13J24N	WG749769	PAHSIMLVI	GW	ENVSCIMDL	TN	2	0.1	10/29/14 1554	"water 14J13916/14I03861"
13	1029_12	BLANK	SS13J24N	WG749750	PAHSIMLVI	GW			1	0.05	10/29/14 1616	"water 14J13916/14I03861"
14	1029_13	L723848-01	SS13J24N	WG749750	PAHSIMLVI	GW	ENVSCIPT	TN	1	0.05	10/29/14 1637	"water 14J13916/14I03861"
15	1029_14	L723848-02	SS13J24N	WG749750	PAHSIMLVI	GW	ENVSCIPT	TN	1	0.05	10/29/14 1659	"water 14J13916/14I03861"
16	1029_15	L729094-02	SS13J24N	WG750797	8270PAHSIM	GW	USAENVGCO	CO	1	0.05	10/29/14 1720	"water 14J13916/14I03861"
17	1029_16	L729094-03	SS13J24N	WG750797	8270PAHSIM	GW	USAENVGCO	CO	1	0.05	10/29/14 1741	"water 14J13916/14I03861"
18	1029_17	L729094-04	SS13J24N	WG750797	8270PAHSIM	GW	USAENVGCO	CO	1	0.05	10/29/14 1803	"water 14J13916/14I03861"
19	1029_18	L729094-05	SS13J24N	WG750797	8270PAHSIM	GW	USAENVGCO	CO	1	0.05	10/29/14 1824	"water 14J13916/14I03861"
20	1029_19	L729559-02	SS13J24N	WG750797	8270PAHSIM	GW	URSTAZ	NM	1	0.05	10/29/14 1846	"water 14J13916/14I03861"
21	1029_20	MS	SS13J24N	WG750797	8270PAHSIM	GW			1	0.05	10/29/14 1907	"water 14J13916/14I03861"

Environmental Science Corporation
12065 Lebanon Rd., Mt. Juliet, TN 37122

Injection Log

Instrument ID : BNAMS13
Computer Name : SVCOMPAK
Released By : Fallon Labeots
Date Released : 10/30/2014 10:04:10 AM
Run ID : 102914
Signature : _____

#	File ID	Sample ID	Method	WG	Product	Matrix	Account #	State	Dil.	Mult.	Injected	Misc.
22	1029_21	MSD	SS13J24N	WG750797	8270PAHSIM	GW			1	0.05	10/29/14 1929	"water 14J13916/14I03861"
23	1029_22	L729561-02	SS13J24N	WG750797	8270PAHSIM	GW	URSTAZ	NM	1	0.05	10/29/14 1950	"water 14J13916/14I03861"
24	1029_23	L729561-04	SS13J24N	WG750797	8270PAHSIM	GW	URSTAZ	NM	1	0.05	10/29/14 2012	"water 14J13916/14I03861"
25	1029_24	L729561-06	SS13J24N	WG750797	8270PAHSIM	GW	URSTAZ	NM	1	0.05	10/29/14 2033	"water 14J13916/14I03861"
26	1029_25	L729798-02	SS13J24N	WG750797	8270PAHSIM	GW	URSTAZ	NM	1	0.05	10/29/14 2055	"water 14J13916/14I03861"
27	1029_26	L729798-04	SS13J24N	WG750797	8270PAHSIM	GW	URSTAZ	NM	1	0.05	10/29/14 2116	"water 14J13916/14I03861"
28	1029_27	L729798-06	SS13J24N	WG750797	8270PAHSIM	GW	URSTAZ	NM	1	0.05	10/29/14 2138	"water 14J13916/14I03861"
29	1029_28	L729800-01	SS13J24N	WG750797	8270PAHSIM	GW	URSTAZ	NM	1	0.05	10/29/14 2159	"water 14J13916/14I03861"
30	1029_29	MS	SS13J24N	WG750797	8270PAHSIM	GW			1	0.05	10/29/14 2221	"water 14J13916/14I03861"
31	1029_30	MSD	SS13J24N	WG750797	8270PAHSIM	GW			1	0.05	10/29/14 2242	"water 14J13916/14I03861"
32	1029_31	DNR L729707-03	SS13J24N	WG751077					10	0.5	10/29/14 2303	"water 14J13916/14I03861"
33	1029_32	L729094-01	SS13J24N	WG750797	8270PAHSIM	GW	USAENVGCO	CO	1	0.05	10/29/14 2325	"water 14J13916/14I03861"
34	1029_33	L729034-06	SS13J24N	WG750797	8270PAHSIM	GW	URSTAZ	NM	10	0.5	10/29/14 2346	"water 14J13916/14I03861"
35	1029_34	L729094-01	SS13J24N	WG750797	8270PAHSIM	GW	USAENVGCO	CO	200	10	10/30/14 0008	"water 14J13916/14I03861"

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\102914\
Data File : 1029 01.D
Acq On : 29 Oct 2014 12:17 pm
Operator : 282
Sample : TUNE SVMS 2000 PPB 14J03433
Misc : DFTPP TUNE
ALS Vial : 2 Sample Multiplier: 1
InstName : BNAMS13

Quant Time: Oct 29 12:44:26 2014
Quant Method : C:\msdchem\1\METHODS\TUNE525.M
Quant Title :
QLast Update : Mon Jun 03 22:15:37 2013
Response via : Initial Calibration

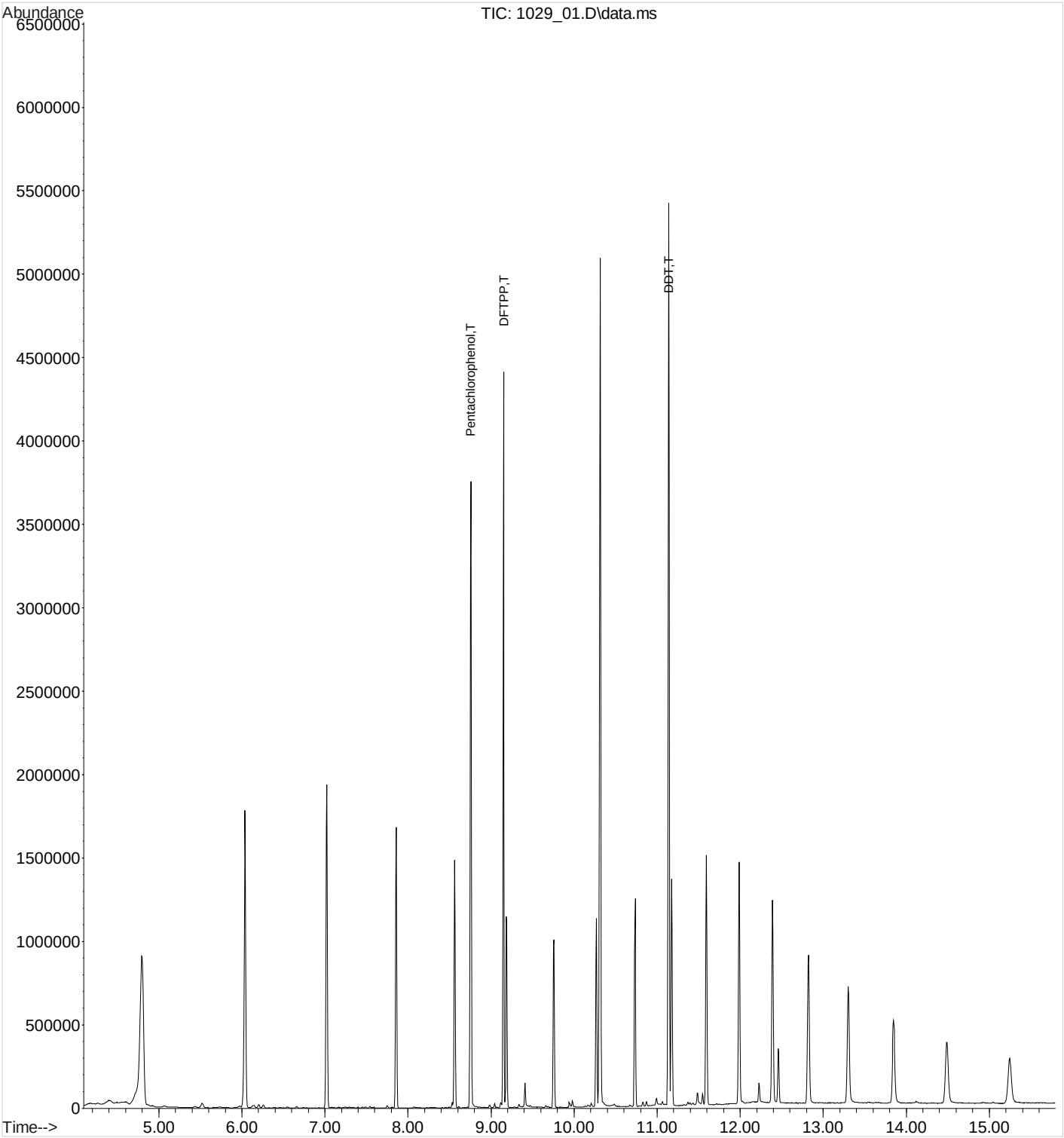
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Target Compounds						Qvalue
1) Pentachlorophenol	8.757	264	2250151	0.7347134	ppm	100
2) DFTPP	9.152	198	3840575	0.2282639	ppm	100
3) Benzidine	0.000		0	N.D.		
4) DDT	11.145	TIC	48238481	3.6958220	ppm	100
5) DDT	11.145	235	7922861	No Calib		

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\102914\
Data File : 1029 01.D
Acq On : 29 Oct 2014 12:17 pm
Operator : 282
Sample : TUNE SVMS 2000 PPB 14J03433
Misc : DFTPP TUNE
ALS Vial : 2 Sample Multiplier: 1
InstName : BNAMS13

Quant Time: Oct 29 12:44:26 2014
Quant Method : C:\msdchem\1\METHODS\TUNE525.M
Quant Title :
QLast Update : Mon Jun 03 22:15:37 2013
Response via : Initial Calibration



Quantitation Report (Qedit)

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Data Path : C:\msdchem\1\DATA\102914\
Data File : 1029 01.D
Acq On    : 29 Oct 2014  12:17 pm
Operator  : 282
Sample    : TUNE SVMS 2000 PPB 14J03433
Misc      : DFTPP TUNE
ALS Vial  : 2   Sample Multiplier: 1
InstName  : BNAMS13

Quant Time: Oct 29 12:44:26 2014
Quant Method : C:\msdchem\1\METHODS\TUNE525.M
Quant Title  :
QLast Update : Mon Jun 03 22:15:37 2013
Response via : Initial Calibration
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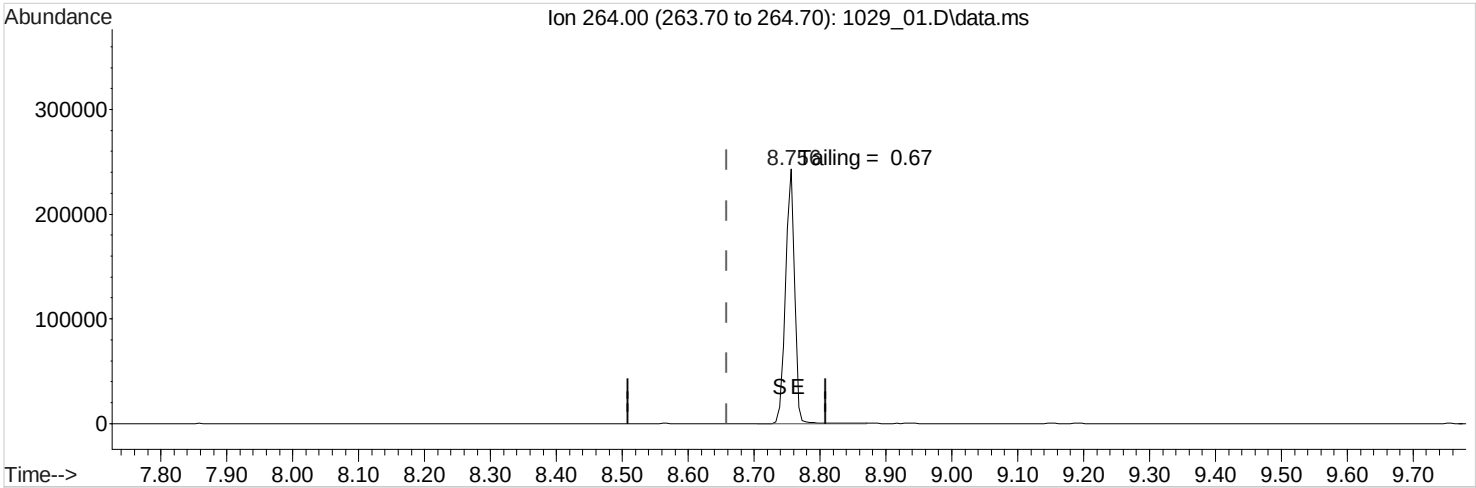
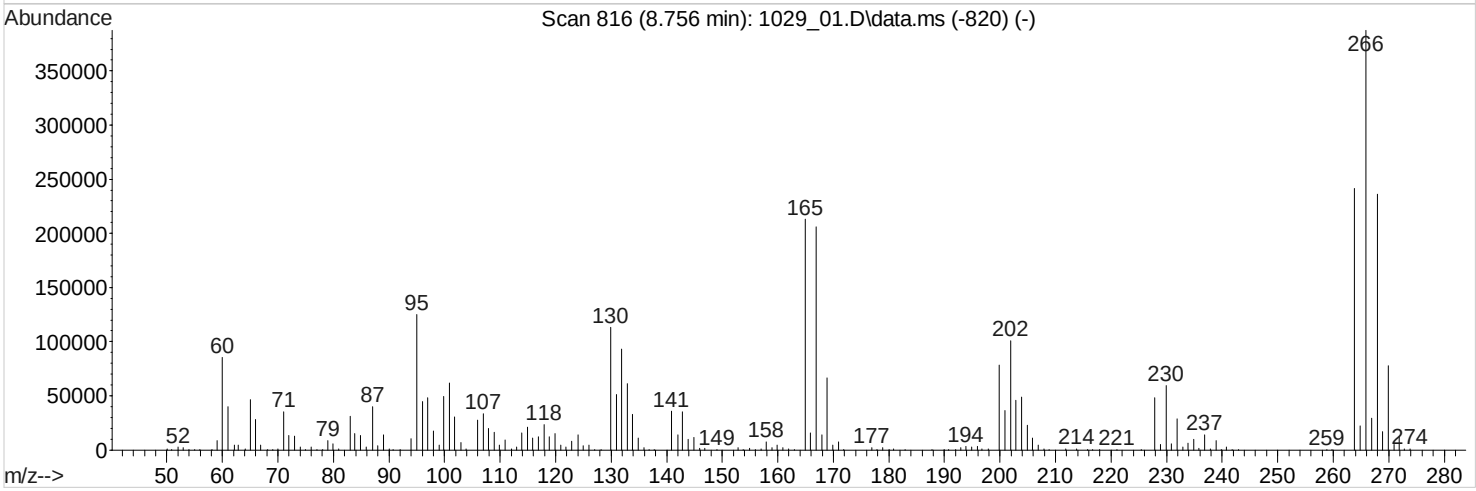




TIC: 1029_01.D\data.ms

(1) Pentachlorophenol (T)

8.757min (+0.099) 0.7347134 ppm

Qvalue = 100

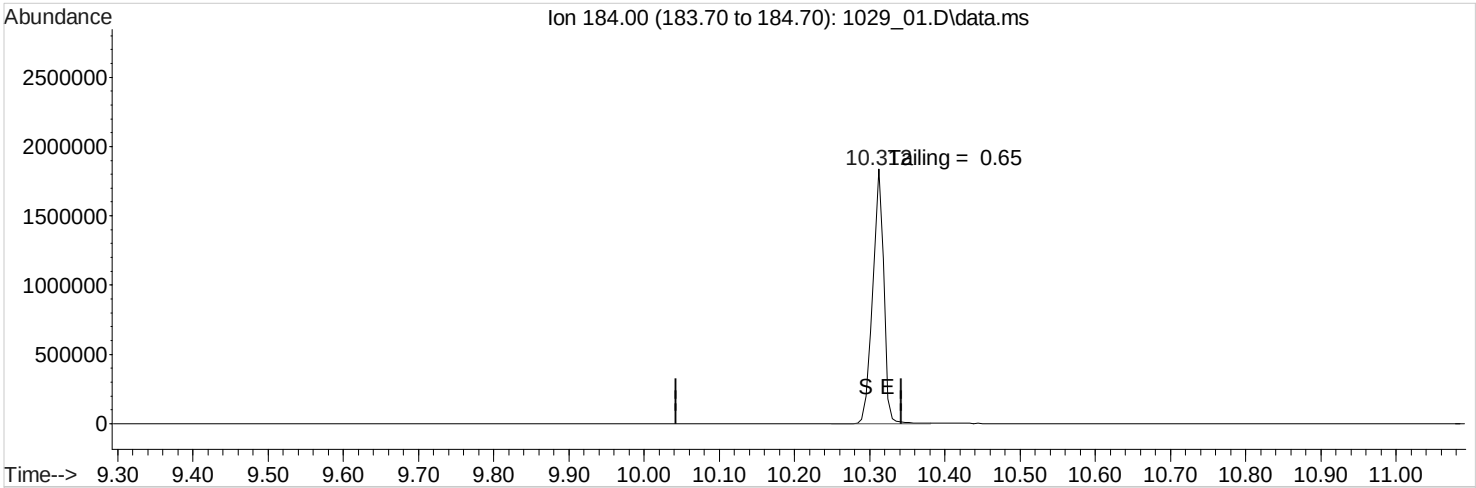
response 2250151

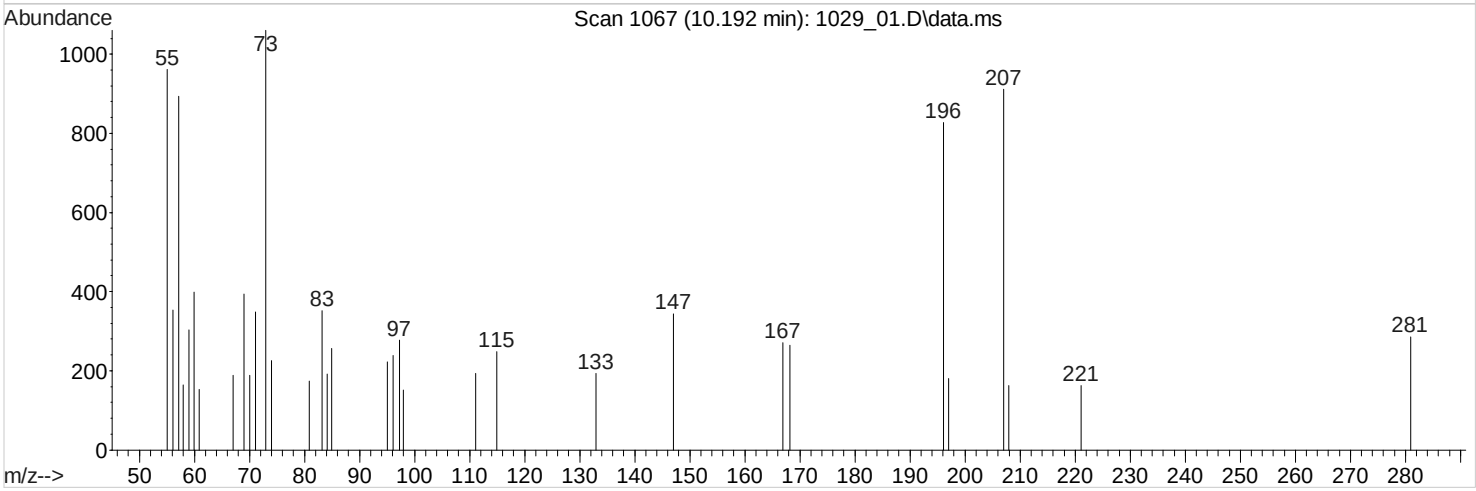
Ion	Exp%	Act%
264.00	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\102914\
Data File : 1029 01.D
Acq On : 29 Oct 2014 12:17 pm
Operator : 282
Sample : TUNE SVMS 2000 PPB 14J03433
Misc : DFTPP TUNE
ALS Vial : 2 Sample Multiplier: 1
InstName : BNAMS13

Quant Time: Oct 29 12:44:26 2014
Quant Method : C:\msdchem\1\METHODS\TUNE525.M
Quant Title :
QLast Update : Mon Jun 03 22:15:37 2013
Response via : Initial Calibration





TIC: 1029_01.D\data.ms

(3) Benzidine (T)

10.192min (-10.192) 0.0000000 ppm

Qvalue = 0

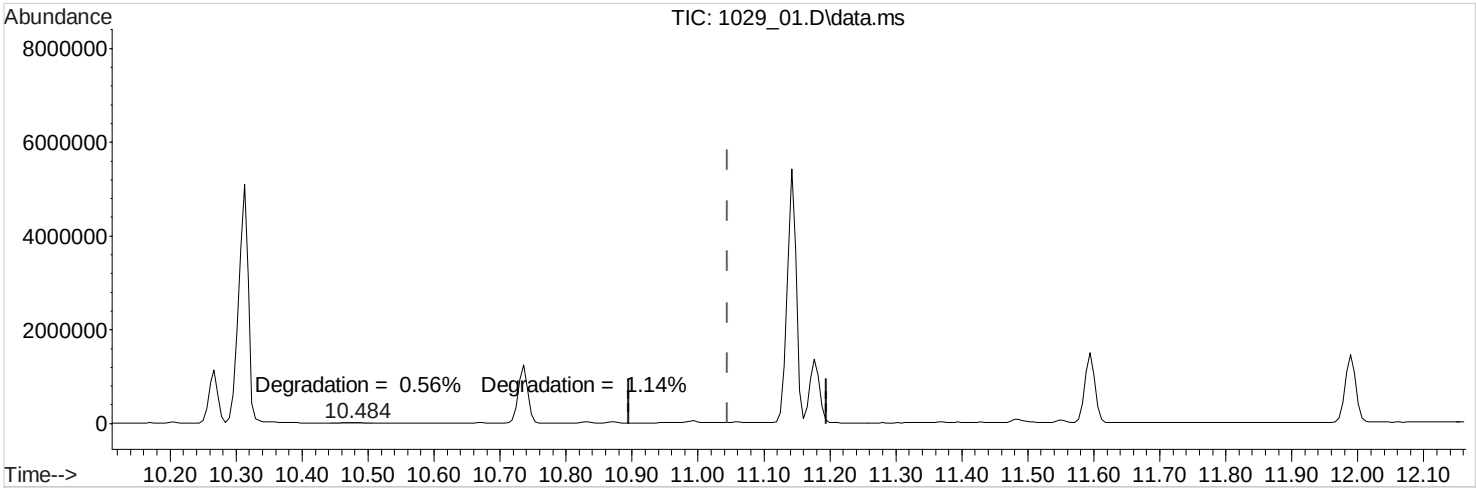
response 0

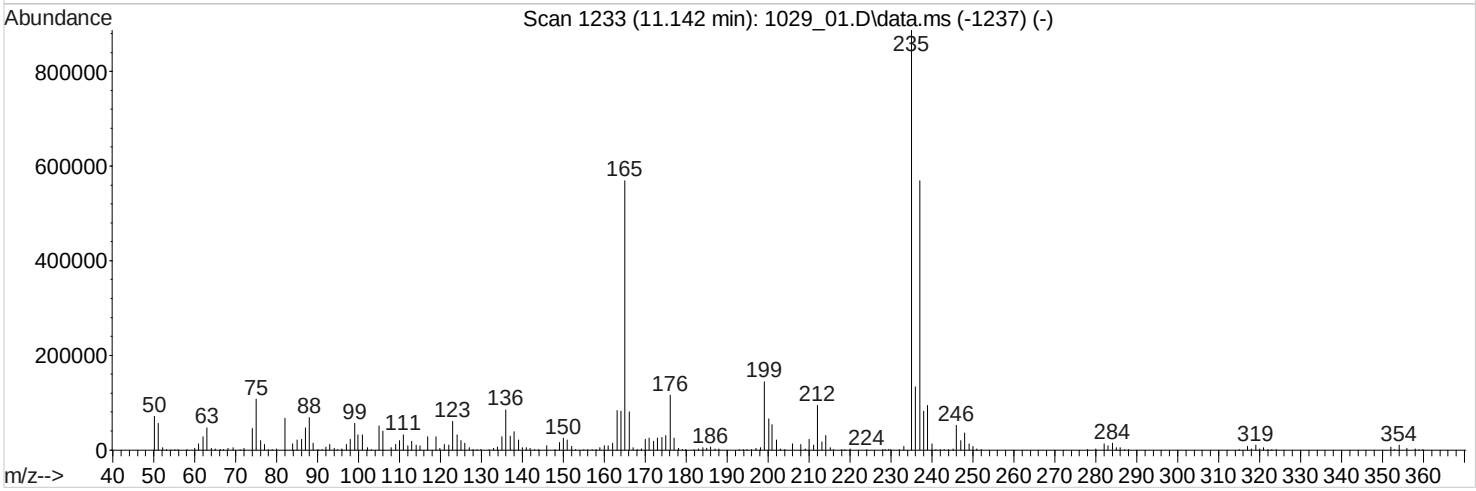
Ion	Exp%	Act%
184.00	100	0.00
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\102914\
Data File : 1029 01.D
Acq On : 29 Oct 2014 12:17 pm
Operator : 282
Sample : TUNE SVMS 2000 PPB 14J03433
Misc : DFTPP TUNE
ALS Vial : 2 Sample Multiplier: 1
InstName : BNAMS13

Quant Time: Oct 29 12:44:26 2014
Quant Method : C:\msdchem\1\METHODS\TUNE525.M
Quant Title :
QLast Update : Mon Jun 03 22:15:37 2013
Response via : Initial Calibration





TIC: 1029_01.D\data.ms

(4) DDT (T)

11.145min (+0.100) 3.6958220 ppm

Qvalue = 100

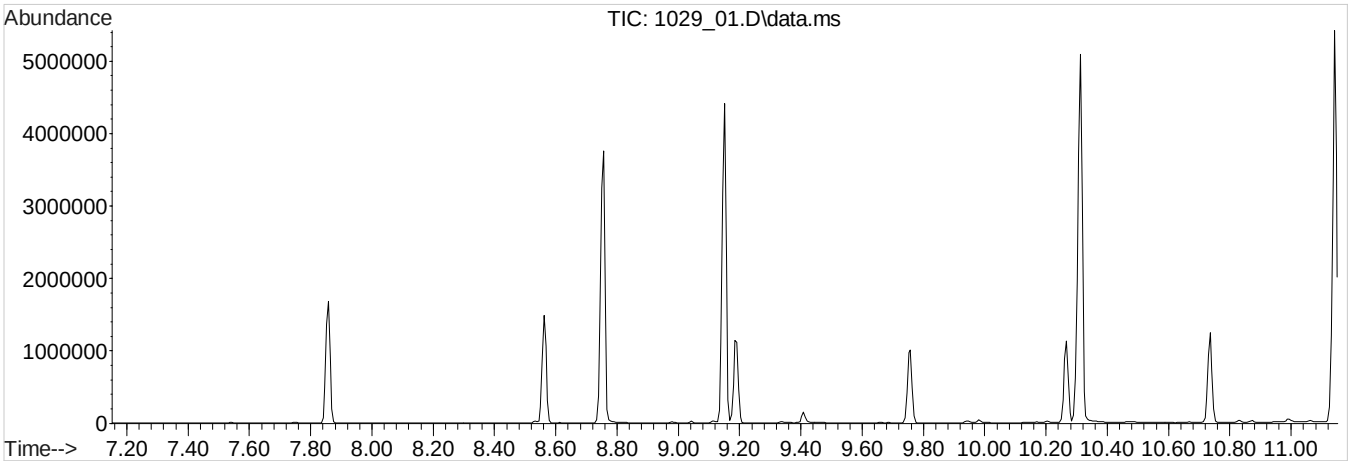
response 48238481

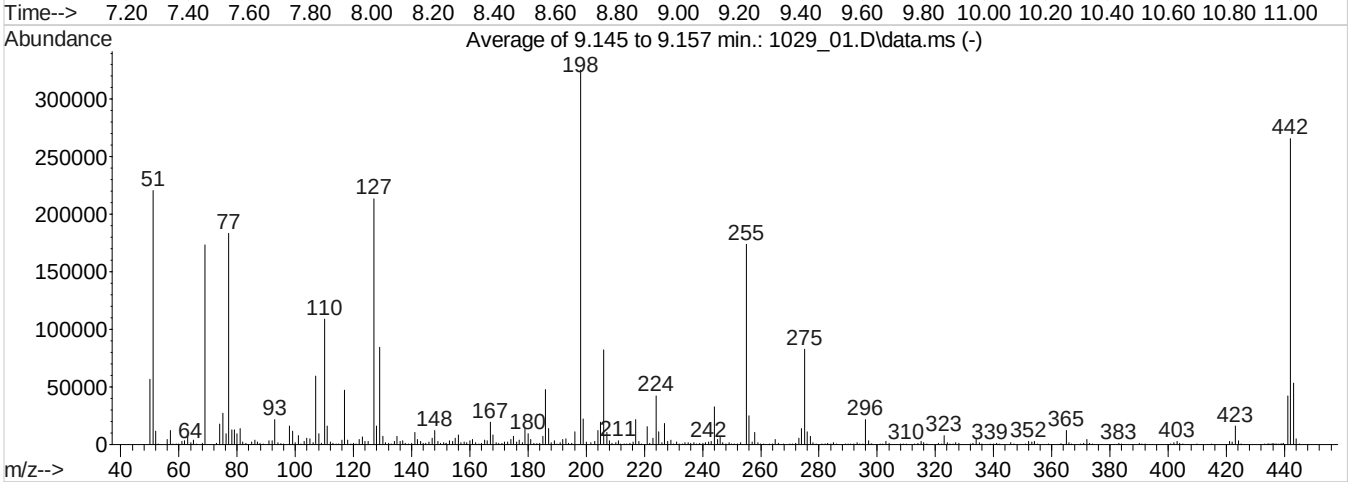
Signal	Exp%	Act%
TIC	100	100
0.00	6.20	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Data Path : C:\msdchem\1\DATA\102914\
Data File : 1029 01.D
Acq On : 29 Oct 2014 12:17 pm
Operator : 282
Sample : TUNE SVMS 2000 PPB 14J03433
Misc : DFTPP TUNE
ALS Vial : 2 Sample Multiplier: 1

Integration File: events.e

Method : C:\msdchem\1\METHODS\TUNE525.M
Title :
Last Update : Mon Jun 03 22:15:37 2013





Spectrum Information: Average of 9.145 to 9.157 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	10	80	67.9	220828	PASS
68	69	0.00	2	0.3	605	PASS
70	69	0.00	2	0.0	0	PASS
127	198	10	80	65.6	213573	PASS
197	198	0.00	2	0.0	0	PASS
198	198	50	100	100.0	325397	PASS
199	198	5	9	6.7	21778	PASS
275	198	10	60	25.4	82531	PASS
365	198	1	100	3.6	11863	PASS
441	443	0.01	100	79.8	42253	PASS
442	198	50	100	81.6	265472	PASS
443	442	15	24	19.9	52955	PASS

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\102914\
Data File : 1029 02.D
Acq On : 29 Oct 2014 12:38 pm
Operator : 282
Sample : ICV SIMLVI 40 PPB 14J10795
Misc : sim calibration
ALS Vial : 3 Sample Multiplier: 1
InstName : BNAMS13

Quant Time: Oct 29 12:55:31 2014
Quant Method : C:\msdchem\1\METHODS\SS13J24N.M
Quant Title : 8270 BNA
QLast Update : Fri Oct 24 12:08:30 2014
Response via : Initial Calibration

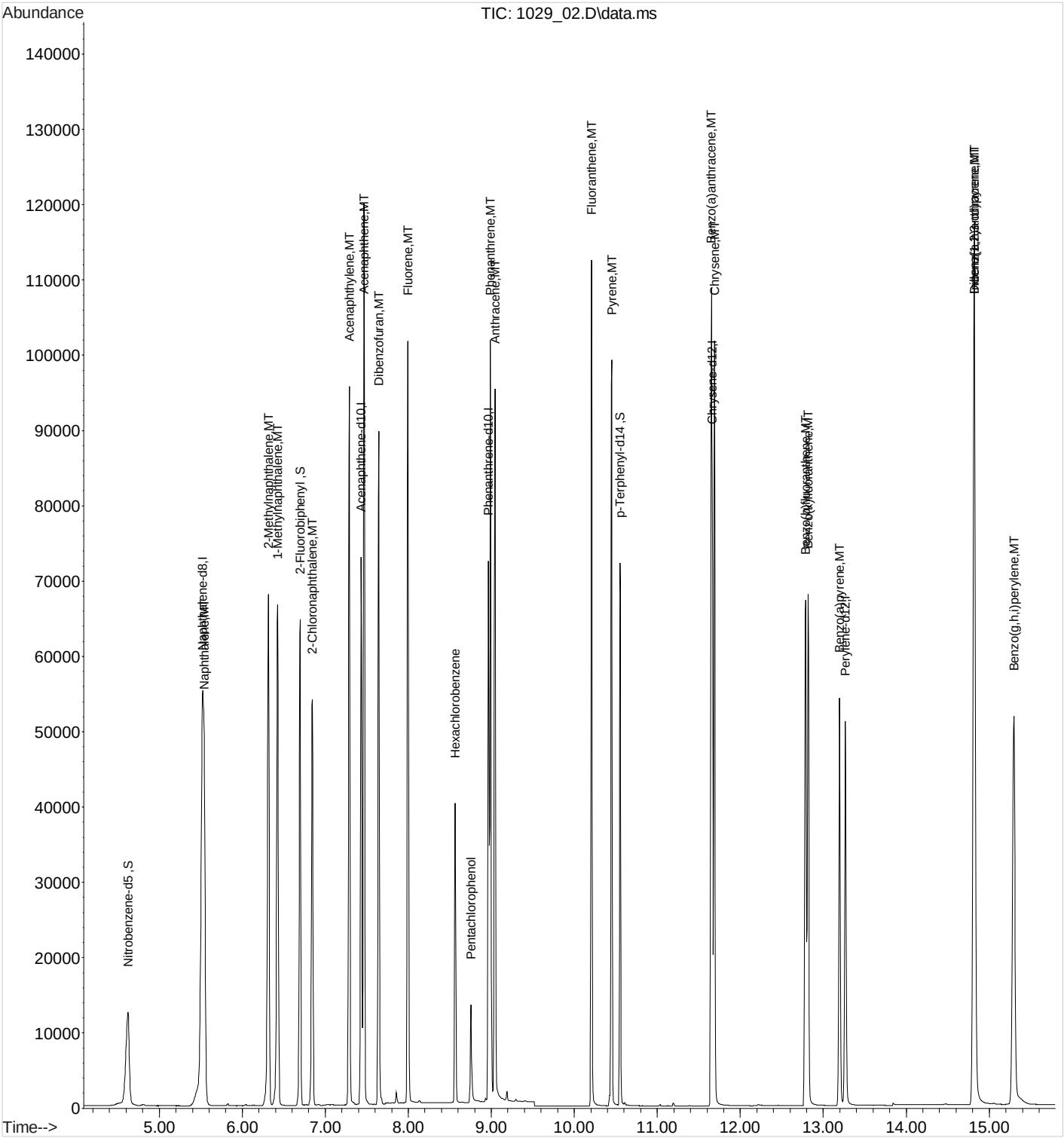
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) Naphthalene-d8	5.519	136	72919	40.0000000 ppb	0.00
6) Acenaphthene-d10	7.433	164	38904	40.0000000 ppb	0.00
13) Phenanthrene-d10	8.967	188	62123	40.0000000 ppb	0.00
19) Chrysene-d12	11.662	240	54511	40.0000000 ppb	0.00
24) Perylene-d12	13.267	264	57063	40.0000000 ppb	-0.01
System Monitoring Compounds					
2) Nitrobenzene-d5	4.624	82	25533	41.7014084 ppb	0.01
Spiked Amount 2.000	Range 45 - 170		Recovery = 2085.07%#		
7) 2-Fluorobiphenyl	6.696	172	55416	42.0919363 ppb	0.00
Spiked Amount 2.000	Range 58 - 153		Recovery = 2104.60%#		
21) p-Terphenyl-d14	10.551	244	54089	41.6298199 ppb	-0.01
Spiked Amount 2.000	Range 53 - 156		Recovery = 2081.49%#		
Target Compounds					Qvalue
3) Naphthalene	5.541	128	87607	44.7496699 ppb	100
4) 2-Methylnaphthalene	6.313	142	53152	41.9044698 ppb	99
5) 1-Methylnaphthalene	6.426	142	48943	41.8573121 ppb	100
8) 2-Chloronaphthalene	6.845	162	49232	41.6728727 ppb	96
9) Acenaphthylene	7.290	152	77003	41.7834696 ppb	100
10) Acenaphthene	7.467	153	48370	41.6129314 ppb	99
11) Dibenzofuran	7.644	168	64895	41.6173386 ppb	100
12) Fluorene	7.997	166	54872	42.1035250 ppb	97
14) Hexachlorobenzene	8.566	284	15480	41.8517135 ppb	97
15) Pentachlorophenol	8.756	266	5837	35.9562162 ppb	99
16) Phenanthrene	8.988	178	73022	41.2327202 ppb	99
17) Anthracene	9.044	178	72118	42.6739349 ppb	99
18) Fluoranthene	10.208	202	74378	43.3130915 ppb	98
20) Pyrene	10.450	202	66800	40.5022642 ppb	98
22) Benzo(a)anthracene	11.653	228	65952	41.6061587 ppb	96
23) Chrysene	11.689	228	63322	41.1404998 ppb	98
25) Benzo(b)fluoranthene	12.789	252	66842	40.8961488 ppb	99
26) Benzo(k)fluoranthene	12.816	252	67583	40.9282521 ppb	97
27) Benzo(a)pyrene	13.197	252	58657	41.3599632 ppb	98
28) Indeno(1,2,3-cd)pyrene	14.819	276	83137	43.1721125 ppb	98
29) Dibenz(a,h)anthracene	14.819	278	70108	43.1420090 ppb	97
30) Benzo(g,h,i)perylene	15.297	276	70209	42.2064146 ppb	97

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\102914\
Data File : 1029 02.D
Acq On : 29 Oct 2014 12:38 pm
Operator : 282
Sample : ICV SIMLVI 40 PPB 14J10795
Misc : sim calibration
ALS Vial : 3 Sample Multiplier: 1
InstName : BNAMS13

Quant Time: Oct 29 12:55:31 2014
Quant Method : C:\msdchem\1\METHODS\SS13J24N.M
Quant Title : 8270 BNA
QLast Update : Fri Oct 24 12:08:30 2014
Response via : Initial Calibration



Quantitation Report (Qedit)

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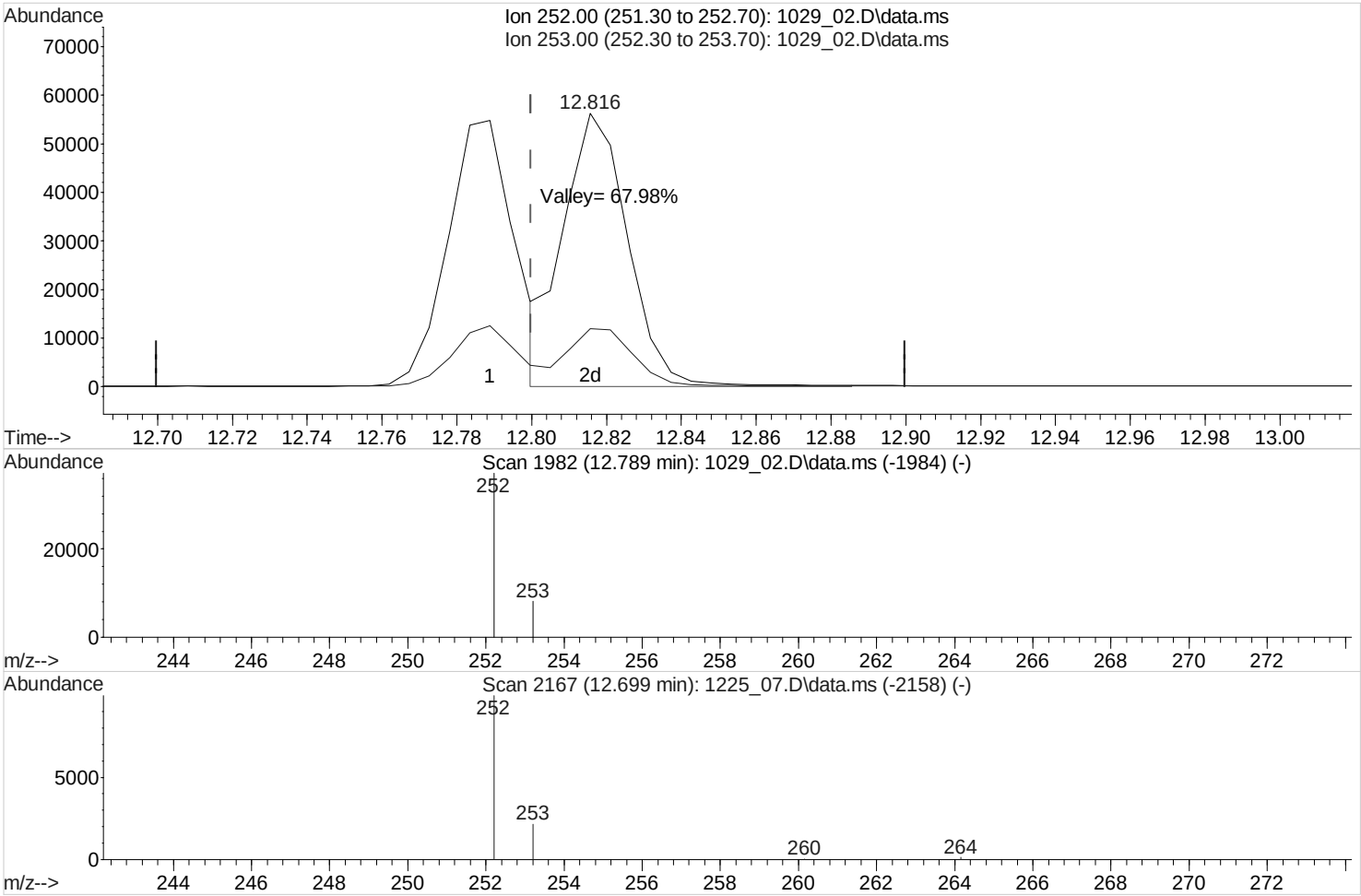
Data Path : C:\msdchem\1\DATA\102914\
Data File : 1029 02.D
Acq On    : 29 Oct 2014  12:38 pm
Operator  : 282
Sample    : ICV SIMLVI 40 PPB 14J10795
Misc      : sim calibration
ALS Vial  : 3   Sample Multiplier: 1
InstName  : BNAMS13

Quant Time: Oct 29 12:55:31 2014
Quant Method : C:\msdchem\1\METHODS\SS13J24N.M
Quant Title  : 8270 BNA
QLast Update : Fri Oct 24 12:08:30 2014
Response via : Initial Calibration
```



TIC: 1029_02.D\data.ms

(25) Benzo(b)fluoranthene (MT)

12.789min (-0.011) 40.8961488 ppb

Qvalue = 99

response 66842

Ion	Exp%	Act%
252.00	100	100
253.00	22.00	22.65
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\102914\
Data File : 1029 20.D
Acq On : 29 Oct 2014 7:07 pm
Operator : 282
Sample : MS 1x WG750797 L729559-02 100-5
Misc : water 14J13916/14I03861
ALS Vial : 86 Sample Multiplier: 0.05
InstName : BNAMS13

Quant Time: Oct 30 09:47:51 2014
Quant Method : C:\msdchem\1\METHODS\SS13J24N.M
Quant Title : 8270 BNA
QLast Update : Fri Oct 24 12:08:30 2014
Response via : Initial Calibration

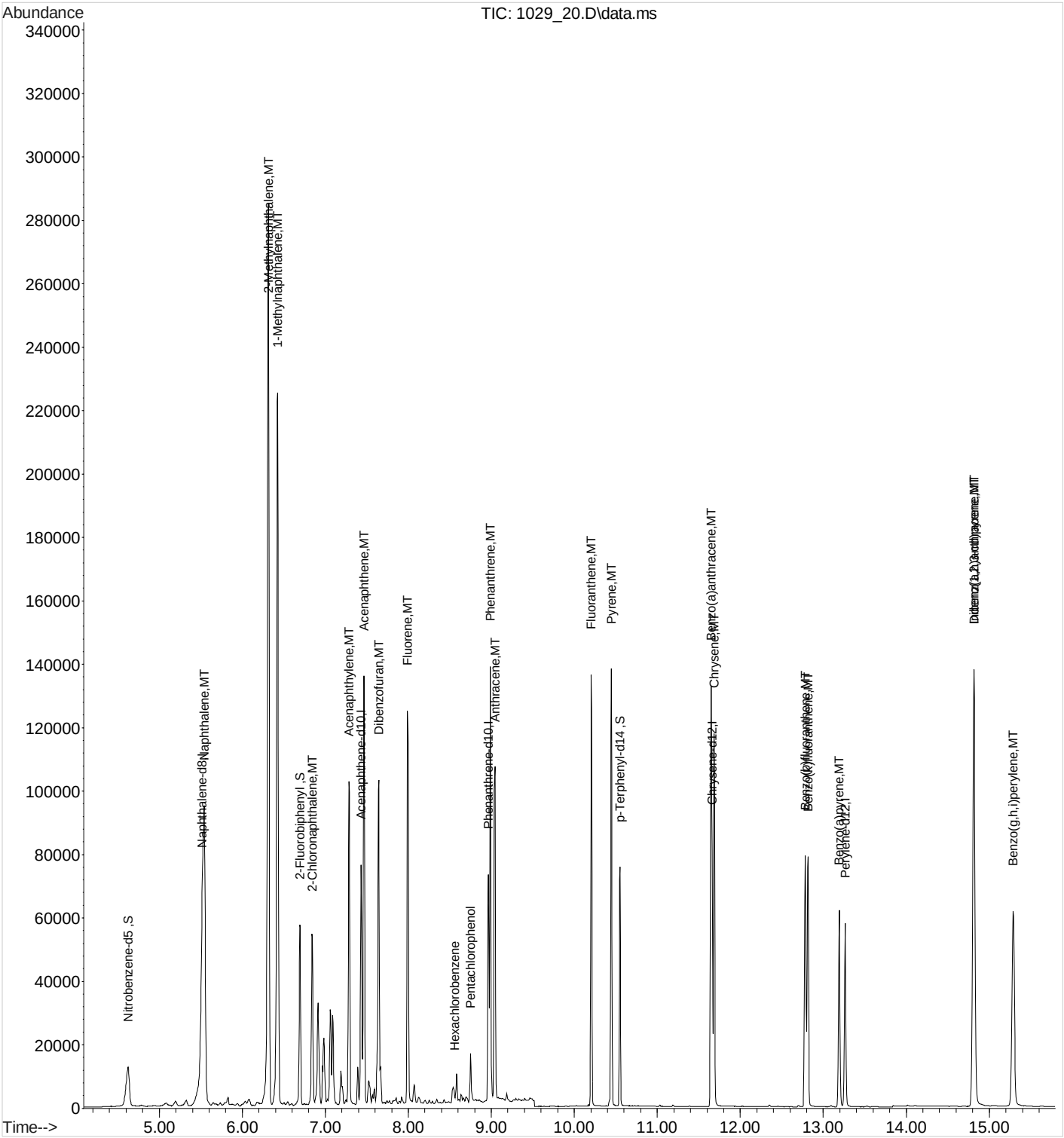
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Naphthalene-d8	5.515	136	74124	40.0000000	ppb	0.00
6) Acenaphthene-d10	7.433	164	39989	40.0000000	ppb	0.00
13) Phenanthrene-d10	8.967	188	65635	40.0000000	ppb	0.00
19) Chrysene-d12	11.662	240	59278	40.0000000	ppb	0.00
24) Perylene-d12	13.262	264	63469	40.0000000	ppb	-0.02
System Monitoring Compounds						
2) Nitrobenzene-d5	4.624	82	23421	1.8815084	ppb	0.01
Spiked Amount 2.000	Range 45 - 170		Recovery = 94.08%			
7) 2-Fluorobiphenyl	6.692	172	49570	1.8314976	ppb	0.00
Spiked Amount 2.000	Range 58 - 153		Recovery = 91.57%			
21) p-Terphenyl-d14	10.551	244	54782	1.9386262	ppb	-0.01
Spiked Amount 2.000	Range 53 - 156		Recovery = 96.93%			
Target Compounds						Qvalue
3) Naphthalene	5.542	128	180694	4.5399035	ppb	95
4) 2-Methylnaphthalene	6.313	142	215847	8.3702536	ppb	100
5) 1-Methylnaphthalene	6.426	142	163591	6.8816411	ppb	100
8) 2-Chloronaphthalene	6.845	162	46798	1.9268902	ppb	95
9) Acenaphthylene	7.286	152	82569	2.1794033	ppb	99
10) Acenaphthene	7.467	153	53707	2.2475369	ppb	99
11) Dibenzofuran	7.644	168	73608	2.2962110	ppb	96
12) Fluorene	7.990	166	68539	2.5581685	ppb	97
14) Hexachlorobenzene	8.559	284	80	0.0102357	ppb #	1
15) Pentachlorophenol	8.749	266	6062	1.7672059	ppb	96
16) Phenanthrene	8.988	178	92363	2.4681595	ppb	100
17) Anthracene	9.044	178	84676	2.3711896	ppb	99
18) Fluoranthene	10.204	202	87836	2.4206621	ppb	99
20) Pyrene	10.447	202	90172	2.5138257	ppb	99
22) Benzo(a)anthracene	11.648	228	79069	2.2934882	ppb	97
23) Chrysene	11.685	228	73305	2.1898237	ppb	96
25) Benzo(b)fluoranthene	12.784	252	81914	2.2529630	ppb	100
26) Benzo(k)fluoranthene	12.816	252	73339	1.9965660	ppb	100
27) Benzo(a)pyrene	13.192	252	67983	2.1548824	ppb	100
28) Indeno(1,2,3-cd)pyrene	14.814	276	96077	2.2428041	ppb	99
29) Dibenz(a,h)anthracene	14.814	278	82012	2.2686795	ppb	96
30) Benzo(g,h,i)perylene	15.286	276	80926	2.1869391	ppb	100

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\102914\
Data File : 1029 20.D
Acq On : 29 Oct 2014 7:07 pm
Operator : 282
Sample : MS 1x WG750797 L729559-02 100-5
Misc : water 14J13916/14I03861
ALS Vial : 86 Sample Multiplier: 0.05
InstName : BNAMS13

Quant Time: Oct 30 09:47:51 2014
Quant Method : C:\msdchem\1\METHODS\SS13J24N.M
Quant Title : 8270 BNA
QLast Update : Fri Oct 24 12:08:30 2014
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\102914\
Data File : 1029 21.D
Acq On : 29 Oct 2014 7:29 pm
Operator : 282
Sample : MSD 1x WG750797 L729559-02 100-5
Misc : water 14J13916/14I03861
ALS Vial : 87 Sample Multiplier: 0.05
InstName : BNAMS13

Quant Time: Oct 30 09:48:08 2014
Quant Method : C:\msdchem\1\METHODS\SS13J24N.M
Quant Title : 8270 BNA
QLast Update : Fri Oct 24 12:08:30 2014
Response via : Initial Calibration

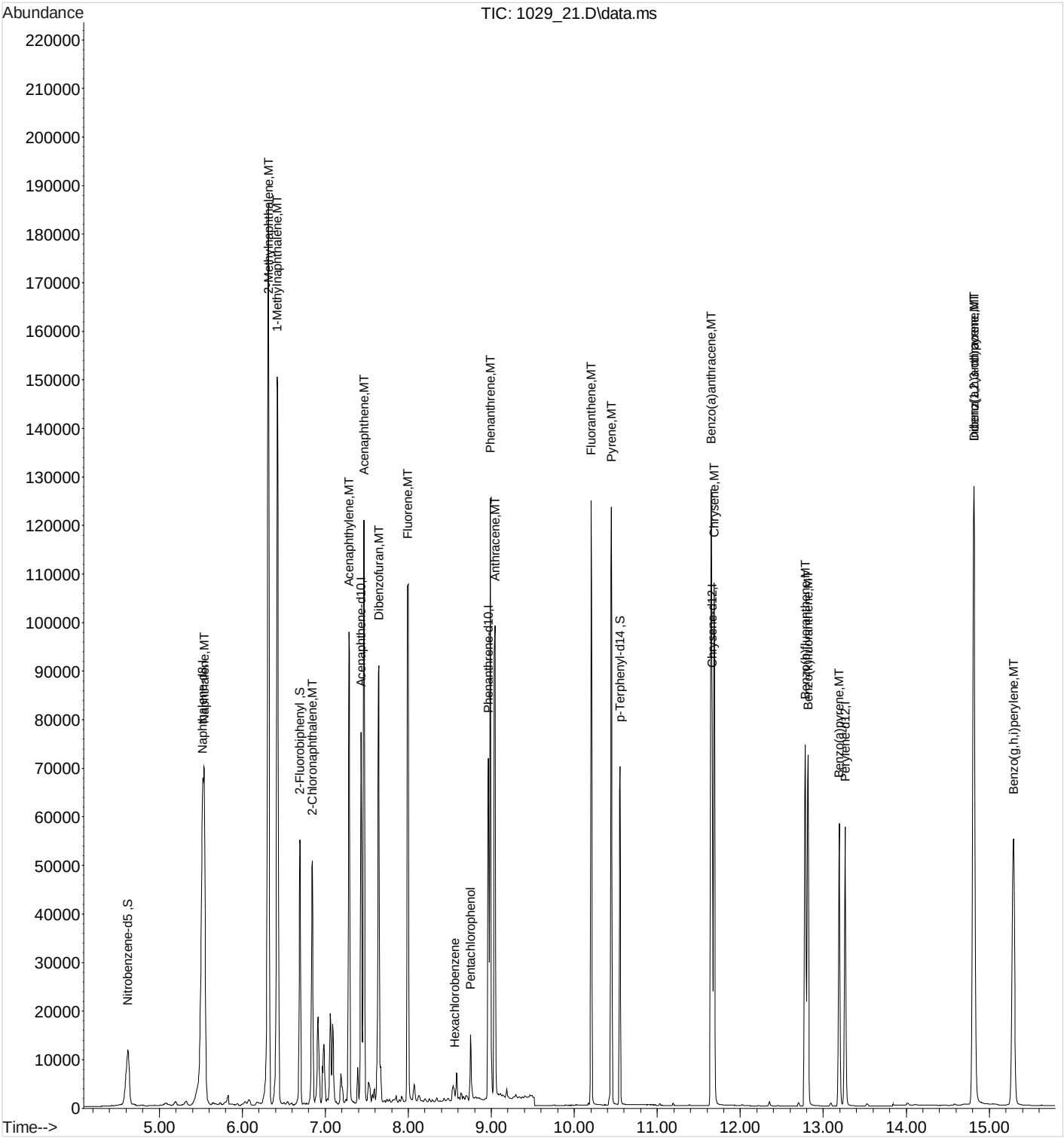
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) Naphthalene-d8	5.519	136	73412	40.0000000 ppb	0.00
6) Acenaphthene-d10	7.433	164	39519	40.0000000 ppb	0.00
13) Phenanthrene-d10	8.967	188	64856	40.0000000 ppb	0.00
19) Chrysene-d12	11.662	240	57894	40.0000000 ppb	0.00
24) Perylene-d12	13.262	264	61983	40.0000000 ppb	-0.02
System Monitoring Compounds					
2) Nitrobenzene-d5	4.620	82	22272	1.8065573 ppb	0.00
Spiked Amount 2.000	Range 45 - 170		Recovery = 90.33%		
7) 2-Fluorobiphenyl	6.692	172	47547	1.7776455 ppb	0.00
Spiked Amount 2.000	Range 58 - 153		Recovery = 88.88%		
21) p-Terphenyl-d14	10.551	244	51997	1.8840589 ppb	-0.01
Spiked Amount 2.000	Range 53 - 156		Recovery = 94.20%		
Target Compounds					Qvalue
3) Naphthalene	5.541	128	128653	3.2637328 ppb	96
4) 2-Methylnaphthalene	6.313	142	142772	5.5902012 ppb	100
5) 1-Methylnaphthalene	6.422	142	111989	4.7566344 ppb	98
8) 2-Chloronaphthalene	6.845	162	43751	1.8228556 ppb	95
9) Acenaphthylene	7.286	152	77207	2.0621101 ppb	99
10) Acenaphthene	7.463	153	49153	2.0814240 ppb	97
11) Dibenzofuran	7.644	168	67852	2.1418253 ppb	98
12) Fluorene	7.997	166	60977	2.3029899 ppb	95
14) Hexachlorobenzene	8.559	284	62	0.0080280 ppb #	1
15) Pentachlorophenol	8.749	266	5558	1.6397404 ppb	96
16) Phenanthrene	8.988	178	83616	2.2612570 ppb	99
17) Anthracene	9.044	178	80036	2.2681755 ppb	99
18) Fluoranthene	10.204	202	82294	2.2951714 ppb	99
20) Pyrene	10.446	202	84622	2.4154982 ppb	99
22) Benzo(a)anthracene	11.648	228	73343	2.1782560 ppb	98
23) Chrysene	11.685	228	67930	2.0777685 ppb	97
25) Benzo(b)fluoranthene	12.784	252	76727	2.1608927 ppb	100
26) Benzo(k)fluoranthene	12.816	252	68062	1.8973282 ppb	100
27) Benzo(a)pyrene	13.192	252	63271	2.0536054 ppb	99
28) Indeno(1,2,3-cd)pyrene	14.814	276	89979	2.1508104 ppb	99
29) Dibenz(a,h)anthracene	14.814	278	76564	2.1687496 ppb	96
30) Benzo(g,h,i)perylene	15.291	276	75657	2.0935667 ppb	97

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\102914\
Data File : 1029 21.D
Acq On : 29 Oct 2014 7:29 pm
Operator : 282
Sample : MSD 1x WG750797 L729559-02 100-5
Misc : water 14J13916/14I03861
ALS Vial : 87 Sample Multiplier: 0.05
InstName : BNAMS13

Quant Time: Oct 30 09:48:08 2014
Quant Method : C:\msdchem\1\METHODS\SS13J24N.M
Quant Title : 8270 BNA
QLast Update : Fri Oct 24 12:08:30 2014
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\102914\
Data File : 1029 28.D
Acq On : 29 Oct 2014 9:59 pm
Operator : 282
Sample : L729800-01 1x WG750797 100-5
Misc : water 14J13916/14I03861
ALS Vial : 94 Sample Multiplier: 0.05
InstName : BNAMS13

Quant Time: Oct 30 09:52:33 2014
Quant Method : C:\msdchem\1\METHODS\SS13J24N.M
Quant Title : 8270 BNA
QLast Update : Fri Oct 24 12:08:30 2014
Response via : Initial Calibration

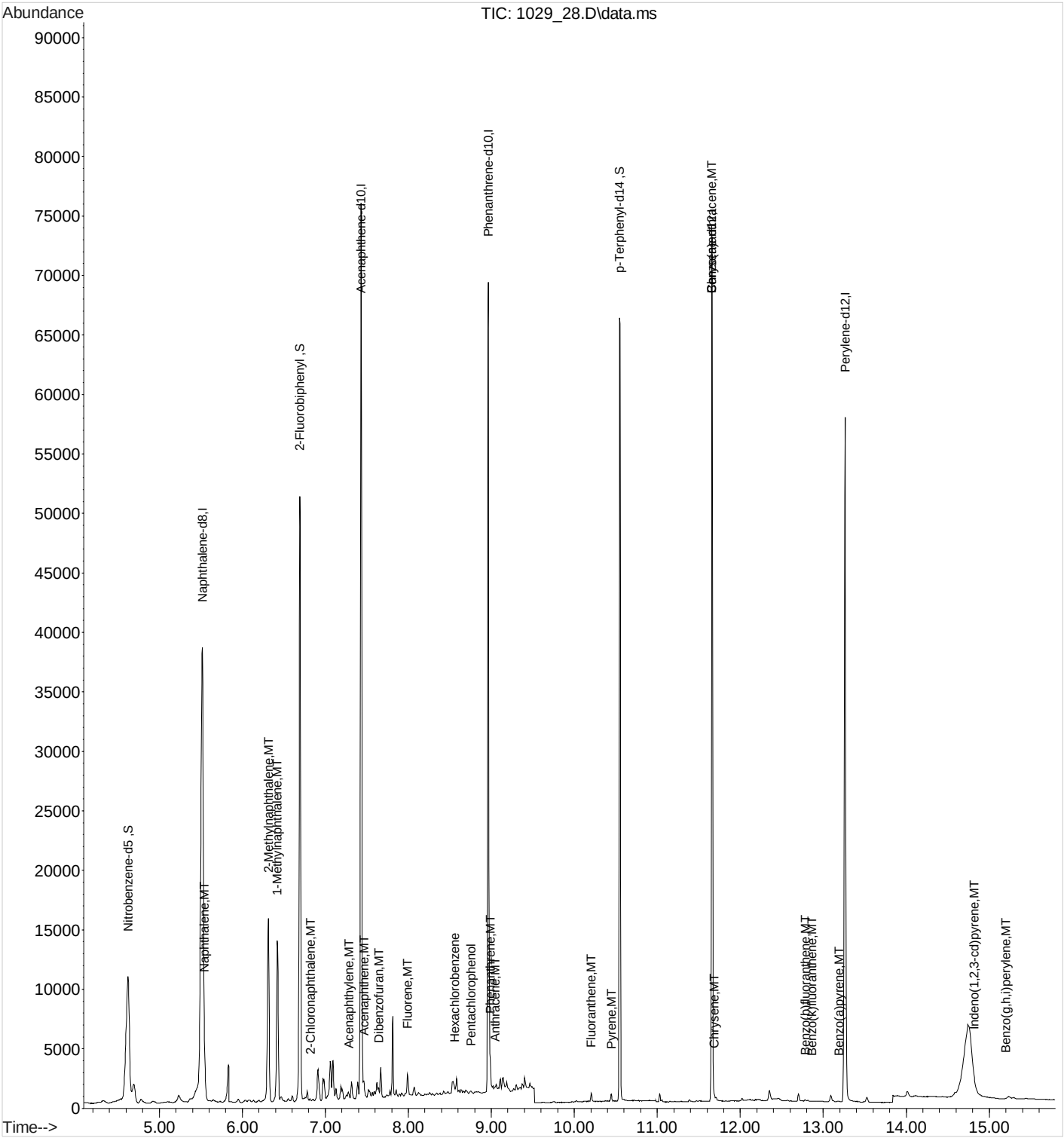
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Naphthalene-d8	5.519	136	71036	40.0000000	ppb		0.00
6) Acenaphthene-d10	7.433	164	39872	40.0000000	ppb		0.00
13) Phenanthrene-d10	8.967	188	65087	40.0000000	ppb		0.00
19) Chrysene-d12	11.657	240	58705	40.0000000	ppb		-0.01
24) Perylene-d12	13.262	264	64111	40.0000000	ppb		-0.02
System Monitoring Compounds							
2) Nitrobenzene-d5	4.624	82	19359	1.6227963	ppb		0.01
Spiked Amount 2.000	Range 45 - 170		Recovery = 81.14%				
7) 2-Fluorobiphenyl	6.692	172	43916	1.6273567	ppb		0.00
Spiked Amount 2.000	Range 58 - 153		Recovery = 81.37%				
21) p-Terphenyl-d14	10.547	244	51619	1.8445237	ppb		-0.02
Spiked Amount 2.000	Range 53 - 156		Recovery = 92.23%				
Target Compounds							Qvalue
3) Naphthalene	5.541	128	7194	0.1886052	ppb		97
4) 2-Methylnaphthalene	6.313	142	11795	0.4772774	ppb		99
5) 1-Methylnaphthalene	6.422	142	10147	0.4454004	ppb		97
8) 2-Chloronaphthalene	6.821	162	44	0.0018170	ppb	#	35
9) Acenaphthylene	7.286	152	316	0.0083653	ppb	#	68
10) Acenaphthene	7.463	153	661	0.0277428	ppb		96
11) Dibenzofuran	7.644	168	572	0.0178960	ppb		79
12) Fluorene	7.990	166	1129	0.0422628	ppb		92
14) Hexachlorobenzene	8.559	284	33	0.0042578	ppb	#	1
15) Pentachlorophenol	8.756	266	40	0.0117591	ppb	#	87
16) Phenanthrene	8.988	178	1637	0.0441128	ppb		98
17) Anthracene	9.044	178	221m	0.0062408	ppb		
18) Fluoranthene	10.204	202	378	0.0105050	ppb	#	55
20) Pyrene	10.446	202	399	0.0112319	ppb		99
22) Benzo(a)anthracene	11.657	228	254	0.0074395	ppb		66
23) Chrysene	11.684	228	106	0.0031974	ppb		88
25) Benzo(b)fluoranthene	12.783	252	138	0.0037575	ppb		73
26) Benzo(k)fluoranthene	12.864	252	13	0.0003504	ppb		95
27) Benzo(a)pyrene	13.192	252	112	0.0035146	ppb		73
28) Indeno(1,2,3-cd)pyrene	14.814	276	119	0.0027501	ppb	#	1
29) Dibenz(a,h)anthracene	0.000		0	N.D. d			
30) Benzo(g,h,i)perylene	15.199	276	3	0.0000803	ppb		93

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\102914\
Data File : 1029 28.D
Acq On : 29 Oct 2014 9:59 pm
Operator : 282
Sample : L729800-01 1x WG750797 100-5
Misc : water 14J13916/14I03861
ALS Vial : 94 Sample Multiplier: 0.05
InstName : BNAMS13

Quant Time: Oct 30 09:52:33 2014
Quant Method : C:\msdchem\1\METHODS\SS13J24N.M
Quant Title : 8270 BNA
QLast Update : Fri Oct 24 12:08:30 2014
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\102914\
Data File : 1029 29.D
Acq On : 29 Oct 2014 10:21 pm
Operator : 282
Sample : MS 1x WG750797 L729800-01 100-5
Misc : water 14J13916/14I03861
ALS Vial : 95 Sample Multiplier: 0.05
InstName : BNAMS13

Quant Time: Oct 30 09:52:42 2014
Quant Method : C:\msdchem\1\METHODS\SS13J24N.M
Quant Title : 8270 BNA
QLast Update : Fri Oct 24 12:08:30 2014
Response via : Initial Calibration

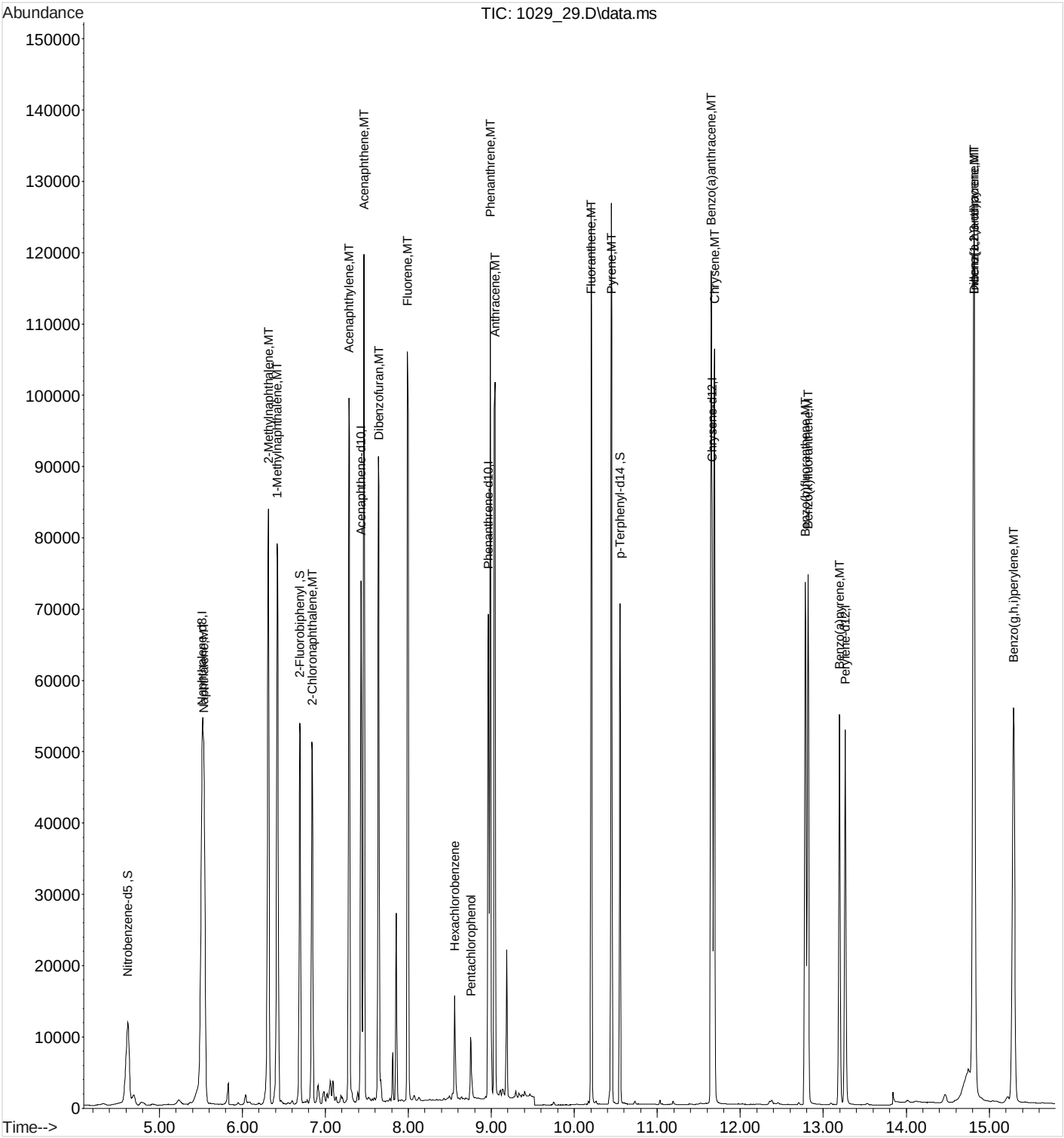
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Naphthalene-d8	5.515	136	70415	40.0000000	ppb	0.00
6) Acenaphthene-d10	7.433	164	38636	40.0000000	ppb	0.00
13) Phenanthrene-d10	8.967	188	62922	40.0000000	ppb	0.00
19) Chrysene-d12	11.662	240	55463	40.0000000	ppb	0.00
24) Perylene-d12	13.262	264	59891	40.0000000	ppb	-0.02
System Monitoring Compounds						
2) Nitrobenzene-d5	4.620	82	23022	1.9468722	ppb	0.00
Spiked Amount 2.000	Range 45 - 170		Recovery = 97.34%			
7) 2-Fluorobiphenyl	6.692	172	47032	1.7985780	ppb	0.00
Spiked Amount 2.000	Range 58 - 153		Recovery = 89.93%			
21) p-Terphenyl-d14	10.551	244	50787	1.9208743	ppb	-0.01
Spiked Amount 2.000	Range 53 - 156		Recovery = 96.04%			
Target Compounds						Qvalue
3) Naphthalene	5.538	128	83916	2.2194294	ppb	100
4) 2-Methylnaphthalene	6.313	142	61488	2.5100168	ppb	100
5) 1-Methylnaphthalene	6.423	142	57707	2.5553758	ppb	97
8) 2-Chloronaphthalene	6.845	162	44904	1.9136526	ppb	94
9) Acenaphthylene	7.286	152	79595	2.1744766	ppb	99
10) Acenaphthene	7.467	153	48108	2.0837309	ppb	99
11) Dibenzofuran	7.644	168	66216	2.1379528	ppb	94
12) Fluorene	7.990	166	57429	2.2185592	ppb	97
14) Hexachlorobenzene	8.559	284	1042	0.1390689	ppb #	1
15) Pentachlorophenol	8.756	266	4061	1.2349153	ppb	98
16) Phenanthrene	8.988	178	79520	2.2165858	ppb	100
17) Anthracene	9.044	178	80404	2.3486407	ppb	99
18) Fluoranthene	10.204	202	81946	2.3557129	ppb	100
20) Pyrene	10.447	202	83451	2.4864812	ppb	100
22) Benzo(a)anthracene	11.648	228	72811	2.2572385	ppb	99
23) Chrysene	11.689	228	67237	2.1467134	ppb	100
25) Benzo(b)fluoranthene	12.784	252	72269	2.1064350	ppb	98
26) Benzo(k)fluoranthene	12.816	252	69466	2.0041077	ppb	99
27) Benzo(a)pyrene	13.198	252	62251	2.0910753	ppb	98
28) Indeno(1,2,3-cd)pyrene	14.814	276	85981	2.1270342	ppb	99
29) Dibenz(a,h)anthracene	14.814	278	74025	2.1700725	ppb	96
30) Benzo(g,h,i)perylene	15.291	276	73741	2.1118241	ppb	98

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\102914\
Data File : 1029 29.D
Acq On : 29 Oct 2014 10:21 pm
Operator : 282
Sample : MS 1x WG750797 L729800-01 100-5
Misc : water 14J13916/14I03861
ALS Vial : 95 Sample Multiplier: 0.05
InstName : BNAMS13

Quant Time: Oct 30 09:52:42 2014
Quant Method : C:\msdchem\1\METHODS\SS13J24N.M
Quant Title : 8270 BNA
QLast Update : Fri Oct 24 12:08:30 2014
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\102914\
Data File : 1029 30.D
Acq On : 29 Oct 2014 10:42 pm
Operator : 282
Sample : MSD 1x WG750797 L729800-01 100-5
Misc : water 14J13916/14I03861
ALS Vial : 96 Sample Multiplier: 0.05
InstName : BNAMS13

Quant Time: Oct 30 09:53:12 2014
Quant Method : C:\msdchem\1\METHODS\SS13J24N.M
Quant Title : 8270 BNA
QLast Update : Fri Oct 24 12:08:30 2014
Response via : Initial Calibration

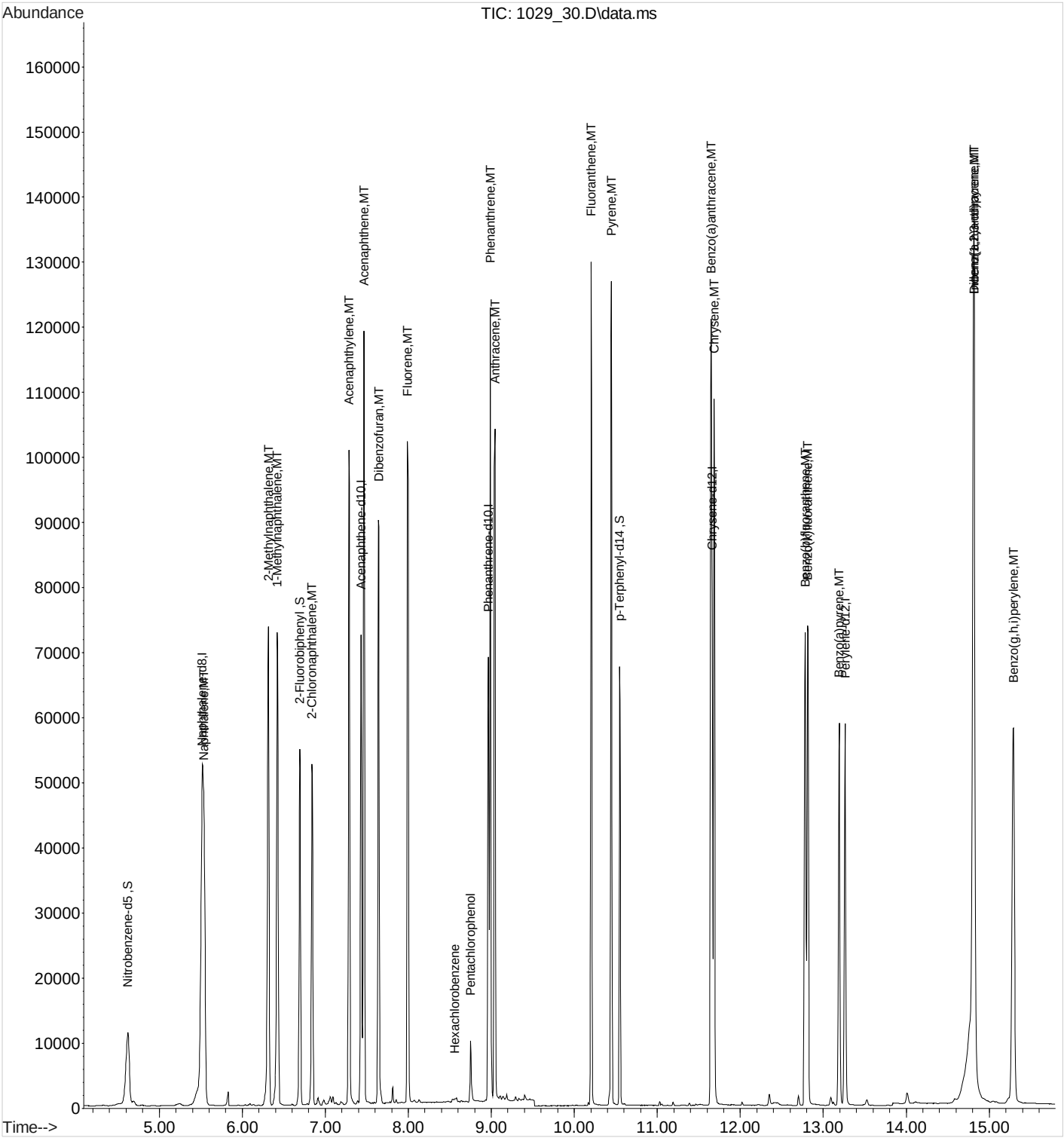
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Naphthalene-d8	5.515	136	70470	40.0000000	ppb	0.00
6) Acenaphthene-d10	7.433	164	38718	40.0000000	ppb	0.00
13) Phenanthrene-d10	8.967	188	62999	40.0000000	ppb	0.00
19) Chrysene-d12	11.662	240	58872	40.0000000	ppb	0.00
24) Perylene-d12	13.262	264	64922	40.0000000	ppb	-0.02
System Monitoring Compounds						
2) Nitrobenzene-d5	4.620	82	22696	1.9178058	ppb	0.00
Spiked Amount 2.000	Range 45 - 170		Recovery = 95.89%			
7) 2-Fluorobiphenyl	6.692	172	47805	1.8242670	ppb	0.00
Spiked Amount 2.000	Range 58 - 153		Recovery = 91.21%			
21) p-Terphenyl-d14	10.547	244	51223	1.8251811	ppb	-0.01
Spiked Amount 2.000	Range 53 - 156		Recovery = 91.26%			
Target Compounds						Qvalue
3) Naphthalene	5.538	128	79796	2.1088155	ppb	100
4) 2-Methylnaphthalene	6.313	142	55305	2.2558570	ppb	99
5) 1-Methylnaphthalene	6.422	142	52337	2.3157731	ppb	99
8) 2-Chloronaphthalene	6.841	162	45916	1.9526363	ppb	99
9) Acenaphthylene	7.286	152	80049	2.1822480	ppb	99
10) Acenaphthene	7.467	153	48641	2.1023551	ppb	99
11) Dibenzofuran	7.644	168	66980	2.1580403	ppb	96
12) Fluorene	7.990	166	57538	2.2180625	ppb	97
14) Hexachlorobenzene	8.559	284	29	0.0038657	ppb #	1
15) Pentachlorophenol	8.749	266	4018	1.2203460	ppb	95
16) Phenanthrene	8.988	178	80094	2.2298570	ppb	100
17) Anthracene	9.044	178	80806	2.3574983	ppb	100
18) Fluoranthene	10.204	202	84114	2.4150812	ppb	99
20) Pyrene	10.446	202	85657	2.4044241	ppb	99
22) Benzo(a)anthracene	11.648	228	74386	2.1725322	ppb	97
23) Chrysene	11.684	228	68407	2.0575995	ppb	96
25) Benzo(b)fluoranthene	12.783	252	78578	2.1128403	ppb	100
26) Benzo(k)fluoranthene	12.810	252	67662	1.8007909	ppb	95
27) Benzo(a)pyrene	13.192	252	64950	2.0126681	ppb	98
28) Indeno(1,2,3-cd)pyrene	14.814	276	87821	2.0041953	ppb	96
29) Dibenz(a,h)anthracene	14.814	278	75421	2.0396600	ppb	93
30) Benzo(g,h,i)perylene	15.291	276	76756	2.0278262	ppb	95

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\102914\
Data File : 1029 30.D
Acq On : 29 Oct 2014 10:42 pm
Operator : 282
Sample : MSD 1x WG750797 L729800-01 100-5
Misc : water 14J13916/14I03861
ALS Vial : 96 Sample Multiplier: 0.05
InstName : BNAMS13

Quant Time: Oct 30 09:53:12 2014
Quant Method : C:\msdchem\1\METHODS\SS13J24N.M
Quant Title : 8270 BNA
QLast Update : Fri Oct 24 12:08:30 2014
Response via : Initial Calibration



Calibration

Instrument: BNAMS13
Method: SS13J24N

Initial Calibration Run Log

File ID	Level ID	Date Analyzed
1024_04.D	1	10/24/2014 9:02:00 AM
1024_05.D	5	10/24/2014 9:24:00 AM
1024_06.D	10	10/24/2014 9:45:00 AM
1024_07.D	20	10/24/2014 10:07:00 AM
1024_03.D	40	10/24/2014 8:41:00 AM
1024_08.D	80	10/24/2014 10:28:00 AM
1024_09.D	200	10/24/2014 10:50:00 AM
1024_10.D	1000	10/24/2014 11:11:00 AM
1024_11.D	2000	10/24/2014 11:33:00 AM

Environmental Science Corporation
12065 Lebanon Rd., Mt. Juliet, TN 37122

Injection Log

Instrument ID : BNAMS13
Computer Name : SVCOMPAK
Released By : Fallon Labeots
Date Released : 10/24/2014 12:13:00 PM
Run ID : 102414
Signature : _____

#	File ID	Sample ID	Method	WG	Product	Matrix	Account #	State	Dil.	Mult.	Injected	Misc.
1	1024_01	INSTBLK	SS13J23N						1	1	10/24/14 0758	"instrument blank"
2	1024_02	TUNE SVMS 2000 PPB 14J03433								1	10/24/14 0819	
3	1024_03	MSTD SIMLVI 40 PPB 14J10795	SS13J24N						1	1	10/24/14 0841	"sim calibration"
4	1024_04	STD SIMLVI 1 PPB 14J10795	SS13J24N						1	1	10/24/14 0902	"sim calibration"
5	1024_05	STD SIMLVI 5 PPB 14J10795	SS13J24N						1	1	10/24/14 0924	"sim calibration"
6	1024_06	STD SIMLVI 10 PPB 14J10795	SS13J24N						1	1	10/24/14 0945	"sim calibration"
7	1024_07	STD SIMLVI 20 PPB 14J10795	SS13J24N						1	1	10/24/14 1007	"sim calibration"
8	1024_08	STD SIMLVI 80 PPB 14J10795	SS13J24N						1	1	10/24/14 1028	"sim calibration"
9	1024_09	STD SIMLVI 200 PPB 14J10795	SS13J24N						1	1	10/24/14 1050	"sim calibration"
10	1024_10	STD SIMLVI 1000 PPB 14J10795	SS13J24N						1	1	10/24/14 1111	"sim calibration"
11	1024_11	STD SIMLVI 2000 PPB 14J10795	SS13J24N						1	1	10/24/14 1133	"sim calibration"
12	1024_12	SSCV SIMLVI 40 PPB 14J10801	SS13J24N						1	1	10/24/14 1154	"sim secondary source"

Mint Miner 2.6.4 Directory Scan: z:\102414

24 Oct 2014 16:42

Level	Status	Code	Operator	Instrument	Sample ID
Scan File Path: z:\102414\1024_01.D					
Original Path: C:\msdchem\1\DATA\102414\1024_01.D\data.ms					
28	Scanned	D(18), DI(3), DK(3), DC(3), DS(1)	282	BNAMS13	INSTBLK (instrument blank)
Scan File Path: z:\102414\1024_02.D					
Original Path: 1024_02.D					
8	Scanned	MZ(3), TA(1)	282	BNAMS13	TUNE SVMS 2000 PPB 14J03433 (DFTPP TUN
Scan File Path: z:\102414\1024_03.D					
Original Path: C:\msdchem\1\DATA\102414\1024_03.D\data.ms					
0	Scanned		282	BNAMS13	MSTD SIMLVI 40 PPB 14J10795 (sim calibratio
Scan File Path: z:\102414\1024_04.D					
Original Path: C:\msdchem\1\DATA\102414\1024_04.D\data.ms					
4	Scanned	MS(1), M(1)	282	BNAMS13	STD SIMLVI 1 PPB 14J10795 (sim calibration)
Scan File Path: z:\102414\1024_05.D					
Original Path: C:\msdchem\1\DATA\102414\1024_05.D\data.ms					
4	Scanned	MS(1), M(1)	282	BNAMS13	STD SIMLVI 5 PPB 14J10795 (sim calibration)
Scan File Path: z:\102414\1024_06.D					
Original Path: C:\msdchem\1\DATA\102414\1024_06.D\data.ms					
0	Scanned		282	BNAMS13	STD SIMLVI 10 PPB 14J10795 (sim calibration)
Scan File Path: z:\102414\1024_07.D					
Original Path: C:\msdchem\1\DATA\102414\1024_07.D\data.ms					
0	Scanned		282	BNAMS13	STD SIMLVI 20 PPB 14J10795 (sim calibration)
Scan File Path: z:\102414\1024_08.D					
Original Path: C:\msdchem\1\DATA\102414\1024_08.D\data.ms					
0	Scanned		282	BNAMS13	STD SIMLVI 80 PPB 14J10795 (sim calibration)
Scan File Path: z:\102414\1024_09.D					
Original Path: C:\msdchem\1\DATA\102414\1024_09.D\data.ms					
0	Scanned		282	BNAMS13	STD SIMLVI 200 PPB 14J10795 (sim calibratior
Scan File Path: z:\102414\1024_10.D					
Original Path: C:\msdchem\1\DATA\102414\1024_10.D\data.ms					
9	Scanned	MR(1), MS(1), M(1)	282	BNAMS13	STD SIMLVI 1000 PPB 14J10795 (sim calibratic
Scan File Path: z:\102414\1024_11.D					
Original Path: C:\msdchem\1\DATA\102414\1024_11.D\data.ms					
9	Scanned	MR(1), MS(1), M(1)	282	BNAMS13	STD SIMLVI 2000 PPB 14J10795 (sim calibratic

Level	Status	Code	Operator	Instrument	Sample ID
Scan File Path: z:\102414\1024_12.D					
Original Path: C:\msdchem\1\DATA\102414\1024_12.D\data.ms					
0	Scanned		282	BNAMS13	SSCV SIMLVI 40 PPB 14J10801 (sim secondary

D	=	Deletion of any analyte	DC	=	Deletion of a CCC
DI	=	Deletion of an internal standard	DK	=	Deletion of a spike compound
DS	=	Deletion of a surrogate	M	=	Manual integration (non-specific)
MR	=	Manual integration with before/after ratio <10%	MS	=	Manual integration of a surrogate
MZ	=	Manual integrated but indicator missing from either the quant report or audit file	TA	=	Tune spectrum obtained by spectral averaging

ScanSummary.rpt

Total Files Scanned	12	Beginning Analyzed Date	10/24/2014 7:58:00AM
Methods	0	Ending Analyzed Date	10/24/2014 11:54:00AM
Samples	11	Analyzed Range	3 hours, 56 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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\102414\
Data File : 1024 02.D
Acq On : 24 Oct 2014 8:19 am
Operator : 282
Sample : TUNE SVMS 2000 PPB 14J03433
Misc : DFTPP TUNE
ALS Vial : 2 Sample Multiplier: 1
InstName : BNAMS13

Quant Time: Oct 24 10:28:18 2014
Quant Method : C:\msdchem\1\METHODS\TUNE525.M
Quant Title :
QLast Update : Mon Jun 03 22:15:37 2013
Response via : Initial Calibration

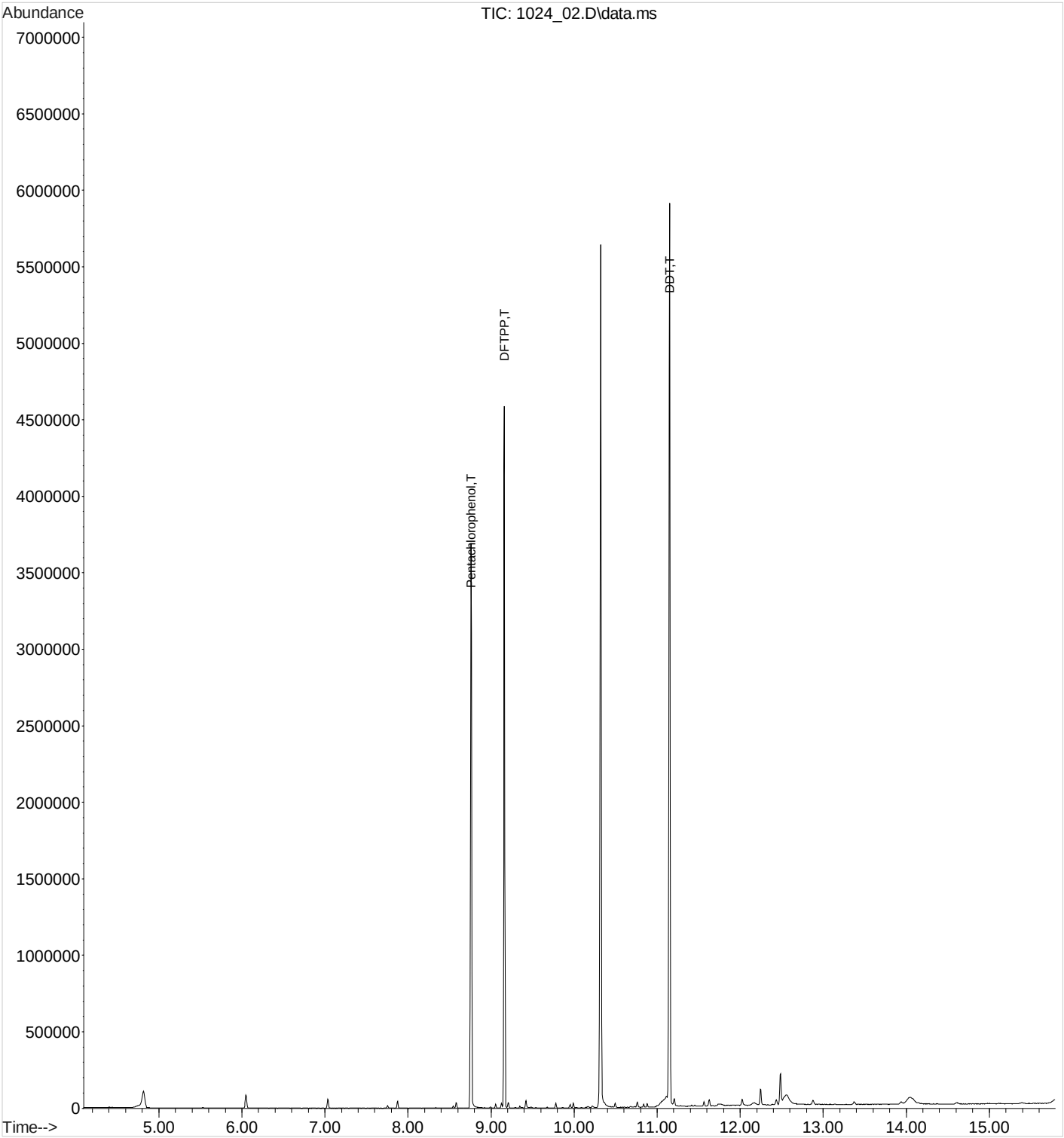
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Target Compounds						Qvalue
1) Pentachlorophenol	8.761	264	2064306	0.6740317	ppm	100
2) DFTPP	9.162	198	4063148	0.2414925	ppm	100
3) Benzidine	0.000		0	N.D.		
4) DDT	11.154	TIC	39815748	3.0505089	ppm	100
5) DDT	11.155	235	3281552	No Calib		

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\102414\
Data File : 1024 02.D
Acq On : 24 Oct 2014 8:19 am
Operator : 282
Sample : TUNE SVMS 2000 PPB 14J03433
Misc : DFTPP TUNE
ALS Vial : 2 Sample Multiplier: 1
InstName : BNAMS13

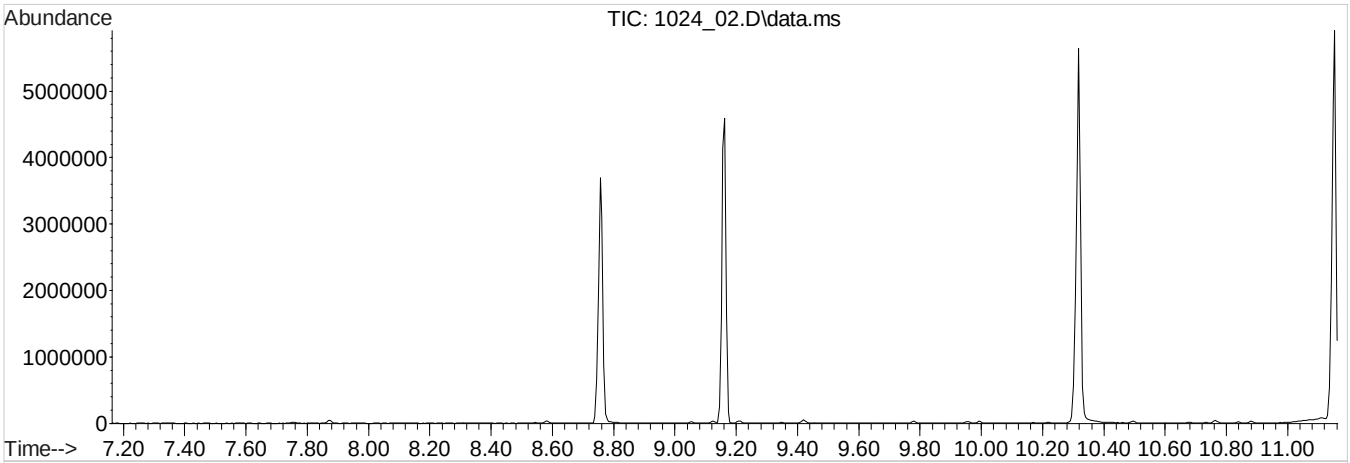
Quant Time: Oct 24 10:28:18 2014
Quant Method : C:\msdchem\1\METHODS\TUNE525.M
Quant Title :
QLast Update : Mon Jun 03 22:15:37 2013
Response via : Initial Calibration

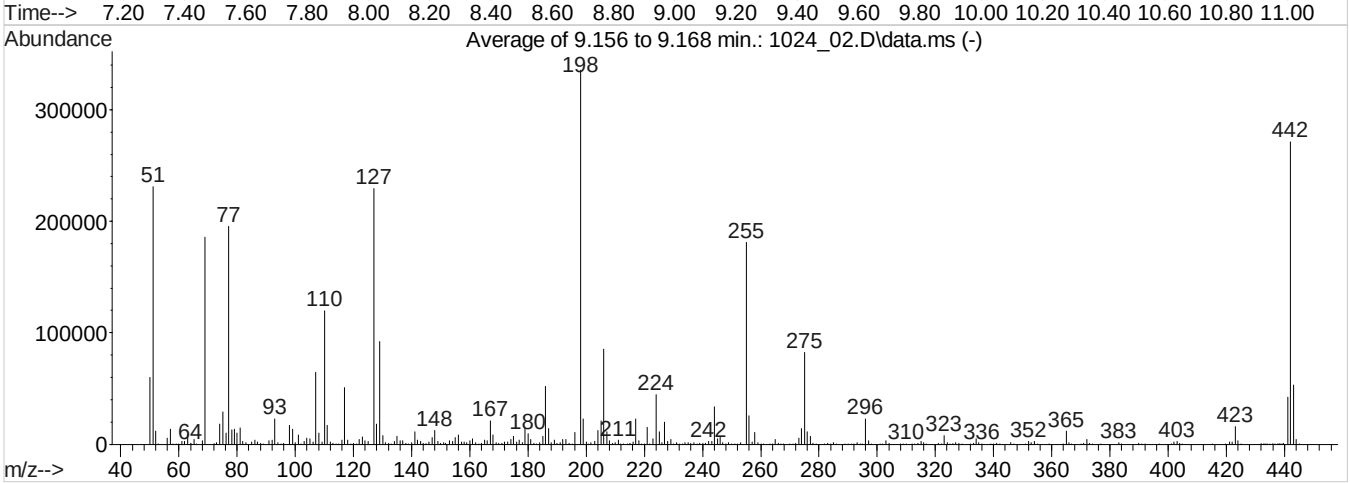


Data Path : C:\msdchem\1\DATA\102414\
Data File : 1024 02.D
Acq On : 24 Oct 2014 8:19 am
Operator : 282
Sample : TUNE SVMS 2000 PPB 14J03433
Misc : DFTPP TUNE
ALS Vial : 2 Sample Multiplier: 1

Integration File: events.e

Method : C:\msdchem\1\METHODS\TUNE525.M
Title :
Last Update : Mon Jun 03 22:15:37 2013





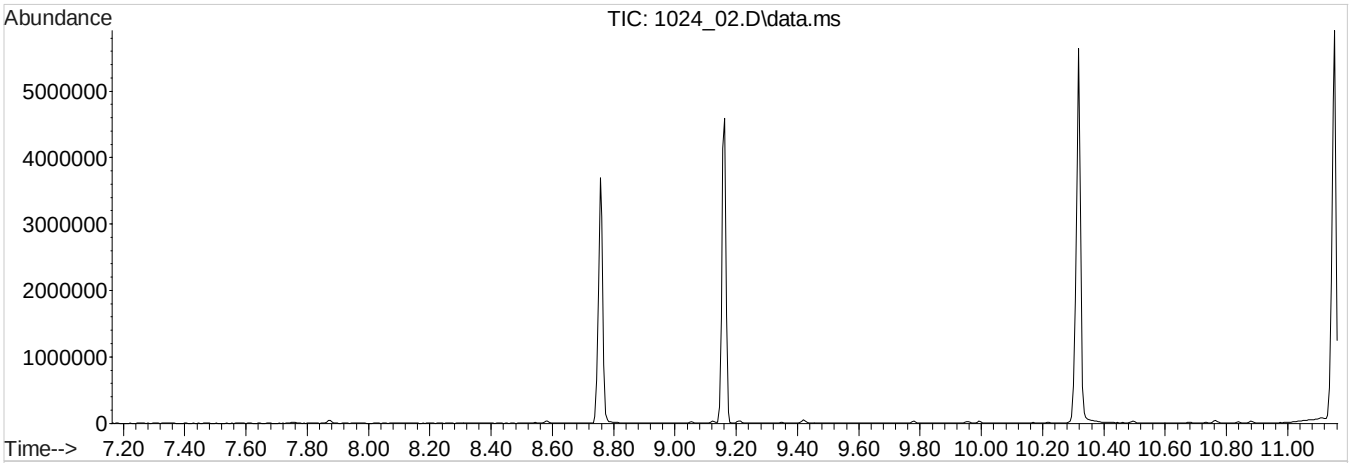
Spectrum Information: Average of 9.156 to 9.168 min.

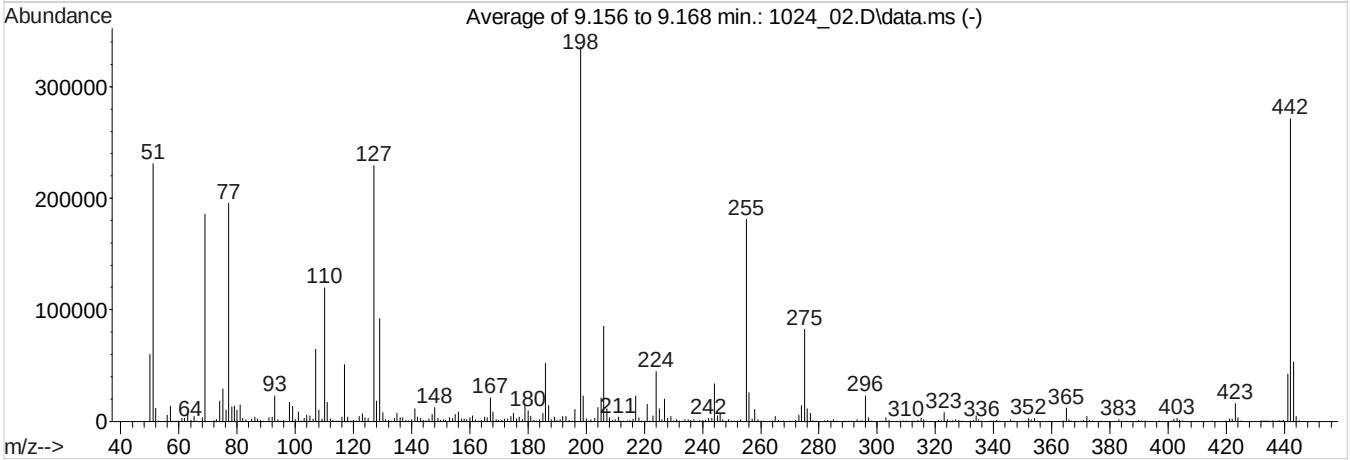
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	10	80	68.8	230859	PASS
68	69	0.00	2	1.6	2976	PASS
70	69	0.00	2	0.0	0	PASS
127	198	10	80	68.3	229245	PASS
197	198	0.00	2	0.0	0	PASS
198	198	50	100	100.0	335680	PASS
199	198	5	9	6.8	22734	PASS
275	198	10	60	24.6	82616	PASS
365	198	1	100	3.5	11622	PASS
441	443	0.01	100	79.4	42131	PASS
442	198	50	100	80.8	271147	PASS
443	442	15	24	19.6	53061	PASS

Data Path : C:\msdchem\1\DATA\102414\
Data File : 1024 02.D
Acq On : 24 Oct 2014 8:19 am
Operator : 282
Sample : TUNE SVMS 2000 PPB 14J03433
Misc : DFTPP TUNE
ALS Vial : 2 Sample Multiplier: 1

Integration File: events.e

Method : C:\msdchem\1\METHODS\TUNE525.M
Title :
Last Update : Mon Jun 03 22:15:37 2013





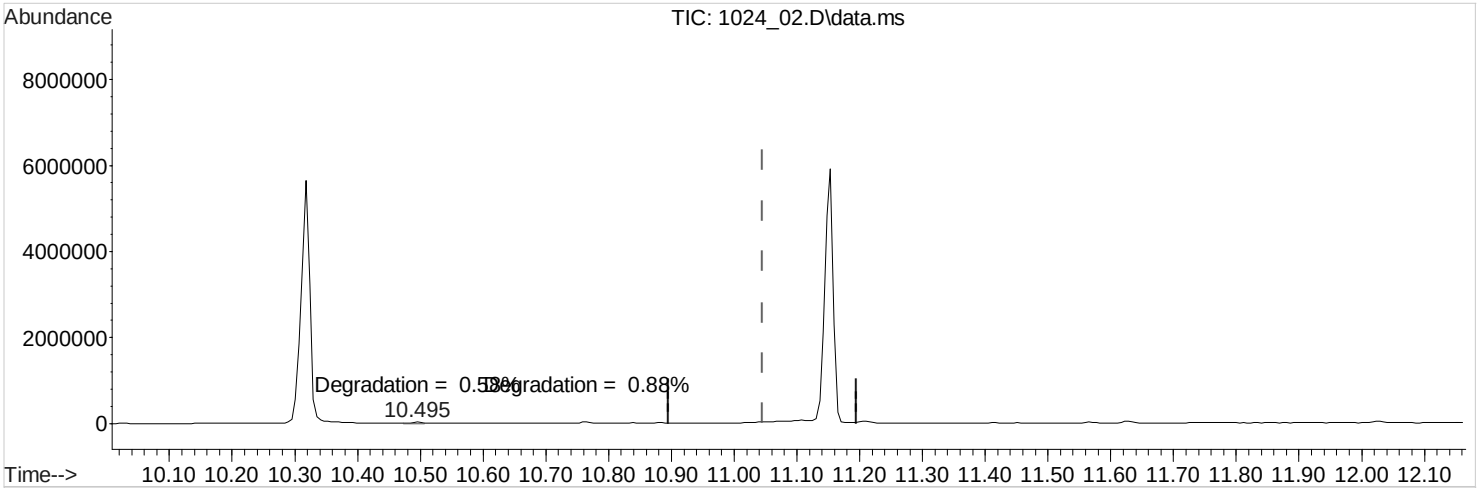
Spectrum Information: Average of 9.156 to 9.168 min.

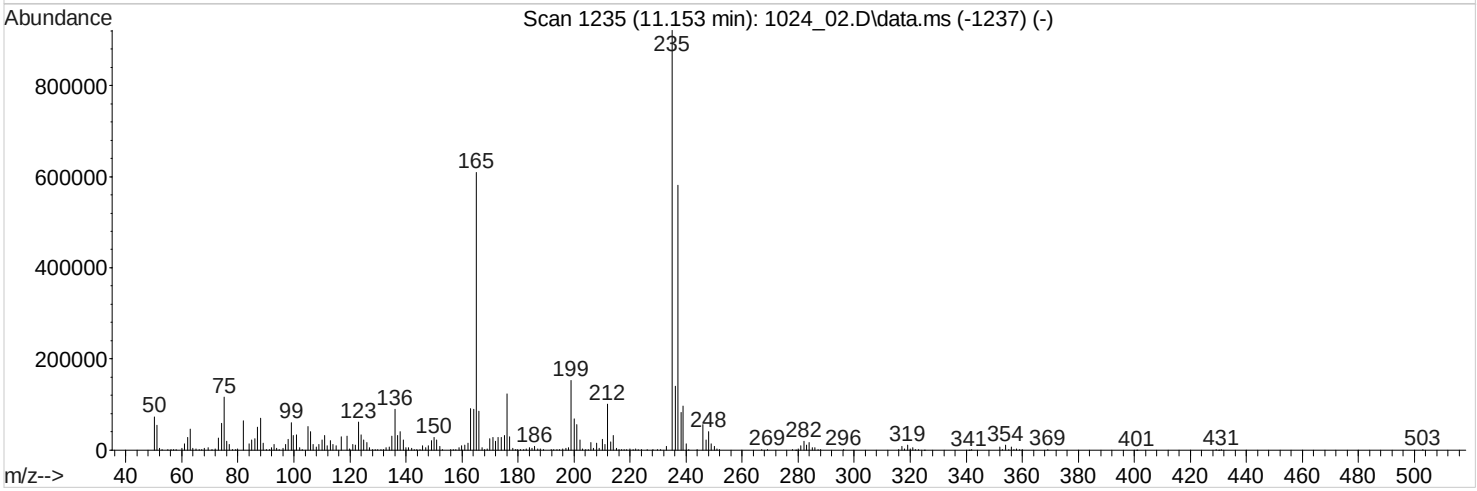
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	10	80	68.8	230859	PASS
68	69	0.00	2	1.6	2976	PASS
70	69	0.00	2	0.0	0	PASS
127	198	10	80	68.3	229245	PASS
197	198	0.00	2	0.0	0	PASS
198	198	50	100	100.0	335680	PASS
199	198	5	9	6.8	22734	PASS
275	198	10	60	24.6	82616	PASS
365	198	1	100	3.5	11622	PASS
441	443	0.01	100	79.4	42131	PASS
442	198	50	100	80.8	271147	PASS
443	442	15	24	19.6	53061	PASS

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\DATA\102414\
Data File : 1024 02.D
Acq On    : 24 Oct 2014   8:19 am
Operator  : 282
Sample    : TUNE SVMS 2000 PPB 14J03433
Misc      : DFTPP TUNE
ALS Vial  : 2   Sample Multiplier: 1
InstName  : BNAMS13

Quant Time: Oct 24 10:28:18 2014
Quant Method : C:\msdchem\1\METHODS\TUNE525.M
Quant Title  :
QLast Update : Mon Jun 03 22:15:37 2013
Response via : Initial Calibration
```





TIC: 1024_02.D\data.ms

(4) DDT (T)

11.154min (+0.109) 3.0505089 ppm

Qvalue = 100

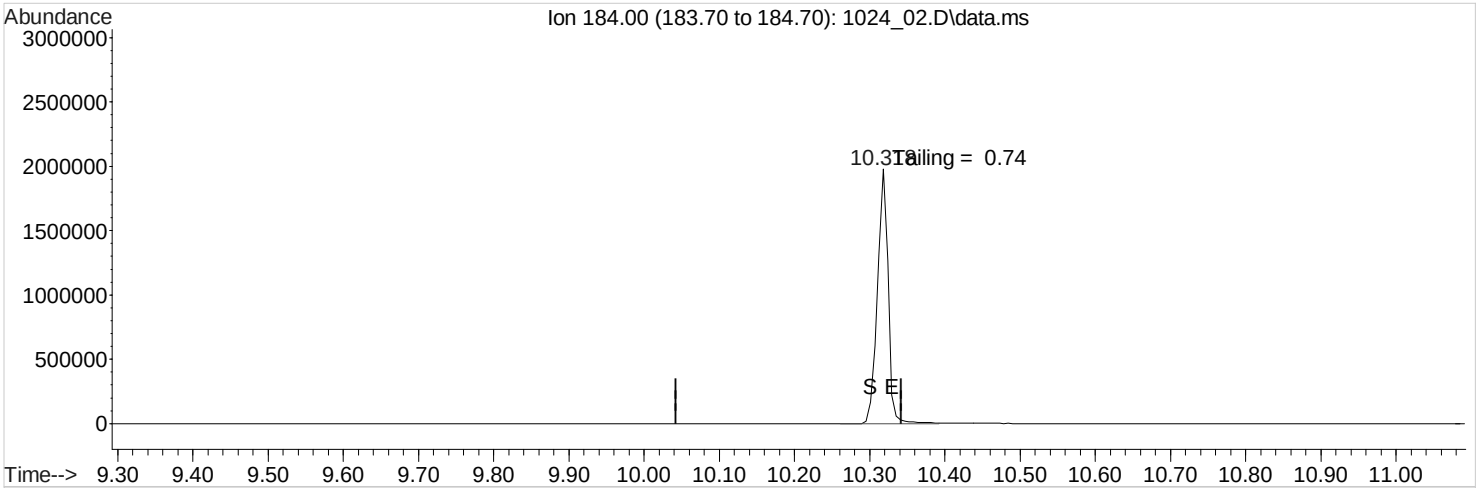
response 39815748

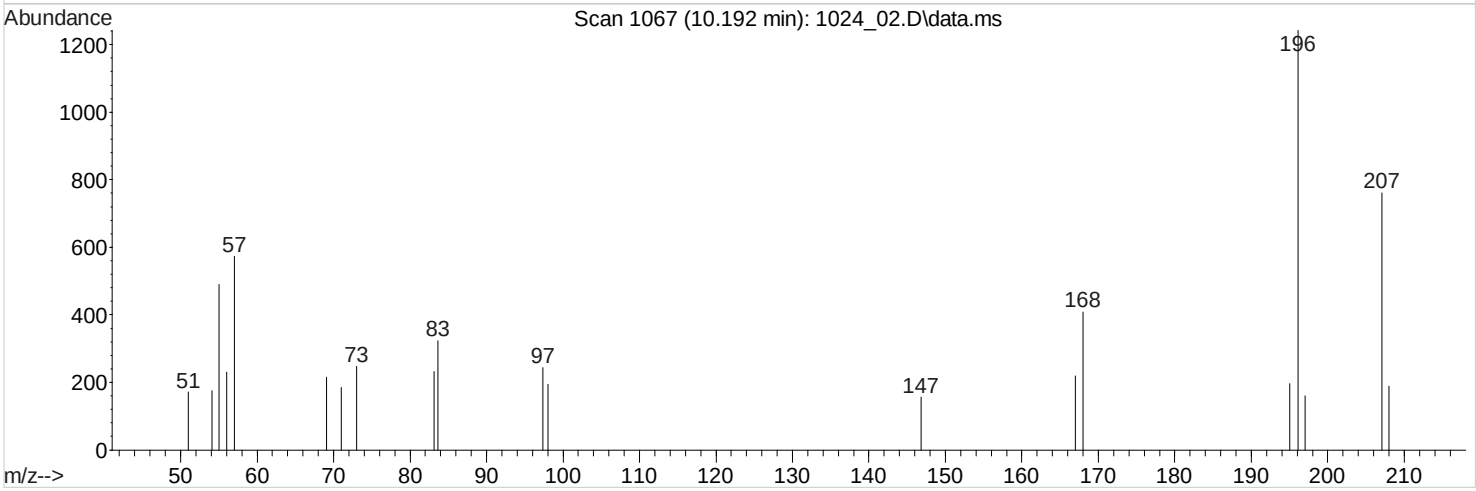
Signal	Exp%	Act%
TIC	100	100
0.00	6.20	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\DATA\102414\
Data File : 1024 02.D
Acq On    : 24 Oct 2014   8:19 am
Operator  : 282
Sample    : TUNE SVMS 2000 PPB 14J03433
Misc      : DFTPP TUNE
ALS Vial  : 2   Sample Multiplier: 1
InstName  : BNAMS13

Quant Time: Oct 24 10:28:18 2014
Quant Method : C:\msdchem\1\METHODS\TUNE525.M
Quant Title  :
QLast Update : Mon Jun 03 22:15:37 2013
Response via : Initial Calibration
```





TIC: 1024_02.D\data.ms

(3) Benzidine (T)

10.192min (-10.192) 0.0000000 ppm

Qvalue = 0

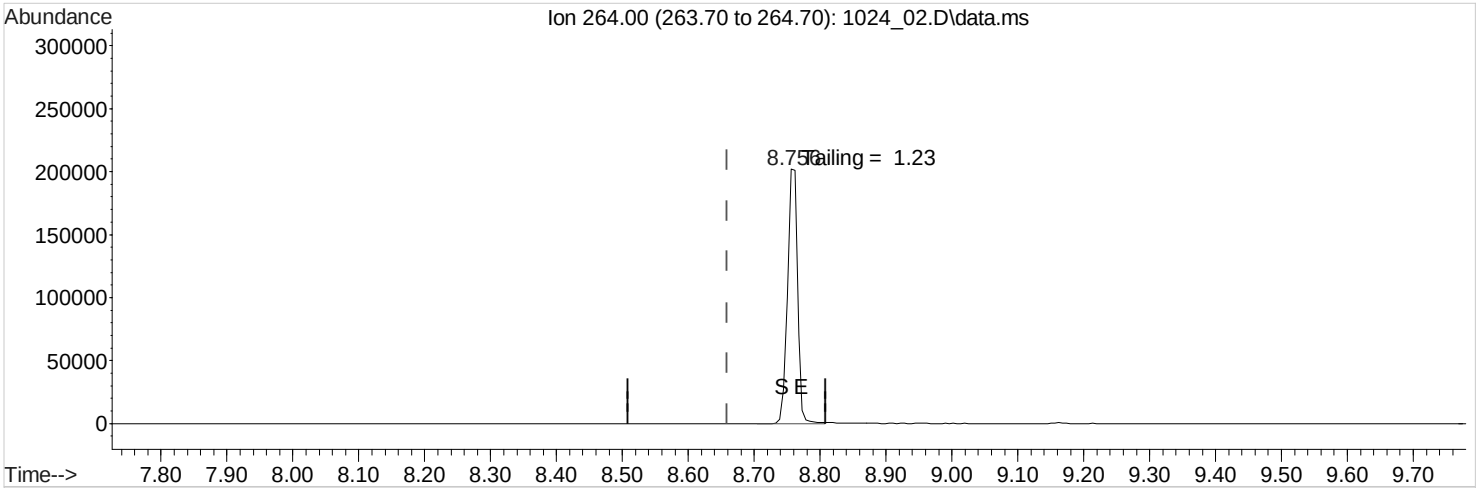
response 0

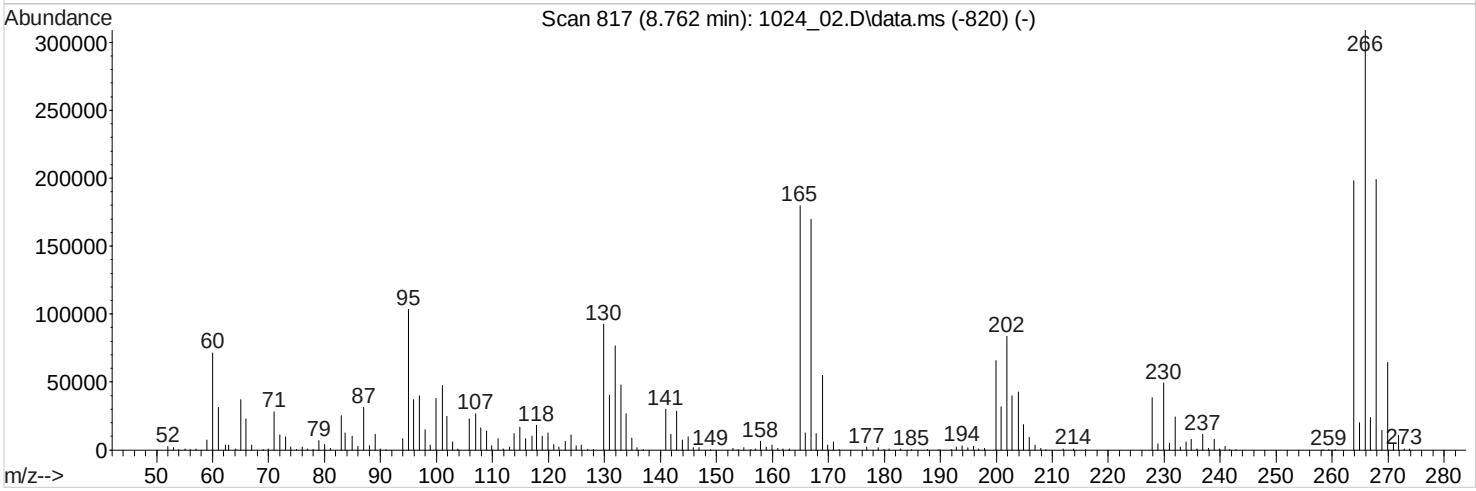
Ion	Exp%	Act%
184.00	100	0.00
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\DATA\102414\
Data File : 1024 02.D
Acq On    : 24 Oct 2014   8:19 am
Operator  : 282
Sample    : TUNE SVMS 2000 PPB 14J03433
Misc      : DFTPP TUNE
ALS Vial  : 2   Sample Multiplier: 1
InstName  : BNAMS13

Quant Time: Oct 24 10:28:18 2014
Quant Method : C:\msdchem\1\METHODS\TUNE525.M
Quant Title  :
QLast Update : Mon Jun 03 22:15:37 2013
Response via : Initial Calibration
```





TIC: 1024_02.D\data.ms

(1) Pentachlorophenol (T)

8.761min (+0.102) 0.6740317 ppm

Qvalue = 100

response 2064306

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

Environmental Science Corporation
12065 Lebanon Rd., Mt. Juliet, TN 37122

INITIAL CALIBRATION SUMMARY

Instrument ID	: BNAMS13	Review Method	: LVI PAH	Released By	: Fallon Labeots
Method	: SS13J24N	Review Protocol	: SW846	Released On	: 10/24/2014 12:13:01 PM

INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- SS13J24N -- ICal Updated Time: Fri Oct 24 12:08:30 2014

Parameter	1	5	10	20	40	80	200	1000	2000	AvgRF	%RSD	COD	Cur	RF
Naphthalene-d8														
Nitrobenzene-d5	0.322	0.355	0.333	0.347	0.339	0.328	0.353	0.328	0.318	0.335869	3.97	0.04	1	
Naphthalene		1.209	1.156	1.173	1.109	1.055	1.089	0.926	0.874	1.073911	11.05	0.11	1	0.7
2-Methylnaphthalene	0.74	0.738	0.726	0.751	0.721	0.689	0.716	0.607	0.575	0.695791	9	0.09	1	0.4
1-Methylnaphthalene	0.694	0.691	0.677	0.7	0.666	0.632	0.649	0.546	0.518	0.641414	10.31	0.103	1	
Acenaphthene-d10														
2-Fluorobiphenyl	1.462	1.465	1.43	1.479	1.411	1.344	1.391	1.145	1.056	1.353636	11.15	0.112	1	
2-Chloronaphthalene	1.297	1.311	1.282	1.319	1.267	1.199	1.244	1.04	0.972	1.214674	10.28	0.103	1	0.8
Acenaphthylene	1.948	1.948	1.918	2.005	1.965	1.912	2.041	1.728	1.589	1.894824	7.61	0.076	1	0.9
Acenaphthene	1.304	1.289	1.261	1.298	1.242	1.182	1.228	1.016	0.936	1.195125	11.01	0.11	1	0.9
Dibenzofuran	1.733	1.735	1.729	1.771	1.677	1.592	1.634	1.337	1.221	1.603255	12.11	0.121	1	0.8
Fluorene	1.4	1.401	1.388	1.44	1.39	1.331	1.409	1.199	1.101	1.339979	8.51	0.085	1	0.9
Phenanthrene-d10														
Hexachlorobenzene	0.272	0.26	0.25	0.259	0.246	0.233	0.242	0.199	0.183	0.238158	12.33	0.123	1	
Pentachlorophenol	0.13	0.088	0.086	0.094	0.1	0.097	0.115	0.115	0.115	0.104526	14.25	0.143	1	
Phenanthrene	1.266	1.235	1.212	1.252	1.193	1.142	1.181	0.944	0.837	1.1403	13.05	0.131	1	0.7
Anthracene	1.108	1.12	1.119	1.189	1.158	1.135	1.182	0.943	0.839	1.088149	10.85	0.108	1	0.7
Fluoranthene	1.172	1.162	1.147	1.207	1.166	1.128	1.181	0.948	0.84	1.105689	11.3	0.113	1	0.6
Chrysene-d12														
Pyrene	1.331	1.296	1.266	1.305	1.248	1.176	1.177	0.884		1.210244	11.87	0.119	1	0.5
p-Terphenyl-d14	1.026	1.026	1.003	1.037	0.985	0.928	0.926	0.697		0.953411	11.77	0.118	1	
Benzo(a)anthracene	1.326	1.221	1.177	1.229	1.19	1.132	1.163	0.867		1.163178	11.43	0.114	1	0.8
Chrysene	1.228	1.231	1.214	1.243	1.164	1.098	1.085	0.773		1.129434	13.85	0.138	1	0.7
Perylene-d12														

PDF Generated On: 10/24/2014 - By: Fallon Labeots

Environmental Science Corporation
12065 Lebanon Rd., Mt. Juliet, TN 37122

INITIAL CALIBRATION SUMMARY

Instrument ID	:	BNAMS13	Review Method	:	LVI PAH	Released By	:	Fallon Labeots
Method	:	SS13J24N	Review Protocol	:	SW846	Released On	:	10/24/2014 12:13:01 PM

INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- SS13J24N -- ICal Updated Time: Fri Oct 24 12:08:30 2014

Parameter	1	5	10	20	40	80	200	1000	2000	AvgRF	%RSD	COD	Cur	RF
Benzo(b)fluoranthene	1.207	1.256	1.172	1.236	1.231	1.142	1.181	0.741		1.145704	14.66	0.147	1	0.7
Benzo(k)fluoranthene	1.169	1.137	1.208	1.243	1.137	1.134	1.074			1.157496	4.76	0.048	1	0.7
Benzo(a)pyrene	0.971	0.976	0.977	1.039	1.017	0.979	1			0.994134	2.57	0.026	1	0.7
Indeno(1,2,3-cd)pyrene	1.303	1.319	1.338	1.419	1.381	1.334	1.355			1.349884	2.93	0.029	1	0.5
Dibenz(a,h)anthracene	1.096	1.12	1.121	1.197	1.165	1.129	1.146			1.139128	2.93	0.029	1	0.4
Benzo(g,h,i)perylene	1.159	1.164	1.159	1.223	1.177	1.135	1.145			1.166057	2.45	0.025	1	0.5

PDF Generated On: 10/24/2014 -- By: Fallon Labeots

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\102414\
Data File : 1024 01.D
Acq On : 24 Oct 2014 7:58 am
Operator : 282
Sample : INSTBLK
Misc : instrument blank
ALS Vial : 1 Sample Multiplier: 1
InstName : BNAMS13

Quant Time: Oct 24 08:23:25 2014
Quant Method : C:\msdchem\1\METHODS\SS13J23N.M
Quant Title : 8270 BNA
QLast Update : Thu Oct 23 17:03:32 2014
Response via : Initial Calibration

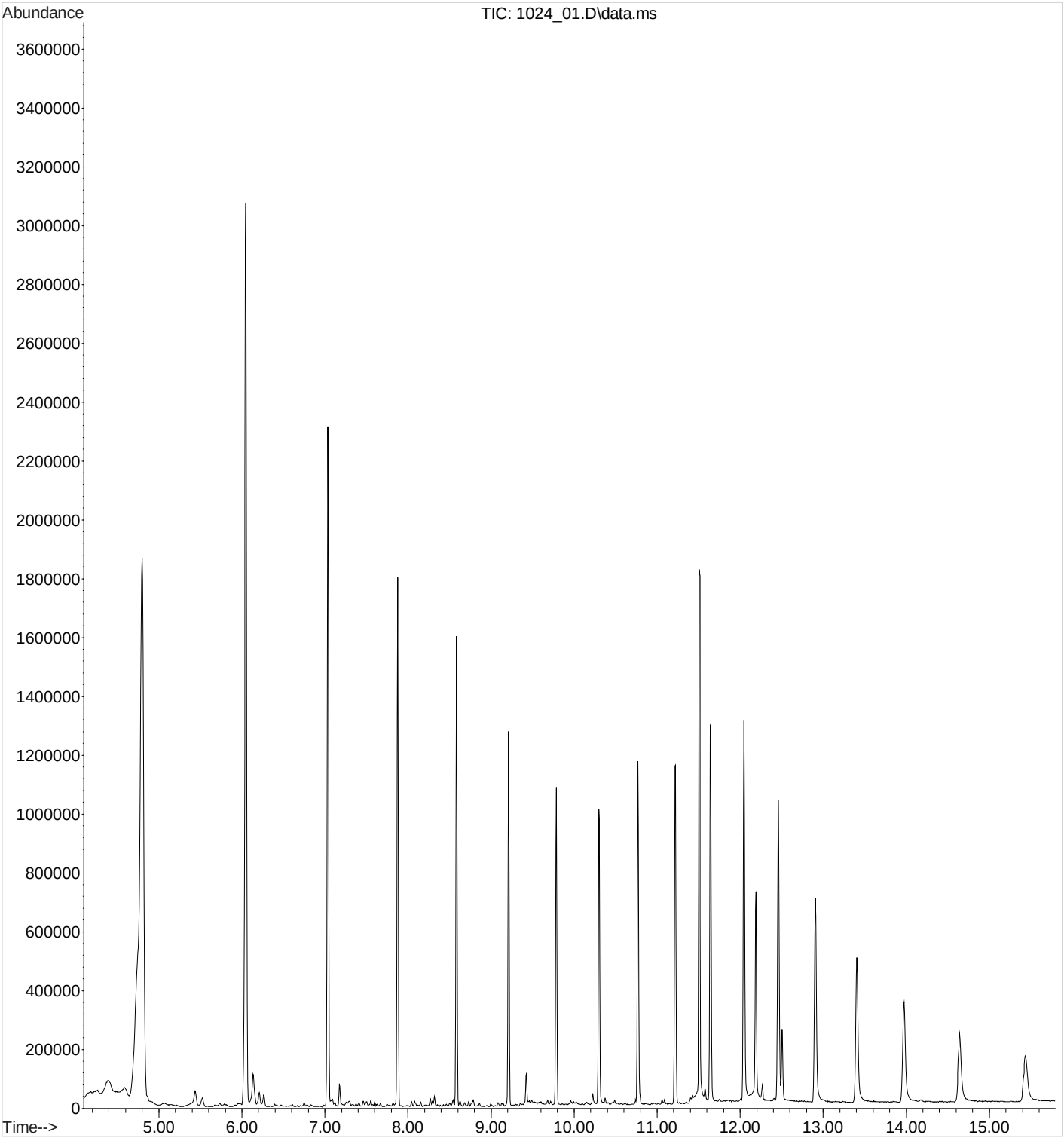
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) Naphthalene-d8	0.000	136	0	0.0000000 ppb	-5.52
6) Acenaphthene-d10	0.000	164	0m	40.0000000 ppb	-7.44
13) Phenanthrene-d10	0.000	188	0	0.0000000 ppb	-8.97
19) Chrysene-d12	0.000	240	0m	40.0000000 ppb	-11.68
24) Perylene-d12	0.000	264	0m	40.0000000 ppb	-13.28
System Monitoring Compounds					
2) Nitrobenzene-d5	0.000	82	0d	0.0000000 ppb	
Spiked Amount 2.000	Range 45 - 170		Recovery	= 0.00%#	
7) 2-Fluorobiphenyl	0.000	172	0	0.0000000 ppb	
Spiked Amount 2.000	Range 58 - 153		Recovery	= 0.00%#	
21) p-Terphenyl-d14	0.000	244	0	0.0000000 ppb	
Spiked Amount 2.000	Range 53 - 156		Recovery	= 0.00%#	
Target Compounds					Qvalue
3) Naphthalene	0.000		0	N.D. d	
4) 2-Methylnaphthalene	0.000		0	N.D. d	
5) 1-Methylnaphthalene	0.000		0	N.D. d	
8) 2-Chloronaphthalene	0.000		0	N.D.	
9) Acenaphthylene	0.000		0	N.D. d	
10) Acenaphthene	0.000		0	N.D. d	
11) Dibenzofuran	0.000		0	N.D. d	
12) Fluorene	0.000		0	N.D. d	
14) Hexachlorobenzene	0.000		0	N.D. d	
15) Pentachlorophenol	0.000		0	N.D. d	
16) Phenanthrene	0.000		0	N.D. d	
17) Anthracene	0.000		0	N.D. d	
18) Fluoranthene	0.000		0	N.D. d	
20) Pyrene	0.000		0	N.D. d	
22) Benzo(a)anthracene	0.000		0	N.D.	
23) Chrysene	0.000		0	N.D.	
25) Benzo(b)fluoranthene	0.000		0	N.D. d	
26) Benzo(k)fluoranthene	0.000		0	N.D.	
27) Benzo(a)pyrene	0.000		0	N.D.	
28) Indeno(1,2,3-cd)pyrene	0.000		0	N.D.	
29) Dibenz(a,h)anthracene	0.000		0	N.D.	
30) Benzo(g,h,i)perylene	0.000		0	N.D.	

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\102414\
Data File : 1024 01.D
Acq On : 24 Oct 2014 7:58 am
Operator : 282
Sample : INSTBLK
Misc : instrument blank
ALS Vial : 1 Sample Multiplier: 1
InstName : BNAMS13

Quant Time: Oct 24 08:23:25 2014
Quant Method : C:\msdchem\1\METHODS\SS13J23N.M
Quant Title : 8270 BNA
QLast Update : Thu Oct 23 17:03:32 2014
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\102414\
Data File : 1024 01.D
Acq On : 24 Oct 2014 7:58 am
Operator : 282
Sample : INSTBLK
Misc : instrument blank
ALS Vial : 1 Sample Multiplier: 1
InstName : BNAMS13

Quant Time: Oct 24 08:23:25 2014
Quant Method : C:\msdchem\1\METHODS\SS13J23N.M
Quant Title : 8270 BNA
QLast Update : Thu Oct 23 17:03:32 2014
Response via : Initial Calibration

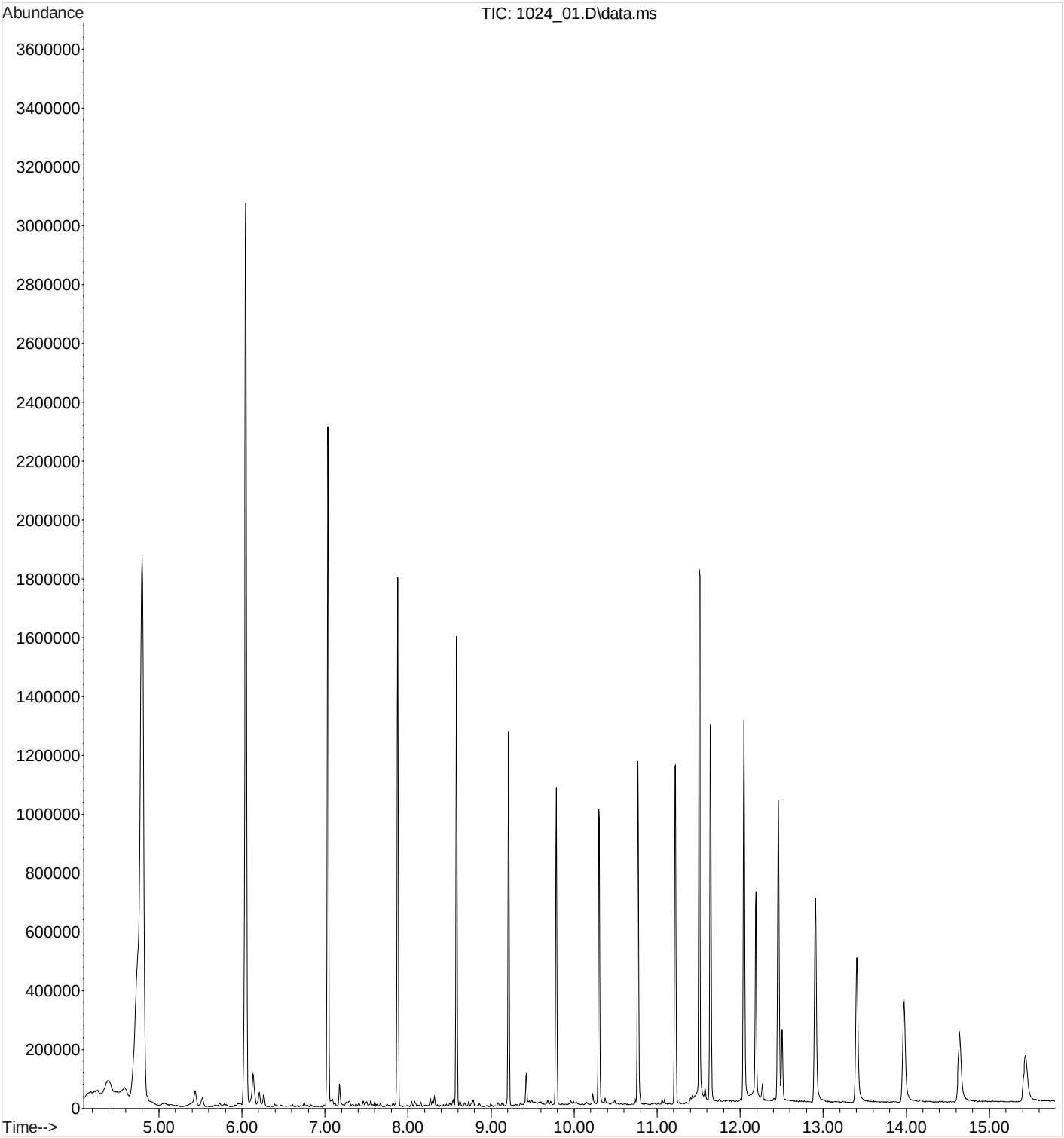
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) Naphthalene-d8	0.000	136	0	0.0000000 ppb	-5.52
6) Acenaphthene-d10	0.000	164	0m	40.0000000 ppb	-7.44
13) Phenanthrene-d10	0.000	188	0	0.0000000 ppb	-8.97
19) Chrysene-d12	0.000	240	0m	40.0000000 ppb	-11.68
24) Perylene-d12	0.000	264	0m	40.0000000 ppb	-13.28
System Monitoring Compounds					
2) Nitrobenzene-d5	0.000	82	0d	0.0000000 ppb	
Spiked Amount 2.000	Range 45 - 170		Recovery	= 0.00%#	
7) 2-Fluorobiphenyl	0.000	172	0	0.0000000 ppb	
Spiked Amount 2.000	Range 58 - 153		Recovery	= 0.00%#	
21) p-Terphenyl-d14	0.000	244	0	0.0000000 ppb	
Spiked Amount 2.000	Range 53 - 156		Recovery	= 0.00%#	
Target Compounds					Qvalue
3) Naphthalene	0.000		0	N.D. d	
4) 2-Methylnaphthalene	0.000		0	N.D. d	
5) 1-Methylnaphthalene	0.000		0	N.D. d	
8) 2-Chloronaphthalene	0.000		0	N.D.	
9) Acenaphthylene	0.000		0	N.D. d	
10) Acenaphthene	0.000		0	N.D. d	
11) Dibenzofuran	0.000		0	N.D. d	
12) Fluorene	0.000		0	N.D. d	
14) Hexachlorobenzene	0.000		0	N.D. d	
15) Pentachlorophenol	0.000		0	N.D. d	
16) Phenanthrene	0.000		0	N.D. d	
17) Anthracene	0.000		0	N.D. d	
18) Fluoranthene	0.000		0	N.D. d	
20) Pyrene	0.000		0	N.D. d	
22) Benzo(a)anthracene	0.000		0	N.D.	
23) Chrysene	0.000		0	N.D.	
25) Benzo(b)fluoranthene	0.000		0	N.D. d	
26) Benzo(k)fluoranthene	0.000		0	N.D.	
27) Benzo(a)pyrene	0.000		0	N.D.	
28) Indeno(1,2,3-cd)pyrene	0.000		0	N.D.	
29) Dibenz(a,h)anthracene	0.000		0	N.D.	
30) Benzo(g,h,i)perylene	0.000		0	N.D.	

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\102414\
Data File : 1024 01.D
Acq On : 24 Oct 2014 7:58 am
Operator : 282
Sample : INSTBLK
Misc : instrument blank
ALS Vial : 1 Sample Multiplier: 1
InstName : BNAMS13

Quant Time: Oct 24 08:23:25 2014
Quant Method : C:\msdchem\1\METHODS\SS13J23N.M
Quant Title : 8270 BNA
QLast Update : Thu Oct 23 17:03:32 2014
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\102414\
Data File : 1024 12.D
Acq On : 24 Oct 2014 11:54 am
Operator : 282
Sample : SSCV SIMLVI 40 PPB 14J10801
Misc : sim secondary source
ALS Vial : 12 Sample Multiplier: 1
InstName : BNAMS13

Quant Time: Oct 24 12:10:38 2014
Quant Method : C:\msdchem\1\METHODS\SS13J24N.M
Quant Title : 8270 BNA
QLast Update : Fri Oct 24 12:08:30 2014
Response via : Initial Calibration

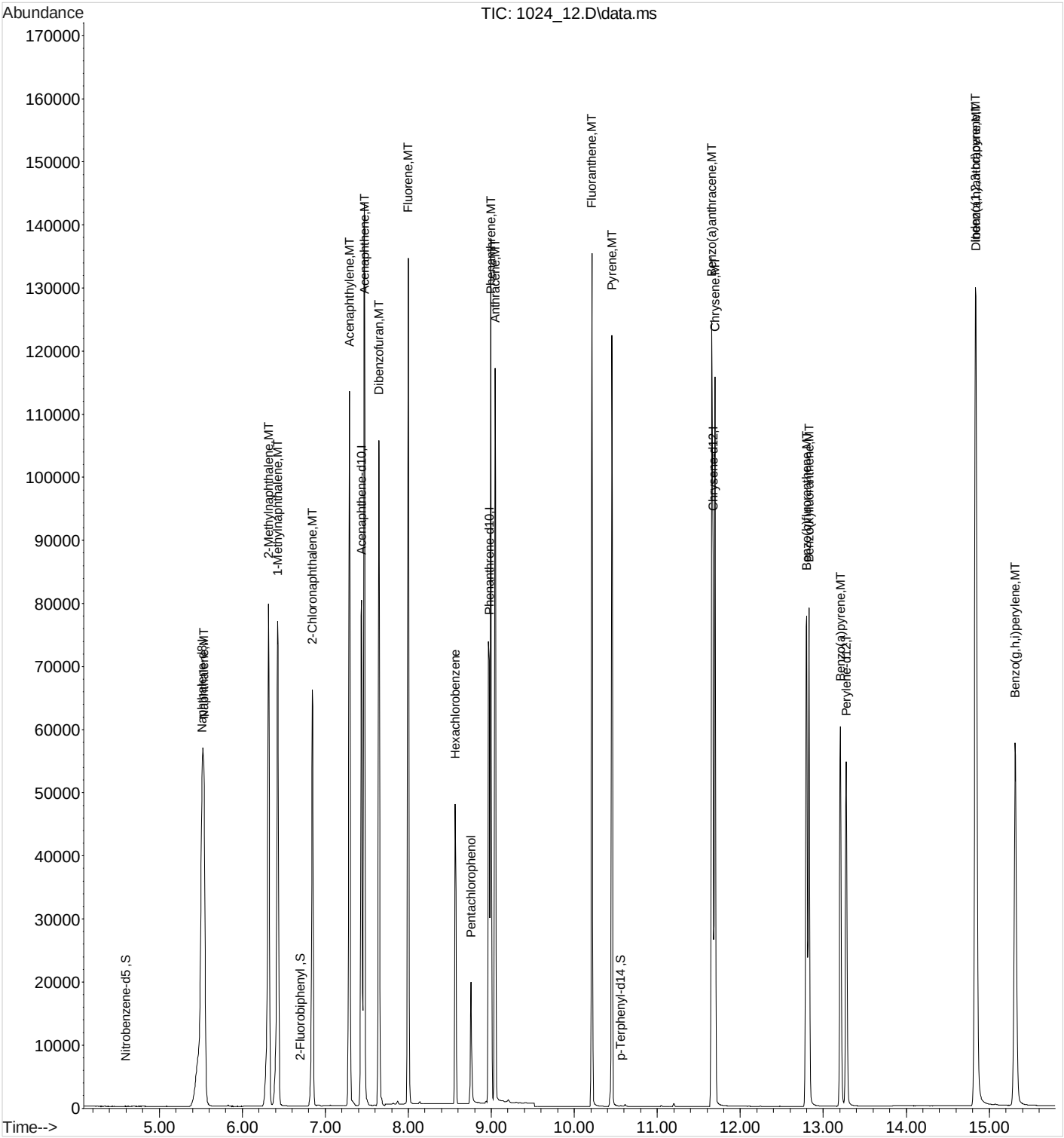
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) Naphthalene-d8	5.515	136	84473	40.0000000 ppb	0.00
6) Acenaphthene-d10	7.437	164	44968	40.0000000 ppb	0.00
13) Phenanthrene-d10	8.974	188	70094	40.0000000 ppb	0.00
19) Chrysene-d12	11.671	240	59705	40.0000000 ppb	0.00
24) Perylene-d12	13.278	264	59740	40.0000000 ppb	0.00
System Monitoring Compounds					
2) Nitrobenzene-d5	4.598	82	3	0.0042295 ppb	-0.01
Spiked Amount 2.000	Range 45 - 170		Recovery	= 0.21%#	
7) 2-Fluorobiphenyl	6.700	172	27	0.0177426 ppb	0.00
Spiked Amount 2.000	Range 58 - 153		Recovery	= 0.89%#	
21) p-Terphenyl-d14	10.558	244	74	0.0519997 ppb	0.00
Spiked Amount 2.000	Range 53 - 156		Recovery	= 2.60%#	
Target Compounds					Qvalue
3) Naphthalene	5.538	128	100818	44.4541071 ppb	100
4) 2-Methylnaphthalene	6.317	142	65444	44.5382719 ppb	99
5) 1-Methylnaphthalene	6.426	142	60457	44.6323885 ppb	98
8) 2-Chloronaphthalene	6.845	162	61105	44.7479756 ppb	99
9) Acenaphthylene	7.290	152	96971	45.5228467 ppb	100
10) Acenaphthene	7.471	153	60098	44.7304150 ppb	100
11) Dibenzofuran	7.648	168	81191	45.0465611 ppb	98
12) Fluorene	7.997	166	67393	44.7376473 ppb	99
14) Hexachlorobenzene	8.566	284	18739	44.9014406 ppb	99
15) Pentachlorophenol	8.756	266	8113	44.2932290 ppb	100
16) Phenanthrene	8.995	178	91472	45.7770723 ppb	100
17) Anthracene	9.044	178	88855	46.5985564 ppb	97
18) Fluoranthene	10.212	202	90452	46.6836105 ppb	99
20) Pyrene	10.454	202	82193	45.4999709 ppb	99
22) Benzo(a)anthracene	11.657	228	78594	45.2681233 ppb	98
23) Chrysene	11.694	228	75837	44.9851871 ppb	96
25) Benzo(b)fluoranthene	12.800	252	77722	45.4220077 ppb	99
26) Benzo(k)fluoranthene	12.826	252	78402	45.3526069 ppb	97
27) Benzo(a)pyrene	13.208	252	66864	45.0341565 ppb	98
28) Indeno(1,2,3-cd)pyrene	14.836	276	91069	45.1719564 ppb	98
29) Dibenz(a,h)anthracene	14.841	278	76295	44.8454356 ppb	96
30) Benzo(g,h,i)perylene	15.313	276	76906	44.1606319 ppb	98

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\102414\
Data File : 1024 12.D
Acq On : 24 Oct 2014 11:54 am
Operator : 282
Sample : SSCV SIMLVI 40 PPB 14J10801
Misc : sim secondary source
ALS Vial : 12 Sample Multiplier: 1
InstName : BNAMS13

Quant Time: Oct 24 12:10:38 2014
Quant Method : C:\msdchem\1\METHODS\SS13J24N.M
Quant Title : 8270 BNA
QLast Update : Fri Oct 24 12:08:30 2014
Response via : Initial Calibration



Quantitation Report (Qedit)

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Data Path : C:\msdchem\1\DATA\102414\
Data File : 1024 12.D
Acq On    : 24 Oct 2014  11:54 am
Operator  : 282
Sample    : SSCV SIMLVI 40 PPB 14J10801
Misc      : sim secondary source
ALS Vial  : 12   Sample Multiplier: 1
InstName  : BNAMS13

Quant Time: Oct 24 12:10:38 2014
Quant Method : C:\msdchem\1\METHODS\SS13J24N.M
Quant Title  : 8270 BNA
QLast Update : Fri Oct 24 12:08:30 2014
Response via : Initial Calibration
```
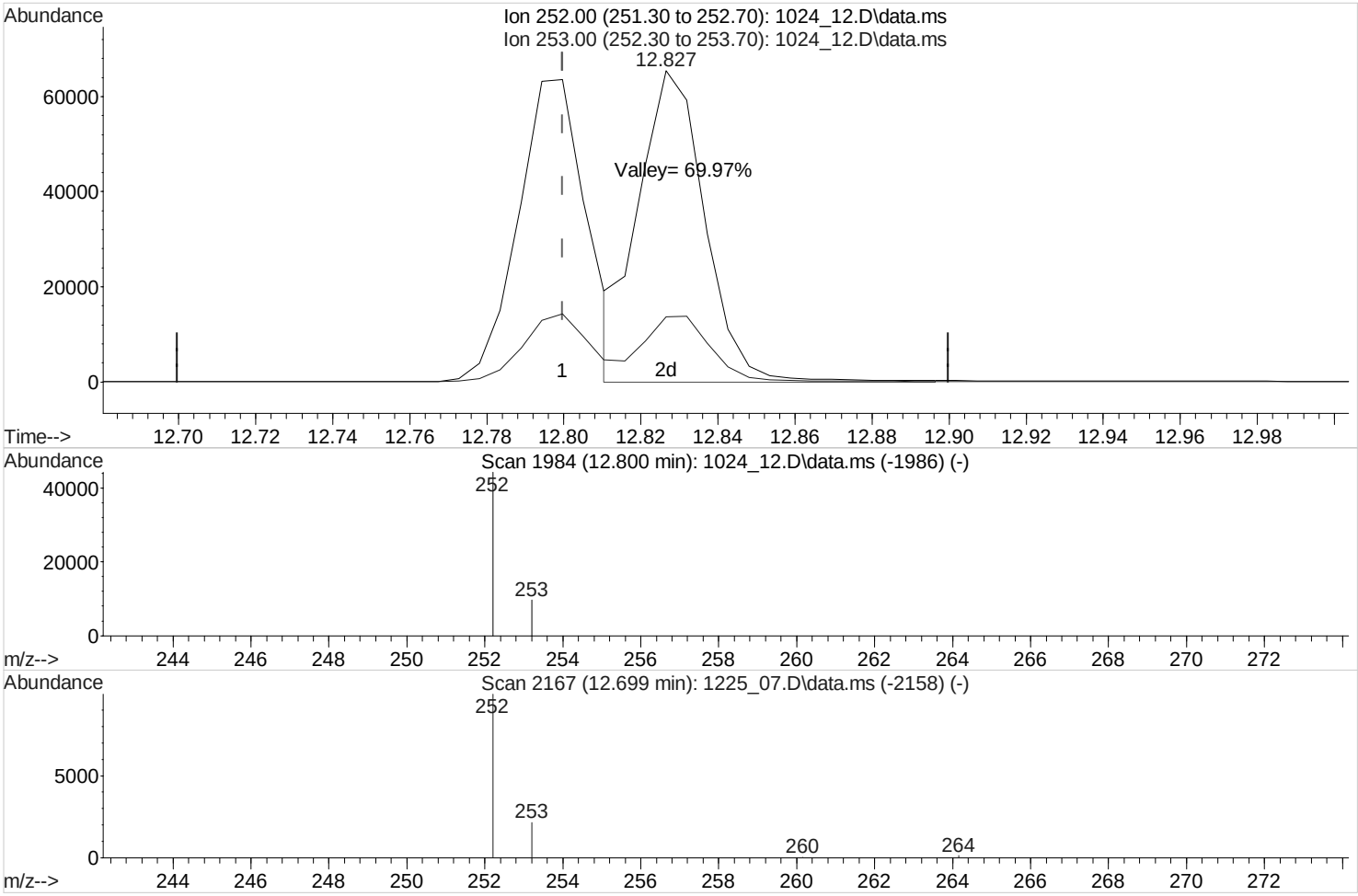



TIC: 1024_12.D\data.ms

(25) Benzo(b)fluoranthene (MT)

12.800min (-0.000) 45.4220077 ppb

Qvalue = 99

response 77722

Ion	Exp%	Act%
252.00	100	100
253.00	22.00	22.51
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\102414\
Data File : 1024 03.D
Acq On : 24 Oct 2014 8:41 am
Operator : 282
Sample : MSTD SIMLVI 40 PPB 14J10795
Misc : sim calibration
ALS Vial : 3 Sample Multiplier: 1
InstName : BNAMS13

Quant Time: Oct 24 10:30:21 2014
Quant Method : C:\msdchem\1\METHODS\SS13J24N.M
Quant Title : 8270 BNA
QLast Update : Fri Oct 24 10:30:15 2014
Response via : Initial Calibration

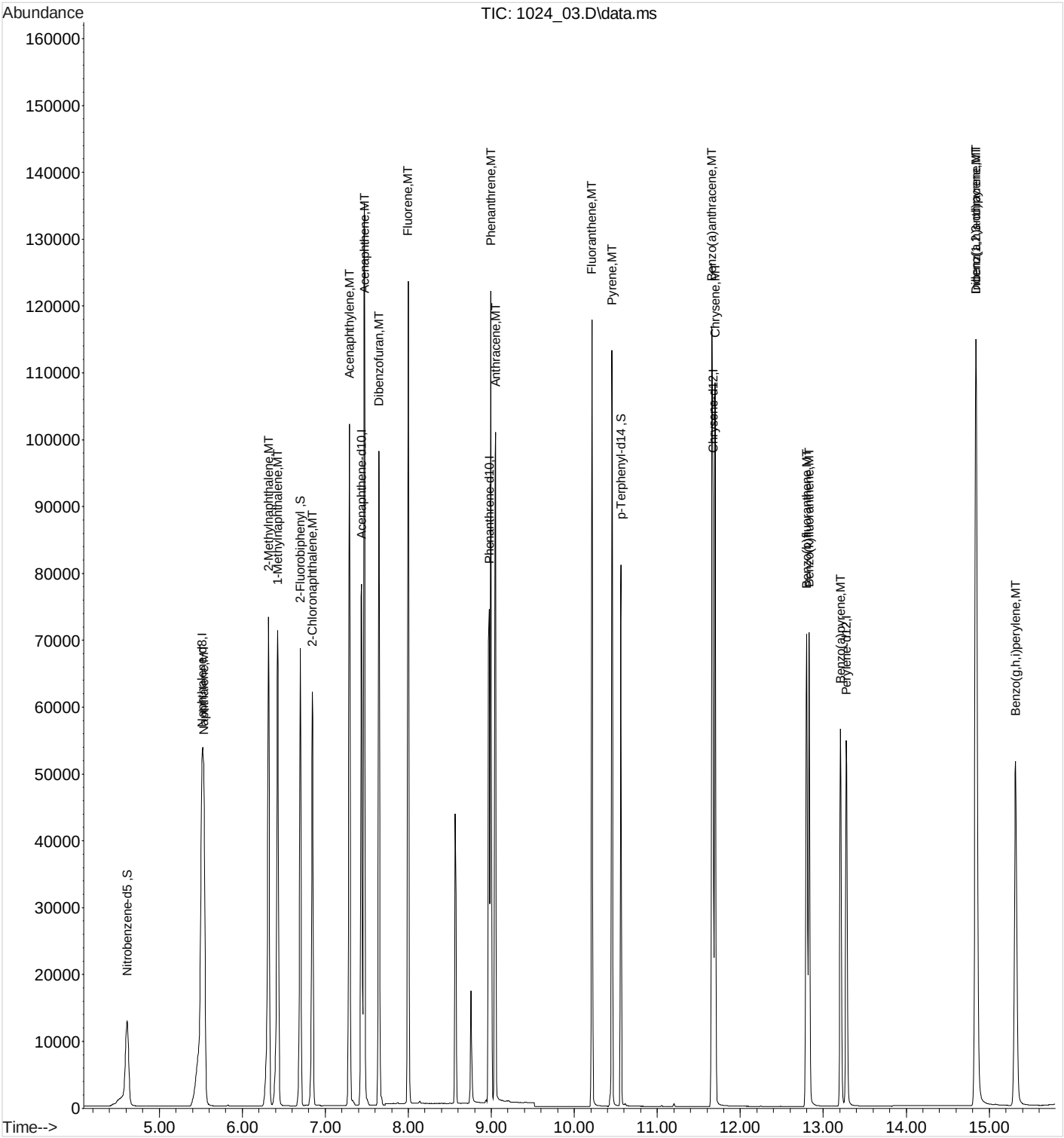
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) Naphthalene-d8	5.512	136	83955	40.0000000 ppb	0.00
6) Acenaphthene-d10	7.437	164	44606	40.0000000 ppb	0.00
13) Phenanthrene-d10	8.974	188	69963	40.0000000 ppb	0.00
19) Chrysene-d12	11.671	240	59591	40.0000000 ppb	0.00
24) Perylene-d12	13.278	264	59656	40.0000000 ppb	0.00
System Monitoring Compounds					
2) Nitrobenzene-d5	4.613	82	28455	40.0085760 ppb	0.00
Spiked Amount 2.000	Range 45 - 170		Recovery = 2000.43%#		
7) 2-Fluorobiphenyl	6.700	172	62944	39.9991033 ppb	0.00
Spiked Amount 2.000	Range 58 - 153		Recovery = 1999.96%#		
21) p-Terphenyl-d14	10.562	244	58691	40.0204565 ppb	0.00
Spiked Amount 2.000	Range 53 - 156		Recovery = 2001.02%#		
Target Compounds					Qvalue
3) Naphthalene	5.538	128	93079	40.0141647 ppb	100
4) 2-Methylnaphthalene	6.317	142	60510	40.0085760 ppb	100
5) 1-Methylnaphthalene	6.426	142	55944	40.0085760 ppb	100
8) 2-Chloronaphthalene	6.845	162	56502	40.0047675 ppb	100
9) Acenaphthylene	7.290	152	87665	39.9936287 ppb	100
10) Acenaphthene	7.471	153	55400	39.9991033 ppb	100
11) Dibenzofuran	7.648	168	74796	39.9991033 ppb	100
12) Fluorene	7.997	166	61990	39.9907168 ppb	100
14) Hexachlorobenzene	8.566	284	17213	No Calib	
15) Pentachlorophenol	8.756	266	6971	No Calib	
16) Phenanthrene	8.995	178	83443	40.0000000 ppb	100
17) Anthracene	9.051	178	81023	39.9605440 ppb	100
18) Fluoranthene	10.212	202	81549	39.9931341 ppb	100
20) Pyrene	10.454	202	74368	40.0118365 ppb	100
22) Benzo(a)anthracene	11.657	228	70916	40.0000000 ppb	100
23) Chrysene	11.698	228	69346	40.0000000 ppb	100
25) Benzo(b)fluoranthene	12.800	252	73448	40.0000000 ppb	100
26) Benzo(k)fluoranthene	12.832	252	67826	40.0000000 ppb	100
27) Benzo(a)pyrene	13.208	252	60656	40.0000000 ppb	100
28) Indeno(1,2,3-cd)pyrene	14.841	276	82402	40.0000000 ppb	100
29) Dibenz(a,h)anthracene	14.841	278	69486	40.0000000 ppb	100
30) Benzo(g,h,i)perylene	15.318	276	70244	40.0000000 ppb	100

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

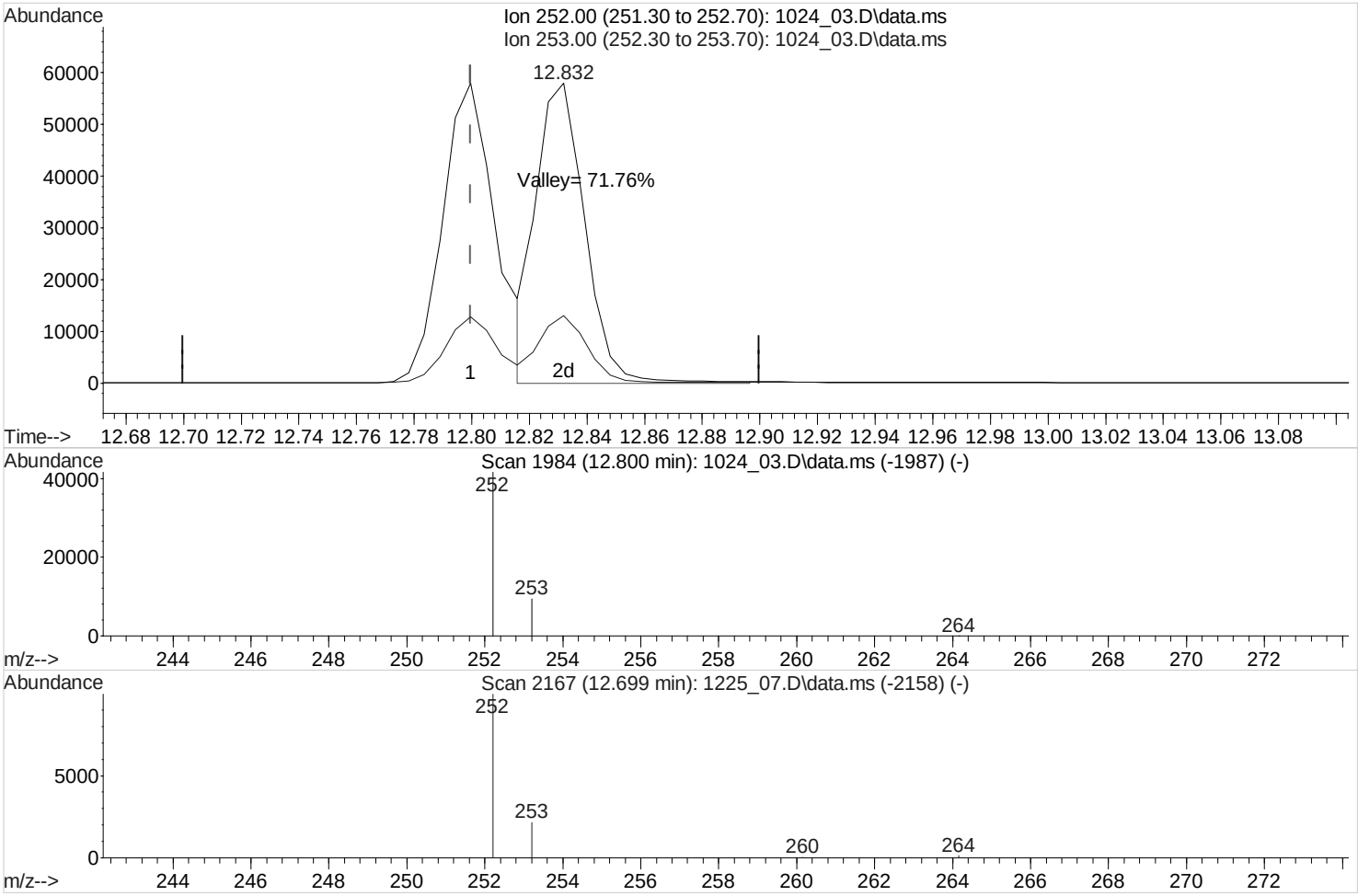
Data Path : C:\msdchem\1\DATA\102414\
Data File : 1024 03.D
Acq On : 24 Oct 2014 8:41 am
Operator : 282
Sample : MSTD SIMLVI 40 PPB 14J10795
Misc : sim calibration
ALS Vial : 3 Sample Multiplier: 1
InstName : BNAMS13

Quant Time: Oct 24 10:30:21 2014
Quant Method : C:\msdchem\1\METHODS\SS13J24N.M
Quant Title : 8270 BNA
QLast Update : Fri Oct 24 10:30:15 2014
Response via : Initial Calibration



Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\DATA\102414\
Data File : 1024 03.D
Acq On    : 24 Oct 2014   8:41 am
Operator  : 282
Sample    : MSTD SIMLVI 40 PPB 14J10795
Misc      : sim calibration
ALS Vial  : 3   Sample Multiplier: 1
InstName  : BNAMS13

Quant Time: Oct 24 10:30:21 2014
Quant Method : C:\msdchem\1\METHODS\SS13J24N.M
Quant Title  : 8270 BNA
QLast Update : Fri Oct 24 10:30:15 2014
Response via : Initial Calibration
```



TIC: 1024_03.D\data.ms

(25) Benzo(b)fluoranthene (MT)

12.800min (0.000) 40.0000000 ppb

Qvalue = 100

response 73448

Ion	Exp%	Act%
252.00	100	100
253.00	22.00	21.99
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\102414\
Data File : 1024 04.D
Acq On : 24 Oct 2014 9:02 am
Operator : 282
Sample : STD SIMLVI 1 PPB 14J10795
Misc : sim calibration
ALS Vial : 4 Sample Multiplier: 1
InstName : BNAMS13

Quant Time: Oct 24 10:31:20 2014
Quant Method : C:\msdchem\1\METHODS\SS13J24N.M
Quant Title : 8270 BNA
QLast Update : Fri Oct 24 10:31:00 2014
Response via : Initial Calibration

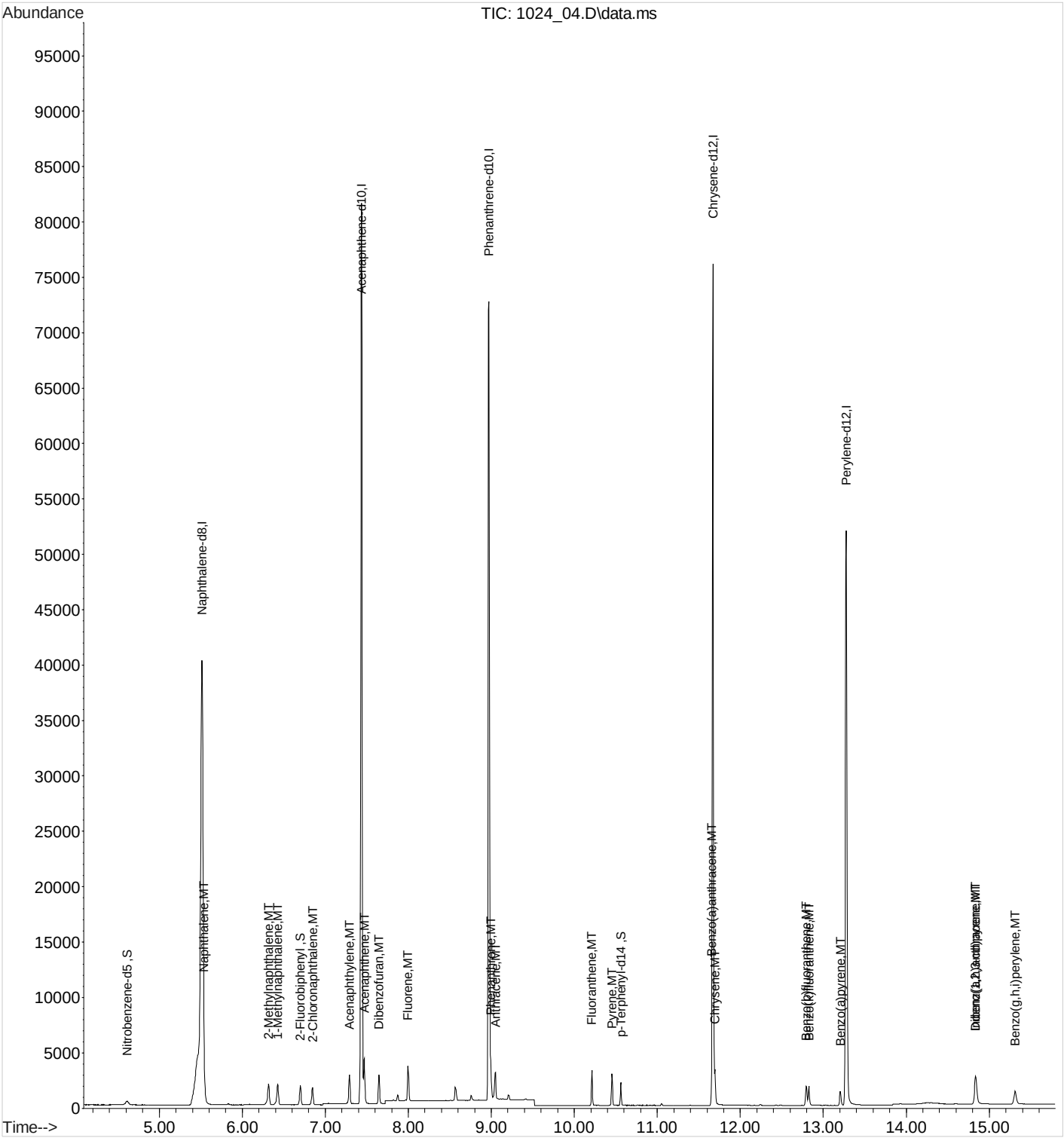
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) Naphthalene-d8	5.515	136	84802	40.0000000 ppb	0.00
6) Acenaphthene-d10	7.437	164	45814	40.0000000 ppb	0.00
13) Phenanthrene-d10	8.974	188	71237	40.0000000 ppb	0.00
19) Chrysene-d12	11.671	240	58140	40.0000000 ppb	0.00
24) Perylene-d12	13.278	264	58307	40.0000000 ppb	0.00
System Monitoring Compounds					
2) Nitrobenzene-d5	4.613	82	683m	0.9505229 ppb	0.00
Spiked Amount 2.000	Range 45 - 170		Recovery = 47.53%		
7) 2-Fluorobiphenyl	6.700	172	1674	1.0357529 ppb	0.00
Spiked Amount 2.000	Range 58 - 153		Recovery = 51.79%#		
21) p-Terphenyl-d14	10.562	244	1491	1.0415300 ppb	0.00
Spiked Amount 2.000	Range 53 - 156		Recovery = 52.08%#		
Target Compounds					Qvalue
3) Naphthalene	5.538	128	3008	1.2797543 ppb	99
4) 2-Methylnaphthalene	6.317	142	1568	1.0261701 ppb	100
5) 1-Methylnaphthalene	6.426	142	1471	1.0412610 ppb	98
8) 2-Chloronaphthalene	6.848	162	1486	1.0242596 ppb	96
9) Acenaphthylene	7.290	152	2231	0.9911249 ppb	100
10) Acenaphthene	7.471	153	1494	1.0502577 ppb	99
11) Dibenzofuran	7.648	168	1985	1.0335636 ppb	99
12) Fluorene	7.997	166	1604	1.0077151 ppb	98
14) Hexachlorobenzene	8.566	284	485	No Calib	
15) Pentachlorophenol	8.756	266	231	No Calib	
16) Phenanthrene	8.995	178	2255	1.0616453 ppb	100
17) Anthracene	9.051	178	1974	0.9571095 ppb	99
18) Fluoranthene	10.211	202	2087	1.0053716 ppb	99
20) Pyrene	10.454	202	1935	1.0667447 ppb	99
22) Benzo(a)anthracene	11.657	228	1927	1.1140460 ppb	99
23) Chrysene	11.693	228	1785	1.0553158 ppb	97
25) Benzo(b)fluoranthene	12.794	252	1759	0.9801201 ppb	99
26) Benzo(k)fluoranthene	12.826	252	1704	1.0281745 ppb	98
27) Benzo(a)pyrene	13.208	252	1415	0.9547202 ppb	99
28) Indeno(1,2,3-cd)pyrene	14.835	276	1899	0.9431497 ppb	97
29) Dibenz(a,h)anthracene	14.835	278	1598	0.9411804 ppb	97
30) Benzo(g,h,i)perylene	15.313	276	1689	0.9840425 ppb	98

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

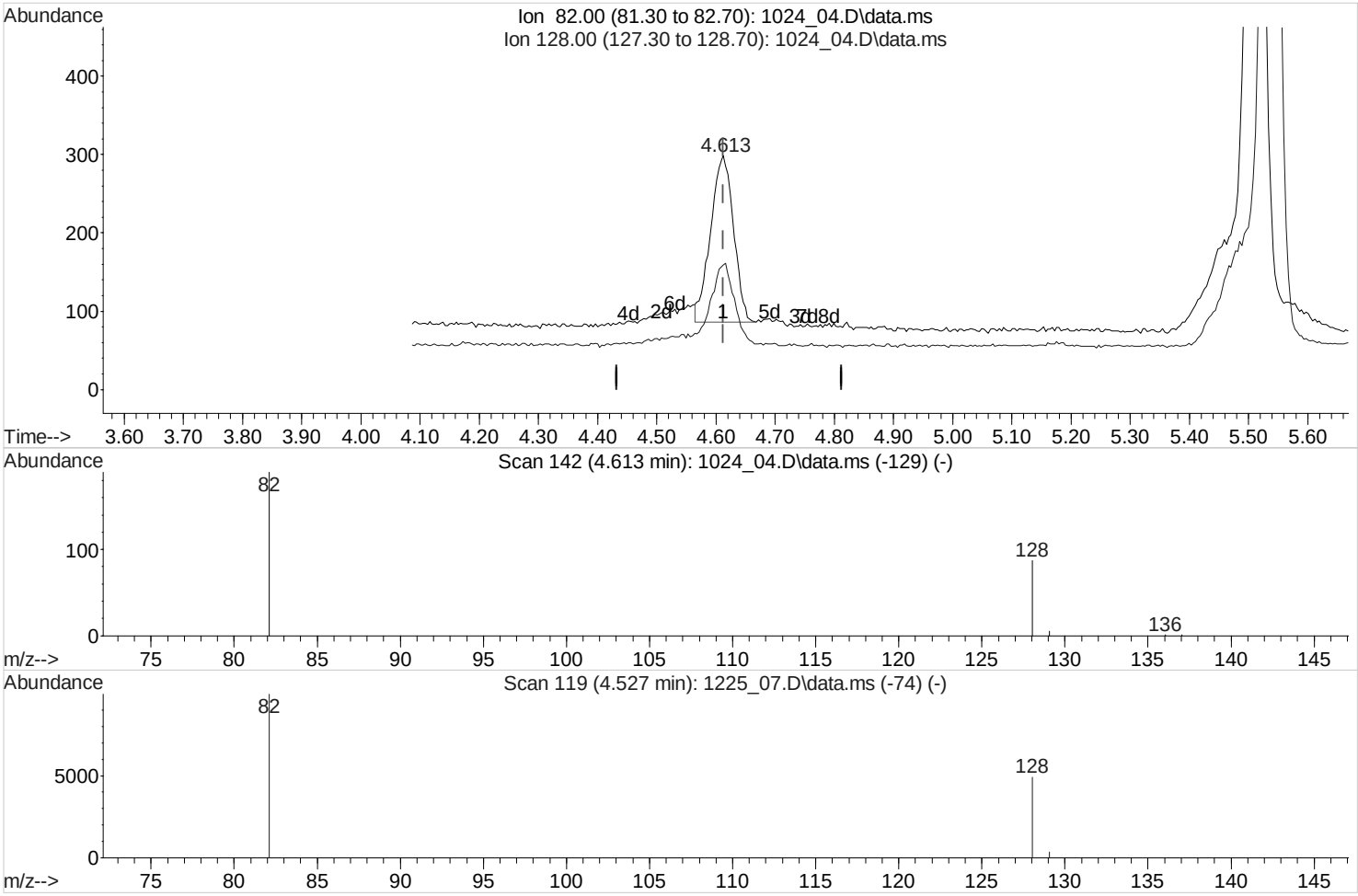
Data Path : C:\msdchem\1\DATA\102414\
Data File : 1024 04.D
Acq On : 24 Oct 2014 9:02 am
Operator : 282
Sample : STD SIMLVI 1 PPB 14J10795
Misc : sim calibration
ALS Vial : 4 Sample Multiplier: 1
InstName : BNAMS13

Quant Time: Oct 24 10:31:20 2014
Quant Method : C:\msdchem\1\METHODS\SS13J24N.M
Quant Title : 8270 BNA
QLast Update : Fri Oct 24 10:31:00 2014
Response via : Initial Calibration



Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\DATA\102414\
Data File : 1024 04.D
Acq On    : 24 Oct 2014   9:02 am
Operator  : 282
Sample    : STD SIMLVI 1 PPB 14J10795
Misc      : sim calibration
ALS Vial  : 4   Sample Multiplier: 1
InstName  : BNAMS13

Quant Time: Oct 24 10:31:10 2014
Quant Method : C:\msdchem\1\METHODS\SS13J24N.M
Quant Title  : 8270 BNA
QLast Update : Fri Oct 24 10:31:00 2014
Response via : Initial Calibration
```



TIC: 1024_04.D\data.ms

(2) Nitrobenzene-d5 (S)

4.613min (-0.000) 0.7974372 ppb

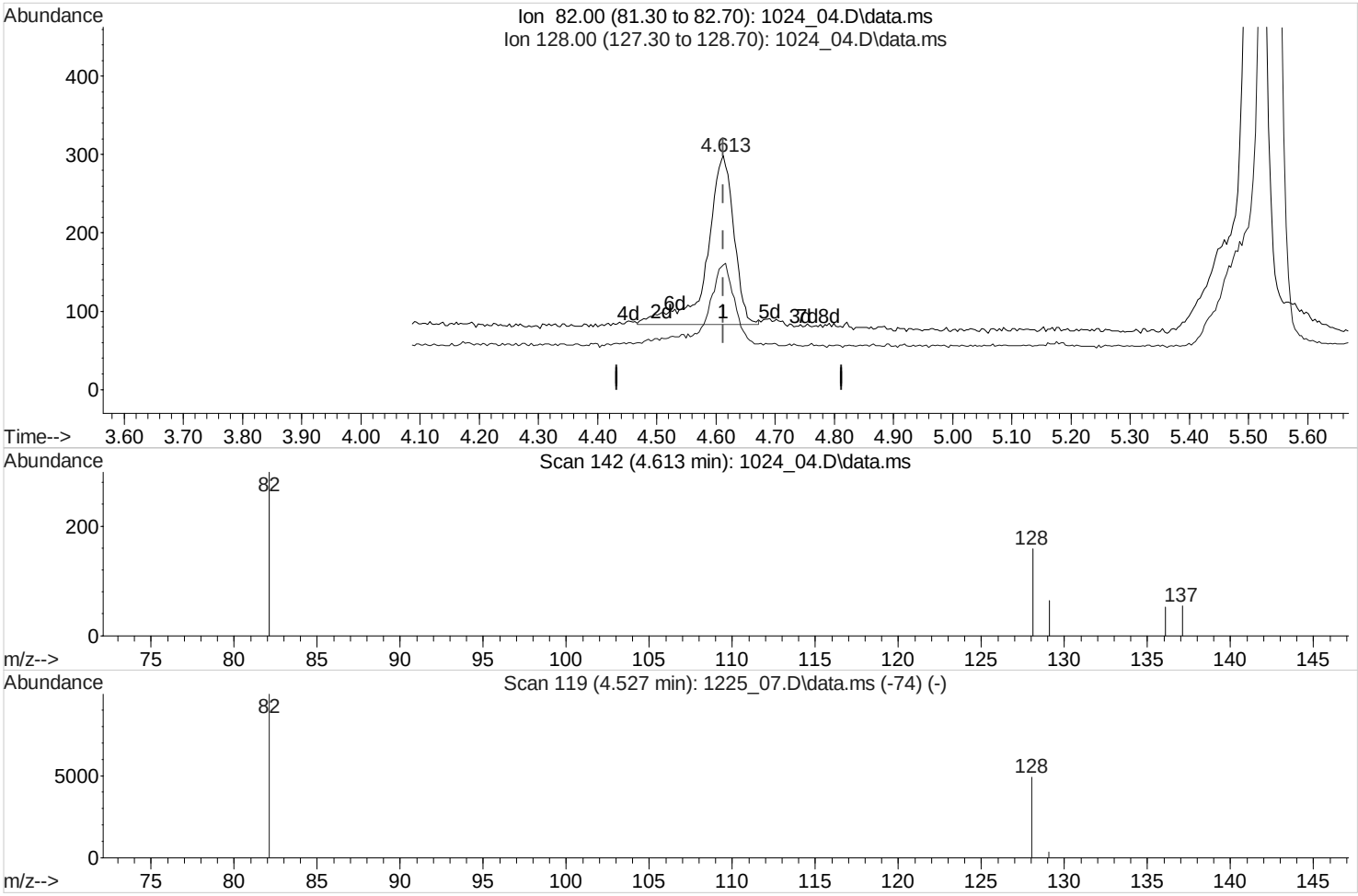
Qvalue = 100

response 573

Ion	Exp%	Act%
82.00	100	100
128.00	47.50	47.42
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\DATA\102414\
Data File : 1024 04.D
Acq On    : 24 Oct 2014   9:02 am
Operator  : 282
Sample    : STD SIMLVI 1 PPB 14J10795
Misc      : sim calibration
ALS Vial  : 4   Sample Multiplier: 1
InstName  : BNAMS13

Quant Time: Oct 24 10:31:10 2014
Quant Method : C:\msdchem\1\METHODS\SS13J24N.M
Quant Title  : 8270 BNA
QLast Update : Fri Oct 24 10:31:00 2014
Response via : Initial Calibration
```



TIC: 1024_04.D\data.ms

(2) Nitrobenzene-d5 (S)

4.613min (-0.000) 0.9505229 ppb m

response 683

Ion	Exp%	Act%
82.00	100	100
128.00	47.50	53.18
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\102414\
Data File : 1024 05.D
Acq On : 24 Oct 2014 9:24 am
Operator : 282
Sample : STD SIMLVI 5 PPB 14J10795
Misc : sim calibration
ALS Vial : 5 Sample Multiplier: 1
InstName : BNAMS13

Quant Time: Oct 24 10:40:35 2014
Quant Method : C:\msdchem\1\METHODS\SS13J24N.M
Quant Title : 8270 BNA
QLast Update : Fri Oct 24 10:40:13 2014
Response via : Initial Calibration

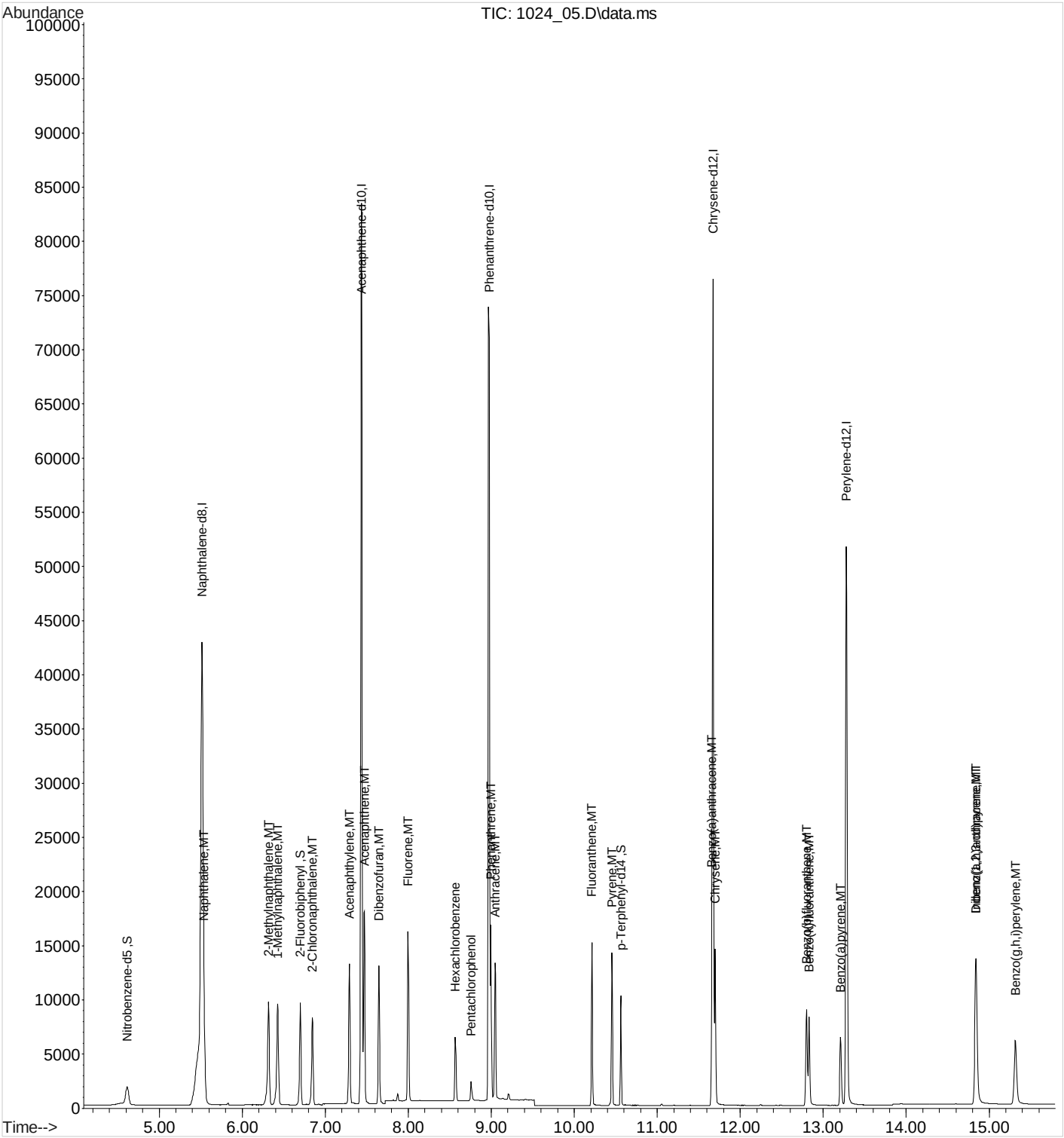
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) Naphthalene-d8	5.515	136	85097	40.0000000 ppb	0.00
6) Acenaphthene-d10	7.437	164	45699	40.0000000 ppb	0.00
13) Phenanthrene-d10	8.974	188	71009	40.0000000 ppb	0.00
19) Chrysene-d12	11.671	240	58389	40.0000000 ppb	0.00
24) Perylene-d12	13.278	264	58595	40.0000000 ppb	0.00
System Monitoring Compounds					
2) Nitrobenzene-d5	4.613	82	3771m	5.3625233 ppb	0.00
Spiked Amount 2.000	Range 45 - 170		Recovery	= 268.13%#	
7) 2-Fluorobiphenyl	6.700	172	8369	5.1000065 ppb	0.00
Spiked Amount 2.000	Range 58 - 153		Recovery	= 255.00%#	
21) p-Terphenyl-d14	10.562	244	7486	5.1010805 ppb	0.00
Spiked Amount 2.000	Range 53 - 156		Recovery	= 255.05%#	
Target Compounds					Qvalue
3) Naphthalene	5.538	128	12861	4.7836269 ppb	100
4) 2-Methylnaphthalene	6.317	142	7848	5.0521733 ppb	100
5) 1-Methylnaphthalene	6.426	142	7346	5.0771637 ppb	98
8) 2-Chloronaphthalene	6.845	162	7487	5.1115707 ppb	99
9) Acenaphthylene	7.290	152	11127	4.9777137 ppb	99
10) Acenaphthene	7.471	153	7362	5.0612077 ppb	100
11) Dibenzofuran	7.648	168	9909	5.0870999 ppb	98
12) Fluorene	7.997	166	8001	5.0199236 ppb	98
14) Hexachlorobenzene	8.566	284	2304	5.0075722 ppb	99
15) Pentachlorophenol	8.756	266	782	3.8414191 ppb	97
16) Phenanthrene	8.995	178	10965	5.0240019 ppb	100
17) Anthracene	9.044	178	9944	4.9429098 ppb	97
18) Fluoranthene	10.212	202	10317	4.9726163 ppb	100
20) Pyrene	10.454	202	9457	5.0236581 ppb	100
22) Benzo(a)anthracene	11.657	228	8913	4.8540569 ppb	99
23) Chrysene	11.698	228	8984	5.1464693 ppb	100
25) Benzo(b)fluoranthene	12.800	252	9202	5.1534051 ppb	99
26) Benzo(k)fluoranthene	12.832	252	8331	4.9326373 ppb	99
27) Benzo(a)pyrene	13.208	252	7148	4.9103194 ppb	100
28) Indeno(1,2,3-cd)pyrene	14.841	276	9661	4.9142995 ppb	99
29) Dibenz(a,h)anthracene	14.841	278	8202	4.9526782 ppb	100
30) Benzo(g,h,i)perylene	15.318	276	8527	4.9833297 ppb	100

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

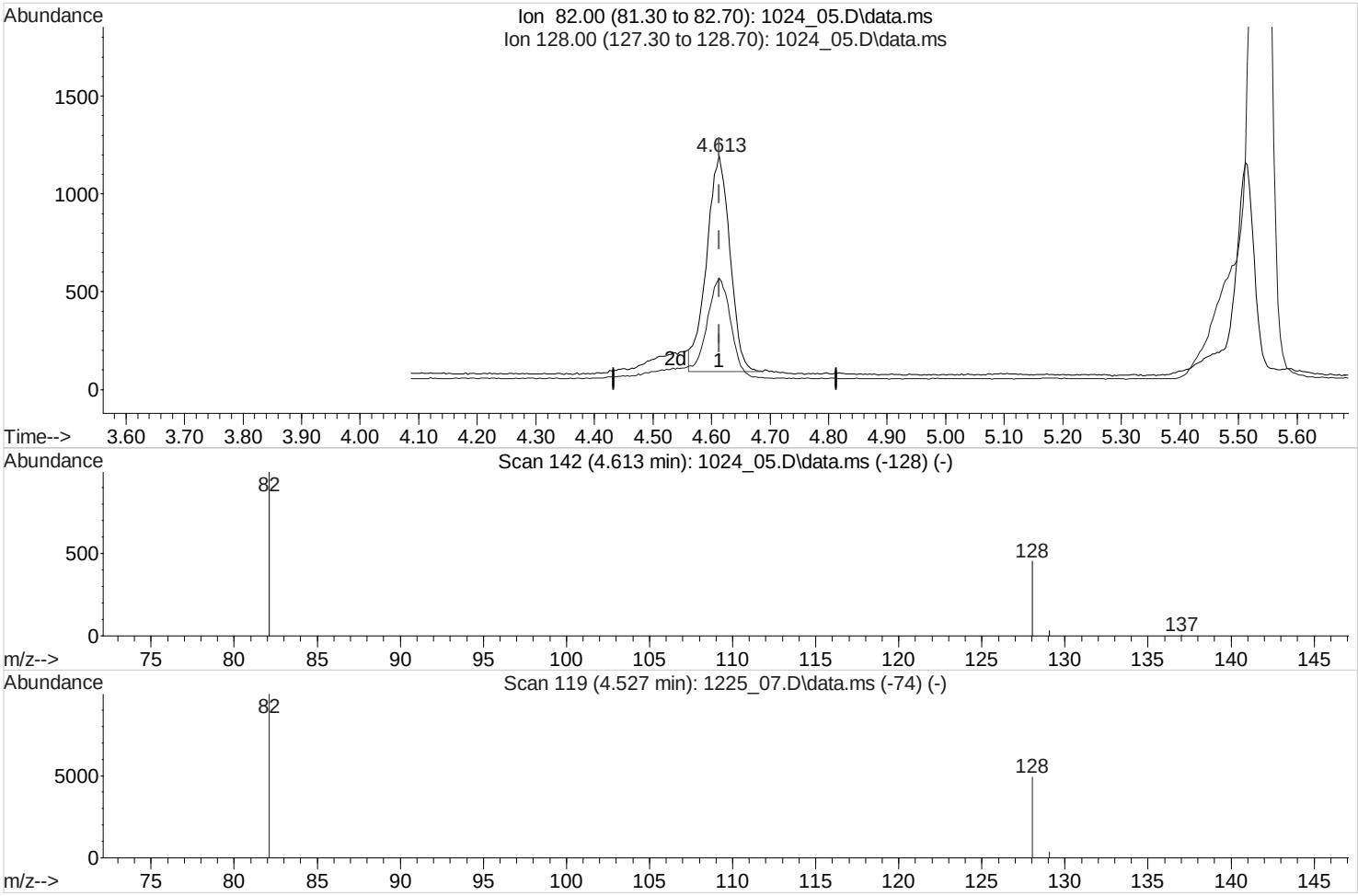
Data Path : C:\msdchem\1\DATA\102414\
Data File : 1024 05.D
Acq On : 24 Oct 2014 9:24 am
Operator : 282
Sample : STD SIMLVI 5 PPB 14J10795
Misc : sim calibration
ALS Vial : 5 Sample Multiplier: 1
InstName : BNAMS13

Quant Time: Oct 24 10:40:35 2014
Quant Method : C:\msdchem\1\METHODS\SS13J24N.M
Quant Title : 8270 BNA
QLast Update : Fri Oct 24 10:40:13 2014
Response via : Initial Calibration



Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\DATA\102414\
Data File : 1024 05.D
Acq On    : 24 Oct 2014   9:24 am
Operator  : 282
Sample    : STD SIMLVI 5 PPB 14J10795
Misc      : sim calibration
ALS Vial  : 5   Sample Multiplier: 1
InstName  : BNAMS13

Quant Time: Oct 24 10:40:22 2014
Quant Method : C:\msdchem\1\METHODS\SS13J24N.M
Quant Title  : 8270 BNA
QLast Update : Fri Oct 24 10:40:13 2014
Response via : Initial Calibration
```



TIC: 1024_05.D\data.ms

(2) Nitrobenzene-d5 (S)

4.613min (+0.000) 4.3372305 ppb

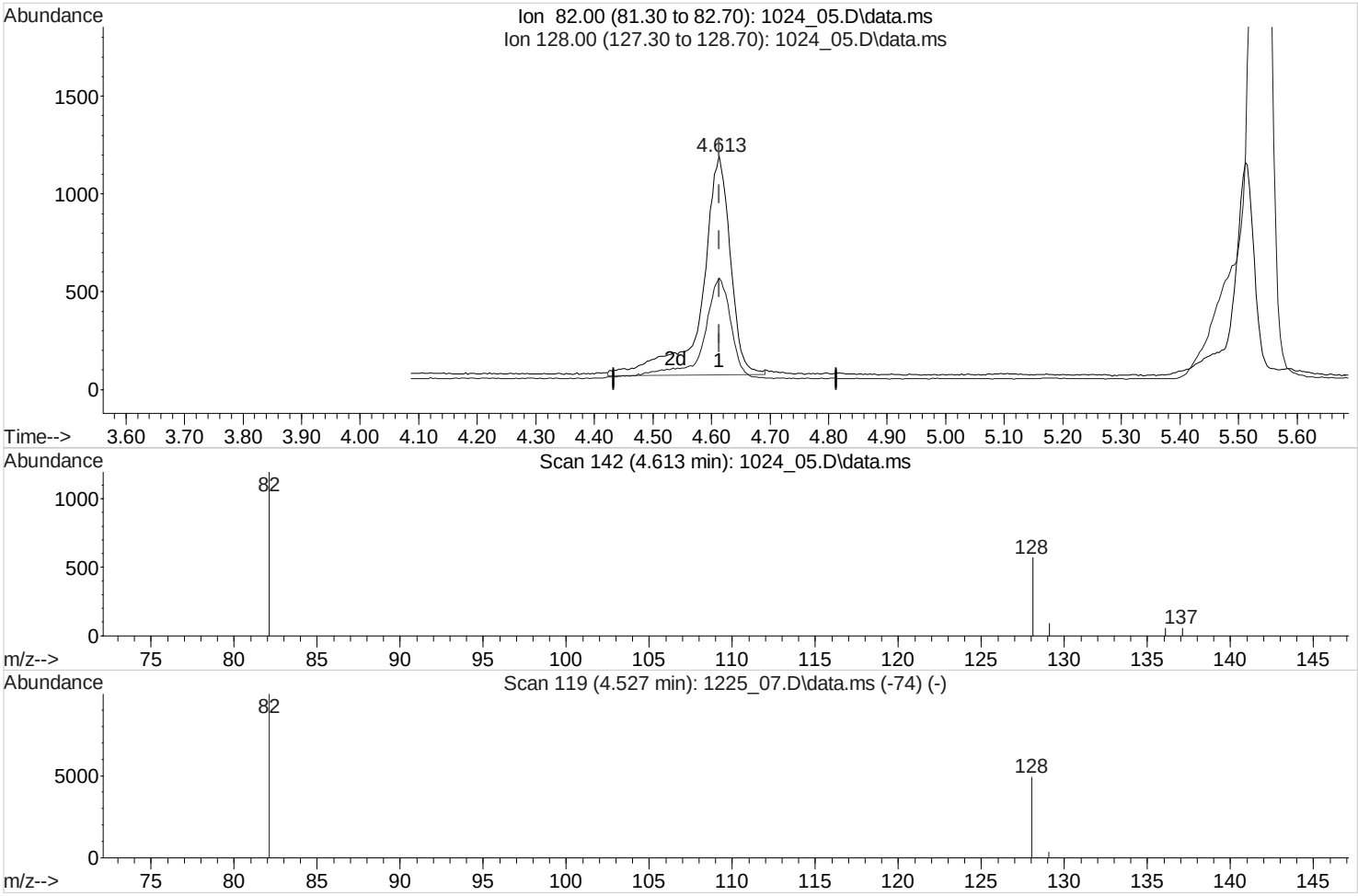
Qvalue = 98

response 3050

Ion	Exp%	Act%
82.00	100	100
128.00	47.50	46.24
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\DATA\102414\
Data File : 1024 05.D
Acq On    : 24 Oct 2014   9:24 am
Operator  : 282
Sample    : STD SIMLVI 5 PPB 14J10795
Misc      : sim calibration
ALS Vial  : 5   Sample Multiplier: 1
InstName  : BNAMS13

Quant Time: Oct 24 10:40:22 2014
Quant Method : C:\msdchem\1\METHODS\SS13J24N.M
Quant Title  : 8270 BNA
QLast Update : Fri Oct 24 10:40:13 2014
Response via : Initial Calibration
```



TIC: 1024_05.D\data.ms

(2) Nitrobenzene-d5 (S)

4.613min (+0.000) 5.3625233 ppb m

response 3771

Ion	Exp%	Act%
82.00	100	100
128.00	47.50	47.83
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\102414\
Data File : 1024 06.D
Acq On : 24 Oct 2014 9:45 am
Operator : 282
Sample : STD SIMLVI 10 PPB 14J10795
Misc : sim calibration
ALS Vial : 6 Sample Multiplier: 1
InstName : BNAMS13

Quant Time: Oct 24 10:41:03 2014
Quant Method : C:\msdchem\1\METHODS\SS13J24N.M
Quant Title : 8270 BNA
QLast Update : Fri Oct 24 10:40:13 2014
Response via : Initial Calibration

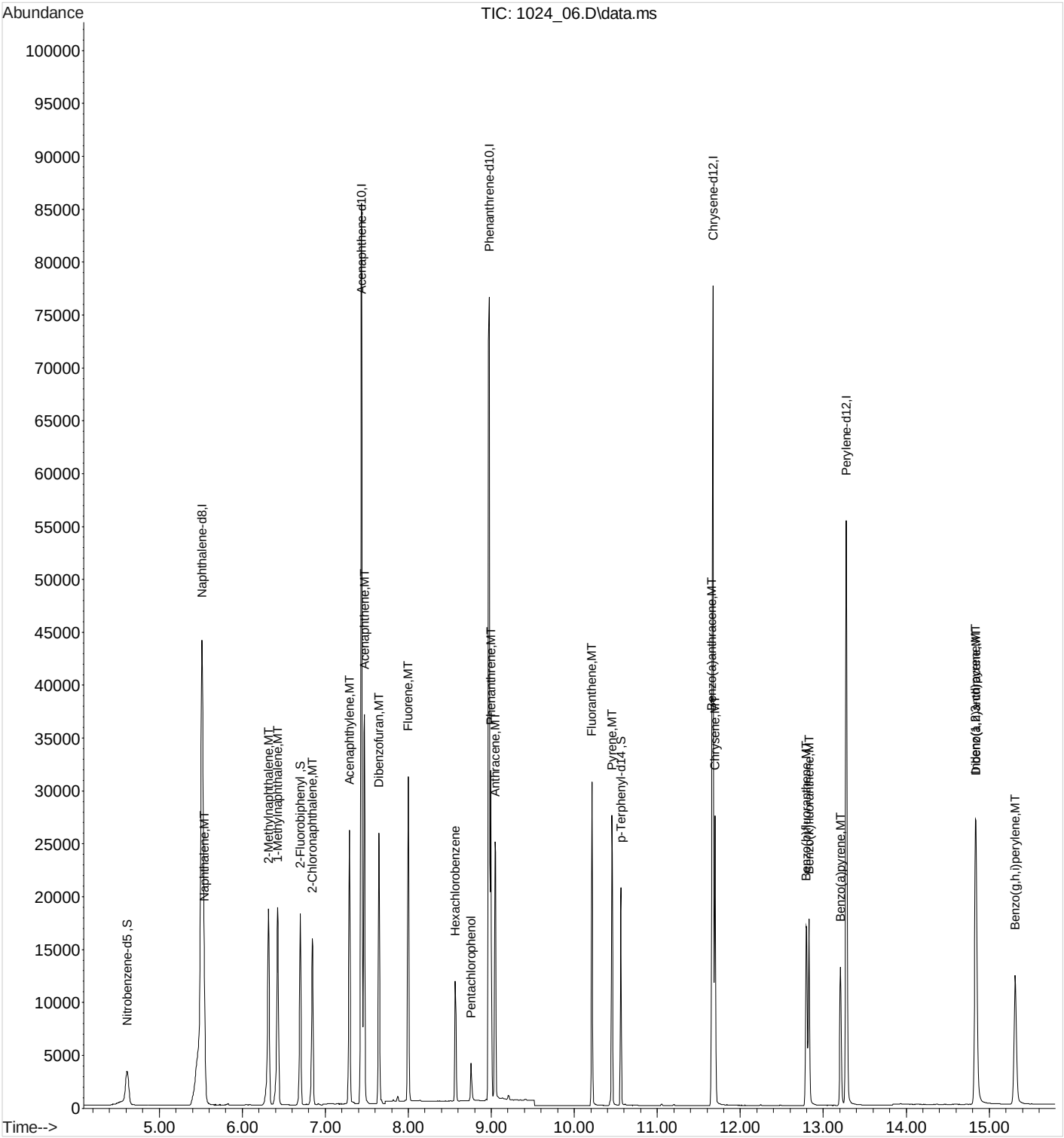
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) Naphthalene-d8	5.512	136	85730	40.0000000 ppb	0.00
6) Acenaphthene-d10	7.437	164	46032	40.0000000 ppb	0.00
13) Phenanthrene-d10	8.974	188	71710	40.0000000 ppb	0.00
19) Chrysene-d12	11.671	240	59186	40.0000000 ppb	0.00
24) Perylene-d12	13.278	264	59204	40.0000000 ppb	0.00
System Monitoring Compounds					
2) Nitrobenzene-d5	4.613	82	7138	9.8378305 ppb	0.00
Spiked Amount 2.000	Range 45 - 170		Recovery = 491.89%#		
7) 2-Fluorobiphenyl	6.700	172	16455	9.8890831 ppb	0.00
Spiked Amount 2.000	Range 58 - 153		Recovery = 494.45%#		
21) p-Terphenyl-d14	10.562	244	14845	9.9126059 ppb	0.00
Spiked Amount 2.000	Range 53 - 156		Recovery = 495.63%#		
Target Compounds					Qvalue
3) Naphthalene	5.541	128	24785	9.2845995 ppb	100
4) 2-Methylnaphthalene	6.317	142	15570	9.9147400 ppb	99
5) 1-Methylnaphthalene	6.426	142	14512	9.9049103 ppb	99
8) 2-Chloronaphthalene	6.845	162	14758	9.9289323 ppb	99
9) Acenaphthylene	7.290	152	22069	9.8158309 ppb	100
10) Acenaphthene	7.471	153	14513	9.8649265 ppb	99
11) Dibenzofuran	7.648	168	19897	10.0823179 ppb	100
12) Fluorene	7.997	166	15977	9.9384455 ppb	98
14) Hexachlorobenzene	8.566	284	4486	9.6498043 ppb	99
15) Pentachlorophenol	8.756	266	1541	8.1232887 ppb	97
16) Phenanthrene	8.995	178	21737	9.8464588 ppb	100
17) Anthracene	9.044	178	20052	9.9076128 ppb	97
18) Fluoranthene	10.211	202	20559	9.8301636 ppb	100
20) Pyrene	10.454	202	18732	9.8011819 ppb	100
22) Benzo(a)anthracene	11.657	228	17418	9.4501232 ppb	98
23) Chrysene	11.698	228	17957	10.0499830 ppb	99
25) Benzo(b)fluoranthene	12.794	252	17343	9.5153948 ppb	96
26) Benzo(k)fluoranthene	12.826	252	17879	10.5242104 ppb	96
27) Benzo(a)pyrene	13.208	252	14467	9.8950388 ppb	99
28) Indeno(1,2,3-cd)pyrene	14.835	276	19809	10.0299785 ppb	98
29) Dibenz(a,h)anthracene	14.841	278	16592	9.9472003 ppb	97
30) Benzo(g,h,i)perylene	15.313	276	17151	9.9312803 ppb	98

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\102414\
Data File : 1024 06.D
Acq On : 24 Oct 2014 9:45 am
Operator : 282
Sample : STD SIMLVI 10 PPB 14J10795
Misc : sim calibration
ALS Vial : 6 Sample Multiplier: 1
InstName : BNAMS13

Quant Time: Oct 24 10:41:03 2014
Quant Method : C:\msdchem\1\METHODS\SS13J24N.M
Quant Title : 8270 BNA
QLast Update : Fri Oct 24 10:40:13 2014
Response via : Initial Calibration



SS13J24N.M Fri Oct 24 10:41:26 2014 Page: 2

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\102414\
Data File : 1024 07.D
Acq On : 24 Oct 2014 10:07 am
Operator : 282
Sample : STD SIMLVI 20 PPB 14J10795
Misc : sim calibration
ALS Vial : 7 Sample Multiplier: 1
InstName : BNAMS13

Quant Time: Oct 24 10:41:39 2014
Quant Method : C:\msdchem\1\METHODS\SS13J24N.M
Quant Title : 8270 BNA
QLast Update : Fri Oct 24 10:40:13 2014
Response via : Initial Calibration

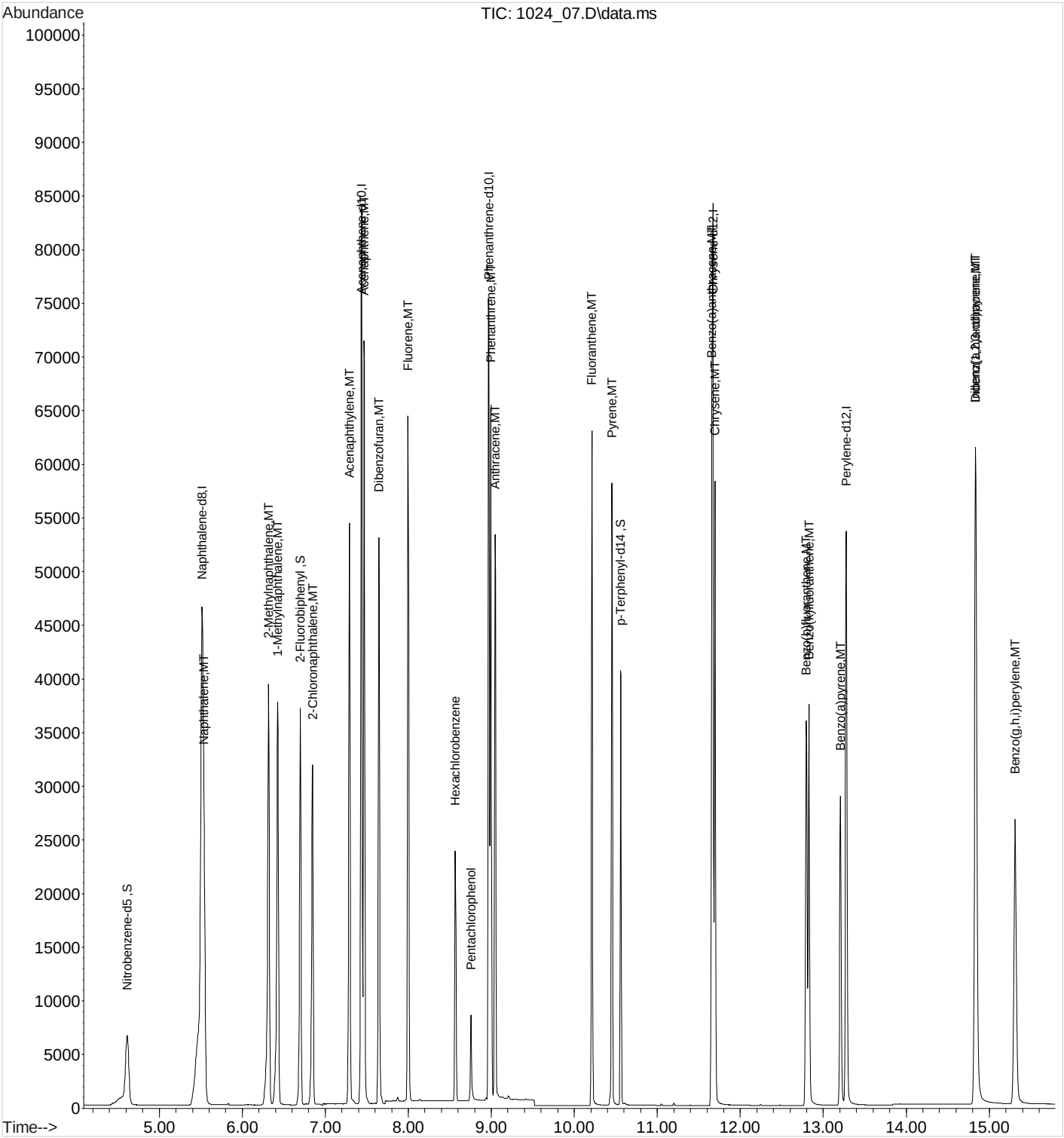
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) Naphthalene-d8	5.511	136	85717	40.0000000 ppb	0.00
6) Acenaphthene-d10	7.437	164	45960	40.0000000 ppb	0.00
13) Phenanthrene-d10	8.974	188	71637	40.0000000 ppb	0.00
19) Chrysene-d12	11.671	240	60358	40.0000000 ppb	0.00
24) Perylene-d12	13.278	264	60173	40.0000000 ppb	0.00
System Monitoring Compounds					
2) Nitrobenzene-d5	4.613	82	14882	20.5974883 ppb	0.00
Spiked Amount 2.000	Range 45 - 170		Recovery = 1029.87%#		
7) 2-Fluorobiphenyl	6.700	172	33984	20.5124906 ppb	0.00
Spiked Amount 2.000	Range 58 - 153		Recovery = 1025.62%#		
21) p-Terphenyl-d14	10.558	244	31309	20.5452245 ppb	0.00
Spiked Amount 2.000	Range 53 - 156		Recovery = 1027.26%#		
Target Compounds					Qvalue
3) Naphthalene	5.538	128	50286	19.1833683 ppb	100
4) 2-Methylnaphthalene	6.317	142	32206	20.5552164 ppb	99
5) 1-Methylnaphthalene	6.426	142	29995	20.5244561 ppb	100
8) 2-Chloronaphthalene	6.848	162	30320	20.4671022 ppb	95
9) Acenaphthylene	7.294	152	46076	20.6206910 ppb	99
10) Acenaphthene	7.467	153	29822	20.3714655 ppb	98
11) Dibenzofuran	7.648	168	40706	20.6166549 ppb	99
12) Fluorene	7.997	166	33101	20.6544197 ppb	99
14) Hexachlorobenzene	8.566	284	9273	20.1437708 ppb	99
15) Pentachlorophenol	8.756	266	3374	18.6804053 ppb	99
16) Phenanthrene	8.995	178	44852	20.4161980 ppb	99
17) Anthracene	9.044	178	42578	21.1078092 ppb	97
18) Fluoranthene	10.211	202	43244	20.7861879 ppb	99
20) Pyrene	10.454	202	39369	20.3000382 ppb	99
22) Benzo(a)anthracene	11.657	228	37098	20.0117679 ppb	98
23) Chrysene	11.693	228	37517	20.5637091 ppb	96
25) Benzo(b)fluoranthene	12.794	252	37196	20.3255300 ppb	98
26) Benzo(k)fluoranthene	12.826	252	37391	21.3751018 ppb	98
27) Benzo(a)pyrene	13.208	252	31246	21.0825885 ppb	99
28) Indeno(1,2,3-cd)pyrene	14.835	276	42704	21.2583732 ppb	99
29) Dibenz(a,h)anthracene	14.835	278	36006	21.2666964 ppb	99
30) Benzo(g,h,i)perylene	15.313	276	36801	21.0025271 ppb	100

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\102414\
Data File : 1024 07.D
Acq On : 24 Oct 2014 10:07 am
Operator : 282
Sample : STD SIMLVI 20 PPB 14J10795
Misc : sim calibration
ALS Vial : 7 Sample Multiplier: 1
InstName : BNAMS13

Quant Time: Oct 24 10:41:39 2014
Quant Method : C:\msdchem\1\METHODS\SS13J24N.M
Quant Title : 8270 BNA
QLast Update : Fri Oct 24 10:40:13 2014
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\102414\
Data File : 1024 08.D
Acq On : 24 Oct 2014 10:28 am
Operator : 282
Sample : STD SIMLVI 80 PPB 14J10795
Misc : sim calibration
ALS Vial : 8 Sample Multiplier: 1
InstName : BNAMS13

Quant Time: Oct 24 12:01:52 2014
Quant Method : C:\msdchem\1\METHODS\SS13J24N.M
Quant Title : 8270 BNA
QLast Update : Fri Oct 24 10:42:02 2014
Response via : Initial Calibration

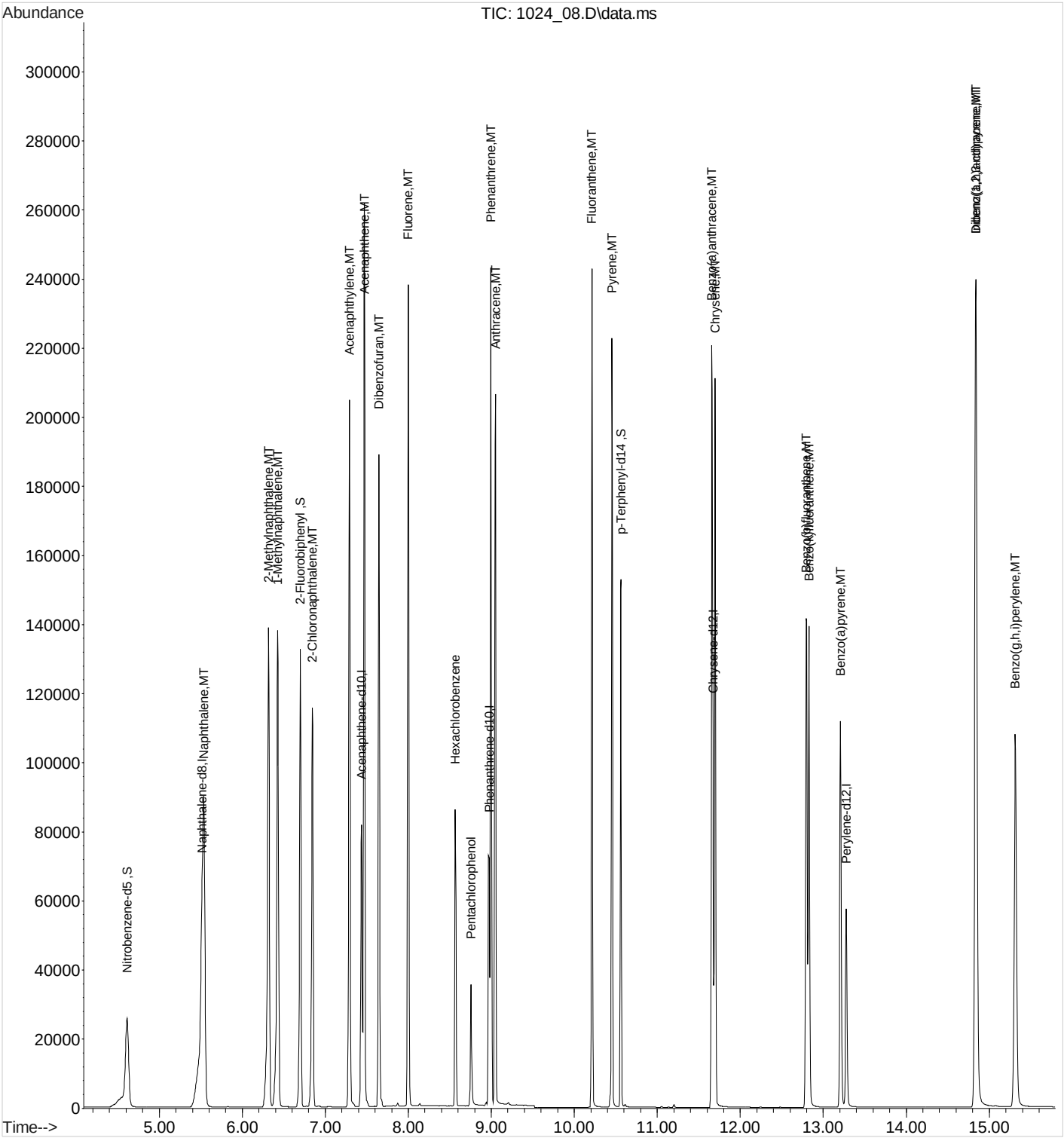
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) Naphthalene-d8	5.512	136	85693	40.0000000 ppb	0.00
6) Acenaphthene-d10	7.437	164	45358	40.0000000 ppb	0.00
13) Phenanthrene-d10	8.974	188	71605	40.0000000 ppb	0.00
19) Chrysene-d12	11.671	240	62265	40.0000000 ppb	0.00
24) Perylene-d12	13.278	264	61798	40.0000000 ppb	0.00
System Monitoring Compounds					
2) Nitrobenzene-d5	4.613	82	56179	77.3145883 ppb	0.00
Spiked Amount 2.000	Range 45 - 170		Recovery = 3865.73%#		
7) 2-Fluorobiphenyl	6.700	172	121921	74.1871190 ppb	0.00
Spiked Amount 2.000	Range 58 - 153		Recovery = 3709.36%#		
21) p-Terphenyl-d14	10.562	244	115510	73.0786774 ppb	0.00
Spiked Amount 2.000	Range 53 - 156		Recovery = 3653.93%#		
Target Compounds					Qvalue
3) Naphthalene	5.538	128	180872	69.5876029 ppb	100
4) 2-Methylnaphthalene	6.317	142	118070	74.9621164 ppb	100
5) 1-Methylnaphthalene	6.426	142	108367	73.7852791 ppb	98
8) 2-Chloronaphthalene	6.845	162	108801	74.0734028 ppb	99
9) Acenaphthylene	7.290	152	173482	78.1846855 ppb	100
10) Acenaphthene	7.471	153	107271	73.9747821 ppb	99
11) Dibenzofuran	7.648	168	144399	73.6512646 ppb	98
12) Fluorene	7.997	166	120754	75.8519384 ppb	98
14) Hexachlorobenzene	8.566	284	33335	72.3420935 ppb	99
15) Pentachlorophenol	8.756	266	13947	78.2861856 ppb	99
16) Phenanthrene	8.995	178	163479	74.1387562 ppb	100
17) Anthracene	9.051	178	162584	79.7526363 ppb	100
18) Fluoranthene	10.212	202	161569	77.0903558 ppb	100
20) Pyrene	10.454	202	146433	72.9745089 ppb	100
22) Benzo(a)anthracene	11.657	228	140913	73.6759534 ppb	100
23) Chrysene	11.698	228	136790	72.2731964 ppb	99
25) Benzo(b)fluoranthene	12.794	252	141088	74.8258224 ppb	97
26) Benzo(k)fluoranthene	12.827	252	140157	76.9576586 ppb	98
27) Benzo(a)pyrene	13.208	252	121021	78.6576797 ppb	99
28) Indeno(1,2,3-cd)pyrene	14.841	276	164819	78.8978272 ppb	99
29) Dibenz(a,h)anthracene	14.841	278	139519	79.2353738 ppb	98
30) Benzo(g,h,i)perylene	15.313	276	140271	77.1746789 ppb	98

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\102414\
Data File : 1024 08.D
Acq On : 24 Oct 2014 10:28 am
Operator : 282
Sample : STD SIMLVI 80 PPB 14J10795
Misc : sim calibration
ALS Vial : 8 Sample Multiplier: 1
InstName : BNAMS13

Quant Time: Oct 24 12:01:52 2014
Quant Method : C:\msdchem\1\METHODS\SS13J24N.M
Quant Title : 8270 BNA
QLast Update : Fri Oct 24 10:42:02 2014
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\102414\
Data File : 1024 09.D
Acq On : 24 Oct 2014 10:50 am
Operator : 282
Sample : STD SIMLVI 200 PPB 14J10795
Misc : sim calibration
ALS Vial : 9 Sample Multiplier: 1
InstName : BNAMS13

Quant Time: Oct 24 12:02:48 2014
Quant Method : C:\msdchem\1\METHODS\SS13J24N.M
Quant Title : 8270 BNA
QLast Update : Fri Oct 24 12:02:42 2014
Response via : Initial Calibration

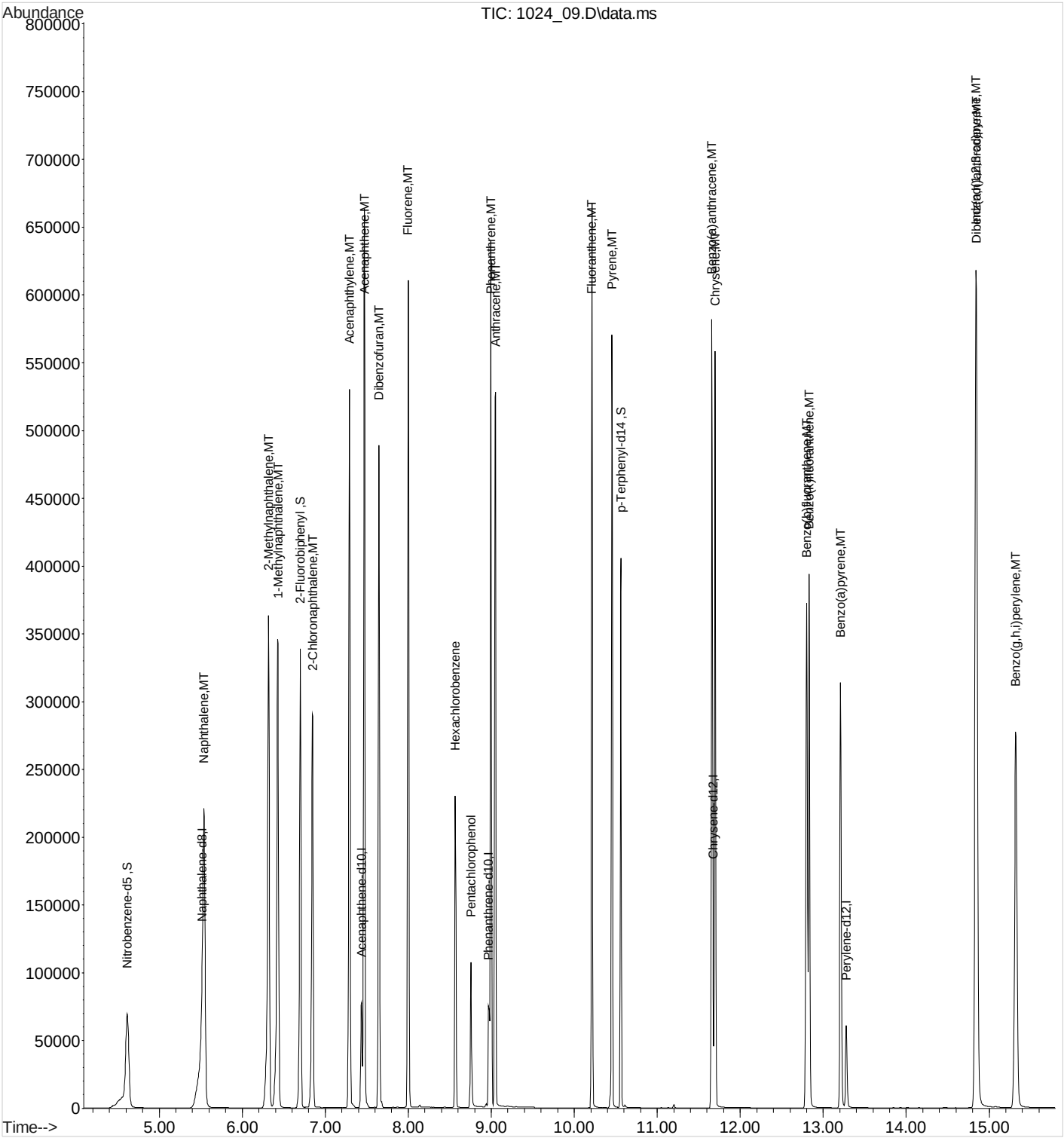
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) Naphthalene-d8	5.515	136	85442	40.0000000 ppb	0.00
6) Acenaphthene-d10	7.437	164	44590	40.0000000 ppb	0.00
13) Phenanthrene-d10	8.967	188	71847	40.0000000 ppb	0.00
19) Chrysene-d12	11.671	240	64674	40.0000000 ppb	0.00
24) Perylene-d12	13.278	264	65200	40.0000000 ppb	0.00
System Monitoring Compounds					
2) Nitrobenzene-d5	4.613	82	150856	209.3922012 ppb	0.00
Spiked Amount 2.000	Range 45 - 170		Recovery = 10469.61%#		
7) 2-Fluorobiphenyl	6.700	172	310139	194.3185589 ppb	0.00
Spiked Amount 2.000	Range 58 - 153		Recovery = 9715.93%#		
21) p-Terphenyl-d14	10.562	244	299294	184.9657164 ppb	0.00
Spiked Amount 2.000	Range 53 - 156		Recovery = 9248.29%#		
Target Compounds					Qvalue
3) Naphthalene	5.538	128	465050	183.4250898 ppb	100
4) 2-Methylnaphthalene	6.317	142	305788	196.7790785 ppb	99
5) 1-Methylnaphthalene	6.430	142	277151	191.7444224 ppb	99
8) 2-Chloronaphthalene	6.849	162	277375	194.4951586 ppb	94
9) Acenaphthylene	7.290	152	454981	209.3738952 ppb	100
10) Acenaphthene	7.471	153	273763	194.4816107 ppb	100
11) Dibenzofuran	7.648	168	364371	191.5838019 ppb	98
12) Fluorene	7.997	166	314185	202.5053138 ppb	98
14) Hexachlorobenzene	8.566	284	86881	190.9566212 ppb	99
15) Pentachlorophenol	8.756	266	41489	232.9299910 ppb	99
16) Phenanthrene	8.995	178	424165	194.0835131 ppb	100
17) Anthracene	9.051	178	424571	207.6711407 ppb	100
18) Fluoranthene	10.212	202	424331	203.0121750 ppb	99
20) Pyrene	10.454	202	380616	185.3262911 ppb	100
22) Benzo(a)anthracene	11.657	228	376119	191.8554523 ppb	99
23) Chrysene	11.698	228	350726	181.3230787 ppb	99
25) Benzo(b)fluoranthene	12.800	252	385004	195.6412351 ppb	99
26) Benzo(k)fluoranthene	12.832	252	350244	183.4408239 ppb	99
27) Benzo(a)pyrene	13.208	252	326129	201.4711396 ppb	100
28) Indeno(1,2,3-cd)pyrene	14.841	276	441685	200.8609969 ppb	98
29) Dibenz(a,h)anthracene	14.846	278	373741	201.5002985 ppb	95
30) Benzo(g,h,i)perylene	15.318	276	373323	195.8314128 ppb	96

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\102414\
Data File : 1024 09.D
Acq On : 24 Oct 2014 10:50 am
Operator : 282
Sample : STD SIMLVI 200 PPB 14J10795
Misc : sim calibration
ALS Vial : 9 Sample Multiplier: 1
InstName : BNAMS13

Quant Time: Oct 24 12:02:48 2014
Quant Method : C:\msdchem\1\METHODS\SS13J24N.M
Quant Title : 8270 BNA
QLast Update : Fri Oct 24 12:02:42 2014
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\102414\
Data File : 1024 10.D
Acq On : 24 Oct 2014 11:11 am
Operator : 282
Sample : STD SIMLVI 1000 PPB 14J10795
Misc : sim calibration
ALS Vial : 10 Sample Multiplier: 1
InstName : BNAMS13

Quant Time: Oct 24 12:03:35 2014
Quant Method : C:\msdchem\1\METHODS\SS13J24N.M
Quant Title : 8270 BNA
QLast Update : Fri Oct 24 12:03:12 2014
Response via : Initial Calibration

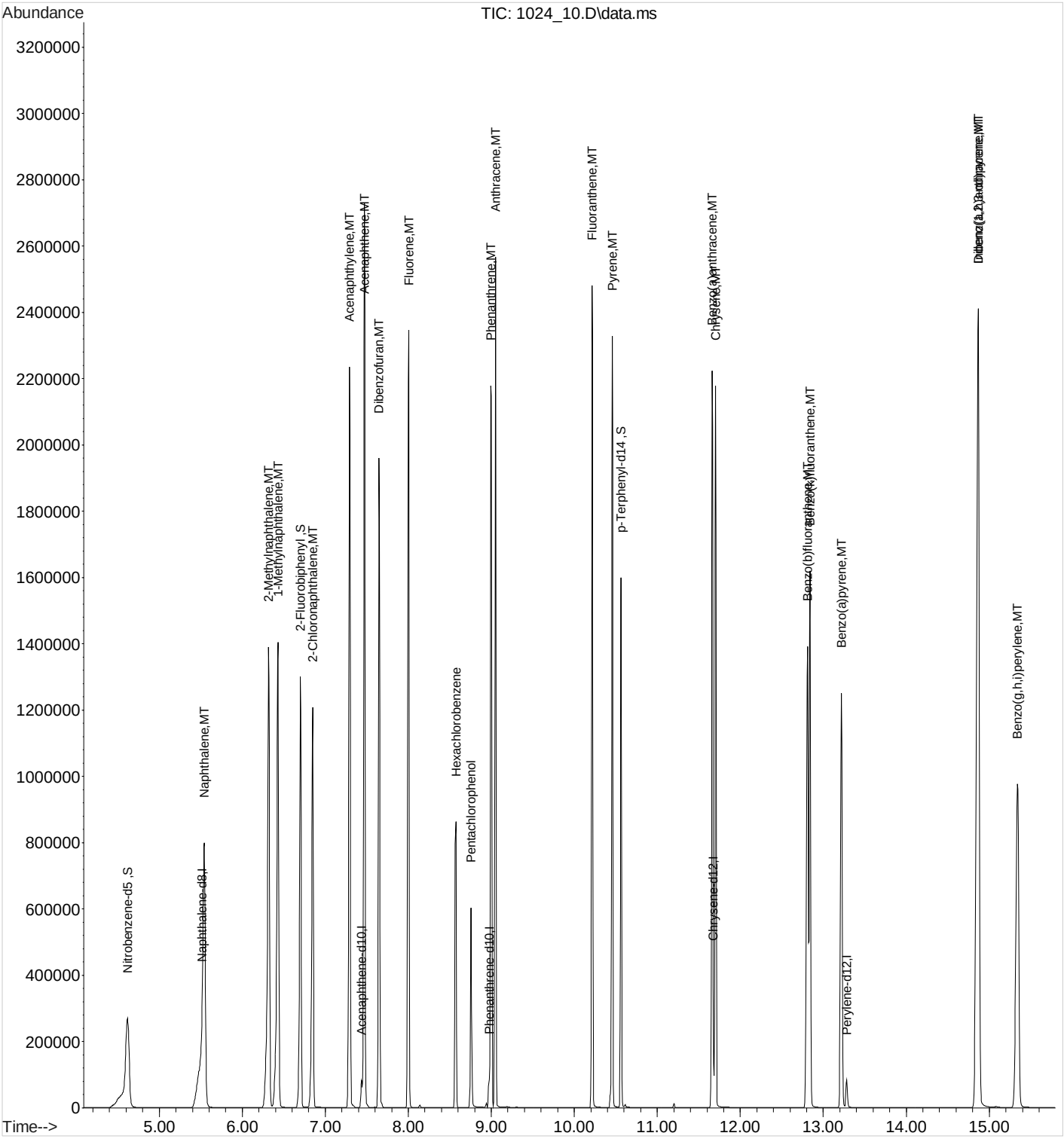
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Naphthalene-d8	5.515	136	84226	40.0000000	ppb	0.00
6) Acenaphthene-d10	7.437	164	44558	40.0000000	ppb	0.00
13) Phenanthrene-d10	8.974	188	74614	40.0000000	ppb	0.00
19) Chrysene-d12	11.675	240	72042	40.0000000	ppb	0.00
24) Perylene-d12	13.284	264	86367	40.0000000	ppb	0.00
System Monitoring Compounds						
2) Nitrobenzene-d5	4.616	82	690175m	965.3360823	ppb	0.00
Spiked Amount 2.000	Range 45 - 170		Recovery	= 48266.80%#		
7) 2-Fluorobiphenyl	6.700	172	1275401	802.9388337	ppb	0.00
Spiked Amount 2.000	Range 58 - 153		Recovery	= 40146.94%#		
21) p-Terphenyl-d14	10.562	244	1255485	704.1054900	ppb	0.00
Spiked Amount 2.000	Range 53 - 156		Recovery	= 35205.27%#		
Target Compounds						Qvalue
3) Naphthalene	5.541	128	1948891	789.1221961	ppb	99
4) 2-Methylnaphthalene	6.317	142	1277605	835.9506325	ppb	100
5) 1-Methylnaphthalene	6.430	142	1148972	811.1655742	ppb	99
8) 2-Chloronaphthalene	6.848	162	1158718	816.2854241	ppb	99
9) Acenaphthylene	7.294	152	1924897	880.5425830	ppb	99
10) Acenaphthene	7.471	153	1131858	807.8351824	ppb	99
11) Dibenzofuran	7.648	168	1489365	788.3999363	ppb	90
12) Fluorene	8.004	166	1335416	859.8107203	ppb	94
14) Hexachlorobenzene	8.573	284	370679	789.6063983	ppb	93
15) Pentachlorophenol	8.756	266	215382	1137.6095446	ppb	99
16) Phenanthrene	8.995	178	1761527	779.4184460	ppb	99
17) Anthracene	9.051	178	1759171	824.0413849	ppb	99
18) Fluoranthene	10.215	202	1768988	813.1995356	ppb	99
20) Pyrene	10.458	202	1591373	702.9782679	ppb	99
22) Benzo(a)anthracene	11.662	228	1562064	719.4913195	ppb	100
23) Chrysene	11.703	228	1392199	654.8821735	ppb	98
25) Benzo(b)fluoranthene	12.810	252	1599525	615.5171968	ppb	99
26) Benzo(k)fluoranthene	12.843	252	1534695	614.0653276	ppb	99
27) Benzo(a)pyrene	13.219	252	1434271	668.1873966	ppb	99
28) Indeno(1,2,3-cd)pyrene	14.868	276	1808592	620.5207691	ppb	97
29) Dibenz(a,h)anthracene	14.868	278	1538932	625.6896677	ppb	91
30) Benzo(g,h,i)perylene	15.340	276	1458724	579.3827589	ppb	98

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\102414\
Data File : 1024 10.D
Acq On : 24 Oct 2014 11:11 am
Operator : 282
Sample : STD SIMLVI 1000 PPB 14J10795
Misc : sim calibration
ALS Vial : 10 Sample Multiplier: 1
InstName : BNAMS13

Quant Time: Oct 24 12:03:35 2014
Quant Method : C:\msdchem\1\METHODS\SS13J24N.M
Quant Title : 8270 BNA
QLast Update : Fri Oct 24 12:03:12 2014
Response via : Initial Calibration



Quantitation Report (Qedit)

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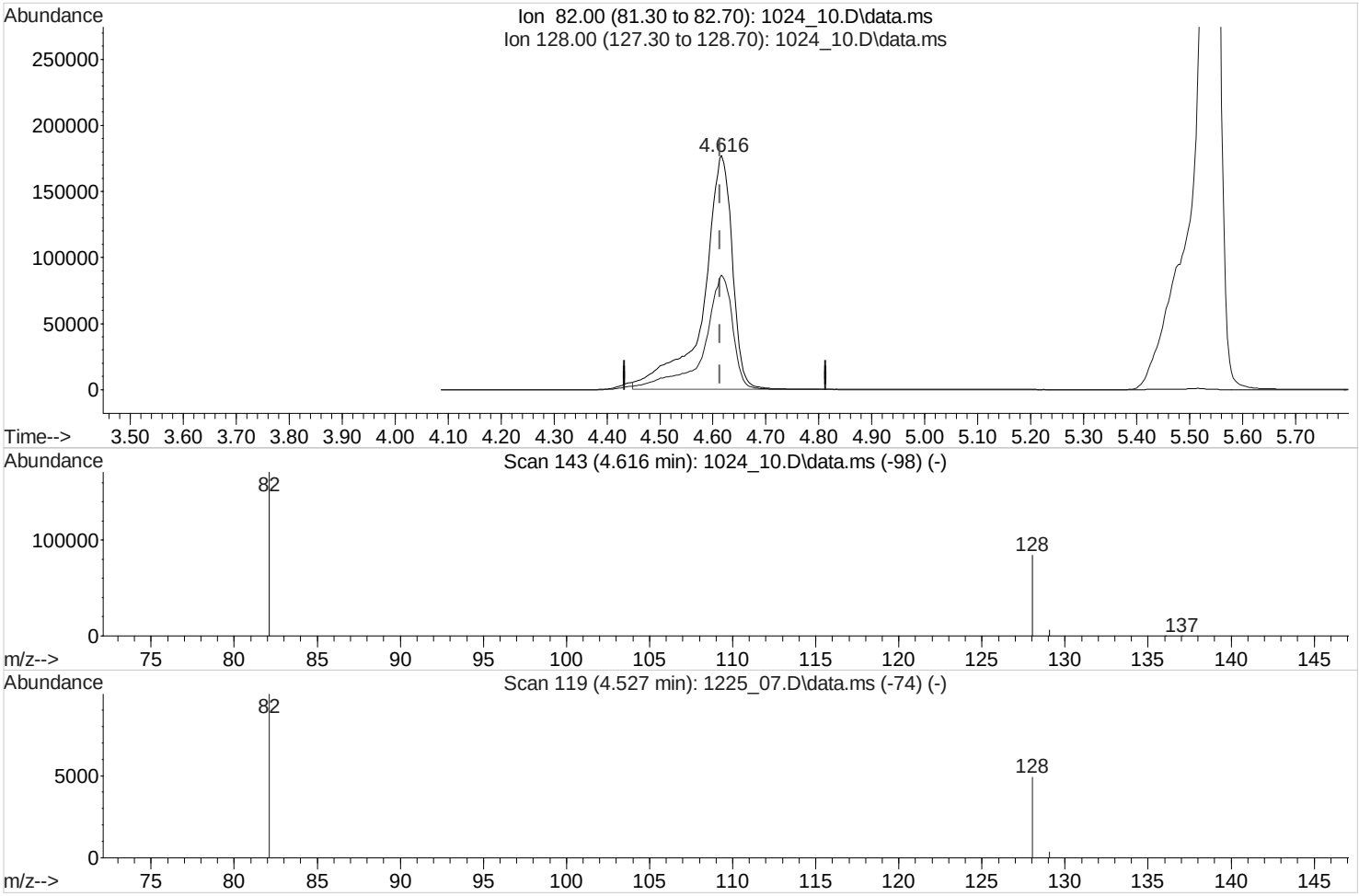
Data Path : C:\msdchem\1\DATA\102414\
Data File : 1024 10.D
Acq On    : 24 Oct 2014  11:11 am
Operator  : 282
Sample    : STD SIMLVI 1000 PPB 14J10795
Misc      : sim calibration
ALS Vial  : 10   Sample Multiplier: 1
InstName  : BNAMS13

Quant Time: Oct 24 12:03:19 2014
Quant Method : C:\msdchem\1\METHODS\SS13J24N.M
Quant Title  : 8270 BNA
QLast Update : Fri Oct 24 12:03:12 2014
Response via : Initial Calibration
```



TIC: 1024_10.D\data.ms

(2) Nitrobenzene-d5 (S)

4.616min (+0.004) 948.7225249 ppb

Qvalue = 98

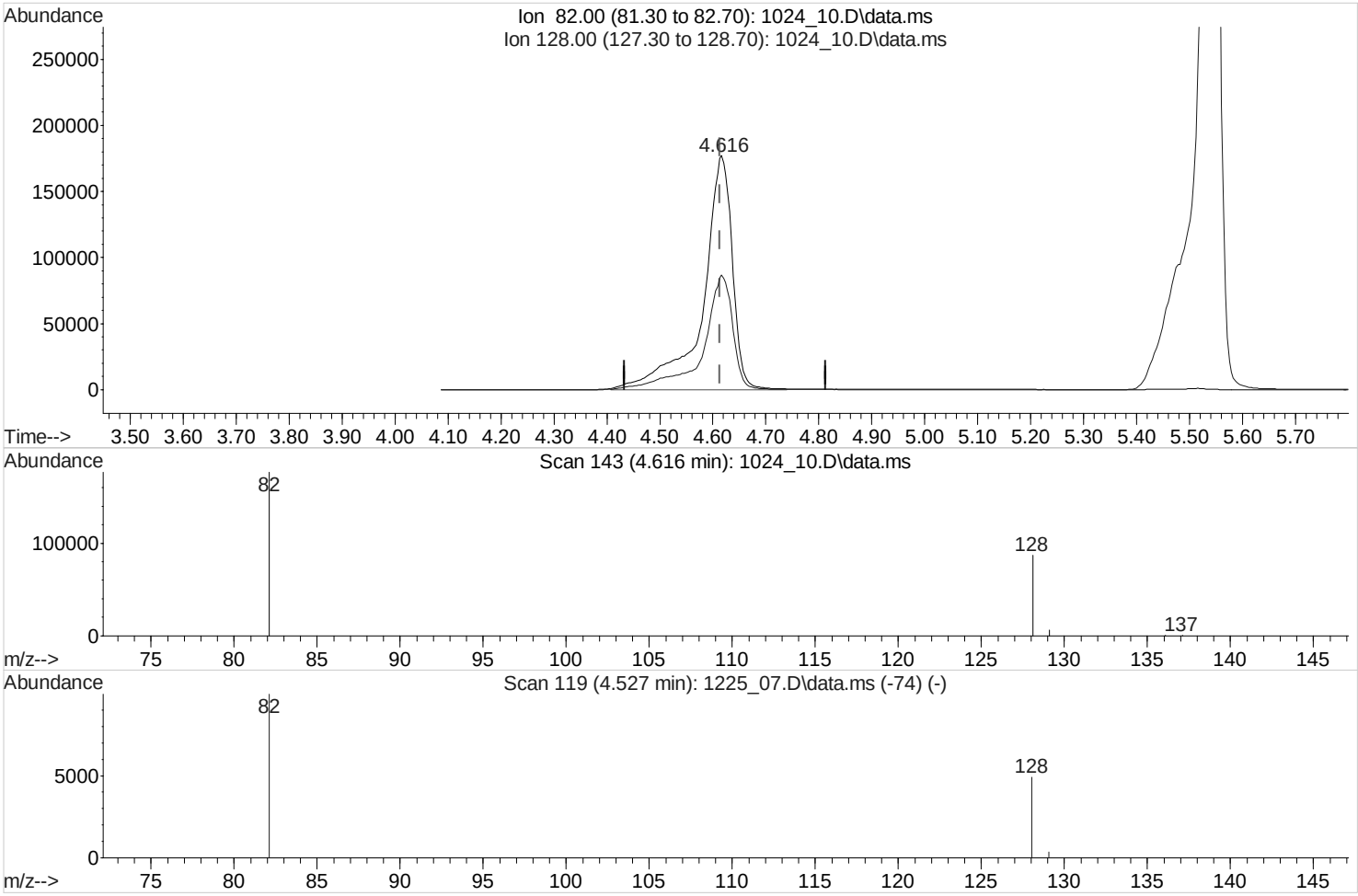
response 678297

Ion	Exp%	Act%
82.00	100	100
128.00	47.50	48.93
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\DATA\102414\
Data File : 1024 10.D
Acq On    : 24 Oct 2014  11:11 am
Operator  : 282
Sample    : STD SIMLVI 1000 PPB 14J10795
Misc      : sim calibration
ALS Vial  : 10   Sample Multiplier: 1
InstName  : BNAMS13

Quant Time: Oct 24 12:03:19 2014
Quant Method : C:\msdchem\1\METHODS\SS13J24N.M
Quant Title  : 8270 BNA
QLast Update : Fri Oct 24 12:03:12 2014
Response via : Initial Calibration
```



TIC: 1024_10.D\data.ms

(2) Nitrobenzene-d5 (S)

4.616min (+0.004) 965.3360823 ppb m

response 690175

Ion	Exp%	Act%
82.00	100	100
128.00	47.50	48.93
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\102414\
Data File : 1024 11.D
Acq On : 24 Oct 2014 11:33 am
Operator : 282
Sample : STD SIMLVI 2000 PPB 14J10795
Misc : sim calibration
ALS Vial : 11 Sample Multiplier: 1
InstName : BNAMS13

Quant Time: Oct 24 12:04:16 2014
Quant Method : C:\msdchem\1\METHODS\SS13J24N.M
Quant Title : 8270 BNA
QLast Update : Fri Oct 24 12:04:03 2014
Response via : Initial Calibration

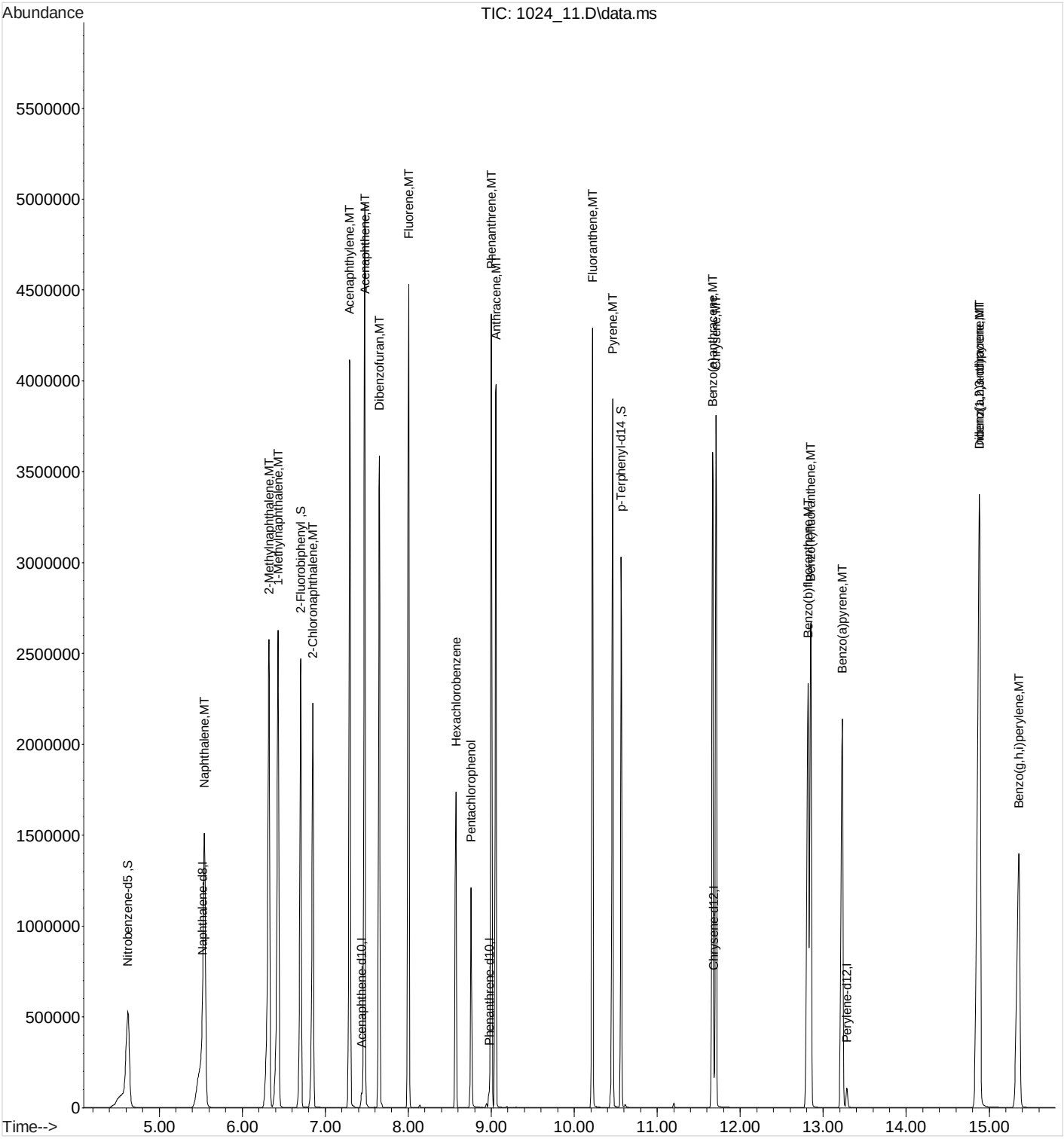
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) Naphthalene-d8	5.519	136	83652	40.0000000 ppb	0.00
6) Acenaphthene-d10	7.437	164	45136	40.0000000 ppb	0.00
13) Phenanthrene-d10	8.974	188	77872	40.0000000 ppb	0.00
19) Chrysene-d12	11.680	240	83795	40.0000000 ppb	0.00
24) Perylene-d12	13.284	264	111522	40.0000000 ppb	0.00
System Monitoring Compounds					
2) Nitrobenzene-d5	4.620	82	1331121m	1882.7496696 ppb	0.00
Spiked Amount 2.000	Range 45 - 170		Recovery	= 94137.48%#	
7) 2-Fluorobiphenyl	6.704	172	2383796	1518.9350410 ppb	0.00
Spiked Amount 2.000	Range 58 - 153		Recovery	= 75946.75%#	
21) p-Terphenyl-d14	10.566	244	2341390	1172.2908719 ppb	0.00
Spiked Amount 2.000	Range 53 - 156		Recovery	= 58614.54%#	
Target Compounds					Qvalue
3) Naphthalene	5.542	128	3657023	1531.2839057 ppb	99
4) 2-Methylnaphthalene	6.321	142	2403382	1616.4972687 ppb	99
5) 1-Methylnaphthalene	6.430	142	2167629	1578.0799750 ppb	100
8) 2-Chloronaphthalene	6.853	162	2193187	1561.1051214 ppb	97
9) Acenaphthylene	7.294	152	3584928	1643.4624758 ppb	99
10) Acenaphthene	7.475	153	2111502	1524.3485640 ppb	98
11) Dibenzofuran	7.652	168	2756220	1479.4615386 ppb	96
12) Fluorene	8.004	166	2484931	1607.6116110 ppb	97
14) Hexachlorobenzene	8.573	284	712655	1493.8448004 ppb	96
15) Pentachlorophenol	8.756	266	446922	2223.5540378 ppb	98
16) Phenanthrene	9.002	178	3259652	1421.1321397 ppb	97
17) Anthracene	9.058	178	3267051	1499.3213395 ppb	98
18) Fluoranthene	10.219	202	3268922	1474.2694237 ppb	99
20) Pyrene	10.461	202	2965964	1169.8623373 ppb	99
22) Benzo(a)anthracene	11.666	228	2901258	1190.6443230 ppb	99
23) Chrysene	11.707	228	2532821	1070.4970677 ppb	97
25) Benzo(b)fluoranthene	12.816	252	3234842	1012.6983465 ppb	99
26) Benzo(k)fluoranthene	12.848	252	2702391	879.8352491 ppb	99
27) Benzo(a)pyrene	13.230	252	2750737	1035.3821796 ppb	97
28) Indeno(1,2,3-cd)pyrene	14.879	276	2856897	796.8983372 ppb	93
29) Dibenz(a,h)anthracene	14.879	278	2500438	825.9500581 ppb	91
30) Benzo(g,h,i)perylene	15.356	276	2163912	702.5471350 ppb	99

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\102414\
Data File : 1024 11.D
Acq On : 24 Oct 2014 11:33 am
Operator : 282
Sample : STD SIMLVI 2000 PPB 14J10795
Misc : sim calibration
ALS Vial : 11 Sample Multiplier: 1
InstName : BNAMS13

Quant Time: Oct 24 12:04:16 2014
Quant Method : C:\msdchem\1\METHODS\SS13J24N.M
Quant Title : 8270 BNA
QLast Update : Fri Oct 24 12:04:03 2014
Response via : Initial Calibration



Quantitation Report (Qedit)

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Data Path : C:\msdchem\1\DATA\102414\
Data File : 1024 11.D
Acq On    : 24 Oct 2014  11:33 am
Operator  : 282
Sample    : STD SIMLVI 2000 PPB 14J10795
Misc      : sim calibration
ALS Vial  : 11   Sample Multiplier: 1
InstName  : BNAMS13

Quant Time: Oct 24 12:04:09 2014
Quant Method : C:\msdchem\1\METHODS\SS13J24N.M
Quant Title  : 8270 BNA
QLast Update : Fri Oct 24 12:04:03 2014
Response via : Initial Calibration
```
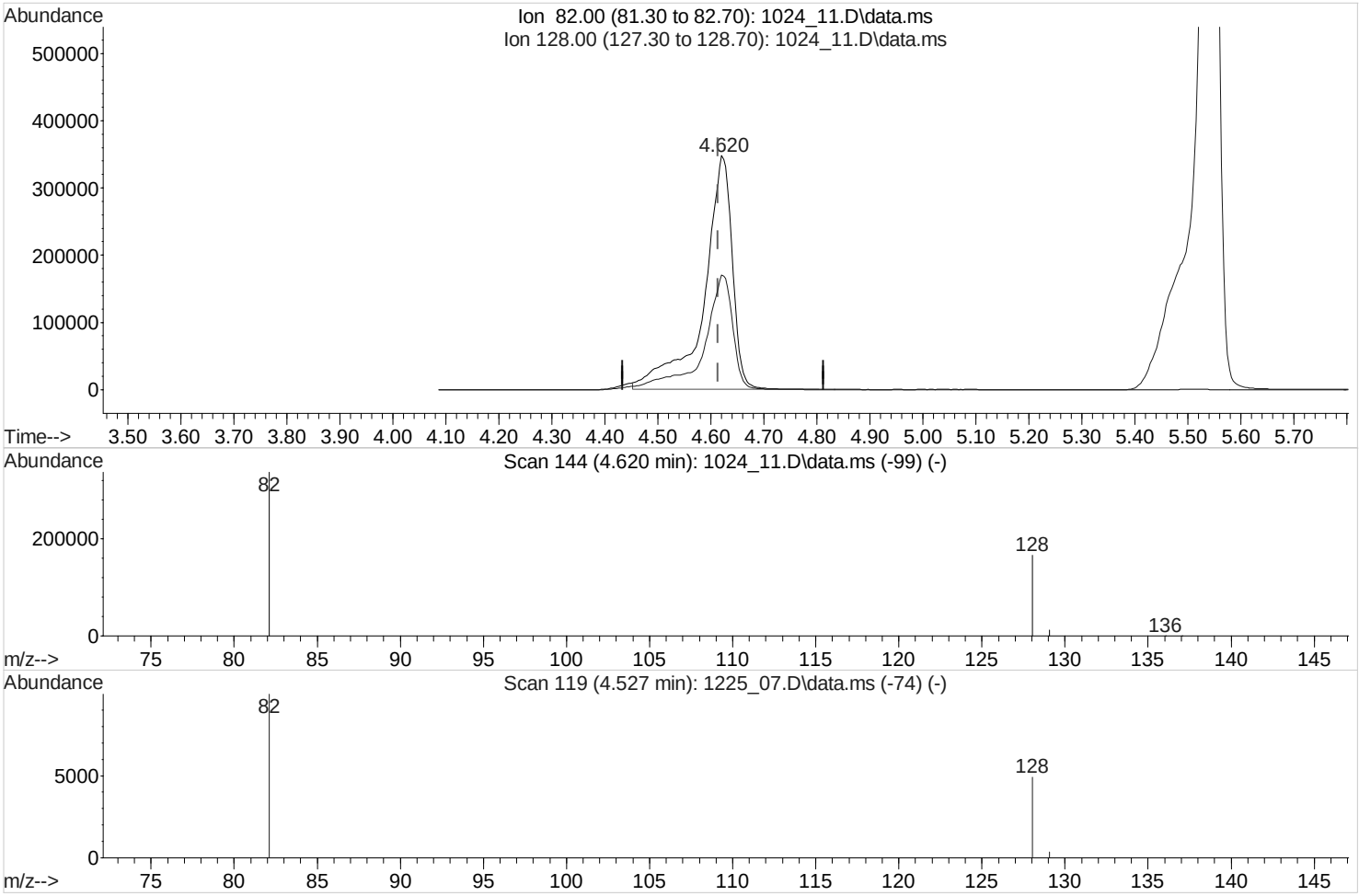



TIC: 1024_11.D\data.ms

(2) Nitrobenzene-d5 (S)

4.620min (+0.008) 1848.3922579 ppb

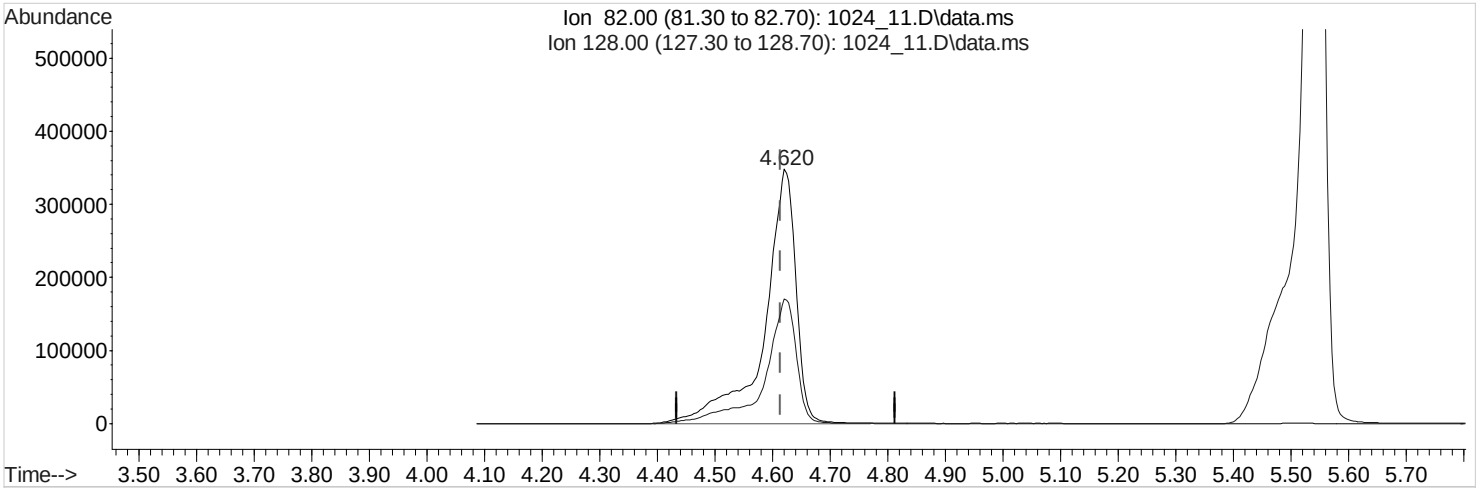
Qvalue = 98

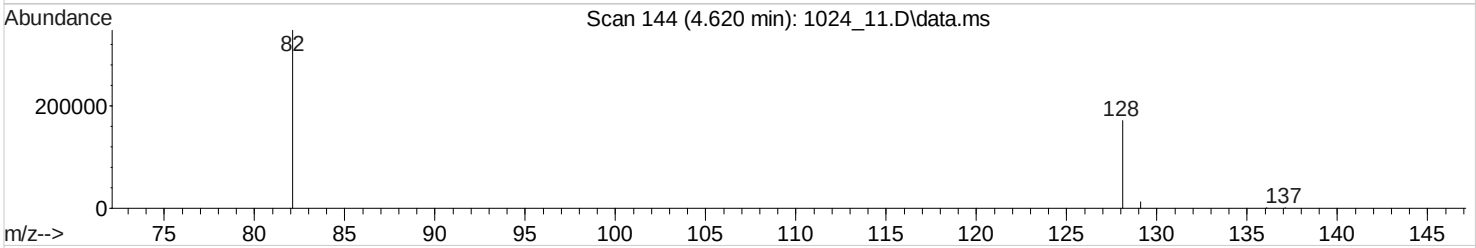
response 1306830

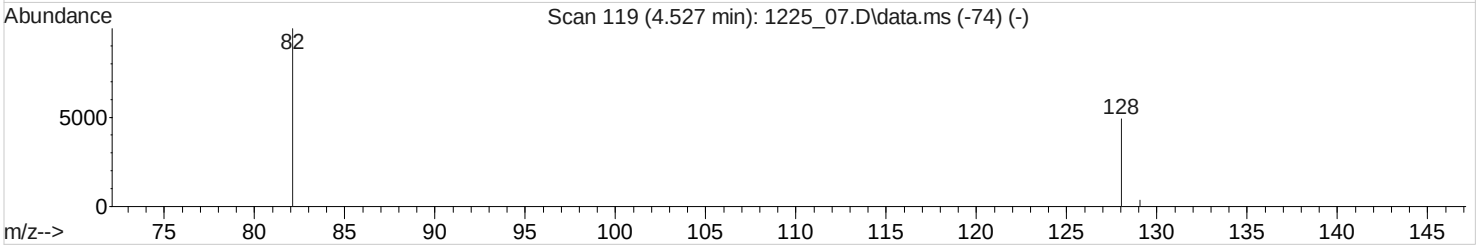
Ion	Exp%	Act%
82.00	100	100
128.00	47.50	48.95
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\DATA\102414\
Data File : 1024 11.D
Acq On    : 24 Oct 2014  11:33 am
Operator  : 282
Sample    : STD SIMLVI 2000 PPB 14J10795
Misc      : sim calibration
ALS Vial  : 11   Sample Multiplier: 1
InstName  : BNAMS13

Quant Time: Oct 24 12:04:09 2014
Quant Method : C:\msdchem\1\METHODS\SS13J24N.M
Quant Title  : 8270 BNA
QLast Update : Fri Oct 24 12:04:03 2014
Response via : Initial Calibration
```







TIC: 1024_11.D\data.ms

(2) Nitrobenzene-d5 (S)

4.620min (+0.008) 1882.7496696 ppb m

response 1331121

Ion	Exp%	Act%
82.00	100	100
128.00	47.50	48.95
0.00	0.00	0.00
0.00	0.00	0.00

L72280

H030

CHAIN-OF-CUSTODY RECORD

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

URS
8181 East Tufts Avenue
Denver, CO 80237
Phone: (303) 694-2770
Fax: (303) 694-3946

LAB: ESC

JDM 10/24

VOCs & GRO SHIPPED IN COOLER #1.

TESTS / CONTAINER TYPE AND PRESERVATIVE

Sample ID	Date	Time	Matrix	Total Containers	~~3 X 40ml V Amb~~	3 X 40ml V Amb	~~2 X 40ml V Amb~~	1 X 100ml G Amb	1 X 100ml G Amb	1 X 500ml P	1 X 500ml P	Remarks
H-TU904-GW-03-NT01	10/23/14	1345	GW	~~30~~ 18	X	X	X	X	X	X		MS/MSD 01
H-TU904-GW-03-ND01	↓	↓	GW	3							X	MS/MSD 02
~~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

COOLER #3

RELINQUISHED BY	RECEIVED BY	RELINQUISHED BY	RECEIVED BY
Signature	Signature	Signature	Signature
Printed Name Jon Mallonee	Printed Name	Printed Name	Printed Name Dakota Beasley
Firm URS	Firm	Firm	Firm ESC
Date/Time 10/24/14 1445	Date/Time	Date/Time	Date/Time 10-25-14 0900

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

M3 3.1 COC

L2 21 cont. 61944943962

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: Dakota Busby

Dakota 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 - 15:54

YOUR LAB OF CHOICE

Account: URSTAZ - URS Corporation - Tucson AZ - 1088308

Login #	**L729800**	Receive Date: 10/25/2014	TSR: Pam Langford
Template #		Entered: 10/25/2014	By:
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
L729800-01		**H-TU904-GW03-NT01**	**10/23/2014 13:45**	**Site:**	**Est. Due Date*: 10/31/2014 - R5**	
			Sample Description: Holloman AFB			
			Sample Comments: QC4/EDD. MS/MSD			
GW	8270	SVOCs		PPBDOD	8270C	$ 110.00
GW	8270PAHSIM	PAHs by SIM		PPBDOD	8270 C-SIM	$ 60.00
GW	AGG	Silver by ICPMS		PPBDOD	6020	$ 85.00
GW	ALICP	Aluminum		PPBDOD	6010B	$ 0.00
GW	ASG	Arsenic by ICPMS		PPBDOD	6020	$ 0.00
GW	BAICP	Barium		PPBDOD	6010B	$ 0.00
GW	BEICP	Beryllium		PPBDOD	6010B	$ 0.00
GW	CDG	Cadmium by ICPMS		PPBDOD	6020	$ 0.00
GW	COG	Cobalt by ICPMS		PPBDOD	6020	$ 0.00
GW	CRG	Chromium by ICPMS		PPBDOD	6020	$ 0.00
GW	CUICP	Copper		PPBDOD	6010B	$ 0.00
GW	DROOROLVI	Diesel and Oil Ranges by LVI		PPBDOD	8015	$ 28.00
GW	EDD	Electronic Data Deliverable				$ 0.00
GW	HG	Mercury		PPBDOD	7470A	$ 0.00
GW	MNICP	Manganese		PPBDOD	6010B	$ 0.00
GW	NIG	Nickel by ICPMS		PPBDOD	6020	$ 0.00
GW	PBG	Lead by ICPMS		PPBDOD	6020	$ 0.00
GW	QC4	QC Package				$ 0.00
GW	SBG	Antimony by ICPMS		PPBDOD	6020	$ 0.00
GW	SEG	Selenium by ICPMS		PPBDOD	6020	$ 0.00
GW	TLG	Thallium by ICPMS		PPBDOD	6020	$ 0.00
GW	VICP	Vanadium		PPBDOD	6010B	$ 0.00
GW	ZNICP	Zinc		PPBDOD	6010B	$ 0.00
Misc	DISPOSAL	Sample Disposal Charge				$ 0.00
Misc	ENERGY	Energy Surcharge				$ 0.00
Misc	HARDCOPY	Hardcopy Report Charge				$ 0.00
Misc	SHIPPING	Inbound Transport Charge				$ 0.00

L729800-02	H-TU904-GW03-ND01	10/23/2014 13:45	Site:	Est. Due Date*: 10/31/2014 - R5
		Sample Description: Holloman AFB		
		Sample Comments: Field Filtered. QC4/EDD. MS/MSD		

GW	AGDG	Silver,Dissolved by ICPMS	PPBDOD	6020	$ 85.00
GW	ALDICP	Aluminum,Dissolved	PPBDOD	6010B	$ 0.00
GW	ASDG	Arsenic,Diss. by ICPMS	PPBDOD	6020	$ 0.00
GW	BADICP	Barium,Dissolved	PPBDOD	6010B	$ 0.00
GW	BEDICP	Beryllium,Dissolved	PPBDOD	6010B	$ 0.00
GW	CDDG	Cadmium,Dissolved by ICPMS	PPBDOD	6020	$ 0.00
GW	CODG	Cobalt,Dissolved by ICPMS	PPBDOD	6020	$ 0.00
GW	CRDG	Chromium,Diss. by ICPMS	PPBDOD	6020	$ 0.00
GW	CUDICP	Copper,Dissolved	PPBDOD	6010B	$ 0.00
GW	EDD	Electronic Data Deliverable			$ 0.00
GW	HGD	Mercury,Dissolved	PPBDOD	7470A	$ 0.00
GW	MNDICP	Manganese,Dissolved	PPBDOD	6010B	$ 0.00
GW	NIDG	Nickel,Dissolved by ICPMS	PPBDOD	6020	$ 0.00
GW	PBDG	Lead,Dissolved by ICPMS	PPBDOD	6020	$ 0.00
GW	QC4	QC Package			$ 0.00
GW	SBDG	Antimony,Diss. by ICPMS	PPBDOD	6020	$ 0.00
GW	SEDG	Selenium,Diss. by ICPMS	PPBDOD	6020	$ 0.00
GW	TLDG	Thallium,Diss. by ICPMS	PPBDOD	6020	$ 0.00
GW	VDICP	Vanadium,Dissolved	PPBDOD	6010B	$ 0.00
GW	ZNDICP	Zinc,Dissolved	PPBDOD	6010B	$ 0.00
Misc	MTLPREP	Metals Prep Fee per Set			$ 0.00

Information Only - Not An Invoice - Do Not Pay! Total: $ 368.00

*** Due Date listed is an estimate based on average workloads. Please communicate required dates to your TSR.**