

**LONGHORN ARMY
AMMUNITION PLANT
KARNACK, TEXAS**

**ADMINISTRATIVE
RECORD**

Volume 2

2018

Bate Stamp Numbers

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Prepared for

**Department of the Army
Longhorn Army Ammunition Plant**

1976 – 2018

***LONGHORN ARMY AMMUNITION PLANT
KARNACK, TEXAS
ADMINISTRATIVE RECORD – CHRONOLOGICAL INDEX***

VOLUME 2

2018

- A. Title: Report (cont'd) – Addendum 1 to the Final Report for the In Situ Microbial Reactor Enhanced Bioremediation Field Test (Appendix D)
Author(s): U.S. Army Aberdeen Test Center
Recipient:
Date: August 2015
Bate Stamp: 00834177 – 00836026

APPENDIX D. LABORATORY REPORTS

Laboratory Report Number: L12070658

Gene Fabian
Aberdeen Test Center
US Army Aberdeen Center
Aberdeen Proving Ground, MD 21005

Please find enclosed the analytical results for the samples you submitted to Microbac Laboratories. Review and compilation of your report was completed by Microbac's Ohio Valley Division (OVD). If you have any questions, comments, or require further assistance regarding this report, please contact your service representative listed below.

Laboratory Contact:
Kathy Albertson – Team Chemist/Data Specialist
(740) 373-4071
Kathy.Albertson@microbac.com

I certify that all test results meet all of the requirements of the accrediting authority listed below. All results for soil samples are reported on a 'dry-weight' basis unless specified otherwise. Analytical results for water and wastes are reported on a 'as received' basis unless specified otherwise. A statement of uncertainty for each analysis is available upon request. This laboratory report shall not be reproduced, except in full, without the written approval of Microbac Laboratories. The reported results are related only to the samples analyzed as received.

This report was certified on August 08 2012



David Vandenberg – Managing Director

State of Origin: TX
Accrediting Authority: Texas Commission on Environmental Quality ID:T104704252-07-TX
QAPP: Microbac OVD



Lab Report #: L12070658

Lab Project #: 3083.001

Project Name: Longhorn AAP

Lab Contact: Kathy Albertson

Record of Sample Receipt and Inspection

Comments/Discrepancies

This is the record of the shipment conditions and the inspection records for the samples received and reported as a sample delivery group (SDG). All of the samples were inspected and observed to conform to our receipt policies, except as noted below.

The following discrepancies were noted:

Discrepancy	Resolution
MW-58, received 1 vial broken. The other 2 vials are ok. JKS	

Coolers

Cooler #	Temperature Gun	Temperature	COC #	Airbill #
0016980	G	2.0		795764463440
0013621	G	1.0		1015923822860004575000795764463439
0017622	G	1.0		1002239502860004575000873013165590
0015232	G	4.0		3457500411000007957644634286810

Inspection Checklist

#	Question	Result
1	Were shipping coolers sealed?	Yes
2	Were custody seals intact?	Yes
3	Were cooler temperatures in range of 0-6?	Yes
4	Was ice present?	Yes
5	Were COC's received/information complete/signed and dated?	Yes
6	Were sample containers intact and match COC?	No
7	Were sample labels intact and match COC?	Yes
8	Were the correct containers and volumes received?	Yes
9	Were samples received within EPA hold times?	Yes
10	Were correct preservatives used? (water only)	Yes
11	Were pH ranges acceptable? (voa's excluded)	NA
12	Were VOA samples free of headspace (less than 6mm)?	Yes



Lab Report #: L12070658

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Samples Received

Client ID	Laboratory ID	Date Collected	Date Received
MW-3-1	L12070658-01	07/15/2012 10:15	07/20/2012 11:00
MW-3-2	L12070658-02	07/15/2012 10:38	07/20/2012 11:00
MW-3-2MS	L12070658-03	07/15/2012 12:20	07/20/2012 11:00
MW-3-2MSD	L12070658-04	07/15/2012 12:10	07/20/2012 11:00
TRIP BLANK 15JULY2012	L12070658-05	07/15/2012 00:01	07/20/2012 11:00
FIELD BLANK 15JULY2012	L12070658-06	07/15/2012 10:50	07/20/2012 11:00
MW-3-1-D	L12070658-07	07/15/2012 10:30	07/20/2012 11:00
MW-58	L12070658-08	07/15/2012 14:10	07/20/2012 11:00
WW-03	L12070658-09	07/15/2012 15:10	07/20/2012 11:00
35B WW06	L12070658-10	07/16/2012 09:25	07/20/2012 11:00
FIELD BLANK 16JULY2012	L12070658-11	07/16/2012 09:20	07/20/2012 11:00
MW3-3	L12070658-12	07/15/2012 13:25	07/20/2012 11:00
TRIP BLANK 16JULY2012	L12070658-13	07/16/2012 00:01	07/20/2012 11:00
35B WW05	L12070658-14	07/16/2012 10:45	07/20/2012 11:00
MW1-1	L12070658-15	07/16/2012 12:00	07/20/2012 11:00
MW1-2	L12070658-16	07/16/2012 13:20	07/20/2012 11:00
MW1-3	L12070658-17	07/16/2012 14:00	07/20/2012 11:00
35B WW08	L12070658-18	07/16/2012 15:00	07/20/2012 11:00
35B WW09	L12070658-19	07/16/2012 15:50	07/20/2012 11:00
MW2-1	L12070658-20	07/17/2012 08:55	07/20/2012 11:00
TRIP BLANK 17JULY2012	L12070658-21	07/17/2012 00:01	07/20/2012 11:00
FIELD BLANK 17JULY2012	L12070658-22	07/17/2012 08:35	07/20/2012 11:00
MW2-2	L12070658-23	07/17/2012 09:45	07/20/2012 11:00
MW2-2D	L12070658-24	07/17/2012 10:00	07/20/2012 11:00
MW2-3	L12070658-25	07/17/2012 10:55	07/20/2012 11:00
35B WW01	L12070658-26	07/17/2012 12:40	07/20/2012 11:00
35B WW04	L12070658-27	07/17/2012 13:45	07/20/2012 11:00
35B SW-1	L12070658-28	07/17/2012 14:30	07/20/2012 11:00
35B SW-2	L12070658-29	07/17/2012 14:45	07/20/2012 11:00
35B WW-11	L12070658-30	07/17/2012 15:25	07/20/2012 11:00
TRIP BLANK 18JULY2012	L12070658-31	07/18/2012 00:01	07/20/2012 11:00
FIELD BLANK 18JULY2012	L12070658-32	07/18/2012 08:30	07/20/2012 11:00
MW4-1	L12070658-33	07/18/2012 08:45	07/20/2012 11:00
MW4-2	L12070658-34	07/18/2012 10:45	07/20/2012 11:00
MW4-3	L12070658-35	07/18/2012 13:00	07/20/2012 11:00
35B WW14	L12070658-36	07/18/2012 14:25	07/20/2012 11:00
35B WW07	L12070658-37	07/18/2012 15:40	07/20/2012 11:00

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Lab Report #: L12070658

Lab Project #: 3083.001

Project Name: Longhorn AAP

Lab Contact: Kathy Albertson

Microbac REPORT L12070658
PREPARED FOR Aberdeen Test Center
WORK ID:

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1.0 Summary Data

1.1 Narratives



Login Number: L12070658
Department: Volatiles
Analyst: Anthony Canter

METHOD

Preparation SW-846 5030C/5035A

Analysis SW-846 8260B

HOLDING TIMES

Sample Preparation: All holding times were met.

Sample Analysis: All holding times were met.

PREPARATION

Sample preparation proceeded normally.

CALIBRATION

Initial Calibration: For all compounds that yielded a %RSD greater than 15%, linear or higher order equations were applied. All acceptance criteria were met.

Alternate Source Standards: The percent difference was out of range for the following analytes: Dichlorodifluoromethane, Vinyl Acetate, 2-Chloroethyl Vinyl Ether. Please see the applicable QC report for a detailed presentation of the failures.

Continuing Calibration and Tune: Recoveries out of range were observed for the following analytes: 2-Chloroethyl Vinyl Ether. Please see the applicable QC report for a detailed presentation of the failures.

BATCH QA/QC

Method Blank: Analytes were detected above the applicable reporting limit for the following analytes: Dibromofluoromethane. Please see the applicable QC report for a detailed presentation of the failures.

Laboratory Control Sample: Recoveries out of range were observed for the following analytes: 1,1,2,2-Tetrachloroethane, Chloromethane, Dichlorodifluoromethane, 2,2-Dichloropropane, trans-1,3-Dichloropropene, 2-Chloroethyl Vinyl Ether, Acetone, Hexachlorobutadiene, Isopropylbenzene, n-Butylbenzene, sec-Butylbenzene. Please see the applicable QC report for a detailed presentation of the failures.

Matrix Spikes: Recoveries out of range were observed for the following analytes: n-Butylbenzene, 2-Chloroethyl vinyl ether, Isopropylbenzene, Tetrachloroethene. Please see the applicable QC report for a detailed presentation of the failures.

SAMPLES

Internal Standards: QC sample WG404130-04 that yielded an IS outlier for 1,4-dichlorobenzene-d4 was a 624 method blank and was not applicable to this SDG, therefore, corrective action not performed.

Surrogates: Recoveries out of range were observed for the following analytes: Dibromofluoromethane, 4-Bromofluorobenzene. Please see the applicable QC report for a detailed presentation of the failures.

Other: None.

Manual Integration Reason Codes

Reason #1: Data System Fails to Select Correct Peak. In some cases the chromatography system selects and integrates the 'wrong peak'. In this case the analyst must correct the selection and force the system to integrate the proper peak. Other times the system may miss the peak completely.

Reason #2: Data System Splits the Peak Incorrectly or Integrates a False Peak as a Rider Peak. This phenomena is common at low concentrations where the signal:noise ratio is low. A single compound (peak) is incorrectly split into multiple peaks or integrated as a main peak with one or more rider peaks resulting in low area

counts for the target compound.

Reason #3: Improperly Integrated Isomers and/or coeluting compounds. This system often fails to distinguish coeluting compounds and or isomers. The integration areas and concentrations are wrong, and they must be corrected by manual integration. Prime examples are benzo(k)fluoranthene and benzo(b)fluoranthene which are often unresolved and integrated improperly when both are present at low concentrations in standards or samples.

Reason #4: System Establishes Incorrect Baseline. There are numerous situations in chromatography where the system establishes the baseline incorrectly. Some baseline errors will be obvious to the analyst and should be corrected via manual procedures.

Reason #5: Miscellaneous. Other situations involving integration errors may require in-depth review and technical judgment. These cases should be brought to the attention of the laboratory management. If the form of manual integration is not clearly covered by these four cases, then review and approval by the Managing Director or the QAO will be required.

I certify that this data package is in compliance with the terms and conditions agreed to by the client and Microbac Laboratories Inc., both technically and for completeness, except for the conditions noted above. Release of the data contained in this hard copy data package has been authorized by the Laboratory Manager or designated person, as verified by the following signature.

Narrative ID: 51048

Approved By: Michael Albertson





Login Number: L12070658

Department: Metals

Analyst: Kim Rhodes

Analyst #2: Qin Xu

METHOD

Preparation: SW-846 3005

Analysis: SW-846 6010

HOLDING TIMES

Sample Preparation: All holding times were met.

Sample Analysis: All holding times were met.

PREPARATION

Sample preparation proceeded normally.

CALIBRATION

Initial Calibration: All acceptance criteria were met.

Alternate Source Standards: All acceptance criteria were met.

Interference Check Standards: All acceptance criteria were met.

Continuing Calibration Verification: All acceptance criteria were met.

Continuing Calibration Blank: All acceptance criteria were met.

BATCH QA/QC

Method Blank: All acceptance criteria were met.

Laboratory Control Sample: All acceptance criteria were met.

Serial Dilution/Post Digestion Spikes: WG404492 - All acceptance criteria were met.

WG404484 - Due to analyst failure to add spiking solution to the intended post digestion spike sample, the post digestion spike was reanalyzed on a later calibration

WG404495 - All acceptance criteria were met.

Matrix Spikes: WG404484 - Sample 02 was chosen by the client for MS/MSD analysis. Samples 03(MS) and 04(MSD) yielded noncompliant recoveries for two analytes.

SAMPLES

Samples: WG404492 - Client sample 30 required a dilution analysis in order to obtain a result for sodium within the linear range.

Narrative ID: 50615

Approved By: Sheri Pfalzgraf

A handwritten signature in black ink that reads "Sheri L. Pfalzgraf".



Login Number: L12070658
Department: Metals
Analyst: Ji Hu

METHOD

Preparation: SW-846 3015

Analysis: SW-846 6020

HOLDING TIMES

Sample Preparation: All holding times were met.

Sample Analysis: All holding times were met.

PREPARATION

Sample preparation proceeded normally.

CALIBRATION

Initial Calibration: All acceptance criteria were met.

Alternate Source Standards: All acceptance criteria were met.

Interference Check Standards: All acceptance criteria were met.

Continuing Calibration: WG404557 - Due to continuing calibration verification failure for manganese on 26-July-2012 at 14:51, all client samples were reanalyzed on a later calibration which was compliant for manganese.

Continuing Calibration Blank: All acceptance criteria were met.

Low Level Check: All acceptance criteria were met.

BATCH QA/QC

Method Blank: All acceptance criteria were met.

Laboratory Control Sample: All acceptance criteria were met.

Serial Dilution/Post Digestion Spikes: WG404557 - All acceptance criteria were met.

WG404831 - All acceptance criteria were met.

WG404837 - All acceptance criteria were met.

Matrix Spikes: WG404837 - Sample 02 was chosen by the client for MS/MSD analysis. Samples 03(MS) and 04(MSD) yielded noncompliant recoveries for six analytes.

SAMPLES

Samples: WG404557 - Due to high levels of nontarget analytes, client samples 23 through 30 and 33 through 37 were analyzed at dilutions for all analytes.

WG404831 - Due to high levels of nontarget analytes, all client samples were analyzed at dilutions for all analytes.

WG404837 - Due to high levels of nontarget analytes, all client samples were analyzed at dilutions for all analytes.

Narrative ID: 50655

Approved By: Sheri Pfalzgraf

A handwritten signature in black ink that reads "Sheri L. Pfalzgraf".

1.2 Certificate of Analysis

Certificate of Analysis

Sample #: L12070658-01	PrePrep Method: N/A	Instrument: HPMS11
Client ID: MW-3-1	Prep Method: 5030B/5030C/5035A	Prep Date: N/A
Matrix: Water	Analytical Method: 8260B	Cal Date: 05/03/2012 21:37
Workgroup #: WG404020	Analyst: FJB	Run Date: 07/20/2012 23:13
Collect Date: 07/15/2012 10:15	Dilution: 1	File ID: 11M85456
Sample Tag: 01	Units: ug/L	

Analyte	CAS #	Result	Qual	RL	MDL
Acetone	67-64-1		ND	10.0	2.50
Benzene	71-43-2		ND	1.00	0.125
Bromobenzene	108-86-1		ND	1.00	0.125
Bromochloromethane	74-97-5		ND	1.00	0.200
Bromodichloromethane	75-27-4		ND	1.00	0.250
Bromoform	75-25-2		ND	1.00	0.500
Bromomethane	74-83-9		ND	1.00	0.500
2-Butanone	78-93-3		ND	10.0	2.50
n-Butylbenzene	104-51-8		ND	1.00	0.250
sec-Butylbenzene	135-98-8		ND	1.00	0.250
tert-Butylbenzene	98-06-6		ND	1.00	0.250
Carbon disulfide	75-15-0	0.846	J	1.00	0.500
Carbon tetrachloride	56-23-5		ND	1.00	0.250
Chlorobenzene	108-90-7		ND	1.00	0.125
Chlorodibromomethane	124-48-1		ND	1.00	0.250
Chloroethane	75-00-3		ND	1.00	0.500
2-Chloroethyl vinyl ether	110-75-8		ND	10.0	2.00
Chloroform	67-66-3		ND	1.00	0.125
Chloromethane	74-87-3		ND	1.00	0.500
2-Chlorotoluene	95-49-8		ND	1.00	0.125
4-Chlorotoluene	106-43-4		ND	1.00	0.250
1,2-Dibromo-3-chloropropane	96-12-8		ND	5.00	1.00
1,2-Dibromoethane	106-93-4		ND	1.00	0.250
Dibromomethane	74-95-3		ND	1.00	0.250
1,2-Dichlorobenzene	95-50-1		ND	1.00	0.125
1,3-Dichlorobenzene	541-73-1		ND	1.00	0.250
1,4-Dichlorobenzene	106-46-7		ND	1.00	0.125
Dichlorodifluoromethane	75-71-8		ND	1.00	0.250
1,1-Dichloroethane	75-34-3		ND	1.00	0.125
1,2-Dichloroethane	107-06-2		ND	1.00	0.250
1,1-Dichloroethene	75-35-4		ND	1.00	0.500
cis-1,2-Dichloroethene	156-59-2		ND	1.00	0.250
trans-1,2-Dichloroethene	156-60-5		ND	1.00	0.250

Certificate of Analysis

Analyte	CAS #	Result	Qual	RL	MDL
1,2-Dichloropropane	78-87-5		ND	1.00	0.200
1,3-Dichloropropane	142-28-9		ND	1.00	0.200
2,2-Dichloropropane	594-20-7		ND	1.00	0.250
cis-1,3-Dichloropropene	10061-01-5		ND	1.00	0.250
trans-1,3-Dichloropropene	10061-02-6		ND	1.00	0.500
1,1-Dichloropropene	563-58-6		ND	1.00	0.250
Ethylbenzene	100-41-4		ND	1.00	0.250
2-Hexanone	591-78-6		ND	10.0	2.50
Hexachlorobutadiene	87-68-3		ND	1.00	0.250
Isopropylbenzene	98-82-8		ND	1.00	0.250
p-Isopropyltoluene	99-87-6	3.90		1.00	0.250
4-Methyl-2-pentanone	108-10-1		ND	10.0	2.50
Methylene chloride	75-09-2		ND	5.00	0.250
Naphthalene	91-20-3		ND	1.00	0.200
n-Propylbenzene	103-65-1	0.240	J	1.00	0.125
Styrene	100-42-5		ND	1.00	0.125
1,1,1,2-Tetrachloroethane	630-20-6		ND	1.00	0.250
1,1,2,2-Tetrachloroethane	79-34-5		ND	1.00	0.200
Tetrachloroethene	127-18-4	30.1		1.00	0.250
Toluene	108-88-3		ND	1.00	0.250
1,2,3-Trichlorobenzene	87-61-6		ND	1.00	0.150
1,2,4-Trichlorobenzene	120-82-1		ND	1.00	0.200
1,1,1-Trichloroethane	71-55-6		ND	1.00	0.250
1,1,2-Trichloroethane	79-00-5		ND	1.00	0.250
Trichloroethene	79-01-6	2.42		1.00	0.250
Trichlorofluoromethane	75-69-4		ND	1.00	0.250
1,2,3-Trichloropropane	96-18-4		ND	1.00	0.500
1,2,4-Trimethylbenzene	95-63-6		ND	1.00	0.250
1,3,5-Trimethylbenzene	108-67-8		ND	1.00	0.250
Vinyl acetate	108-05-4		ND	10.0	2.50
Vinyl chloride	75-01-4		ND	1.00	0.250
o-Xylene	95-47-6		ND	1.00	0.250
m-,p-Xylene	179601-23-1		ND	1.00	0.500
Surrogate	Recovery	Lower Limit	Upper Limit	Q	
Dibromofluoromethane	85.3	86	118	*	
1,2-Dichloroethane-d4	85.4	80	120		
Toluene-d8	104	88	110		
4-Bromofluorobenzene	113	86	115		
*	Surrogate or spike compound out of range				

Certificate of Analysis

J	Estimated value; the analyte concentration was less than the RL/LOQ.
ND	Not detected at or above the reporting limit (RL).

Sample #: L12070658-01	PrePrep Method: N/A	Instrument: ICP-THERMO2
Client ID: MW-3-1	Prep Method: 3005A	Prep Date: 07/24/2012 06:22
Matrix: Water	Analytical Method: 6010B	Cal Date: 07/25/2012 13:34
Workgroup #: WG404484	Analyst: KHR	Run Date: 07/25/2012 16:12
Collect Date: 07/15/2012 10:15	Dilution: 1	File ID: T2.072512.161254
Sample Tag: 01	Units: mg/L	

Analyte	CAS #	Result	Qual	RL	MDL
Aluminum, Total	7429-90-5	0.212		0.100	0.0500
Calcium, Total	7440-70-2	14.2		0.200	0.100
Iron, Total	7439-89-6	0.270		0.100	0.0500
Magnesium, Total	7439-95-4	7.10		0.500	0.250
Potassium, Total	7440-09-7	24.6		1.00	0.500
Sodium, Total	7440-23-5	96.0		0.500	0.250
Strontium, Total	7440-24-6	0.930		0.0100	0.00500

Sample #: L12070658-01	PrePrep Method: N/A	Instrument: ICP-MS2
Client ID: MW-3-1	Prep Method: 3015	Prep Date: 07/23/2012 13:44
Matrix: Water	Analytical Method: 6020	Cal Date: 07/29/2012 08:49
Workgroup #: WG404837	Analyst: JYH	Run Date: 07/29/2012 16:13
Collect Date: 07/15/2012 10:15	Dilution: 5	File ID: NI.072912.161301
Sample Tag: DL01	Units: mg/L	

Analyte	CAS #	Result	Qual	RL	MDL
Antimony, Total	7440-36-0		ND	0.00500	0.00250
Barium, Total	7440-39-3	0.0902		0.0150	0.00750
Cadmium, Total	7440-43-9		ND	0.00300	0.00150
Chromium, Total	7440-47-3	0.00793	J	0.0100	0.00500
Copper, Total	7440-50-8		ND	0.0100	0.00500
Lead, Total	7439-92-1		ND	0.00500	0.00250
Manganese, Total	7439-96-5	0.0222		0.0100	0.00500
Nickel, Total	7440-02-0		ND	0.0200	0.0100
Selenium, Total	7782-49-2		ND	0.00500	0.00250
Thallium, Total	7440-28-0		ND	0.00100	0.000500
Vanadium, Total	7440-62-2	0.0110		0.00500	0.00250
Zinc, Total	7440-66-6		ND	0.125	0.0625

J	Estimated value; the analyte concentration was less than the RL/LOQ.
ND	Not detected at or above the reporting limit (RL).

Certificate of Analysis

Sample #: L12070658-02	PrePrep Method: N/A	Instrument: HPMS8
Client ID: MW-3-2	Prep Method: 5030B/5030C/5035A	Prep Date: N/A
Matrix: Water	Analytical Method: 8260B	Cal Date: 06/28/2012 23:13
Workgroup #: WG404417	Analyst: ADC	Run Date: 07/25/2012 17:35
Collect Date: 07/15/2012 10:38	Dilution: 1	File ID: 8M381052
Sample Tag: 01	Units: ug/L	

Analyte	CAS #	Result	Qual	RL	MDL
Acetone	67-64-1		ND	10.0	2.50
Benzene	71-43-2		ND	1.00	0.125
Bromobenzene	108-86-1		ND	1.00	0.125
Bromochloromethane	74-97-5		ND	1.00	0.200
Bromodichloromethane	75-27-4		ND	1.00	0.250
Bromoform	75-25-2		ND	1.00	0.500
Bromomethane	74-83-9		ND	1.00	0.500
2-Butanone	78-93-3		ND	10.0	2.50
n-Butylbenzene	104-51-8		ND	1.00	0.250
sec-Butylbenzene	135-98-8		ND	1.00	0.250
tert-Butylbenzene	98-06-6		ND	1.00	0.250
Carbon disulfide	75-15-0		ND	1.00	0.500
Carbon tetrachloride	56-23-5		ND	1.00	0.250
Chlorobenzene	108-90-7		ND	1.00	0.125
Chlorodibromomethane	124-48-1		ND	1.00	0.250
Chloroethane	75-00-3		ND	1.00	0.500
2-Chloroethyl vinyl ether	110-75-8		ND	10.0	2.00
Chloroform	67-66-3		ND	1.00	0.125
Chloromethane	74-87-3		ND	1.00	0.500
2-Chlorotoluene	95-49-8		ND	1.00	0.125
4-Chlorotoluene	106-43-4		ND	1.00	0.250
1,2-Dibromo-3-chloropropane	96-12-8		ND	5.00	1.00
1,2-Dibromoethane	106-93-4		ND	1.00	0.250
Dibromomethane	74-95-3		ND	1.00	0.250
1,2-Dichlorobenzene	95-50-1		ND	1.00	0.125
1,3-Dichlorobenzene	541-73-1		ND	1.00	0.250
1,4-Dichlorobenzene	106-46-7		ND	1.00	0.125
Dichlorodifluoromethane	75-71-8		ND	1.00	0.250
1,1-Dichloroethane	75-34-3	0.246	J	1.00	0.125
1,2-Dichloroethane	107-06-2		ND	1.00	0.250
1,1-Dichloroethene	75-35-4	1.01		1.00	0.500
cis-1,2-Dichloroethene	156-59-2	0.271	J	1.00	0.250

Certificate of Analysis

Analyte	CAS #	Result	Qual	RL	MDL
trans-1,2-Dichloroethene	156-60-5		ND	1.00	0.250
1,2-Dichloropropane	78-87-5		ND	1.00	0.200
1,3-Dichloropropane	142-28-9		ND	1.00	0.200
2,2-Dichloropropane	594-20-7		ND	1.00	0.250
cis-1,3-Dichloropropene	10061-01-5		ND	1.00	0.250
trans-1,3-Dichloropropene	10061-02-6		ND	1.00	0.500
1,1-Dichloropropene	563-58-6		ND	1.00	0.250
Ethylbenzene	100-41-4		ND	1.00	0.250
2-Hexanone	591-78-6		ND	10.0	2.50
Hexachlorobutadiene	87-68-3		ND	1.00	0.250
Isopropylbenzene	98-82-8		ND	1.00	0.250
p-Isopropyltoluene	99-87-6		ND	1.00	0.250
4-Methyl-2-pentanone	108-10-1		ND	10.0	2.50
Methylene chloride	75-09-2		ND	5.00	0.250
Naphthalene	91-20-3		ND	1.00	0.200
n-Propylbenzene	103-65-1		ND	1.00	0.125
Styrene	100-42-5		ND	1.00	0.125
1,1,1,2-Tetrachloroethane	630-20-6		ND	1.00	0.250
1,1,1,2-Tetrachloroethane	79-34-5		ND	1.00	0.200
Tetrachloroethene	127-18-4	41.8		1.00	0.250
Toluene	108-88-3	0.290	J	1.00	0.250
1,2,3-Trichlorobenzene	87-61-6		ND	1.00	0.150
1,2,4-Trichlorobenzene	120-82-1		ND	1.00	0.200
1,1,1-Trichloroethane	71-55-6		ND	1.00	0.250
1,1,1,2-Trichloroethane	79-00-5		ND	1.00	0.250
Trichloroethene	79-01-6	3.07		1.00	0.250
Trichlorofluoromethane	75-69-4		ND	1.00	0.250
1,2,3-Trichloropropane	96-18-4		ND	1.00	0.500
1,2,4-Trimethylbenzene	95-63-6		ND	1.00	0.250
1,3,5-Trimethylbenzene	108-67-8		ND	1.00	0.250
Vinyl acetate	108-05-4		ND	10.0	2.50
Vinyl chloride	75-01-4		ND	1.00	0.250
o-Xylene	95-47-6		ND	1.00	0.250
m-,p-Xylene	179601-23-1		ND	1.00	0.500
Surrogate	Recovery	Lower Limit	Upper Limit	Q	
Dibromofluoromethane	96.7	86	118		
1,2-Dichloroethane-d4	82.4	80	120		
Toluene-d8	97.3	88	110		
4-Bromofluorobenzene	101	86	115		

Certificate of Analysis

J	Estimated value; the analyte concentration was less than the RL/LOQ.
ND	Not detected at or above the reporting limit (RL).

Sample #: L12070658-02	PrePrep Method: N/A	Instrument: ICP-THERMO2
Client ID: MW-3-2	Prep Method: 3005A	Prep Date: 07/24/2012 06:22
Matrix: Water	Analytical Method: 6010B	Cal Date: 07/25/2012 13:34
Workgroup #: WG404484	Analyst: KHR	Run Date: 07/25/2012 16:22
Collect Date: 07/15/2012 10:38	Dilution: 1	File ID: T2.072512.162224
Sample Tag: 01	Units: mg/L	

Analyte	CAS #	Result	Qual	RL	MDL
Aluminum, Total	7429-90-5	1.28		0.100	0.0500
Calcium, Total	7440-70-2	14.4		0.200	0.100
Iron, Total	7439-89-6	3.58		0.100	0.0500
Magnesium, Total	7439-95-4	7.25		0.500	0.250
Potassium, Total	7440-09-7	6.00		1.00	0.500
Sodium, Total	7440-23-5	46.0		0.500	0.250
Strontium, Total	7440-24-6	0.483		0.0100	0.00500

Sample #: L12070658-02	PrePrep Method: N/A	Instrument: ICP-MS2
Client ID: MW-3-2	Prep Method: 3015	Prep Date: 07/23/2012 13:44
Matrix: Water	Analytical Method: 6020	Cal Date: 07/29/2012 08:49
Workgroup #: WG404837	Analyst: JYH	Run Date: 07/29/2012 16:16
Collect Date: 07/15/2012 10:38	Dilution: 5	File ID: NI.072912.161612
Sample Tag: DL01	Units: mg/L	

Analyte	CAS #	Result	Qual	RL	MDL
Antimony, Total	7440-36-0		ND	0.00500	0.00250
Barium, Total	7440-39-3	0.217		0.0150	0.00750
Cadmium, Total	7440-43-9		ND	0.00300	0.00150
Chromium, Total	7440-47-3		ND	0.0100	0.00500
Copper, Total	7440-50-8	0.0445		0.0100	0.00500
Lead, Total	7439-92-1		ND	0.00500	0.00250
Manganese, Total	7439-96-5	0.179		0.0100	0.00500
Nickel, Total	7440-02-0		ND	0.0200	0.0100
Selenium, Total	7782-49-2		ND	0.00500	0.00250
Thallium, Total	7440-28-0		ND	0.00100	0.000500
Vanadium, Total	7440-62-2	0.00349	J	0.00500	0.00250
Zinc, Total	7440-66-6		ND	0.125	0.0625

J	Estimated value; the analyte concentration was less than the RL/LOQ.
ND	Not detected at or above the reporting limit (RL).

Certificate of Analysis

Sample #: L12070658-03	PrePrep Method: N/A	Instrument: HPMS8
Client ID: MW-3-2MS	Prep Method: 5030B/5030C/5035A	Prep Date: N/A
Matrix: Water	Analytical Method: 8260B	Cal Date: 06/28/2012 23:13
Workgroup #: WG404417	Analyst: ADC	Run Date: 07/25/2012 13:04
Collect Date: 07/15/2012 12:20	Dilution: 1	File ID: 8M381043
Sample Tag: 01	Units: ug/L	

Analyte	CAS #	Result	Qual	RL	MDL
Acetone	67-64-1	18.6		10.0	2.50
Benzene	71-43-2	20.0		1.00	0.125
Bromobenzene	108-86-1	19.4		1.00	0.125
Bromochloromethane	74-97-5	21.4		1.00	0.200
Bromodichloromethane	75-27-4	19.4		1.00	0.250
Bromoform	75-25-2	19.5		1.00	0.500
Bromomethane	74-83-9	19.8		1.00	0.500
2-Butanone	78-93-3	17.8		10.0	2.50
n-Butylbenzene	104-51-8	15.8		1.00	0.250
sec-Butylbenzene	135-98-8	16.2		1.00	0.250
tert-Butylbenzene	98-06-6	16.3		1.00	0.250
Carbon disulfide	75-15-0	21.3		1.00	0.500
Carbon tetrachloride	56-23-5	18.9		1.00	0.250
Chlorobenzene	108-90-7	18.7		1.00	0.125
Chlorodibromomethane	124-48-1	19.6		1.00	0.250
Chloroethane	75-00-3	18.7		1.00	0.500
2-Chloroethyl vinyl ether	110-75-8		ND	10.0	2.00
Chloroform	67-66-3	19.0		1.00	0.125
Chloromethane	74-87-3	14.5		1.00	0.500
2-Chlorotoluene	95-49-8	18.4		1.00	0.125
4-Chlorotoluene	106-43-4	17.3		1.00	0.250
1,2-Dibromo-3-chloropropane	96-12-8	18.1		5.00	1.00
1,2-Dibromoethane	106-93-4	20.6		1.00	0.250
Dibromomethane	74-95-3	19.9		1.00	0.250
1,2-Dichlorobenzene	95-50-1	18.1		1.00	0.125
1,3-Dichlorobenzene	541-73-1	18.1		1.00	0.250
1,4-Dichlorobenzene	106-46-7	17.3		1.00	0.125
Dichlorodifluoromethane	75-71-8	22.1		1.00	0.250
1,1-Dichloroethane	75-34-3	19.8		1.00	0.125
1,2-Dichloroethane	107-06-2	17.0		1.00	0.250
1,1-Dichloroethene	75-35-4	19.8		1.00	0.500
cis-1,2-Dichloroethene	156-59-2	21.3		1.00	0.250

Certificate of Analysis

Analyte	CAS #	Result	Qual	RL	MDL
trans-1,2-Dichloroethene	156-60-5	19.2		1.00	0.250
1,2-Dichloropropane	78-87-5	19.5		1.00	0.200
1,3-Dichloropropane	142-28-9	19.9		1.00	0.200
2,2-Dichloropropane	594-20-7	18.7		1.00	0.250
cis-1,3-Dichloropropene	10061-01-5	21.1		1.00	0.250
trans-1,3-Dichloropropene	10061-02-6	18.4		1.00	0.500
1,1-Dichloropropene	563-58-6	19.0		1.00	0.250
Ethylbenzene	100-41-4	18.3		1.00	0.250
2-Hexanone	591-78-6	20.0		10.0	2.50
Hexachlorobutadiene	87-68-3	15.2		1.00	0.250
Isopropylbenzene	98-82-8	15.5		1.00	0.250
p-Isopropyltoluene	99-87-6	16.5		1.00	0.250
4-Methyl-2-pentanone	108-10-1	18.3		10.0	2.50
Methylene chloride	75-09-2	18.7		5.00	0.250
Naphthalene	91-20-3	19.9		1.00	0.200
n-Propylbenzene	103-65-1	18.0		1.00	0.125
Styrene	100-42-5	19.1		1.00	0.125
1,1,1,2-Tetrachloroethane	630-20-6	19.2		1.00	0.250
1,1,1,2-Tetrachloroethane	79-34-5	21.4		1.00	0.200
Tetrachloroethene	127-18-4	54.1		1.00	0.250
Toluene	108-88-3	18.9		1.00	0.250
1,2,3-Trichlorobenzene	87-61-6	16.5		1.00	0.150
1,2,4-Trichlorobenzene	120-82-1	16.6		1.00	0.200
1,1,1-Trichloroethane	71-55-6	18.2		1.00	0.250
1,1,1,2-Trichloroethane	79-00-5	20.4		1.00	0.250
Trichloroethene	79-01-6	21.8		1.00	0.250
Trichlorofluoromethane	75-69-4	17.6		1.00	0.250
1,2,3-Trichloropropane	96-18-4	20.5		1.00	0.500
1,2,4-Trimethylbenzene	95-63-6	18.2		1.00	0.250
1,3,5-Trimethylbenzene	108-67-8	17.5		1.00	0.250
Vinyl acetate	108-05-4	32.5		10.0	2.50
Vinyl chloride	75-01-4	18.3		1.00	0.250
o-Xylene	95-47-6	18.4		1.00	0.250
m-,p-Xylene	179601-23-1	36.9		1.00	0.500
Surrogate	Recovery	Lower Limit	Upper Limit	Q	
Dibromofluoromethane	99.4	86	118		
1,2-Dichloroethane-d4	82.1	80	120		
Toluene-d8	98.2	88	110		
4-Bromofluorobenzene	102	86	115		

Certificate of Analysis

ND	Not detected at or above the reporting limit (RL).
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Sample #: L12070658-03	PrePrep Method: N/A	Instrument: ICP-THERMO2
Client ID: MW-3-2MS	Prep Method: 3005A	Prep Date: 07/24/2012 06:22
Matrix: Water	Analytical Method: 6010B	Cal Date: 07/25/2012 13:34
Workgroup #: WG404484	Analyst: KHR	Run Date: 07/25/2012 16:25
Collect Date: 07/15/2012 12:20	Dilution: 1	File ID: T2.072512.162528
Sample Tag: 01	Units: mg/L	

Analyte	CAS #	Result	Qual	RL	MDL
Aluminum, Total	7429-90-5	5.78		0.100	0.0500
Calcium, Total	7440-70-2	18.6		0.200	0.100
Iron, Total	7439-89-6	3.22		0.100	0.0500
Magnesium, Total	7439-95-4	12.0		0.500	0.250
Potassium, Total	7440-09-7	30.5		1.00	0.500
Sodium, Total	7440-23-5	70.3		0.500	0.250
Strontium, Total	7440-24-6	0.950		0.0100	0.00500

Sample #: L12070658-03	PrePrep Method: N/A	Instrument: ICP-MS2
Client ID: MW-3-2MS	Prep Method: 3015	Prep Date: 07/23/2012 13:44
Matrix: Water	Analytical Method: 6020	Cal Date: 07/29/2012 08:49
Workgroup #: WG404837	Analyst: JYH	Run Date: 07/29/2012 16:19
Collect Date: 07/15/2012 12:20	Dilution: 5	File ID: NI.072912.161920
Sample Tag: DL01	Units: mg/L	

Analyte	CAS #	Result	Qual	RL	MDL
Antimony, Total	7440-36-0	0.0778		0.00500	0.00250
Barium, Total	7440-39-3	0.294		0.0150	0.00750
Cadmium, Total	7440-43-9	0.0831		0.00300	0.00150
Chromium, Total	7440-47-3	0.0754		0.0100	0.00500
Copper, Total	7440-50-8	0.0968		0.0100	0.00500
Lead, Total	7439-92-1	0.0773		0.00500	0.00250
Manganese, Total	7439-96-5	0.255		0.0100	0.00500
Nickel, Total	7440-02-0	0.0784		0.0200	0.0100
Selenium, Total	7782-49-2	0.0884		0.00500	0.00250
Thallium, Total	7440-28-0	0.0763		0.00100	0.000500
Vanadium, Total	7440-62-2	0.0748		0.00500	0.00250
Zinc, Total	7440-66-6	0.113	J	0.125	0.0625
J	Estimated value; the analyte concentration was less than the RL/LOQ.				

Certificate of Analysis

Sample #: L12070658-04	PrePrep Method: N/A	Instrument: HPMS8
Client ID: MW-3-2MSD	Prep Method: 5030B/5030C/5035A	Prep Date: N/A
Matrix: Water	Analytical Method: 8260B	Cal Date: 06/28/2012 23:13
Workgroup #: WG404417	Analyst: ADC	Run Date: 07/25/2012 13:34
Collect Date: 07/15/2012 12:10	Dilution: 1	File ID: 8M381044
Sample Tag: 01	Units: ug/L	

Analyte	CAS #	Result	Qual	RL	MDL
Acetone	67-64-1	18.5		10.0	2.50
Benzene	71-43-2	20.3		1.00	0.125
Bromobenzene	108-86-1	19.5		1.00	0.125
Bromochloromethane	74-97-5	21.7		1.00	0.200
Bromodichloromethane	75-27-4	19.8		1.00	0.250
Bromoform	75-25-2	19.6		1.00	0.500
Bromomethane	74-83-9	20.2		1.00	0.500
2-Butanone	78-93-3	17.5		10.0	2.50
n-Butylbenzene	104-51-8	15.9		1.00	0.250
sec-Butylbenzene	135-98-8	16.4		1.00	0.250
tert-Butylbenzene	98-06-6	16.6		1.00	0.250
Carbon disulfide	75-15-0	21.3		1.00	0.500
Carbon tetrachloride	56-23-5	19.3		1.00	0.250
Chlorobenzene	108-90-7	18.9		1.00	0.125
Chlorodibromomethane	124-48-1	19.7		1.00	0.250
Chloroethane	75-00-3	19.0		1.00	0.500
2-Chloroethyl vinyl ether	110-75-8		ND	10.0	2.00
Chloroform	67-66-3	19.6		1.00	0.125
Chloromethane	74-87-3	14.6		1.00	0.500
2-Chlorotoluene	95-49-8	19.2		1.00	0.125
4-Chlorotoluene	106-43-4	17.5		1.00	0.250
1,2-Dibromo-3-chloropropane	96-12-8	19.5		5.00	1.00
1,2-Dibromoethane	106-93-4	20.8		1.00	0.250
Dibromomethane	74-95-3	20.2		1.00	0.250
1,2-Dichlorobenzene	95-50-1	18.3		1.00	0.125
1,3-Dichlorobenzene	541-73-1	18.3		1.00	0.250
1,4-Dichlorobenzene	106-46-7	17.6		1.00	0.125
Dichlorodifluoromethane	75-71-8	22.5		1.00	0.250
1,1-Dichloroethane	75-34-3	20.2		1.00	0.125
1,2-Dichloroethane	107-06-2	17.3		1.00	0.250
1,1-Dichloroethene	75-35-4	19.8		1.00	0.500
cis-1,2-Dichloroethene	156-59-2	21.9		1.00	0.250
trans-1,2-Dichloroethene	156-60-5	19.8		1.00	0.250

Certificate of Analysis

Analyte	CAS #	Result	Qual	RL	MDL
1,2-Dichloropropane	78-87-5	20.2		1.00	0.200
1,3-Dichloropropane	142-28-9	20.2		1.00	0.200
2,2-Dichloropropane	594-20-7	18.7		1.00	0.250
cis-1,3-Dichloropropene	10061-01-5	21.8		1.00	0.250
trans-1,3-Dichloropropene	10061-02-6	18.7		1.00	0.500
1,1-Dichloropropene	563-58-6	19.7		1.00	0.250
Ethylbenzene	100-41-4	18.5		1.00	0.250
2-Hexanone	591-78-6	19.2		10.0	2.50
Hexachlorobutadiene	87-68-3	15.2		1.00	0.250
Isopropylbenzene	98-82-8	15.6		1.00	0.250
p-Isopropyltoluene	99-87-6	16.8		1.00	0.250
4-Methyl-2-pentanone	108-10-1	18.3		10.0	2.50
Methylene chloride	75-09-2	18.7		5.00	0.250
Naphthalene	91-20-3	20.3		1.00	0.200
n-Propylbenzene	103-65-1	18.1		1.00	0.125
Styrene	100-42-5	19.2		1.00	0.125
1,1,1,2-Tetrachloroethane	630-20-6	19.4		1.00	0.250
1,1,2,2-Tetrachloroethane	79-34-5	21.4		1.00	0.200
Tetrachloroethene	127-18-4	54.1		1.00	0.250
Toluene	108-88-3	19.1		1.00	0.250
1,2,3-Trichlorobenzene	87-61-6	16.8		1.00	0.150
1,2,4-Trichlorobenzene	120-82-1	17.1		1.00	0.200
1,1,1-Trichloroethane	71-55-6	18.7		1.00	0.250
1,1,2-Trichloroethane	79-00-5	20.5		1.00	0.250
Trichloroethene	79-01-6	22.2		1.00	0.250
Trichlorofluoromethane	75-69-4	17.9		1.00	0.250
1,2,3-Trichloropropane	96-18-4	20.7		1.00	0.500
1,2,4-Trimethylbenzene	95-63-6	18.5		1.00	0.250
1,3,5-Trimethylbenzene	108-67-8	17.9		1.00	0.250
Vinyl acetate	108-05-4	32.5		10.0	2.50
Vinyl chloride	75-01-4	19.0		1.00	0.250
o-Xylene	95-47-6	18.4		1.00	0.250
m-,p-Xylene	179601-23-1	36.5		1.00	0.500
Surrogate	Recovery	Lower Limit	Upper Limit	Q	
Dibromofluoromethane	101	86	118		
1,2-Dichloroethane-d4	83.9	80	120		
Toluene-d8	98.8	88	110		
4-Bromofluorobenzene	100	86	115		
ND	Not detected at or above the reporting limit (RL).				

Lab Report #: L12070658
 Lab Project #: 3083.001
 Project Name: Longhorn AAP
 Lab Contact: Kathy Albertson

Certificate of Analysis

Sample #: L12070658-04	PrePrep Method: N/A	Instrument: ICP-THERMO2
Client ID: MW-3-2MSD	Prep Method: 3005A	Prep Date: 07/24/2012 06:22
Matrix: Water	Analytical Method: 6010B	Cal Date: 07/25/2012 13:34
Workgroup #: WG404484	Analyst: KHR	Run Date: 07/25/2012 16:28
Collect Date: 07/15/2012 12:10	Dilution: 1	File ID: T2.072512.162830
Sample Tag: 01	Units: mg/L	

Analyte	CAS #	Result	Qual	RL	MDL
Aluminum, Total	7429-90-5	5.42		0.100	0.0500
Calcium, Total	7440-70-2	17.8		0.200	0.100
Iron, Total	7439-89-6	2.88		0.100	0.0500
Magnesium, Total	7439-95-4	11.6		0.500	0.250
Potassium, Total	7440-09-7	29.5		1.00	0.500
Sodium, Total	7440-23-5	68.2		0.500	0.250
Strontium, Total	7440-24-6	0.922		0.0100	0.00500

Sample #: L12070658-04	PrePrep Method: N/A	Instrument: ICP-MS2
Client ID: MW-3-2MSD	Prep Method: 3015	Prep Date: 07/23/2012 13:44
Matrix: Water	Analytical Method: 6020	Cal Date: 07/29/2012 08:49
Workgroup #: WG404837	Analyst: JYH	Run Date: 07/29/2012 16:22
Collect Date: 07/15/2012 12:10	Dilution: 5	File ID: NI.072912.162230
Sample Tag: DL01	Units: mg/L	

Analyte	CAS #	Result	Qual	RL	MDL
Antimony, Total	7440-36-0	0.0829		0.00500	0.00250
Barium, Total	7440-39-3	0.294		0.0150	0.00750
Cadmium, Total	7440-43-9	0.0863		0.00300	0.00150
Chromium, Total	7440-47-3	0.0766		0.0100	0.00500
Copper, Total	7440-50-8	0.0956		0.0100	0.00500
Lead, Total	7439-92-1	0.0792		0.00500	0.00250
Manganese, Total	7439-96-5	0.252		0.0100	0.00500
Nickel, Total	7440-02-0	0.0812		0.0200	0.0100
Selenium, Total	7782-49-2	0.0923		0.00500	0.00250
Thallium, Total	7440-28-0	0.0777		0.00100	0.000500
Vanadium, Total	7440-62-2	0.0769		0.00500	0.00250
Zinc, Total	7440-66-6	0.118	J	0.125	0.0625
J	Estimated value; the analyte concentration was less than the RL/LOQ.				

Certificate of Analysis

Sample #: L12070658-05	PrePrep Method: N/A	Instrument: HPMS11
Client ID: TRIP BLANK 15JULY2012	Prep Method: 5030B/5030C/5035A	Prep Date: N/A
Matrix: Water	Analytical Method: 8260B	Cal Date: 05/03/2012 21:37
Workgroup #: WG404020	Analyst: FJB	Run Date: 07/20/2012 22:12
Collect Date: 07/15/2012 00:01	Dilution: 1	File ID: 11M85454
Sample Tag: 01	Units: ug/L	

Analyte	CAS #	Result	Qual	RL	MDL
Acetone	67-64-1		ND	10.0	2.50
Benzene	71-43-2		ND	1.00	0.125
Bromobenzene	108-86-1		ND	1.00	0.125
Bromochloromethane	74-97-5		ND	1.00	0.200
Bromodichloromethane	75-27-4		ND	1.00	0.250
Bromoform	75-25-2		ND	1.00	0.500
Bromomethane	74-83-9		ND	1.00	0.500
2-Butanone	78-93-3		ND	10.0	2.50
n-Butylbenzene	104-51-8		ND	1.00	0.250
sec-Butylbenzene	135-98-8		ND	1.00	0.250
tert-Butylbenzene	98-06-6		ND	1.00	0.250
Carbon disulfide	75-15-0		ND	1.00	0.500
Carbon tetrachloride	56-23-5		ND	1.00	0.250
Chlorobenzene	108-90-7		ND	1.00	0.125
Chlorodibromomethane	124-48-1		ND	1.00	0.250
Chloroethane	75-00-3		ND	1.00	0.500
2-Chloroethyl vinyl ether	110-75-8		ND	10.0	2.00
Chloroform	67-66-3		ND	1.00	0.125
Chloromethane	74-87-3		ND	1.00	0.500
2-Chlorotoluene	95-49-8		ND	1.00	0.125
4-Chlorotoluene	106-43-4		ND	1.00	0.250
1,2-Dibromo-3-chloropropane	96-12-8		ND	5.00	1.00
1,2-Dibromoethane	106-93-4		ND	1.00	0.250
Dibromomethane	74-95-3		ND	1.00	0.250
1,2-Dichlorobenzene	95-50-1		ND	1.00	0.125
1,3-Dichlorobenzene	541-73-1		ND	1.00	0.250
1,4-Dichlorobenzene	106-46-7		ND	1.00	0.125
Dichlorodifluoromethane	75-71-8		ND	1.00	0.250
1,1-Dichloroethane	75-34-3		ND	1.00	0.125
1,2-Dichloroethane	107-06-2		ND	1.00	0.250
1,1-Dichloroethene	75-35-4		ND	1.00	0.500
cis-1,2-Dichloroethene	156-59-2		ND	1.00	0.250
trans-1,2-Dichloroethene	156-60-5		ND	1.00	0.250

Certificate of Analysis

Analyte	CAS #	Result	Qual	RL	MDL
1,2-Dichloropropane	78-87-5		ND	1.00	0.200
1,3-Dichloropropane	142-28-9		ND	1.00	0.200
2,2-Dichloropropane	594-20-7		ND	1.00	0.250
cis-1,3-Dichloropropene	10061-01-5		ND	1.00	0.250
trans-1,3-Dichloropropene	10061-02-6		ND	1.00	0.500
1,1-Dichloropropene	563-58-6		ND	1.00	0.250
Ethylbenzene	100-41-4		ND	1.00	0.250
2-Hexanone	591-78-6		ND	10.0	2.50
Hexachlorobutadiene	87-68-3		ND	1.00	0.250
Isopropylbenzene	98-82-8		ND	1.00	0.250
p-Isopropyltoluene	99-87-6		ND	1.00	0.250
4-Methyl-2-pentanone	108-10-1		ND	10.0	2.50
Methylene chloride	75-09-2		ND	5.00	0.250
Naphthalene	91-20-3		ND	1.00	0.200
n-Propylbenzene	103-65-1		ND	1.00	0.125
Styrene	100-42-5		ND	1.00	0.125
1,1,1,2-Tetrachloroethane	630-20-6		ND	1.00	0.250
1,1,2,2-Tetrachloroethane	79-34-5		ND	1.00	0.200
Tetrachloroethene	127-18-4		ND	1.00	0.250
Toluene	108-88-3		ND	1.00	0.250
1,2,3-Trichlorobenzene	87-61-6		ND	1.00	0.150
1,2,4-Trichlorobenzene	120-82-1		ND	1.00	0.200
1,1,1-Trichloroethane	71-55-6		ND	1.00	0.250
1,1,2-Trichloroethane	79-00-5		ND	1.00	0.250
Trichloroethene	79-01-6		ND	1.00	0.250
Trichlorofluoromethane	75-69-4		ND	1.00	0.250
1,2,3-Trichloropropane	96-18-4		ND	1.00	0.500
1,2,4-Trimethylbenzene	95-63-6		ND	1.00	0.250
1,3,5-Trimethylbenzene	108-67-8		ND	1.00	0.250
Vinyl acetate	108-05-4		ND	10.0	2.50
Vinyl chloride	75-01-4		ND	1.00	0.250
o-Xylene	95-47-6		ND	1.00	0.250
m-,p-Xylene	179601-23-1		ND	1.00	0.500
Surrogate	Recovery	Lower Limit	Upper Limit	Q	
Dibromofluoromethane	87.8	86	118		
1,2-Dichloroethane-d4	86.1	80	120		
Toluene-d8	104	88	110		
4-Bromofluorobenzene	111	86	115		
ND	Not detected at or above the reporting limit (RL).				

Certificate of Analysis

Sample #: L12070658-06	PrePrep Method: N/A	Instrument: HPMS11
Client ID: FIELD BLANK 15JULY2012	Prep Method: 5030B/5030C/5035A	Prep Date: N/A
Matrix: Water	Analytical Method: 8260B	Cal Date: 05/03/2012 21:37
Workgroup #: WG404020	Analyst: FJB	Run Date: 07/20/2012 22:43
Collect Date: 07/15/2012 10:50	Dilution: 1	File ID: 11M85455
Sample Tag: 01	Units: ug/L	

Analyte	CAS #	Result	Qual	RL	MDL
Acetone	67-64-1		ND	10.0	2.50
Benzene	71-43-2		ND	1.00	0.125
Bromobenzene	108-86-1		ND	1.00	0.125
Bromochloromethane	74-97-5		ND	1.00	0.200
Bromodichloromethane	75-27-4		ND	1.00	0.250
Bromoform	75-25-2		ND	1.00	0.500
Bromomethane	74-83-9		ND	1.00	0.500
2-Butanone	78-93-3		ND	10.0	2.50
n-Butylbenzene	104-51-8		ND	1.00	0.250
sec-Butylbenzene	135-98-8		ND	1.00	0.250
tert-Butylbenzene	98-06-6		ND	1.00	0.250
Carbon disulfide	75-15-0		ND	1.00	0.500
Carbon tetrachloride	56-23-5		ND	1.00	0.250
Chlorobenzene	108-90-7		ND	1.00	0.125
Chlorodibromomethane	124-48-1		ND	1.00	0.250
Chloroethane	75-00-3		ND	1.00	0.500
2-Chloroethyl vinyl ether	110-75-8		ND	10.0	2.00
Chloroform	67-66-3		ND	1.00	0.125
Chloromethane	74-87-3		ND	1.00	0.500
2-Chlorotoluene	95-49-8		ND	1.00	0.125
4-Chlorotoluene	106-43-4		ND	1.00	0.250
1,2-Dibromo-3-chloropropane	96-12-8		ND	5.00	1.00
1,2-Dibromoethane	106-93-4		ND	1.00	0.250
Dibromomethane	74-95-3		ND	1.00	0.250
1,2-Dichlorobenzene	95-50-1		ND	1.00	0.125
1,3-Dichlorobenzene	541-73-1		ND	1.00	0.250
1,4-Dichlorobenzene	106-46-7		ND	1.00	0.125
Dichlorodifluoromethane	75-71-8		ND	1.00	0.250
1,1-Dichloroethane	75-34-3		ND	1.00	0.125
1,2-Dichloroethane	107-06-2		ND	1.00	0.250
1,1-Dichloroethene	75-35-4		ND	1.00	0.500
cis-1,2-Dichloroethene	156-59-2		ND	1.00	0.250
trans-1,2-Dichloroethene	156-60-5		ND	1.00	0.250

Certificate of Analysis

Analyte	CAS #	Result	Qual	RL	MDL
1,2-Dichloropropane	78-87-5		ND	1.00	0.200
1,3-Dichloropropane	142-28-9		ND	1.00	0.200
2,2-Dichloropropane	594-20-7		ND	1.00	0.250
cis-1,3-Dichloropropene	10061-01-5		ND	1.00	0.250
trans-1,3-Dichloropropene	10061-02-6		ND	1.00	0.500
1,1-Dichloropropene	563-58-6		ND	1.00	0.250
Ethylbenzene	100-41-4		ND	1.00	0.250
2-Hexanone	591-78-6		ND	10.0	2.50
Hexachlorobutadiene	87-68-3		ND	1.00	0.250
Isopropylbenzene	98-82-8		ND	1.00	0.250
p-Isopropyltoluene	99-87-6		ND	1.00	0.250
4-Methyl-2-pentanone	108-10-1		ND	10.0	2.50
Methylene chloride	75-09-2	0.259	J	5.00	0.250
Naphthalene	91-20-3		ND	1.00	0.200
n-Propylbenzene	103-65-1		ND	1.00	0.125
Styrene	100-42-5		ND	1.00	0.125
1,1,1,2-Tetrachloroethane	630-20-6		ND	1.00	0.250
1,1,2,2-Tetrachloroethane	79-34-5		ND	1.00	0.200
Tetrachloroethene	127-18-4		ND	1.00	0.250
Toluene	108-88-3		ND	1.00	0.250
1,2,3-Trichlorobenzene	87-61-6		ND	1.00	0.150
1,2,4-Trichlorobenzene	120-82-1		ND	1.00	0.200
1,1,1-Trichloroethane	71-55-6		ND	1.00	0.250
1,1,2-Trichloroethane	79-00-5		ND	1.00	0.250
Trichloroethene	79-01-6		ND	1.00	0.250
Trichlorofluoromethane	75-69-4		ND	1.00	0.250
1,2,3-Trichloropropane	96-18-4		ND	1.00	0.500
1,2,4-Trimethylbenzene	95-63-6		ND	1.00	0.250
1,3,5-Trimethylbenzene	108-67-8		ND	1.00	0.250
Vinyl acetate	108-05-4		ND	10.0	2.50
Vinyl chloride	75-01-4		ND	1.00	0.250
o-Xylene	95-47-6		ND	1.00	0.250
m-,p-Xylene	179601-23-1		ND	1.00	0.500
Surrogate	Recovery	Lower Limit	Upper Limit	Q	
Dibromofluoromethane	86.2	86	118		
1,2-Dichloroethane-d4	84.4	80	120		
Toluene-d8	103	88	110		
4-Bromofluorobenzene	115	86	115		
J	Estimated value; the analyte concentration was less than the RL/LOQ.				

Certificate of Analysis

ND	Not detected at or above the reporting limit (RL).
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Sample #: L12070658-06	PrePrep Method: N/A	Instrument: ICP-THERMO2
Client ID: FIELD BLANK 15JULY2012	Prep Method: 3005A	Prep Date: 07/24/2012 06:22
Matrix: Water	Analytical Method: 6010B	Cal Date: 07/25/2012 13:34
Workgroup #: WG404484	Analyst: KHR	Run Date: 07/25/2012 16:31
Collect Date: 07/15/2012 10:50	Dilution: 1	File ID: T2.072512.163133
Sample Tag: 01	Units: mg/L	

Analyte	CAS #	Result	Qual	RL	MDL
Aluminum, Total	7429-90-5		ND	0.100	0.0500
Calcium, Total	7440-70-2		ND	0.200	0.100
Iron, Total	7439-89-6		ND	0.100	0.0500
Magnesium, Total	7439-95-4		ND	0.500	0.250
Potassium, Total	7440-09-7		ND	1.00	0.500
Sodium, Total	7440-23-5	0.590		0.500	0.250
Strontium, Total	7440-24-6		ND	0.0100	0.00500
ND	Not detected at or above the reporting limit (RL).				

Sample #: L12070658-06	PrePrep Method: N/A	Instrument: ICP-MS2
Client ID: FIELD BLANK 15JULY2012	Prep Method: 3015	Prep Date: 07/23/2012 13:44
Matrix: Water	Analytical Method: 6020	Cal Date: 07/29/2012 08:49
Workgroup #: WG404837	Analyst: JYH	Run Date: 07/29/2012 16:25
Collect Date: 07/15/2012 10:50	Dilution: 5	File ID: NI.072912.162539
Sample Tag: DL01	Units: mg/L	

Analyte	CAS #	Result	Qual	RL	MDL
Antimony, Total	7440-36-0		ND	0.00500	0.00250
Barium, Total	7440-39-3		ND	0.0150	0.00750
Cadmium, Total	7440-43-9		ND	0.00300	0.00150
Chromium, Total	7440-47-3		ND	0.0100	0.00500
Copper, Total	7440-50-8		ND	0.0100	0.00500
Lead, Total	7439-92-1		ND	0.00500	0.00250
Manganese, Total	7439-96-5		ND	0.0100	0.00500
Nickel, Total	7440-02-0		ND	0.0200	0.0100
Selenium, Total	7782-49-2		ND	0.00500	0.00250
Thallium, Total	7440-28-0		ND	0.00100	0.000500
Vanadium, Total	7440-62-2		ND	0.00500	0.00250
Zinc, Total	7440-66-6		ND	0.125	0.0625
ND	Not detected at or above the reporting limit (RL).				

Certificate of Analysis

Sample #: L12070658-07	PrePrep Method: N/A	Instrument: HPMS11
Client ID: MW-3-1-D	Prep Method: 5030B/5030C/5035A	Prep Date: N/A
Matrix: Water	Analytical Method: 8260B	Cal Date: 05/03/2012 21:37
Workgroup #: WG404020	Analyst: FJB	Run Date: 07/21/2012 01:47
Collect Date: 07/15/2012 10:30	Dilution: 1	File ID: 11M85462
Sample Tag: 01	Units: ug/L	

Analyte	CAS #	Result	Qual	RL	MDL
Acetone	67-64-1	2.78	J	10.0	2.50
Benzene	71-43-2		ND	1.00	0.125
Bromobenzene	108-86-1		ND	1.00	0.125
Bromochloromethane	74-97-5		ND	1.00	0.200
Bromodichloromethane	75-27-4		ND	1.00	0.250
Bromoform	75-25-2		ND	1.00	0.500
Bromomethane	74-83-9		ND	1.00	0.500
2-Butanone	78-93-3		ND	10.0	2.50
n-Butylbenzene	104-51-8		ND	1.00	0.250
sec-Butylbenzene	135-98-8		ND	1.00	0.250
tert-Butylbenzene	98-06-6		ND	1.00	0.250
Carbon disulfide	75-15-0	0.820	J	1.00	0.500
Carbon tetrachloride	56-23-5		ND	1.00	0.250
Chlorobenzene	108-90-7		ND	1.00	0.125
Chlorodibromomethane	124-48-1		ND	1.00	0.250
Chloroethane	75-00-3		ND	1.00	0.500
2-Chloroethyl vinyl ether	110-75-8		ND	10.0	2.00
Chloroform	67-66-3	0.135	J	1.00	0.125
Chloromethane	74-87-3		ND	1.00	0.500
2-Chlorotoluene	95-49-8		ND	1.00	0.125
4-Chlorotoluene	106-43-4		ND	1.00	0.250
1,2-Dibromo-3-chloropropane	96-12-8		ND	5.00	1.00
1,2-Dibromoethane	106-93-4		ND	1.00	0.250
Dibromomethane	74-95-3		ND	1.00	0.250
1,2-Dichlorobenzene	95-50-1		ND	1.00	0.125
1,3-Dichlorobenzene	541-73-1		ND	1.00	0.250
1,4-Dichlorobenzene	106-46-7		ND	1.00	0.125
Dichlorodifluoromethane	75-71-8		ND	1.00	0.250
1,1-Dichloroethane	75-34-3		ND	1.00	0.125
1,2-Dichloroethane	107-06-2		ND	1.00	0.250
1,1-Dichloroethene	75-35-4		ND	1.00	0.500
cis-1,2-Dichloroethene	156-59-2		ND	1.00	0.250
trans-1,2-Dichloroethene	156-60-5		ND	1.00	0.250

Certificate of Analysis

Analyte	CAS #	Result	Qual	RL	MDL
1,2-Dichloropropane	78-87-5		ND	1.00	0.200
1,3-Dichloropropane	142-28-9		ND	1.00	0.200
2,2-Dichloropropane	594-20-7		ND	1.00	0.250
cis-1,3-Dichloropropene	10061-01-5		ND	1.00	0.250
trans-1,3-Dichloropropene	10061-02-6		ND	1.00	0.500
1,1-Dichloropropene	563-58-6		ND	1.00	0.250
Ethylbenzene	100-41-4		ND	1.00	0.250
2-Hexanone	591-78-6		ND	10.0	2.50
Hexachlorobutadiene	87-68-3		ND	1.00	0.250
Isopropylbenzene	98-82-8		ND	1.00	0.250
p-Isopropyltoluene	99-87-6	3.47		1.00	0.250
4-Methyl-2-pentanone	108-10-1		ND	10.0	2.50
Methylene chloride	75-09-2		ND	5.00	0.250
Naphthalene	91-20-3		ND	1.00	0.200
n-Propylbenzene	103-65-1	0.261	J	1.00	0.125
Styrene	100-42-5		ND	1.00	0.125
1,1,1,2-Tetrachloroethane	630-20-6		ND	1.00	0.250
1,1,2,2-Tetrachloroethane	79-34-5		ND	1.00	0.200
Tetrachloroethene	127-18-4	30.1		1.00	0.250
Toluene	108-88-3		ND	1.00	0.250
1,2,3-Trichlorobenzene	87-61-6		ND	1.00	0.150
1,2,4-Trichlorobenzene	120-82-1		ND	1.00	0.200
1,1,1-Trichloroethane	71-55-6		ND	1.00	0.250
1,1,2-Trichloroethane	79-00-5		ND	1.00	0.250
Trichloroethene	79-01-6	2.37		1.00	0.250
Trichlorofluoromethane	75-69-4		ND	1.00	0.250
1,2,3-Trichloropropane	96-18-4		ND	1.00	0.500
1,2,4-Trimethylbenzene	95-63-6		ND	1.00	0.250
1,3,5-Trimethylbenzene	108-67-8		ND	1.00	0.250
Vinyl acetate	108-05-4		ND	10.0	2.50
Vinyl chloride	75-01-4		ND	1.00	0.250
o-Xylene	95-47-6		ND	1.00	0.250
m-,p-Xylene	179601-23-1		ND	1.00	0.500
Surrogate	Recovery	Lower Limit	Upper Limit	Q	
Dibromofluoromethane	86.8	86	118		
1,2-Dichloroethane-d4	86.4	80	120		
Toluene-d8	104	88	110		
4-Bromofluorobenzene	112	86	115		
J	Estimated value; the analyte concentration was less than the RL/LOQ.				

Certificate of Analysis

ND	Not detected at or above the reporting limit (RL).
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Sample #: L12070658-07	PrePrep Method: N/A	Instrument: ICP-THERMO2
Client ID: MW-3-1-D	Prep Method: 3005A	Prep Date: 07/24/2012 06:22
Matrix: Water	Analytical Method: 6010B	Cal Date: 07/25/2012 13:34
Workgroup #: WG404484	Analyst: KHR	Run Date: 07/25/2012 16:34
Collect Date: 07/15/2012 10:30	Dilution: 1	File ID: T2.072512.163442
Sample Tag: 01	Units: mg/L	

Analyte	CAS #	Result	Qual	RL	MDL
Aluminum, Total	7429-90-5	0.235		0.100	0.0500
Calcium, Total	7440-70-2	14.6		0.200	0.100
Iron, Total	7439-89-6	0.275		0.100	0.0500
Magnesium, Total	7439-95-4	7.37		0.500	0.250
Potassium, Total	7440-09-7	25.7		1.00	0.500
Sodium, Total	7440-23-5	99.1		0.500	0.250
Strontium, Total	7440-24-6	0.977		0.0100	0.00500

Sample #: L12070658-07	PrePrep Method: N/A	Instrument: ICP-MS2
Client ID: MW-3-1-D	Prep Method: 3015	Prep Date: 07/23/2012 13:44
Matrix: Water	Analytical Method: 6020	Cal Date: 07/29/2012 08:49
Workgroup #: WG404837	Analyst: JYH	Run Date: 07/29/2012 16:41
Collect Date: 07/15/2012 10:30	Dilution: 5	File ID: NI.072912.164131
Sample Tag: DL01	Units: mg/L	

Analyte	CAS #	Result	Qual	RL	MDL
Antimony, Total	7440-36-0		ND	0.00500	0.00250
Barium, Total	7440-39-3	0.0990		0.0150	0.00750
Cadmium, Total	7440-43-9		ND	0.00300	0.00150
Chromium, Total	7440-47-3	0.00901	J	0.0100	0.00500
Copper, Total	7440-50-8		ND	0.0100	0.00500
Lead, Total	7439-92-1		ND	0.00500	0.00250
Manganese, Total	7439-96-5	0.0236		0.0100	0.00500
Nickel, Total	7440-02-0		ND	0.0200	0.0100
Selenium, Total	7782-49-2		ND	0.00500	0.00250
Thallium, Total	7440-28-0		ND	0.00100	0.000500
Vanadium, Total	7440-62-2	0.0114		0.00500	0.00250
Zinc, Total	7440-66-6		ND	0.125	0.0625
J	Estimated value; the analyte concentration was less than the RL/LOQ.				
ND	Not detected at or above the reporting limit (RL).				

Certificate of Analysis

Sample #: L12070658-08	PrePrep Method: N/A	Instrument: HPMS11
Client ID: MW-58	Prep Method: 5030B/5030C/5035A	Prep Date: N/A
Matrix: Water	Analytical Method: 8260B	Cal Date: 05/03/2012 21:37
Workgroup #: WG404020	Analyst: FJB	Run Date: 07/21/2012 02:17
Collect Date: 07/15/2012 14:10	Dilution: 1	File ID: 11M85463
Sample Tag: 01	Units: ug/L	

Analyte	CAS #	Result	Qual	RL	MDL
Acetone	67-64-1		ND	10.0	2.50
Benzene	71-43-2		ND	1.00	0.125
Bromobenzene	108-86-1		ND	1.00	0.125
Bromochloromethane	74-97-5		ND	1.00	0.200
Bromodichloromethane	75-27-4		ND	1.00	0.250
Bromoform	75-25-2		ND	1.00	0.500
Bromomethane	74-83-9		ND	1.00	0.500
2-Butanone	78-93-3		ND	10.0	2.50
n-Butylbenzene	104-51-8		ND	1.00	0.250
sec-Butylbenzene	135-98-8		ND	1.00	0.250
tert-Butylbenzene	98-06-6		ND	1.00	0.250
Carbon disulfide	75-15-0		ND	1.00	0.500
Carbon tetrachloride	56-23-5		ND	1.00	0.250
Chlorobenzene	108-90-7		ND	1.00	0.125
Chlorodibromomethane	124-48-1		ND	1.00	0.250
Chloroethane	75-00-3		ND	1.00	0.500
2-Chloroethyl vinyl ether	110-75-8		ND	10.0	2.00
Chloroform	67-66-3		ND	1.00	0.125
Chloromethane	74-87-3		ND	1.00	0.500
2-Chlorotoluene	95-49-8		ND	1.00	0.125
4-Chlorotoluene	106-43-4		ND	1.00	0.250
1,2-Dibromo-3-chloropropane	96-12-8		ND	5.00	1.00
1,2-Dibromoethane	106-93-4		ND	1.00	0.250
Dibromomethane	74-95-3		ND	1.00	0.250
1,2-Dichlorobenzene	95-50-1		ND	1.00	0.125
1,3-Dichlorobenzene	541-73-1		ND	1.00	0.250
1,4-Dichlorobenzene	106-46-7		ND	1.00	0.125
Dichlorodifluoromethane	75-71-8		ND	1.00	0.250
1,1-Dichloroethane	75-34-3		ND	1.00	0.125
1,2-Dichloroethane	107-06-2		ND	1.00	0.250
1,1-Dichloroethene	75-35-4	0.656	J	1.00	0.500
cis-1,2-Dichloroethene	156-59-2		ND	1.00	0.250
trans-1,2-Dichloroethene	156-60-5		ND	1.00	0.250

Certificate of Analysis

Analyte	CAS #	Result	Qual	RL	MDL
1,2-Dichloropropane	78-87-5		ND	1.00	0.200
1,3-Dichloropropane	142-28-9		ND	1.00	0.200
2,2-Dichloropropane	594-20-7		ND	1.00	0.250
cis-1,3-Dichloropropene	10061-01-5		ND	1.00	0.250
trans-1,3-Dichloropropene	10061-02-6		ND	1.00	0.500
1,1-Dichloropropene	563-58-6		ND	1.00	0.250
Ethylbenzene	100-41-4		ND	1.00	0.250
2-Hexanone	591-78-6		ND	10.0	2.50
Hexachlorobutadiene	87-68-3		ND	1.00	0.250
Isopropylbenzene	98-82-8		ND	1.00	0.250
p-Isopropyltoluene	99-87-6		ND	1.00	0.250
4-Methyl-2-pentanone	108-10-1		ND	10.0	2.50
Methylene chloride	75-09-2		ND	5.00	0.250
Naphthalene	91-20-3		ND	1.00	0.200
n-Propylbenzene	103-65-1		ND	1.00	0.125
Styrene	100-42-5		ND	1.00	0.125
1,1,1,2-Tetrachloroethane	630-20-6		ND	1.00	0.250
1,1,2,2-Tetrachloroethane	79-34-5		ND	1.00	0.200
Tetrachloroethene	127-18-4	36.3		1.00	0.250
Toluene	108-88-3		ND	1.00	0.250
1,2,3-Trichlorobenzene	87-61-6		ND	1.00	0.150
1,2,4-Trichlorobenzene	120-82-1		ND	1.00	0.200
1,1,1-Trichloroethane	71-55-6		ND	1.00	0.250
1,1,2-Trichloroethane	79-00-5		ND	1.00	0.250
Trichloroethene	79-01-6	5.17		1.00	0.250
Trichlorofluoromethane	75-69-4		ND	1.00	0.250
1,2,3-Trichloropropane	96-18-4		ND	1.00	0.500
1,2,4-Trimethylbenzene	95-63-6		ND	1.00	0.250
1,3,5-Trimethylbenzene	108-67-8		ND	1.00	0.250
Vinyl acetate	108-05-4		ND	10.0	2.50
Vinyl chloride	75-01-4		ND	1.00	0.250
o-Xylene	95-47-6		ND	1.00	0.250
m-,p-Xylene	179601-23-1		ND	1.00	0.500
Surrogate	Recovery	Lower Limit	Upper Limit	Q	
Dibromofluoromethane	84.9	86	118	*	
1,2-Dichloroethane-d4	85.7	80	120		
Toluene-d8	104	88	110		
4-Bromofluorobenzene	115	86	115		
*	Surrogate or spike compound out of range				

Certificate of Analysis

J	Estimated value; the analyte concentration was less than the RL/LOQ.
ND	Not detected at or above the reporting limit (RL).

Sample #: L12070658-08	PrePrep Method: N/A	Instrument: ICP-THERMO2
Client ID: MW-58	Prep Method: 3005A	Prep Date: 07/24/2012 06:22
Matrix: Water	Analytical Method: 6010B	Cal Date: 07/25/2012 13:34
Workgroup #: WG404484	Analyst: KHR	Run Date: 07/25/2012 16:37
Collect Date: 07/15/2012 14:10	Dilution: 1	File ID: T2.072512.163747
Sample Tag: 01	Units: mg/L	

Analyte	CAS #	Result	Qual	RL	MDL
Aluminum, Total	7429-90-5	0.537		0.100	0.0500
Calcium, Total	7440-70-2	5.92		0.200	0.100
Iron, Total	7439-89-6	0.975		0.100	0.0500
Magnesium, Total	7439-95-4	3.04		0.500	0.250
Potassium, Total	7440-09-7	1.27		1.00	0.500
Sodium, Total	7440-23-5	57.9		0.500	0.250
Strontium, Total	7440-24-6	0.170		0.0100	0.00500

Sample #: L12070658-08	PrePrep Method: N/A	Instrument: ICP-MS2
Client ID: MW-58	Prep Method: 3015	Prep Date: 07/23/2012 13:44
Matrix: Water	Analytical Method: 6020	Cal Date: 07/29/2012 08:49
Workgroup #: WG404837	Analyst: JYH	Run Date: 07/29/2012 16:44
Collect Date: 07/15/2012 14:10	Dilution: 5	File ID: NI.072912.164442
Sample Tag: DL01	Units: mg/L	

Analyte	CAS #	Result	Qual	RL	MDL
Antimony, Total	7440-36-0		ND	0.00500	0.00250
Barium, Total	7440-39-3	0.108		0.0150	0.00750
Cadmium, Total	7440-43-9		ND	0.00300	0.00150
Chromium, Total	7440-47-3		ND	0.0100	0.00500
Copper, Total	7440-50-8		ND	0.0100	0.00500
Lead, Total	7439-92-1		ND	0.00500	0.00250
Manganese, Total	7439-96-5	0.0363		0.0100	0.00500
Nickel, Total	7440-02-0		ND	0.0200	0.0100
Selenium, Total	7782-49-2		ND	0.00500	0.00250
Thallium, Total	7440-28-0		ND	0.00100	0.000500
Vanadium, Total	7440-62-2		ND	0.00500	0.00250
Zinc, Total	7440-66-6		ND	0.125	0.0625
ND	Not detected at or above the reporting limit (RL).				

Certificate of Analysis

Sample #: L12070658-09	PrePrep Method: N/A	Instrument: HPMS11
Client ID: WW-03	Prep Method: 5030B/5030C/5035A	Prep Date: N/A
Matrix: Water	Analytical Method: 8260B	Cal Date: 05/03/2012 21:37
Workgroup #: WG404020	Analyst: FJB	Run Date: 07/21/2012 02:48
Collect Date: 07/15/2012 15:10	Dilution: 1	File ID: 11M85464
Sample Tag: 01	Units: ug/L	

Analyte	CAS #	Result	Qual	RL	MDL
Acetone	67-64-1		ND	10.0	2.50
Benzene	71-43-2		ND	1.00	0.125
Bromobenzene	108-86-1		ND	1.00	0.125
Bromochloromethane	74-97-5		ND	1.00	0.200
Bromodichloromethane	75-27-4		ND	1.00	0.250
Bromoform	75-25-2		ND	1.00	0.500
Bromomethane	74-83-9		ND	1.00	0.500
2-Butanone	78-93-3		ND	10.0	2.50
n-Butylbenzene	104-51-8		ND	1.00	0.250
sec-Butylbenzene	135-98-8		ND	1.00	0.250
tert-Butylbenzene	98-06-6		ND	1.00	0.250
Carbon disulfide	75-15-0		ND	1.00	0.500
Carbon tetrachloride	56-23-5		ND	1.00	0.250
Chlorobenzene	108-90-7		ND	1.00	0.125
Chlorodibromomethane	124-48-1		ND	1.00	0.250
Chloroethane	75-00-3		ND	1.00	0.500
2-Chloroethyl vinyl ether	110-75-8		ND	10.0	2.00
Chloroform	67-66-3		ND	1.00	0.125
Chloromethane	74-87-3		ND	1.00	0.500
2-Chlorotoluene	95-49-8		ND	1.00	0.125
4-Chlorotoluene	106-43-4		ND	1.00	0.250
1,2-Dibromo-3-chloropropane	96-12-8		ND	5.00	1.00
1,2-Dibromoethane	106-93-4		ND	1.00	0.250
Dibromomethane	74-95-3		ND	1.00	0.250
1,2-Dichlorobenzene	95-50-1		ND	1.00	0.125
1,3-Dichlorobenzene	541-73-1		ND	1.00	0.250
1,4-Dichlorobenzene	106-46-7		ND	1.00	0.125
Dichlorodifluoromethane	75-71-8		ND	1.00	0.250
1,1-Dichloroethane	75-34-3		ND	1.00	0.125
1,2-Dichloroethane	107-06-2		ND	1.00	0.250
1,1-Dichloroethene	75-35-4		ND	1.00	0.500
cis-1,2-Dichloroethene	156-59-2		ND	1.00	0.250
trans-1,2-Dichloroethene	156-60-5		ND	1.00	0.250

Certificate of Analysis

Analyte	CAS #	Result	Qual	RL	MDL
1,2-Dichloropropane	78-87-5		ND	1.00	0.200
1,3-Dichloropropane	142-28-9		ND	1.00	0.200
2,2-Dichloropropane	594-20-7		ND	1.00	0.250
cis-1,3-Dichloropropene	10061-01-5		ND	1.00	0.250
trans-1,3-Dichloropropene	10061-02-6		ND	1.00	0.500
1,1-Dichloropropene	563-58-6		ND	1.00	0.250
Ethylbenzene	100-41-4		ND	1.00	0.250
2-Hexanone	591-78-6		ND	10.0	2.50
Hexachlorobutadiene	87-68-3		ND	1.00	0.250
Isopropylbenzene	98-82-8		ND	1.00	0.250
p-Isopropyltoluene	99-87-6		ND	1.00	0.250
4-Methyl-2-pentanone	108-10-1		ND	10.0	2.50
Methylene chloride	75-09-2		ND	5.00	0.250
Naphthalene	91-20-3		ND	1.00	0.200
n-Propylbenzene	103-65-1		ND	1.00	0.125
Styrene	100-42-5		ND	1.00	0.125
1,1,1,2-Tetrachloroethane	630-20-6		ND	1.00	0.250
1,1,2,2-Tetrachloroethane	79-34-5		ND	1.00	0.200
Tetrachloroethene	127-18-4		ND	1.00	0.250
Toluene	108-88-3		ND	1.00	0.250
1,2,3-Trichlorobenzene	87-61-6		ND	1.00	0.150
1,2,4-Trichlorobenzene	120-82-1		ND	1.00	0.200
1,1,1-Trichloroethane	71-55-6		ND	1.00	0.250
1,1,2-Trichloroethane	79-00-5		ND	1.00	0.250
Trichloroethene	79-01-6		ND	1.00	0.250
Trichlorofluoromethane	75-69-4		ND	1.00	0.250
1,2,3-Trichloropropane	96-18-4		ND	1.00	0.500
1,2,4-Trimethylbenzene	95-63-6		ND	1.00	0.250
1,3,5-Trimethylbenzene	108-67-8		ND	1.00	0.250
Vinyl acetate	108-05-4		ND	10.0	2.50
Vinyl chloride	75-01-4		ND	1.00	0.250
o-Xylene	95-47-6		ND	1.00	0.250
m-,p-Xylene	179601-23-1		ND	1.00	0.500
Surrogate	Recovery	Lower Limit	Upper Limit	Q	
Dibromofluoromethane	86.2	86	118		
1,2-Dichloroethane-d4	87.9	80	120		
Toluene-d8	105	88	110		
4-Bromofluorobenzene	116	86	115	*	
*	Surrogate or spike compound out of range				

Certificate of Analysis

ND	Not detected at or above the reporting limit (RL).
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Sample #: L12070658-09	PrePrep Method: N/A	Instrument: ICP-THERMO2
Client ID: WW-03	Prep Method: 3005A	Prep Date: 07/24/2012 06:26
Matrix: Water	Analytical Method: 6010B	Cal Date: 07/25/2012 13:34
Workgroup #: WG404495	Analyst: KHR	Run Date: 07/25/2012 16:53
Collect Date: 07/15/2012 15:10	Dilution: 1	File ID: T2.072512.165330
Sample Tag: 01	Units: mg/L	

Analyte	CAS #	Result	Qual	RL	MDL
Aluminum, Total	7429-90-5	0.0777	J	0.100	0.0500
Calcium, Total	7440-70-2	4.14		0.200	0.100
Iron, Total	7439-89-6	0.0557	J	0.100	0.0500
Magnesium, Total	7439-95-4	0.263	J	0.500	0.250
Potassium, Total	7440-09-7	12.5		1.00	0.500
Sodium, Total	7440-23-5	144		0.500	0.250
Strontium, Total	7440-24-6	0.707		0.0100	0.00500
J	Estimated value; the analyte concentration was less than the RL/LOQ.				

Sample #: L12070658-09	PrePrep Method: N/A	Instrument: ICP-MS2
Client ID: WW-03	Prep Method: 3015	Prep Date: 07/23/2012 13:44
Matrix: Water	Analytical Method: 6020	Cal Date: 07/29/2012 08:49
Workgroup #: WG404837	Analyst: JYH	Run Date: 07/29/2012 16:47
Collect Date: 07/15/2012 15:10	Dilution: 5	File ID: NI.072912.164751
Sample Tag: DL01	Units: mg/L	

Analyte	CAS #	Result	Qual	RL	MDL
Antimony, Total	7440-36-0		ND	0.00500	0.00250
Barium, Total	7440-39-3	0.0619		0.0150	0.00750
Cadmium, Total	7440-43-9		ND	0.00300	0.00150
Chromium, Total	7440-47-3	0.0110		0.0100	0.00500
Copper, Total	7440-50-8		ND	0.0100	0.00500
Lead, Total	7439-92-1		ND	0.00500	0.00250
Manganese, Total	7439-96-5		ND	0.0100	0.00500
Nickel, Total	7440-02-0		ND	0.0200	0.0100
Selenium, Total	7782-49-2		ND	0.00500	0.00250
Thallium, Total	7440-28-0		ND	0.00100	0.000500
Vanadium, Total	7440-62-2		ND	0.00500	0.00250
Zinc, Total	7440-66-6		ND	0.125	0.0625
ND	Not detected at or above the reporting limit (RL).				

Certificate of Analysis

Sample #: L12070658-10	PrePrep Method: N/A	Instrument: HPMS10
Client ID: 35B WW06	Prep Method: 5030B/5030C/5035A	Prep Date: N/A
Matrix: Water	Analytical Method: 8260B	Cal Date: 06/26/2012 15:11
Workgroup #: WG404058	Analyst: MES	Run Date: 07/21/2012 21:06
Collect Date: 07/16/2012 09:25	Dilution: 1	File ID: 10M97167
Sample Tag: 01	Units: ug/L	

Analyte	CAS #	Result	Qual	RL	MDL
Acetone	67-64-1		ND	10.0	2.50
Benzene	71-43-2		ND	1.00	0.125
Bromobenzene	108-86-1		ND	1.00	0.125
Bromochloromethane	74-97-5		ND	1.00	0.200
Bromodichloromethane	75-27-4		ND	1.00	0.250
Bromoform	75-25-2		ND	1.00	0.500
Bromomethane	74-83-9		ND	1.00	0.500
2-Butanone	78-93-3		ND	10.0	2.50
n-Butylbenzene	104-51-8		ND	1.00	0.250
sec-Butylbenzene	135-98-8		ND	1.00	0.250
tert-Butylbenzene	98-06-6		ND	1.00	0.250
Carbon disulfide	75-15-0		ND	1.00	0.500
Carbon tetrachloride	56-23-5		ND	1.00	0.250
Chlorobenzene	108-90-7		ND	1.00	0.125
Chlorodibromomethane	124-48-1		ND	1.00	0.250
Chloroethane	75-00-3		ND	1.00	0.500
2-Chloroethyl vinyl ether	110-75-8		ND	10.0	2.00
Chloroform	67-66-3		ND	1.00	0.125
Chloromethane	74-87-3		ND	1.00	0.500
2-Chlorotoluene	95-49-8		ND	1.00	0.125
4-Chlorotoluene	106-43-4		ND	1.00	0.250
1,2-Dibromo-3-chloropropane	96-12-8		ND	5.00	1.00
1,2-Dibromoethane	106-93-4		ND	1.00	0.250
Dibromomethane	74-95-3		ND	1.00	0.250
1,2-Dichlorobenzene	95-50-1		ND	1.00	0.125
1,3-Dichlorobenzene	541-73-1		ND	1.00	0.250
1,4-Dichlorobenzene	106-46-7		ND	1.00	0.125
Dichlorodifluoromethane	75-71-8		ND	1.00	0.250
1,1-Dichloroethane	75-34-3		ND	1.00	0.125
1,2-Dichloroethane	107-06-2		ND	1.00	0.250
1,1-Dichloroethene	75-35-4		ND	1.00	0.500
cis-1,2-Dichloroethene	156-59-2		ND	1.00	0.250
trans-1,2-Dichloroethene	156-60-5		ND	1.00	0.250

Certificate of Analysis

Analyte	CAS #	Result	Qual	RL	MDL
1,2-Dichloropropane	78-87-5		ND	1.00	0.200
1,3-Dichloropropane	142-28-9		ND	1.00	0.200
2,2-Dichloropropane	594-20-7		ND	1.00	0.250
cis-1,3-Dichloropropene	10061-01-5		ND	1.00	0.250
trans-1,3-Dichloropropene	10061-02-6		ND	1.00	0.500
1,1-Dichloropropene	563-58-6		ND	1.00	0.250
Ethylbenzene	100-41-4		ND	1.00	0.250
2-Hexanone	591-78-6		ND	10.0	2.50
Hexachlorobutadiene	87-68-3		ND	1.00	0.250
Isopropylbenzene	98-82-8		ND	1.00	0.250
p-Isopropyltoluene	99-87-6		ND	1.00	0.250
4-Methyl-2-pentanone	108-10-1		ND	10.0	2.50
Methylene chloride	75-09-2		ND	5.00	0.250
Naphthalene	91-20-3		ND	1.00	0.200
n-Propylbenzene	103-65-1		ND	1.00	0.125
Styrene	100-42-5		ND	1.00	0.125
1,1,1,2-Tetrachloroethane	630-20-6		ND	1.00	0.250
1,1,2,2-Tetrachloroethane	79-34-5		ND	1.00	0.200
Tetrachloroethene	127-18-4		ND	1.00	0.250
Toluene	108-88-3		ND	1.00	0.250
1,2,3-Trichlorobenzene	87-61-6		ND	1.00	0.150
1,2,4-Trichlorobenzene	120-82-1		ND	1.00	0.200
1,1,1-Trichloroethane	71-55-6		ND	1.00	0.250
1,1,2-Trichloroethane	79-00-5		ND	1.00	0.250
Trichloroethene	79-01-6		ND	1.00	0.250
Trichlorofluoromethane	75-69-4		ND	1.00	0.250
1,2,3-Trichloropropane	96-18-4		ND	1.00	0.500
1,2,4-Trimethylbenzene	95-63-6		ND	1.00	0.250
1,3,5-Trimethylbenzene	108-67-8		ND	1.00	0.250
Vinyl acetate	108-05-4		ND	10.0	2.50
Vinyl chloride	75-01-4		ND	1.00	0.250
o-Xylene	95-47-6		ND	1.00	0.250
m-,p-Xylene	179601-23-1		ND	1.00	0.500
Surrogate	Recovery	Lower Limit	Upper Limit	Q	
Dibromofluoromethane	98.8	86	118		
1,2-Dichloroethane-d4	99.0	80	120		
Toluene-d8	101	88	110		
4-Bromofluorobenzene	105	86	115		
ND	Not detected at or above the reporting limit (RL).				

Certificate of Analysis

Sample #: L12070658-10	PrePrep Method: N/A	Instrument: ICP-THERMO2
Client ID: 35B WW06	Prep Method: 3005A	Prep Date: 07/24/2012 06:26
Matrix: Water	Analytical Method: 6010B	Cal Date: 07/25/2012 13:34
Workgroup #: WG404495	Analyst: KHR	Run Date: 07/25/2012 16:56
Collect Date: 07/16/2012 09:25	Dilution: 1	File ID: T2.072512.165637
Sample Tag: 01	Units: mg/L	

Analyte	CAS #	Result	Qual	RL	MDL
Aluminum, Total	7429-90-5	0.112		0.100	0.0500
Calcium, Total	7440-70-2	73.2		0.200	0.100
Iron, Total	7439-89-6	1.97		0.100	0.0500
Magnesium, Total	7439-95-4	25.5		0.500	0.250
Potassium, Total	7440-09-7	3.50		1.00	0.500
Sodium, Total	7440-23-5	186		0.500	0.250
Strontium, Total	7440-24-6	2.57		0.0100	0.00500

Sample #: L12070658-10	PrePrep Method: N/A	Instrument: ICP-MS2
Client ID: 35B WW06	Prep Method: 3015	Prep Date: 07/23/2012 13:44
Matrix: Water	Analytical Method: 6020	Cal Date: 07/29/2012 08:49
Workgroup #: WG404837	Analyst: JYH	Run Date: 07/29/2012 16:51
Collect Date: 07/16/2012 09:25	Dilution: 5	File ID: NI.072912.165101
Sample Tag: DL01	Units: mg/L	

Analyte	CAS #	Result	Qual	RL	MDL
Antimony, Total	7440-36-0		ND	0.00500	0.00250
Barium, Total	7440-39-3	0.0835		0.0150	0.00750
Cadmium, Total	7440-43-9		ND	0.00300	0.00150
Chromium, Total	7440-47-3		ND	0.0100	0.00500
Copper, Total	7440-50-8		ND	0.0100	0.00500
Lead, Total	7439-92-1		ND	0.00500	0.00250
Manganese, Total	7439-96-5	0.0693		0.0100	0.00500
Nickel, Total	7440-02-0		ND	0.0200	0.0100
Selenium, Total	7782-49-2	0.00435	J	0.00500	0.00250
Thallium, Total	7440-28-0		ND	0.00100	0.000500
Vanadium, Total	7440-62-2		ND	0.00500	0.00250
Zinc, Total	7440-66-6		ND	0.125	0.0625
J	Estimated value; the analyte concentration was less than the RL/LOQ.				
ND	Not detected at or above the reporting limit (RL).				

Certificate of Analysis

Sample #: L12070658-11	PrePrep Method: N/A	Instrument: HPMS10
Client ID: FIELD BLANK 16JULY2012	Prep Method: 5030B/5030C/5035A	Prep Date: N/A
Matrix: Water	Analytical Method: 8260B	Cal Date: 06/26/2012 15:11
Workgroup #: WG404058	Analyst: MES	Run Date: 07/21/2012 21:35
Collect Date: 07/16/2012 09:20	Dilution: 1	File ID: 10M97168
Sample Tag: 01	Units: ug/L	

Analyte	CAS #	Result	Qual	RL	MDL
Acetone	67-64-1		ND	10.0	2.50
Benzene	71-43-2		ND	1.00	0.125
Bromobenzene	108-86-1		ND	1.00	0.125
Bromochloromethane	74-97-5		ND	1.00	0.200
Bromodichloromethane	75-27-4		ND	1.00	0.250
Bromoform	75-25-2		ND	1.00	0.500
Bromomethane	74-83-9		ND	1.00	0.500
2-Butanone	78-93-3		ND	10.0	2.50
n-Butylbenzene	104-51-8		ND	1.00	0.250
sec-Butylbenzene	135-98-8		ND	1.00	0.250
tert-Butylbenzene	98-06-6		ND	1.00	0.250
Carbon disulfide	75-15-0		ND	1.00	0.500
Carbon tetrachloride	56-23-5		ND	1.00	0.250
Chlorobenzene	108-90-7		ND	1.00	0.125
Chlorodibromomethane	124-48-1		ND	1.00	0.250
Chloroethane	75-00-3		ND	1.00	0.500
2-Chloroethyl vinyl ether	110-75-8		ND	10.0	2.00
Chloroform	67-66-3		ND	1.00	0.125
Chloromethane	74-87-3		ND	1.00	0.500
2-Chlorotoluene	95-49-8		ND	1.00	0.125
4-Chlorotoluene	106-43-4		ND	1.00	0.250
1,2-Dibromo-3-chloropropane	96-12-8		ND	5.00	1.00
1,2-Dibromoethane	106-93-4		ND	1.00	0.250
Dibromomethane	74-95-3		ND	1.00	0.250
1,2-Dichlorobenzene	95-50-1		ND	1.00	0.125
1,3-Dichlorobenzene	541-73-1		ND	1.00	0.250
1,4-Dichlorobenzene	106-46-7		ND	1.00	0.125
Dichlorodifluoromethane	75-71-8		ND	1.00	0.250
1,1-Dichloroethane	75-34-3		ND	1.00	0.125
1,2-Dichloroethane	107-06-2		ND	1.00	0.250
1,1-Dichloroethene	75-35-4		ND	1.00	0.500
cis-1,2-Dichloroethene	156-59-2		ND	1.00	0.250
trans-1,2-Dichloroethene	156-60-5		ND	1.00	0.250

Certificate of Analysis

Analyte	CAS #	Result	Qual	RL	MDL
1,2-Dichloropropane	78-87-5		ND	1.00	0.200
1,3-Dichloropropane	142-28-9		ND	1.00	0.200
2,2-Dichloropropane	594-20-7		ND	1.00	0.250
cis-1,3-Dichloropropene	10061-01-5		ND	1.00	0.250
trans-1,3-Dichloropropene	10061-02-6		ND	1.00	0.500
1,1-Dichloropropene	563-58-6		ND	1.00	0.250
Ethylbenzene	100-41-4		ND	1.00	0.250
2-Hexanone	591-78-6		ND	10.0	2.50
Hexachlorobutadiene	87-68-3		ND	1.00	0.250
Isopropylbenzene	98-82-8		ND	1.00	0.250
p-Isopropyltoluene	99-87-6		ND	1.00	0.250
4-Methyl-2-pentanone	108-10-1		ND	10.0	2.50
Methylene chloride	75-09-2		ND	5.00	0.250
Naphthalene	91-20-3		ND	1.00	0.200
n-Propylbenzene	103-65-1		ND	1.00	0.125
Styrene	100-42-5		ND	1.00	0.125
1,1,1,2-Tetrachloroethane	630-20-6		ND	1.00	0.250
1,1,2,2-Tetrachloroethane	79-34-5		ND	1.00	0.200
Tetrachloroethene	127-18-4		ND	1.00	0.250
Toluene	108-88-3	0.512	J	1.00	0.250
1,2,3-Trichlorobenzene	87-61-6		ND	1.00	0.150
1,2,4-Trichlorobenzene	120-82-1		ND	1.00	0.200
1,1,1-Trichloroethane	71-55-6		ND	1.00	0.250
1,1,2-Trichloroethane	79-00-5		ND	1.00	0.250
Trichloroethene	79-01-6		ND	1.00	0.250
Trichlorofluoromethane	75-69-4		ND	1.00	0.250
1,2,3-Trichloropropane	96-18-4		ND	1.00	0.500
1,2,4-Trimethylbenzene	95-63-6		ND	1.00	0.250
1,3,5-Trimethylbenzene	108-67-8		ND	1.00	0.250
Vinyl acetate	108-05-4		ND	10.0	2.50
Vinyl chloride	75-01-4		ND	1.00	0.250
o-Xylene	95-47-6		ND	1.00	0.250
m-,p-Xylene	179601-23-1		ND	1.00	0.500
Surrogate	Recovery	Lower Limit	Upper Limit	Q	
Dibromofluoromethane	98.4	86	118		
1,2-Dichloroethane-d4	98.1	80	120		
Toluene-d8	101	88	110		
4-Bromofluorobenzene	105	86	115		
J	Estimated value; the analyte concentration was less than the RL/LOQ.				

Certificate of Analysis

ND	Not detected at or above the reporting limit (RL).
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Sample #: L12070658-11	PrePrep Method: N/A	Instrument: ICP-THERMO2
Client ID: FIELD BLANK 16JULY2012	Prep Method: 3005A	Prep Date: 07/24/2012 06:26
Matrix: Water	Analytical Method: 6010B	Cal Date: 07/25/2012 13:34
Workgroup #: WG404495	Analyst: KHR	Run Date: 07/25/2012 17:05
Collect Date: 07/16/2012 09:20	Dilution: 1	File ID: T2.072512.170547
Sample Tag: 01	Units: mg/L	

Analyte	CAS #	Result	Qual	RL	MDL
Aluminum, Total	7429-90-5		ND	0.100	0.0500
Calcium, Total	7440-70-2		ND	0.200	0.100
Iron, Total	7439-89-6		ND	0.100	0.0500
Magnesium, Total	7439-95-4		ND	0.500	0.250
Potassium, Total	7440-09-7		ND	1.00	0.500
Sodium, Total	7440-23-5	0.524		0.500	0.250
Strontium, Total	7440-24-6		ND	0.0100	0.00500
ND	Not detected at or above the reporting limit (RL).				

Sample #: L12070658-11	PrePrep Method: N/A	Instrument: ICP-MS2
Client ID: FIELD BLANK 16JULY2012	Prep Method: 3015	Prep Date: 07/23/2012 13:44
Matrix: Water	Analytical Method: 6020	Cal Date: 07/29/2012 08:49
Workgroup #: WG404837	Analyst: JYH	Run Date: 07/29/2012 16:54
Collect Date: 07/16/2012 09:20	Dilution: 5	File ID: NI.072912.165411
Sample Tag: DL01	Units: mg/L	

Analyte	CAS #	Result	Qual	RL	MDL
Antimony, Total	7440-36-0		ND	0.00500	0.00250
Barium, Total	7440-39-3		ND	0.0150	0.00750
Cadmium, Total	7440-43-9		ND	0.00300	0.00150
Chromium, Total	7440-47-3		ND	0.0100	0.00500
Copper, Total	7440-50-8		ND	0.0100	0.00500
Lead, Total	7439-92-1		ND	0.00500	0.00250
Manganese, Total	7439-96-5		ND	0.0100	0.00500
Nickel, Total	7440-02-0		ND	0.0200	0.0100
Selenium, Total	7782-49-2		ND	0.00500	0.00250
Thallium, Total	7440-28-0		ND	0.00100	0.000500
Vanadium, Total	7440-62-2		ND	0.00500	0.00250
Zinc, Total	7440-66-6		ND	0.125	0.0625
ND	Not detected at or above the reporting limit (RL).				

Certificate of Analysis

Sample #: L12070658-12	PrePrep Method: N/A	Instrument: HPMS10
Client ID: MW3-3	Prep Method: 5030B/5030C/5035A	Prep Date: N/A
Matrix: Water	Analytical Method: 8260B	Cal Date: 06/26/2012 15:11
Workgroup #: WG404058	Analyst: MES	Run Date: 07/21/2012 22:04
Collect Date: 07/15/2012 13:25	Dilution: 1	File ID: 10M97169
Sample Tag: 01	Units: ug/L	

Analyte	CAS #	Result	Qual	RL	MDL
Acetone	67-64-1	2.74	J	10.0	2.50
Benzene	71-43-2		ND	1.00	0.125
Bromobenzene	108-86-1		ND	1.00	0.125
Bromochloromethane	74-97-5		ND	1.00	0.200
Bromodichloromethane	75-27-4		ND	1.00	0.250
Bromoform	75-25-2		ND	1.00	0.500
Bromomethane	74-83-9		ND	1.00	0.500
2-Butanone	78-93-3		ND	10.0	2.50
n-Butylbenzene	104-51-8		ND	1.00	0.250
sec-Butylbenzene	135-98-8		ND	1.00	0.250
tert-Butylbenzene	98-06-6		ND	1.00	0.250
Carbon disulfide	75-15-0	3.11		1.00	0.500
Carbon tetrachloride	56-23-5		ND	1.00	0.250
Chlorobenzene	108-90-7		ND	1.00	0.125
Chlorodibromomethane	124-48-1		ND	1.00	0.250
Chloroethane	75-00-3		ND	1.00	0.500
2-Chloroethyl vinyl ether	110-75-8		ND	10.0	2.00
Chloroform	67-66-3		ND	1.00	0.125
Chloromethane	74-87-3		ND	1.00	0.500
2-Chlorotoluene	95-49-8		ND	1.00	0.125
4-Chlorotoluene	106-43-4		ND	1.00	0.250
1,2-Dibromo-3-chloropropane	96-12-8		ND	5.00	1.00
1,2-Dibromoethane	106-93-4		ND	1.00	0.250
Dibromomethane	74-95-3		ND	1.00	0.250
1,2-Dichlorobenzene	95-50-1		ND	1.00	0.125
1,3-Dichlorobenzene	541-73-1		ND	1.00	0.250
1,4-Dichlorobenzene	106-46-7		ND	1.00	0.125
Dichlorodifluoromethane	75-71-8		ND	1.00	0.250
1,1-Dichloroethane	75-34-3	0.444	J	1.00	0.125
1,2-Dichloroethane	107-06-2		ND	1.00	0.250
1,1-Dichloroethene	75-35-4	1.34		1.00	0.500
cis-1,2-Dichloroethene	156-59-2	0.311	J	1.00	0.250
trans-1,2-Dichloroethene	156-60-5		ND	1.00	0.250

Certificate of Analysis

Analyte	CAS #	Result	Qual	RL	MDL
1,2-Dichloropropane	78-87-5		ND	1.00	0.200
1,3-Dichloropropane	142-28-9		ND	1.00	0.200
2,2-Dichloropropane	594-20-7		ND	1.00	0.250
cis-1,3-Dichloropropene	10061-01-5		ND	1.00	0.250
trans-1,3-Dichloropropene	10061-02-6		ND	1.00	0.500
1,1-Dichloropropene	563-58-6		ND	1.00	0.250
Ethylbenzene	100-41-4		ND	1.00	0.250
2-Hexanone	591-78-6		ND	10.0	2.50
Hexachlorobutadiene	87-68-3		ND	1.00	0.250
Isopropylbenzene	98-82-8		ND	1.00	0.250
p-Isopropyltoluene	99-87-6	2.02		1.00	0.250
4-Methyl-2-pentanone	108-10-1		ND	10.0	2.50
Methylene chloride	75-09-2		ND	5.00	0.250
Naphthalene	91-20-3		ND	1.00	0.200
n-Propylbenzene	103-65-1		ND	1.00	0.125
Styrene	100-42-5		ND	1.00	0.125
1,1,1,2-Tetrachloroethane	630-20-6		ND	1.00	0.250
1,1,2,2-Tetrachloroethane	79-34-5		ND	1.00	0.200
Tetrachloroethene	127-18-4	60.5		1.00	0.250
Toluene	108-88-3		ND	1.00	0.250
1,2,3-Trichlorobenzene	87-61-6		ND	1.00	0.150
1,2,4-Trichlorobenzene	120-82-1		ND	1.00	0.200
1,1,1-Trichloroethane	71-55-6		ND	1.00	0.250
1,1,2-Trichloroethane	79-00-5		ND	1.00	0.250
Trichloroethene	79-01-6	5.99		1.00	0.250
Trichlorofluoromethane	75-69-4		ND	1.00	0.250
1,2,3-Trichloropropane	96-18-4		ND	1.00	0.500
1,2,4-Trimethylbenzene	95-63-6		ND	1.00	0.250
1,3,5-Trimethylbenzene	108-67-8		ND	1.00	0.250
Vinyl acetate	108-05-4		ND	10.0	2.50
Vinyl chloride	75-01-4		ND	1.00	0.250
o-Xylene	95-47-6		ND	1.00	0.250
m-,p-Xylene	179601-23-1		ND	1.00	0.500
Surrogate	Recovery	Lower Limit	Upper Limit	Q	
Dibromofluoromethane	99.5	86	118		
1,2-Dichloroethane-d4	99.3	80	120		
Toluene-d8	100	88	110		
4-Bromofluorobenzene	102	86	115		
J	Estimated value; the analyte concentration was less than the RL/LOQ.				

Certificate of Analysis

ND	Not detected at or above the reporting limit (RL).
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Sample #: L12070658-12	PrePrep Method: N/A	Instrument: ICP-THERMO2
Client ID: MW3-3	Prep Method: 3005A	Prep Date: 07/24/2012 06:26
Matrix: Water	Analytical Method: 6010B	Cal Date: 07/25/2012 13:34
Workgroup #: WG404495	Analyst: KHR	Run Date: 07/25/2012 17:08
Collect Date: 07/15/2012 13:25	Dilution: 1	File ID: T2.072512.170855
Sample Tag: 01	Units: mg/L	

Analyte	CAS #	Result	Qual	RL	MDL
Aluminum, Total	7429-90-5	3.54		0.100	0.0500
Calcium, Total	7440-70-2	15.7		0.200	0.100
Iron, Total	7439-89-6	5.31		0.100	0.0500
Magnesium, Total	7439-95-4	4.08		0.500	0.250
Potassium, Total	7440-09-7	9.15		1.00	0.500
Sodium, Total	7440-23-5	66.7		0.500	0.250
Strontium, Total	7440-24-6	0.281		0.0100	0.00500

Sample #: L12070658-12	PrePrep Method: N/A	Instrument: ICP-MS2
Client ID: MW3-3	Prep Method: 3015	Prep Date: 07/24/2012 12:43
Matrix: Water	Analytical Method: 6020	Cal Date: 07/29/2012 08:49
Workgroup #: WG404831	Analyst: JYH	Run Date: 07/29/2012 09:44
Collect Date: 07/15/2012 13:25	Dilution: 5	File ID: NI.072912.094407
Sample Tag: DL01	Units: mg/L	

Analyte	CAS #	Result	Qual	RL	MDL
Antimony, Total	7440-36-0		ND	0.00500	0.00250
Barium, Total	7440-39-3	0.121		0.0150	0.00750
Cadmium, Total	7440-43-9		ND	0.00300	0.00150
Chromium, Total	7440-47-3	0.0158		0.0100	0.00500
Copper, Total	7440-50-8		ND	0.0100	0.00500
Lead, Total	7439-92-1	0.00296	J	0.00500	0.00250
Manganese, Total	7439-96-5	0.336		0.0100	0.00500
Nickel, Total	7440-02-0		ND	0.0200	0.0100
Selenium, Total	7782-49-2		ND	0.00500	0.00250
Thallium, Total	7440-28-0		ND	0.00100	0.000500
Vanadium, Total	7440-62-2	0.00877		0.00500	0.00250
Zinc, Total	7440-66-6		ND	0.125	0.0625
J	Estimated value; the analyte concentration was less than the RL/LOQ.				
ND	Not detected at or above the reporting limit (RL).				

Certificate of Analysis

Sample #: L12070658-13	PrePrep Method: N/A	Instrument: HPMS10
Client ID: TRIP BLANK 16JULY2012	Prep Method: 5030B/5030C/5035A	Prep Date: N/A
Matrix: Water	Analytical Method: 8260B	Cal Date: 06/26/2012 15:11
Workgroup #: WG404058	Analyst: MES	Run Date: 07/21/2012 19:08
Collect Date: 07/16/2012 00:01	Dilution: 1	File ID: 10M97163
Sample Tag: 01	Units: ug/L	

Analyte	CAS #	Result	Qual	RL	MDL
Acetone	67-64-1		ND	10.0	2.50
Benzene	71-43-2		ND	1.00	0.125
Bromobenzene	108-86-1		ND	1.00	0.125
Bromochloromethane	74-97-5		ND	1.00	0.200
Bromodichloromethane	75-27-4		ND	1.00	0.250
Bromoform	75-25-2		ND	1.00	0.500
Bromomethane	74-83-9		ND	1.00	0.500
2-Butanone	78-93-3		ND	10.0	2.50
n-Butylbenzene	104-51-8		ND	1.00	0.250
sec-Butylbenzene	135-98-8		ND	1.00	0.250
tert-Butylbenzene	98-06-6		ND	1.00	0.250
Carbon disulfide	75-15-0		ND	1.00	0.500
Carbon tetrachloride	56-23-5		ND	1.00	0.250
Chlorobenzene	108-90-7		ND	1.00	0.125
Chlorodibromomethane	124-48-1		ND	1.00	0.250
Chloroethane	75-00-3		ND	1.00	0.500
2-Chloroethyl vinyl ether	110-75-8		ND	10.0	2.00
Chloroform	67-66-3		ND	1.00	0.125
Chloromethane	74-87-3		ND	1.00	0.500
2-Chlorotoluene	95-49-8		ND	1.00	0.125
4-Chlorotoluene	106-43-4		ND	1.00	0.250
1,2-Dibromo-3-chloropropane	96-12-8		ND	5.00	1.00
1,2-Dibromoethane	106-93-4		ND	1.00	0.250
Dibromomethane	74-95-3		ND	1.00	0.250
1,2-Dichlorobenzene	95-50-1		ND	1.00	0.125
1,3-Dichlorobenzene	541-73-1		ND	1.00	0.250
1,4-Dichlorobenzene	106-46-7		ND	1.00	0.125
Dichlorodifluoromethane	75-71-8		ND	1.00	0.250
1,1-Dichloroethane	75-34-3		ND	1.00	0.125
1,2-Dichloroethane	107-06-2		ND	1.00	0.250
1,1-Dichloroethene	75-35-4		ND	1.00	0.500
cis-1,2-Dichloroethene	156-59-2		ND	1.00	0.250
trans-1,2-Dichloroethene	156-60-5		ND	1.00	0.250

Certificate of Analysis

Analyte	CAS #	Result	Qual	RL	MDL
1,2-Dichloropropane	78-87-5		ND	1.00	0.200
1,3-Dichloropropane	142-28-9		ND	1.00	0.200
2,2-Dichloropropane	594-20-7		ND	1.00	0.250
cis-1,3-Dichloropropene	10061-01-5		ND	1.00	0.250
trans-1,3-Dichloropropene	10061-02-6		ND	1.00	0.500
1,1-Dichloropropene	563-58-6		ND	1.00	0.250
Ethylbenzene	100-41-4		ND	1.00	0.250
2-Hexanone	591-78-6		ND	10.0	2.50
Hexachlorobutadiene	87-68-3		ND	1.00	0.250
Isopropylbenzene	98-82-8		ND	1.00	0.250
p-Isopropyltoluene	99-87-6		ND	1.00	0.250
4-Methyl-2-pentanone	108-10-1		ND	10.0	2.50
Methylene chloride	75-09-2		ND	5.00	0.250
Naphthalene	91-20-3		ND	1.00	0.200
n-Propylbenzene	103-65-1		ND	1.00	0.125
Styrene	100-42-5		ND	1.00	0.125
1,1,1,2-Tetrachloroethane	630-20-6		ND	1.00	0.250
1,1,2,2-Tetrachloroethane	79-34-5		ND	1.00	0.200
Tetrachloroethene	127-18-4		ND	1.00	0.250
Toluene	108-88-3		ND	1.00	0.250
1,2,3-Trichlorobenzene	87-61-6		ND	1.00	0.150
1,2,4-Trichlorobenzene	120-82-1		ND	1.00	0.200
1,1,1-Trichloroethane	71-55-6		ND	1.00	0.250
1,1,2-Trichloroethane	79-00-5		ND	1.00	0.250
Trichloroethene	79-01-6		ND	1.00	0.250
Trichlorofluoromethane	75-69-4		ND	1.00	0.250
1,2,3-Trichloropropane	96-18-4		ND	1.00	0.500
1,2,4-Trimethylbenzene	95-63-6		ND	1.00	0.250
1,3,5-Trimethylbenzene	108-67-8		ND	1.00	0.250
Vinyl acetate	108-05-4		ND	10.0	2.50
Vinyl chloride	75-01-4		ND	1.00	0.250
o-Xylene	95-47-6		ND	1.00	0.250
m-,p-Xylene	179601-23-1		ND	1.00	0.500
Surrogate	Recovery	Lower Limit	Upper Limit	Q	
Dibromofluoromethane	98.0	86	118		
1,2-Dichloroethane-d4	101	80	120		
Toluene-d8	101	88	110		
4-Bromofluorobenzene	104	86	115		
ND	Not detected at or above the reporting limit (RL).				

Certificate of Analysis

Sample #: L12070658-14	PrePrep Method: N/A	Instrument: HPMS10
Client ID: 35B WW05	Prep Method: 5030B/5030C/5035A	Prep Date: N/A
Matrix: Water	Analytical Method: 8260B	Cal Date: 06/26/2012 15:11
Workgroup #: WG404058	Analyst: MES	Run Date: 07/21/2012 22:34
Collect Date: 07/16/2012 10:45	Dilution: 1	File ID: 10M97170
Sample Tag: 01	Units: ug/L	

Analyte	CAS #	Result	Qual	RL	MDL
Acetone	67-64-1		ND	10.0	2.50
Benzene	71-43-2		ND	1.00	0.125
Bromobenzene	108-86-1		ND	1.00	0.125
Bromochloromethane	74-97-5		ND	1.00	0.200
Bromodichloromethane	75-27-4		ND	1.00	0.250
Bromoform	75-25-2		ND	1.00	0.500
Bromomethane	74-83-9		ND	1.00	0.500
2-Butanone	78-93-3		ND	10.0	2.50
n-Butylbenzene	104-51-8		ND	1.00	0.250
sec-Butylbenzene	135-98-8		ND	1.00	0.250
tert-Butylbenzene	98-06-6		ND	1.00	0.250
Carbon disulfide	75-15-0		ND	1.00	0.500
Carbon tetrachloride	56-23-5		ND	1.00	0.250
Chlorobenzene	108-90-7		ND	1.00	0.125
Chlorodibromomethane	124-48-1		ND	1.00	0.250
Chloroethane	75-00-3		ND	1.00	0.500
2-Chloroethyl vinyl ether	110-75-8		ND	10.0	2.00
Chloroform	67-66-3		ND	1.00	0.125
Chloromethane	74-87-3		ND	1.00	0.500
2-Chlorotoluene	95-49-8		ND	1.00	0.125
4-Chlorotoluene	106-43-4		ND	1.00	0.250
1,2-Dibromo-3-chloropropane	96-12-8		ND	5.00	1.00
1,2-Dibromoethane	106-93-4		ND	1.00	0.250
Dibromomethane	74-95-3		ND	1.00	0.250
1,2-Dichlorobenzene	95-50-1		ND	1.00	0.125
1,3-Dichlorobenzene	541-73-1		ND	1.00	0.250
1,4-Dichlorobenzene	106-46-7		ND	1.00	0.125
Dichlorodifluoromethane	75-71-8		ND	1.00	0.250
1,1-Dichloroethane	75-34-3		ND	1.00	0.125
1,2-Dichloroethane	107-06-2		ND	1.00	0.250
1,1-Dichloroethene	75-35-4		ND	1.00	0.500
cis-1,2-Dichloroethene	156-59-2		ND	1.00	0.250
trans-1,2-Dichloroethene	156-60-5		ND	1.00	0.250

Certificate of Analysis

Analyte	CAS #	Result	Qual	RL	MDL
1,2-Dichloropropane	78-87-5		ND	1.00	0.200
1,3-Dichloropropane	142-28-9		ND	1.00	0.200
2,2-Dichloropropane	594-20-7		ND	1.00	0.250
cis-1,3-Dichloropropene	10061-01-5		ND	1.00	0.250
trans-1,3-Dichloropropene	10061-02-6		ND	1.00	0.500
1,1-Dichloropropene	563-58-6		ND	1.00	0.250
Ethylbenzene	100-41-4		ND	1.00	0.250
2-Hexanone	591-78-6		ND	10.0	2.50
Hexachlorobutadiene	87-68-3		ND	1.00	0.250
Isopropylbenzene	98-82-8		ND	1.00	0.250
p-Isopropyltoluene	99-87-6		ND	1.00	0.250
4-Methyl-2-pentanone	108-10-1		ND	10.0	2.50
Methylene chloride	75-09-2		ND	5.00	0.250
Naphthalene	91-20-3		ND	1.00	0.200
n-Propylbenzene	103-65-1		ND	1.00	0.125
Styrene	100-42-5		ND	1.00	0.125
1,1,1,2-Tetrachloroethane	630-20-6		ND	1.00	0.250
1,1,2,2-Tetrachloroethane	79-34-5		ND	1.00	0.200
Tetrachloroethene	127-18-4	1.09		1.00	0.250
Toluene	108-88-3		ND	1.00	0.250
1,2,3-Trichlorobenzene	87-61-6		ND	1.00	0.150
1,2,4-Trichlorobenzene	120-82-1		ND	1.00	0.200
1,1,1-Trichloroethane	71-55-6		ND	1.00	0.250
1,1,2-Trichloroethane	79-00-5		ND	1.00	0.250
Trichloroethene	79-01-6	13.5		1.00	0.250
Trichlorofluoromethane	75-69-4		ND	1.00	0.250
1,2,3-Trichloropropane	96-18-4		ND	1.00	0.500
1,2,4-Trimethylbenzene	95-63-6		ND	1.00	0.250
1,3,5-Trimethylbenzene	108-67-8		ND	1.00	0.250
Vinyl acetate	108-05-4		ND	10.0	2.50
Vinyl chloride	75-01-4		ND	1.00	0.250
o-Xylene	95-47-6		ND	1.00	0.250
m-,p-Xylene	179601-23-1		ND	1.00	0.500
Surrogate	Recovery	Lower Limit	Upper Limit	Q	
Dibromofluoromethane	98.7	86	118		
1,2-Dichloroethane-d4	96.1	80	120		
Toluene-d8	101	88	110		
4-Bromofluorobenzene	105	86	115		
ND	Not detected at or above the reporting limit (RL).				

Lab Report #: L12070658
 Lab Project #: 3083.001
 Project Name: Longhorn AAP
 Lab Contact: Kathy Albertson

Certificate of Analysis

Sample #: L12070658-14	PrePrep Method: N/A	Instrument: ICP-THERMO2
Client ID: 35B WW05	Prep Method: 3005A	Prep Date: 07/24/2012 06:26
Matrix: Water	Analytical Method: 6010B	Cal Date: 07/25/2012 13:34
Workgroup #: WG404495	Analyst: KHR	Run Date: 07/25/2012 17:24
Collect Date: 07/16/2012 10:45	Dilution: 1	File ID: T2.072512.172433
Sample Tag: 01	Units: mg/L	

Analyte	CAS #	Result	Qual	RL	MDL
Aluminum, Total	7429-90-5	4.36		0.100	0.0500
Calcium, Total	7440-70-2	11.8		0.200	0.100
Iron, Total	7439-89-6	15.5		0.100	0.0500
Magnesium, Total	7439-95-4	7.34		0.500	0.250
Potassium, Total	7440-09-7	1.79		1.00	0.500
Sodium, Total	7440-23-5	59.8		0.500	0.250
Strontium, Total	7440-24-6	0.442		0.0100	0.00500

Sample #: L12070658-14	PrePrep Method: N/A	Instrument: ICP-MS2
Client ID: 35B WW05	Prep Method: 3015	Prep Date: 07/24/2012 12:43
Matrix: Water	Analytical Method: 6020	Cal Date: 07/29/2012 08:49
Workgroup #: WG404831	Analyst: JYH	Run Date: 07/29/2012 10:37
Collect Date: 07/16/2012 10:45	Dilution: 5	File ID: NI.072912.103756
Sample Tag: DL01	Units: mg/L	

Analyte	CAS #	Result	Qual	RL	MDL
Antimony, Total	7440-36-0		ND	0.00500	0.00250
Barium, Total	7440-39-3	0.106		0.0150	0.00750
Cadmium, Total	7440-43-9		ND	0.00300	0.00150
Chromium, Total	7440-47-3	0.00708	J	0.0100	0.00500
Copper, Total	7440-50-8	0.00524	J	0.0100	0.00500
Lead, Total	7439-92-1	0.00379	J	0.00500	0.00250
Manganese, Total	7439-96-5	0.194		0.0100	0.00500
Nickel, Total	7440-02-0	0.0100	J	0.0200	0.0100
Selenium, Total	7782-49-2		ND	0.00500	0.00250
Thallium, Total	7440-28-0		ND	0.00100	0.000500
Vanadium, Total	7440-62-2	0.0102		0.00500	0.00250
Zinc, Total	7440-66-6	0.195		0.125	0.0625

J	Estimated value; the analyte concentration was less than the RL/LOQ.
ND	Not detected at or above the reporting limit (RL).

Certificate of Analysis

Sample #: L12070658-15	PrePrep Method: N/A	Instrument: HPMS10
Client ID: MW1-1	Prep Method: 5030B/5030C/5035A	Prep Date: N/A
Matrix: Water	Analytical Method: 8260B	Cal Date: 06/26/2012 15:11
Workgroup #: WG404058	Analyst: MES	Run Date: 07/21/2012 23:03
Collect Date: 07/16/2012 12:00	Dilution: 1	File ID: 10M97171
Sample Tag: 01	Units: ug/L	

Analyte	CAS #	Result	Qual	RL	MDL
Acetone	67-64-1		ND	10.0	2.50
Benzene	71-43-2		ND	1.00	0.125
Bromobenzene	108-86-1		ND	1.00	0.125
Bromochloromethane	74-97-5		ND	1.00	0.200
Bromodichloromethane	75-27-4		ND	1.00	0.250
Bromoform	75-25-2		ND	1.00	0.500
Bromomethane	74-83-9		ND	1.00	0.500
2-Butanone	78-93-3		ND	10.0	2.50
n-Butylbenzene	104-51-8		ND	1.00	0.250
sec-Butylbenzene	135-98-8		ND	1.00	0.250
tert-Butylbenzene	98-06-6		ND	1.00	0.250
Carbon disulfide	75-15-0		ND	1.00	0.500
Carbon tetrachloride	56-23-5		ND	1.00	0.250
Chlorobenzene	108-90-7		ND	1.00	0.125
Chlorodibromomethane	124-48-1		ND	1.00	0.250
Chloroethane	75-00-3		ND	1.00	0.500
2-Chloroethyl vinyl ether	110-75-8		ND	10.0	2.00
Chloroform	67-66-3		ND	1.00	0.125
Chloromethane	74-87-3		ND	1.00	0.500
2-Chlorotoluene	95-49-8		ND	1.00	0.125
4-Chlorotoluene	106-43-4		ND	1.00	0.250
1,2-Dibromo-3-chloropropane	96-12-8		ND	5.00	1.00
1,2-Dibromoethane	106-93-4		ND	1.00	0.250
Dibromomethane	74-95-3		ND	1.00	0.250
1,2-Dichlorobenzene	95-50-1		ND	1.00	0.125
1,3-Dichlorobenzene	541-73-1		ND	1.00	0.250
1,4-Dichlorobenzene	106-46-7		ND	1.00	0.125
Dichlorodifluoromethane	75-71-8		ND	1.00	0.250
1,1-Dichloroethane	75-34-3		ND	1.00	0.125
1,2-Dichloroethane	107-06-2		ND	1.00	0.250
1,1-Dichloroethene	75-35-4		ND	1.00	0.500
cis-1,2-Dichloroethene	156-59-2		ND	1.00	0.250
trans-1,2-Dichloroethene	156-60-5		ND	1.00	0.250

Certificate of Analysis

Analyte	CAS #	Result	Qual	RL	MDL
1,2-Dichloropropane	78-87-5		ND	1.00	0.200
1,3-Dichloropropane	142-28-9		ND	1.00	0.200
2,2-Dichloropropane	594-20-7		ND	1.00	0.250
cis-1,3-Dichloropropene	10061-01-5		ND	1.00	0.250
trans-1,3-Dichloropropene	10061-02-6		ND	1.00	0.500
1,1-Dichloropropene	563-58-6		ND	1.00	0.250
Ethylbenzene	100-41-4		ND	1.00	0.250
2-Hexanone	591-78-6		ND	10.0	2.50
Hexachlorobutadiene	87-68-3		ND	1.00	0.250
Isopropylbenzene	98-82-8		ND	1.00	0.250
p-Isopropyltoluene	99-87-6		ND	1.00	0.250
4-Methyl-2-pentanone	108-10-1		ND	10.0	2.50
Methylene chloride	75-09-2		ND	5.00	0.250
Naphthalene	91-20-3		ND	1.00	0.200
n-Propylbenzene	103-65-1		ND	1.00	0.125
Styrene	100-42-5		ND	1.00	0.125
1,1,1,2-Tetrachloroethane	630-20-6		ND	1.00	0.250
1,1,2,2-Tetrachloroethane	79-34-5		ND	1.00	0.200
Tetrachloroethene	127-18-4		ND	1.00	0.250
Toluene	108-88-3		ND	1.00	0.250
1,2,3-Trichlorobenzene	87-61-6		ND	1.00	0.150
1,2,4-Trichlorobenzene	120-82-1		ND	1.00	0.200
1,1,1-Trichloroethane	71-55-6		ND	1.00	0.250
1,1,2-Trichloroethane	79-00-5		ND	1.00	0.250
Trichloroethene	79-01-6	16.8		1.00	0.250
Trichlorofluoromethane	75-69-4		ND	1.00	0.250
1,2,3-Trichloropropane	96-18-4		ND	1.00	0.500
1,2,4-Trimethylbenzene	95-63-6		ND	1.00	0.250
1,3,5-Trimethylbenzene	108-67-8		ND	1.00	0.250
Vinyl acetate	108-05-4		ND	10.0	2.50
Vinyl chloride	75-01-4		ND	1.00	0.250
o-Xylene	95-47-6		ND	1.00	0.250
m-,p-Xylene	179601-23-1		ND	1.00	0.500
Surrogate	Recovery	Lower Limit	Upper Limit	Q	
Dibromofluoromethane	99.2	86	118		
1,2-Dichloroethane-d4	96.7	80	120		
Toluene-d8	102	88	110		
4-Bromofluorobenzene	105	86	115		
ND	Not detected at or above the reporting limit (RL).				

Certificate of Analysis

Sample #: L12070658-15	PrePrep Method: N/A	Instrument: ICP-THERMO2
Client ID: MW1-1	Prep Method: 3005A	Prep Date: 07/24/2012 06:26
Matrix: Water	Analytical Method: 6010B	Cal Date: 07/25/2012 13:34
Workgroup #: WG404495	Analyst: KHR	Run Date: 07/25/2012 17:27
Collect Date: 07/16/2012 12:00	Dilution: 1	File ID: T2.072512.172737
Sample Tag: 01	Units: mg/L	

Analyte	CAS #	Result	Qual	RL	MDL
Aluminum, Total	7429-90-5	4.09		0.100	0.0500
Calcium, Total	7440-70-2	14.6		0.200	0.100
Iron, Total	7439-89-6	7.50		0.100	0.0500
Magnesium, Total	7439-95-4	8.52		0.500	0.250
Potassium, Total	7440-09-7	2.15		1.00	0.500
Sodium, Total	7440-23-5	102		0.500	0.250
Strontium, Total	7440-24-6	0.475		0.0100	0.00500

Sample #: L12070658-15	PrePrep Method: N/A	Instrument: ICP-MS2
Client ID: MW1-1	Prep Method: 3015	Prep Date: 07/24/2012 12:43
Matrix: Water	Analytical Method: 6020	Cal Date: 07/29/2012 08:49
Workgroup #: WG404831	Analyst: JYH	Run Date: 07/29/2012 10:41
Collect Date: 07/16/2012 12:00	Dilution: 5	File ID: NI.072912.104105
Sample Tag: DL01	Units: mg/L	

Analyte	CAS #	Result	Qual	RL	MDL
Antimony, Total	7440-36-0		ND	0.00500	0.00250
Barium, Total	7440-39-3	0.0843		0.0150	0.00750
Cadmium, Total	7440-43-9		ND	0.00300	0.00150
Chromium, Total	7440-47-3		ND	0.0100	0.00500
Copper, Total	7440-50-8		ND	0.0100	0.00500
Lead, Total	7439-92-1		ND	0.00500	0.00250
Manganese, Total	7439-96-5	0.0275		0.0100	0.00500
Nickel, Total	7440-02-0		ND	0.0200	0.0100
Selenium, Total	7782-49-2	0.0305		0.00500	0.00250
Thallium, Total	7440-28-0		ND	0.00100	0.000500
Vanadium, Total	7440-62-2	0.00678		0.00500	0.00250
Zinc, Total	7440-66-6	0.276		0.125	0.0625
ND	Not detected at or above the reporting limit (RL).				

Certificate of Analysis

Sample #: L12070658-16	PrePrep Method: N/A	Instrument: HPMS10
Client ID: MW1-2	Prep Method: 5030B/5030C/5035A	Prep Date: N/A
Matrix: Water	Analytical Method: 8260B	Cal Date: 06/26/2012 15:11
Workgroup #: WG404058	Analyst: MES	Run Date: 07/21/2012 23:32
Collect Date: 07/16/2012 13:20	Dilution: 1	File ID: 10M97172
Sample Tag: 01	Units: ug/L	

Analyte	CAS #	Result	Qual	RL	MDL
Acetone	67-64-1		ND	10.0	2.50
Benzene	71-43-2		ND	1.00	0.125
Bromobenzene	108-86-1		ND	1.00	0.125
Bromochloromethane	74-97-5		ND	1.00	0.200
Bromodichloromethane	75-27-4		ND	1.00	0.250
Bromoform	75-25-2		ND	1.00	0.500
Bromomethane	74-83-9		ND	1.00	0.500
2-Butanone	78-93-3		ND	10.0	2.50
n-Butylbenzene	104-51-8		ND	1.00	0.250
sec-Butylbenzene	135-98-8		ND	1.00	0.250
tert-Butylbenzene	98-06-6		ND	1.00	0.250
Carbon disulfide	75-15-0		ND	1.00	0.500
Carbon tetrachloride	56-23-5		ND	1.00	0.250
Chlorobenzene	108-90-7		ND	1.00	0.125
Chlorodibromomethane	124-48-1		ND	1.00	0.250
Chloroethane	75-00-3		ND	1.00	0.500
2-Chloroethyl vinyl ether	110-75-8		ND	10.0	2.00
Chloroform	67-66-3		ND	1.00	0.125
Chloromethane	74-87-3		ND	1.00	0.500
2-Chlorotoluene	95-49-8		ND	1.00	0.125
4-Chlorotoluene	106-43-4		ND	1.00	0.250
1,2-Dibromo-3-chloropropane	96-12-8		ND	5.00	1.00
1,2-Dibromoethane	106-93-4		ND	1.00	0.250
Dibromomethane	74-95-3		ND	1.00	0.250
1,2-Dichlorobenzene	95-50-1		ND	1.00	0.125
1,3-Dichlorobenzene	541-73-1		ND	1.00	0.250
1,4-Dichlorobenzene	106-46-7		ND	1.00	0.125
Dichlorodifluoromethane	75-71-8		ND	1.00	0.250
1,1-Dichloroethane	75-34-3		ND	1.00	0.125
1,2-Dichloroethane	107-06-2		ND	1.00	0.250
1,1-Dichloroethene	75-35-4		ND	1.00	0.500
cis-1,2-Dichloroethene	156-59-2		ND	1.00	0.250
trans-1,2-Dichloroethene	156-60-5		ND	1.00	0.250

Certificate of Analysis

Analyte	CAS #	Result	Qual	RL	MDL
1,2-Dichloropropane	78-87-5		ND	1.00	0.200
1,3-Dichloropropane	142-28-9		ND	1.00	0.200
2,2-Dichloropropane	594-20-7		ND	1.00	0.250
cis-1,3-Dichloropropene	10061-01-5		ND	1.00	0.250
trans-1,3-Dichloropropene	10061-02-6		ND	1.00	0.500
1,1-Dichloropropene	563-58-6		ND	1.00	0.250
Ethylbenzene	100-41-4		ND	1.00	0.250
2-Hexanone	591-78-6		ND	10.0	2.50
Hexachlorobutadiene	87-68-3		ND	1.00	0.250
Isopropylbenzene	98-82-8		ND	1.00	0.250
p-Isopropyltoluene	99-87-6		ND	1.00	0.250
4-Methyl-2-pentanone	108-10-1		ND	10.0	2.50
Methylene chloride	75-09-2		ND	5.00	0.250
Naphthalene	91-20-3		ND	1.00	0.200
n-Propylbenzene	103-65-1		ND	1.00	0.125
Styrene	100-42-5		ND	1.00	0.125
1,1,1,2-Tetrachloroethane	630-20-6		ND	1.00	0.250
1,1,2,2-Tetrachloroethane	79-34-5		ND	1.00	0.200
Tetrachloroethene	127-18-4		ND	1.00	0.250
Toluene	108-88-3		ND	1.00	0.250
1,2,3-Trichlorobenzene	87-61-6		ND	1.00	0.150
1,2,4-Trichlorobenzene	120-82-1		ND	1.00	0.200
1,1,1-Trichloroethane	71-55-6		ND	1.00	0.250
1,1,2-Trichloroethane	79-00-5		ND	1.00	0.250
Trichloroethene	79-01-6	8.66		1.00	0.250
Trichlorofluoromethane	75-69-4		ND	1.00	0.250
1,2,3-Trichloropropane	96-18-4		ND	1.00	0.500
1,2,4-Trimethylbenzene	95-63-6		ND	1.00	0.250
1,3,5-Trimethylbenzene	108-67-8		ND	1.00	0.250
Vinyl acetate	108-05-4		ND	10.0	2.50
Vinyl chloride	75-01-4		ND	1.00	0.250
o-Xylene	95-47-6		ND	1.00	0.250
m-,p-Xylene	179601-23-1		ND	1.00	0.500
Surrogate	Recovery	Lower Limit	Upper Limit	Q	
Dibromofluoromethane	99.7	86	118		
1,2-Dichloroethane-d4	98.4	80	120		
Toluene-d8	103	88	110		
4-Bromofluorobenzene	105	86	115		
ND	Not detected at or above the reporting limit (RL).				

Lab Report #: L12070658
 Lab Project #: 3083.001
 Project Name: Longhorn AAP
 Lab Contact: Kathy Albertson

Certificate of Analysis

Sample #: L12070658-16	PrePrep Method: N/A	Instrument: ICP-THERMO2
Client ID: MW1-2	Prep Method: 3005A	Prep Date: 07/24/2012 06:26
Matrix: Water	Analytical Method: 6010B	Cal Date: 07/25/2012 13:34
Workgroup #: WG404495	Analyst: KHR	Run Date: 07/25/2012 17:30
Collect Date: 07/16/2012 13:20	Dilution: 1	File ID: T2.072512.173042
Sample Tag: 01	Units: mg/L	

Analyte	CAS #	Result	Qual	RL	MDL
Aluminum, Total	7429-90-5	0.684		0.100	0.0500
Calcium, Total	7440-70-2	14.2		0.200	0.100
Iron, Total	7439-89-6	0.956		0.100	0.0500
Magnesium, Total	7439-95-4	6.02		0.500	0.250
Potassium, Total	7440-09-7	3.38		1.00	0.500
Sodium, Total	7440-23-5	101		0.500	0.250
Strontium, Total	7440-24-6	0.379		0.0100	0.00500

Sample #: L12070658-16	PrePrep Method: N/A	Instrument: ICP-MS2
Client ID: MW1-2	Prep Method: 3015	Prep Date: 07/24/2012 12:43
Matrix: Water	Analytical Method: 6020	Cal Date: 07/29/2012 08:49
Workgroup #: WG404831	Analyst: JYH	Run Date: 07/29/2012 10:44
Collect Date: 07/16/2012 13:20	Dilution: 5	File ID: NI.072912.104416
Sample Tag: DL01	Units: mg/L	

Analyte	CAS #	Result	Qual	RL	MDL
Antimony, Total	7440-36-0		ND	0.00500	0.00250
Barium, Total	7440-39-3	0.0554		0.0150	0.00750
Cadmium, Total	7440-43-9		ND	0.00300	0.00150
Chromium, Total	7440-47-3		ND	0.0100	0.00500
Copper, Total	7440-50-8		ND	0.0100	0.00500
Lead, Total	7439-92-1		ND	0.00500	0.00250
Manganese, Total	7439-96-5	0.0649		0.0100	0.00500
Nickel, Total	7440-02-0		ND	0.0200	0.0100
Selenium, Total	7782-49-2	0.0258		0.00500	0.00250
Thallium, Total	7440-28-0		ND	0.00100	0.000500
Vanadium, Total	7440-62-2		ND	0.00500	0.00250
Zinc, Total	7440-66-6		ND	0.125	0.0625
ND	Not detected at or above the reporting limit (RL).				

Certificate of Analysis

Sample #: L12070658-17	PrePrep Method: N/A	Instrument: HPMS10
Client ID: MW1-3	Prep Method: 5030B/5030C/5035A	Prep Date: N/A
Matrix: Water	Analytical Method: 8260B	Cal Date: 06/26/2012 15:11
Workgroup #: WG404058	Analyst: MES	Run Date: 07/22/2012 00:02
Collect Date: 07/16/2012 14:00	Dilution: 1	File ID: 10M97173
Sample Tag: 01	Units: ug/L	

Analyte	CAS #	Result	Qual	RL	MDL
Acetone	67-64-1		ND	10.0	2.50
Benzene	71-43-2		ND	1.00	0.125
Bromobenzene	108-86-1		ND	1.00	0.125
Bromochloromethane	74-97-5		ND	1.00	0.200
Bromodichloromethane	75-27-4		ND	1.00	0.250
Bromoform	75-25-2		ND	1.00	0.500
Bromomethane	74-83-9		ND	1.00	0.500
2-Butanone	78-93-3		ND	10.0	2.50
n-Butylbenzene	104-51-8		ND	1.00	0.250
sec-Butylbenzene	135-98-8		ND	1.00	0.250
tert-Butylbenzene	98-06-6		ND	1.00	0.250
Carbon disulfide	75-15-0		ND	1.00	0.500
Carbon tetrachloride	56-23-5		ND	1.00	0.250
Chlorobenzene	108-90-7		ND	1.00	0.125
Chlorodibromomethane	124-48-1		ND	1.00	0.250
Chloroethane	75-00-3		ND	1.00	0.500
2-Chloroethyl vinyl ether	110-75-8		ND	10.0	2.00
Chloroform	67-66-3		ND	1.00	0.125
Chloromethane	74-87-3		ND	1.00	0.500
2-Chlorotoluene	95-49-8		ND	1.00	0.125
4-Chlorotoluene	106-43-4		ND	1.00	0.250
1,2-Dibromo-3-chloropropane	96-12-8		ND	5.00	1.00
1,2-Dibromoethane	106-93-4		ND	1.00	0.250
Dibromomethane	74-95-3		ND	1.00	0.250
1,2-Dichlorobenzene	95-50-1		ND	1.00	0.125
1,3-Dichlorobenzene	541-73-1		ND	1.00	0.250
1,4-Dichlorobenzene	106-46-7		ND	1.00	0.125
Dichlorodifluoromethane	75-71-8		ND	1.00	0.250
1,1-Dichloroethane	75-34-3		ND	1.00	0.125
1,2-Dichloroethane	107-06-2		ND	1.00	0.250
1,1-Dichloroethene	75-35-4		ND	1.00	0.500
cis-1,2-Dichloroethene	156-59-2		ND	1.00	0.250
trans-1,2-Dichloroethene	156-60-5		ND	1.00	0.250

Certificate of Analysis

Analyte	CAS #	Result	Qual	RL	MDL
1,2-Dichloropropane	78-87-5		ND	1.00	0.200
1,3-Dichloropropane	142-28-9		ND	1.00	0.200
2,2-Dichloropropane	594-20-7		ND	1.00	0.250
cis-1,3-Dichloropropene	10061-01-5		ND	1.00	0.250
trans-1,3-Dichloropropene	10061-02-6		ND	1.00	0.500
1,1-Dichloropropene	563-58-6		ND	1.00	0.250
Ethylbenzene	100-41-4		ND	1.00	0.250
2-Hexanone	591-78-6		ND	10.0	2.50
Hexachlorobutadiene	87-68-3		ND	1.00	0.250
Isopropylbenzene	98-82-8		ND	1.00	0.250
p-Isopropyltoluene	99-87-6		ND	1.00	0.250
4-Methyl-2-pentanone	108-10-1		ND	10.0	2.50
Methylene chloride	75-09-2		ND	5.00	0.250
Naphthalene	91-20-3		ND	1.00	0.200
n-Propylbenzene	103-65-1		ND	1.00	0.125
Styrene	100-42-5		ND	1.00	0.125
1,1,1,2-Tetrachloroethane	630-20-6		ND	1.00	0.250
1,1,2,2-Tetrachloroethane	79-34-5		ND	1.00	0.200
Tetrachloroethene	127-18-4		ND	1.00	0.250
Toluene	108-88-3		ND	1.00	0.250
1,2,3-Trichlorobenzene	87-61-6		ND	1.00	0.150
1,2,4-Trichlorobenzene	120-82-1		ND	1.00	0.200
1,1,1-Trichloroethane	71-55-6		ND	1.00	0.250
1,1,2-Trichloroethane	79-00-5		ND	1.00	0.250
Trichloroethene	79-01-6	2.80		1.00	0.250
Trichlorofluoromethane	75-69-4		ND	1.00	0.250
1,2,3-Trichloropropane	96-18-4		ND	1.00	0.500
1,2,4-Trimethylbenzene	95-63-6		ND	1.00	0.250
1,3,5-Trimethylbenzene	108-67-8		ND	1.00	0.250
Vinyl acetate	108-05-4		ND	10.0	2.50
Vinyl chloride	75-01-4		ND	1.00	0.250
o-Xylene	95-47-6		ND	1.00	0.250
m-,p-Xylene	179601-23-1		ND	1.00	0.500
Surrogate	Recovery	Lower Limit	Upper Limit	Q	
Dibromofluoromethane	99.6	86	118		
1,2-Dichloroethane-d4	99.7	80	120		
Toluene-d8	104	88	110		
4-Bromofluorobenzene	107	86	115		
ND	Not detected at or above the reporting limit (RL).				

Certificate of Analysis

Sample #: L12070658-17	PrePrep Method: N/A	Instrument: ICP-THERMO2
Client ID: MW1-3	Prep Method: 3005A	Prep Date: 07/24/2012 06:26
Matrix: Water	Analytical Method: 6010B	Cal Date: 07/25/2012 13:34
Workgroup #: WG404495	Analyst: KHR	Run Date: 07/25/2012 17:33
Collect Date: 07/16/2012 14:00	Dilution: 1	File ID: T2.072512.173346
Sample Tag: 01	Units: mg/L	

Analyte	CAS #	Result	Qual	RL	MDL
Aluminum, Total	7429-90-5	9.97		0.100	0.0500
Calcium, Total	7440-70-2	8.14		0.200	0.100
Iron, Total	7439-89-6	12.2		0.100	0.0500
Magnesium, Total	7439-95-4	5.05		0.500	0.250
Potassium, Total	7440-09-7	3.87		1.00	0.500
Sodium, Total	7440-23-5	86.6		0.500	0.250
Strontium, Total	7440-24-6	0.215		0.0100	0.00500

Sample #: L12070658-17	PrePrep Method: N/A	Instrument: ICP-MS2
Client ID: MW1-3	Prep Method: 3015	Prep Date: 07/24/2012 12:43
Matrix: Water	Analytical Method: 6020	Cal Date: 07/29/2012 08:49
Workgroup #: WG404831	Analyst: JYH	Run Date: 07/29/2012 10:47
Collect Date: 07/16/2012 14:00	Dilution: 5	File ID: NI.072912.104726
Sample Tag: DL01	Units: mg/L	

Analyte	CAS #	Result	Qual	RL	MDL
Antimony, Total	7440-36-0		ND	0.00500	0.00250
Barium, Total	7440-39-3	0.118		0.0150	0.00750
Cadmium, Total	7440-43-9		ND	0.00300	0.00150
Chromium, Total	7440-47-3	0.0189		0.0100	0.00500
Copper, Total	7440-50-8	0.0103		0.0100	0.00500
Lead, Total	7439-92-1	0.00653		0.00500	0.00250
Manganese, Total	7439-96-5	0.183		0.0100	0.00500
Nickel, Total	7440-02-0	0.0159	J	0.0200	0.0100
Selenium, Total	7782-49-2	0.0214		0.00500	0.00250
Thallium, Total	7440-28-0		ND	0.00100	0.000500
Vanadium, Total	7440-62-2	0.0226		0.00500	0.00250
Zinc, Total	7440-66-6	0.336		0.125	0.0625

J	Estimated value; the analyte concentration was less than the RL/LOQ.
ND	Not detected at or above the reporting limit (RL).

Certificate of Analysis

Sample #: L12070658-18	PrePrep Method: N/A	Instrument: HPMS10
Client ID: 35B WW08	Prep Method: 5030B/5030C/5035A	Prep Date: N/A
Matrix: Water	Analytical Method: 8260B	Cal Date: 06/26/2012 15:11
Workgroup #: WG404058	Analyst: MES	Run Date: 07/22/2012 00:31
Collect Date: 07/16/2012 15:00	Dilution: 1	File ID: 10M97174
Sample Tag: 01	Units: ug/L	

Analyte	CAS #	Result	Qual	RL	MDL
Acetone	67-64-1		ND	10.0	2.50
Benzene	71-43-2		ND	1.00	0.125
Bromobenzene	108-86-1		ND	1.00	0.125
Bromochloromethane	74-97-5		ND	1.00	0.200
Bromodichloromethane	75-27-4		ND	1.00	0.250
Bromoform	75-25-2		ND	1.00	0.500
Bromomethane	74-83-9		ND	1.00	0.500
2-Butanone	78-93-3		ND	10.0	2.50
n-Butylbenzene	104-51-8		ND	1.00	0.250
sec-Butylbenzene	135-98-8		ND	1.00	0.250
tert-Butylbenzene	98-06-6		ND	1.00	0.250
Carbon disulfide	75-15-0		ND	1.00	0.500
Carbon tetrachloride	56-23-5		ND	1.00	0.250
Chlorobenzene	108-90-7		ND	1.00	0.125
Chlorodibromomethane	124-48-1		ND	1.00	0.250
Chloroethane	75-00-3		ND	1.00	0.500
2-Chloroethyl vinyl ether	110-75-8		ND	10.0	2.00
Chloroform	67-66-3		ND	1.00	0.125
Chloromethane	74-87-3		ND	1.00	0.500
2-Chlorotoluene	95-49-8		ND	1.00	0.125
4-Chlorotoluene	106-43-4		ND	1.00	0.250
1,2-Dibromo-3-chloropropane	96-12-8		ND	5.00	1.00
1,2-Dibromoethane	106-93-4		ND	1.00	0.250
Dibromomethane	74-95-3		ND	1.00	0.250
1,2-Dichlorobenzene	95-50-1		ND	1.00	0.125
1,3-Dichlorobenzene	541-73-1		ND	1.00	0.250
1,4-Dichlorobenzene	106-46-7		ND	1.00	0.125
Dichlorodifluoromethane	75-71-8		ND	1.00	0.250
1,1-Dichloroethane	75-34-3		ND	1.00	0.125
1,2-Dichloroethane	107-06-2		ND	1.00	0.250
1,1-Dichloroethene	75-35-4		ND	1.00	0.500
cis-1,2-Dichloroethene	156-59-2	0.305	J	1.00	0.250
trans-1,2-Dichloroethene	156-60-5		ND	1.00	0.250

Certificate of Analysis

Analyte	CAS #	Result	Qual	RL	MDL
1,2-Dichloropropane	78-87-5		ND	1.00	0.200
1,3-Dichloropropane	142-28-9		ND	1.00	0.200
2,2-Dichloropropane	594-20-7		ND	1.00	0.250
cis-1,3-Dichloropropene	10061-01-5		ND	1.00	0.250
trans-1,3-Dichloropropene	10061-02-6		ND	1.00	0.500
1,1-Dichloropropene	563-58-6		ND	1.00	0.250
Ethylbenzene	100-41-4		ND	1.00	0.250
2-Hexanone	591-78-6		ND	10.0	2.50
Hexachlorobutadiene	87-68-3		ND	1.00	0.250
Isopropylbenzene	98-82-8		ND	1.00	0.250
p-Isopropyltoluene	99-87-6		ND	1.00	0.250
4-Methyl-2-pentanone	108-10-1		ND	10.0	2.50
Methylene chloride	75-09-2		ND	5.00	0.250
Naphthalene	91-20-3		ND	1.00	0.200
n-Propylbenzene	103-65-1		ND	1.00	0.125
Styrene	100-42-5		ND	1.00	0.125
1,1,1,2-Tetrachloroethane	630-20-6		ND	1.00	0.250
1,1,2,2-Tetrachloroethane	79-34-5		ND	1.00	0.200
Tetrachloroethene	127-18-4		ND	1.00	0.250
Toluene	108-88-3		ND	1.00	0.250
1,2,3-Trichlorobenzene	87-61-6		ND	1.00	0.150
1,2,4-Trichlorobenzene	120-82-1		ND	1.00	0.200
1,1,1-Trichloroethane	71-55-6		ND	1.00	0.250
1,1,2-Trichloroethane	79-00-5		ND	1.00	0.250
Trichloroethene	79-01-6	65.7		1.00	0.250
Trichlorofluoromethane	75-69-4		ND	1.00	0.250
1,2,3-Trichloropropane	96-18-4		ND	1.00	0.500
1,2,4-Trimethylbenzene	95-63-6		ND	1.00	0.250
1,3,5-Trimethylbenzene	108-67-8		ND	1.00	0.250
Vinyl acetate	108-05-4		ND	10.0	2.50
Vinyl chloride	75-01-4		ND	1.00	0.250
o-Xylene	95-47-6		ND	1.00	0.250
m-,p-Xylene	179601-23-1		ND	1.00	0.500
Surrogate	Recovery	Lower Limit	Upper Limit	Q	
Dibromofluoromethane	97.5	86	118		
1,2-Dichloroethane-d4	97.4	80	120		
Toluene-d8	102	88	110		
4-Bromofluorobenzene	104	86	115		
J	Estimated value; the analyte concentration was less than the RL/LOQ.				

Certificate of Analysis

ND	Not detected at or above the reporting limit (RL).
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Sample #: L12070658-18	PrePrep Method: N/A	Instrument: ICP-THERMO2
Client ID: 35B WW08	Prep Method: 3005A	Prep Date: 07/24/2012 06:26
Matrix: Water	Analytical Method: 6010B	Cal Date: 07/25/2012 13:34
Workgroup #: WG404495	Analyst: KHR	Run Date: 07/25/2012 17:36
Collect Date: 07/16/2012 15:00	Dilution: 1	File ID: T2.072512.173650
Sample Tag: 01	Units: mg/L	

Analyte	CAS #	Result	Qual	RL	MDL
Aluminum, Total	7429-90-5	0.531		0.100	0.0500
Calcium, Total	7440-70-2	32.5		0.200	0.100
Iron, Total	7439-89-6	1.18		0.100	0.0500
Magnesium, Total	7439-95-4	20.0		0.500	0.250
Potassium, Total	7440-09-7	2.21		1.00	0.500
Sodium, Total	7440-23-5	150		0.500	0.250
Strontium, Total	7440-24-6	1.17		0.0100	0.00500

Sample #: L12070658-18	PrePrep Method: N/A	Instrument: ICP-MS2
Client ID: 35B WW08	Prep Method: 3015	Prep Date: 07/24/2012 12:43
Matrix: Water	Analytical Method: 6020	Cal Date: 07/29/2012 08:49
Workgroup #: WG404831	Analyst: JYH	Run Date: 07/29/2012 10:50
Collect Date: 07/16/2012 15:00	Dilution: 5	File ID: NI.072912.105037
Sample Tag: DL01	Units: mg/L	

Analyte	CAS #	Result	Qual	RL	MDL
Antimony, Total	7440-36-0		ND	0.00500	0.00250
Barium, Total	7440-39-3	0.0630		0.0150	0.00750
Cadmium, Total	7440-43-9		ND	0.00300	0.00150
Chromium, Total	7440-47-3		ND	0.0100	0.00500
Copper, Total	7440-50-8		ND	0.0100	0.00500
Lead, Total	7439-92-1		ND	0.00500	0.00250
Manganese, Total	7439-96-5	0.0502		0.0100	0.00500
Nickel, Total	7440-02-0		ND	0.0200	0.0100
Selenium, Total	7782-49-2	0.0373		0.00500	0.00250
Thallium, Total	7440-28-0		ND	0.00100	0.000500
Vanadium, Total	7440-62-2		ND	0.00500	0.00250
Zinc, Total	7440-66-6		ND	0.125	0.0625
ND	Not detected at or above the reporting limit (RL).				

Certificate of Analysis

Sample #: L12070658-19	PrePrep Method: N/A	Instrument: HPMS10
Client ID: 35B WW09	Prep Method: 5030B/5030C/5035A	Prep Date: N/A
Matrix: Water	Analytical Method: 8260B	Cal Date: 06/26/2012 15:11
Workgroup #: WG404058	Analyst: MES	Run Date: 07/22/2012 01:00
Collect Date: 07/16/2012 15:50	Dilution: 1	File ID: 10M97175
Sample Tag: 01	Units: ug/L	

Analyte	CAS #	Result	Qual	RL	MDL
Acetone	67-64-1		ND	10.0	2.50
Benzene	71-43-2		ND	1.00	0.125
Bromobenzene	108-86-1		ND	1.00	0.125
Bromochloromethane	74-97-5		ND	1.00	0.200
Bromodichloromethane	75-27-4		ND	1.00	0.250
Bromoform	75-25-2		ND	1.00	0.500
Bromomethane	74-83-9		ND	1.00	0.500
2-Butanone	78-93-3		ND	10.0	2.50
n-Butylbenzene	104-51-8		ND	1.00	0.250
sec-Butylbenzene	135-98-8		ND	1.00	0.250
tert-Butylbenzene	98-06-6		ND	1.00	0.250
Carbon disulfide	75-15-0		ND	1.00	0.500
Carbon tetrachloride	56-23-5		ND	1.00	0.250
Chlorobenzene	108-90-7		ND	1.00	0.125
Chlorodibromomethane	124-48-1		ND	1.00	0.250
Chloroethane	75-00-3		ND	1.00	0.500
2-Chloroethyl vinyl ether	110-75-8		ND	10.0	2.00
Chloroform	67-66-3		ND	1.00	0.125
Chloromethane	74-87-3		ND	1.00	0.500
2-Chlorotoluene	95-49-8		ND	1.00	0.125
4-Chlorotoluene	106-43-4		ND	1.00	0.250
1,2-Dibromo-3-chloropropane	96-12-8		ND	5.00	1.00
1,2-Dibromoethane	106-93-4		ND	1.00	0.250
Dibromomethane	74-95-3		ND	1.00	0.250
1,2-Dichlorobenzene	95-50-1		ND	1.00	0.125
1,3-Dichlorobenzene	541-73-1		ND	1.00	0.250
1,4-Dichlorobenzene	106-46-7		ND	1.00	0.125
Dichlorodifluoromethane	75-71-8		ND	1.00	0.250
1,1-Dichloroethane	75-34-3		ND	1.00	0.125
1,2-Dichloroethane	107-06-2		ND	1.00	0.250
1,1-Dichloroethene	75-35-4		ND	1.00	0.500
cis-1,2-Dichloroethene	156-59-2	0.380	J	1.00	0.250
trans-1,2-Dichloroethene	156-60-5		ND	1.00	0.250

Certificate of Analysis

Analyte	CAS #	Result	Qual	RL	MDL
1,2-Dichloropropane	78-87-5		ND	1.00	0.200
1,3-Dichloropropane	142-28-9		ND	1.00	0.200
2,2-Dichloropropane	594-20-7		ND	1.00	0.250
cis-1,3-Dichloropropene	10061-01-5		ND	1.00	0.250
trans-1,3-Dichloropropene	10061-02-6		ND	1.00	0.500
1,1-Dichloropropene	563-58-6		ND	1.00	0.250
Ethylbenzene	100-41-4		ND	1.00	0.250
2-Hexanone	591-78-6		ND	10.0	2.50
Hexachlorobutadiene	87-68-3		ND	1.00	0.250
Isopropylbenzene	98-82-8		ND	1.00	0.250
p-Isopropyltoluene	99-87-6		ND	1.00	0.250
4-Methyl-2-pentanone	108-10-1		ND	10.0	2.50
Methylene chloride	75-09-2		ND	5.00	0.250
Naphthalene	91-20-3		ND	1.00	0.200
n-Propylbenzene	103-65-1		ND	1.00	0.125
Styrene	100-42-5		ND	1.00	0.125
1,1,1,2-Tetrachloroethane	630-20-6		ND	1.00	0.250
1,1,2,2-Tetrachloroethane	79-34-5		ND	1.00	0.200
Tetrachloroethene	127-18-4		ND	1.00	0.250
Toluene	108-88-3		ND	1.00	0.250
1,2,3-Trichlorobenzene	87-61-6		ND	1.00	0.150
1,2,4-Trichlorobenzene	120-82-1		ND	1.00	0.200
1,1,1-Trichloroethane	71-55-6		ND	1.00	0.250
1,1,2-Trichloroethane	79-00-5		ND	1.00	0.250
Trichloroethene	79-01-6	55.6		1.00	0.250
Trichlorofluoromethane	75-69-4		ND	1.00	0.250
1,2,3-Trichloropropane	96-18-4		ND	1.00	0.500
1,2,4-Trimethylbenzene	95-63-6		ND	1.00	0.250
1,3,5-Trimethylbenzene	108-67-8		ND	1.00	0.250
Vinyl acetate	108-05-4		ND	10.0	2.50
Vinyl chloride	75-01-4		ND	1.00	0.250
o-Xylene	95-47-6		ND	1.00	0.250
m-,p-Xylene	179601-23-1		ND	1.00	0.500
Surrogate	Recovery	Lower Limit	Upper Limit	Q	
Dibromofluoromethane	97.9	86	118		
1,2-Dichloroethane-d4	96.9	80	120		
Toluene-d8	102	88	110		
4-Bromofluorobenzene	105	86	115		
J	Estimated value; the analyte concentration was less than the RL/LOQ.				

Certificate of Analysis

ND	Not detected at or above the reporting limit (RL).
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Sample #: L12070658-19	PrePrep Method: N/A	Instrument: ICP-THERMO2
Client ID: 35B WW09	Prep Method: 3005A	Prep Date: 07/24/2012 06:26
Matrix: Water	Analytical Method: 6010B	Cal Date: 07/25/2012 13:34
Workgroup #: WG404495	Analyst: KHR	Run Date: 07/25/2012 17:39
Collect Date: 07/16/2012 15:50	Dilution: 1	File ID: T2.072512.173955
Sample Tag: 01	Units: mg/L	

Analyte	CAS #	Result	Qual	RL	MDL
Aluminum, Total	7429-90-5		ND	0.100	0.0500
Calcium, Total	7440-70-2	77.6		0.200	0.100
Iron, Total	7439-89-6	0.134		0.100	0.0500
Magnesium, Total	7439-95-4	43.1		0.500	0.250
Potassium, Total	7440-09-7	4.20		1.00	0.500
Sodium, Total	7440-23-5	202		0.500	0.250
Strontium, Total	7440-24-6	2.64		0.0100	0.00500
ND	Not detected at or above the reporting limit (RL).				

Sample #: L12070658-19	PrePrep Method: N/A	Instrument: ICP-MS2
Client ID: 35B WW09	Prep Method: 3015	Prep Date: 07/24/2012 12:43
Matrix: Water	Analytical Method: 6020	Cal Date: 07/29/2012 08:49
Workgroup #: WG404831	Analyst: JYH	Run Date: 07/29/2012 10:53
Collect Date: 07/16/2012 15:50	Dilution: 5	File ID: NI.072912.105346
Sample Tag: DL01	Units: mg/L	

Analyte	CAS #	Result	Qual	RL	MDL
Antimony, Total	7440-36-0		ND	0.00500	0.00250
Barium, Total	7440-39-3	0.0846		0.0150	0.00750
Cadmium, Total	7440-43-9		ND	0.00300	0.00150
Chromium, Total	7440-47-3		ND	0.0100	0.00500
Copper, Total	7440-50-8		ND	0.0100	0.00500
Lead, Total	7439-92-1		ND	0.00500	0.00250
Manganese, Total	7439-96-5	0.124		0.0100	0.00500
Nickel, Total	7440-02-0		ND	0.0200	0.0100
Selenium, Total	7782-49-2	0.00464	J	0.00500	0.00250
Thallium, Total	7440-28-0		ND	0.00100	0.000500
Vanadium, Total	7440-62-2		ND	0.00500	0.00250
Zinc, Total	7440-66-6		ND	0.125	0.0625
J	Estimated value; the analyte concentration was less than the RL/LOQ.				
ND	Not detected at or above the reporting limit (RL).				

Certificate of Analysis

Sample #: L12070658-20	PrePrep Method: N/A	Instrument: HPMS8
Client ID: MW2-1	Prep Method: 5030B/5030C/5035A	Prep Date: N/A
Matrix: Water	Analytical Method: 8260B	Cal Date: 06/28/2012 23:13
Workgroup #: WG404914	Analyst: ADC	Run Date: 07/30/2012 15:15
Collect Date: 07/17/2012 08:55	Dilution: 1	File ID: 8M381198
Sample Tag: 02	Units: ug/L	

Analyte	CAS #	Result	Qual	RL	MDL
Acetone	67-64-1		ND	10.0	2.50
Benzene	71-43-2		ND	1.00	0.125
Bromobenzene	108-86-1		ND	1.00	0.125
Bromochloromethane	74-97-5		ND	1.00	0.200
Bromodichloromethane	75-27-4		ND	1.00	0.250
Bromoform	75-25-2		ND	1.00	0.500
Bromomethane	74-83-9		ND	1.00	0.500
2-Butanone	78-93-3		ND	10.0	2.50
n-Butylbenzene	104-51-8		ND	1.00	0.250
sec-Butylbenzene	135-98-8		ND	1.00	0.250
tert-Butylbenzene	98-06-6		ND	1.00	0.250
Carbon disulfide	75-15-0		ND	1.00	0.500
Carbon tetrachloride	56-23-5		ND	1.00	0.250
Chlorobenzene	108-90-7		ND	1.00	0.125
Chlorodibromomethane	124-48-1		ND	1.00	0.250
Chloroethane	75-00-3		ND	1.00	0.500
2-Chloroethyl vinyl ether	110-75-8		ND	10.0	2.00
Chloroform	67-66-3		ND	1.00	0.125
Chloromethane	74-87-3		ND	1.00	0.500
2-Chlorotoluene	95-49-8		ND	1.00	0.125
4-Chlorotoluene	106-43-4		ND	1.00	0.250
1,2-Dibromo-3-chloropropane	96-12-8		ND	5.00	1.00
1,2-Dibromoethane	106-93-4		ND	1.00	0.250
Dibromomethane	74-95-3		ND	1.00	0.250
1,2-Dichlorobenzene	95-50-1		ND	1.00	0.125
1,3-Dichlorobenzene	541-73-1		ND	1.00	0.250
1,4-Dichlorobenzene	106-46-7		ND	1.00	0.125
Dichlorodifluoromethane	75-71-8		ND	1.00	0.250
1,1-Dichloroethane	75-34-3		ND	1.00	0.125
1,2-Dichloroethane	107-06-2		ND	1.00	0.250
1,1-Dichloroethene	75-35-4		ND	1.00	0.500
cis-1,2-Dichloroethene	156-59-2		ND	1.00	0.250

Certificate of Analysis

Analyte	CAS #	Result	Qual	RL	MDL
trans-1,2-Dichloroethene	156-60-5		ND	1.00	0.250
1,2-Dichloropropane	78-87-5		ND	1.00	0.200
1,3-Dichloropropane	142-28-9		ND	1.00	0.200
2,2-Dichloropropane	594-20-7		ND	1.00	0.250
cis-1,3-Dichloropropene	10061-01-5		ND	1.00	0.250
trans-1,3-Dichloropropene	10061-02-6		ND	1.00	0.500
1,1-Dichloropropene	563-58-6		ND	1.00	0.250
Ethylbenzene	100-41-4		ND	1.00	0.250
2-Hexanone	591-78-6		ND	10.0	2.50
Hexachlorobutadiene	87-68-3		ND	1.00	0.250
Isopropylbenzene	98-82-8		ND	1.00	0.250
p-Isopropyltoluene	99-87-6		ND	1.00	0.250
4-Methyl-2-pentanone	108-10-1		ND	10.0	2.50
Methylene chloride	75-09-2		ND	5.00	0.250
Naphthalene	91-20-3		ND	1.00	0.200
n-Propylbenzene	103-65-1		ND	1.00	0.125
Styrene	100-42-5		ND	1.00	0.125
1,1,1,2-Tetrachloroethane	630-20-6		ND	1.00	0.250
1,1,1,2-Tetrachloroethane	79-34-5		ND	1.00	0.200
Tetrachloroethene	127-18-4	2.65		1.00	0.250
Toluene	108-88-3		ND	1.00	0.250
1,2,3-Trichlorobenzene	87-61-6		ND	1.00	0.150
1,2,4-Trichlorobenzene	120-82-1		ND	1.00	0.200
1,1,1-Trichloroethane	71-55-6		ND	1.00	0.250
1,1,2-Trichloroethane	79-00-5		ND	1.00	0.250
Trichloroethene	79-01-6	4.59		1.00	0.250
Trichlorofluoromethane	75-69-4		ND	1.00	0.250
1,2,3-Trichloropropane	96-18-4		ND	1.00	0.500
1,2,4-Trimethylbenzene	95-63-6		ND	1.00	0.250
1,3,5-Trimethylbenzene	108-67-8		ND	1.00	0.250
Vinyl acetate	108-05-4		ND	10.0	2.50
Vinyl chloride	75-01-4		ND	1.00	0.250
o-Xylene	95-47-6		ND	1.00	0.250
m-,p-Xylene	179601-23-1		ND	1.00	0.500
Surrogate	Recovery	Lower Limit	Upper Limit	Q	
Dibromofluoromethane	97.2	86	118		
1,2-Dichloroethane-d4	83.0	80	120		
Toluene-d8	102	88	110		
4-Bromofluorobenzene	102	86	115		

Certificate of Analysis

ND	Not detected at or above the reporting limit (RL).
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Sample #: L12070658-20	PrePrep Method: N/A	Instrument: ICP-THERMO2
Client ID: MW2-1	Prep Method: 3005A	Prep Date: 07/24/2012 06:26
Matrix: Water	Analytical Method: 6010B	Cal Date: 07/25/2012 13:34
Workgroup #: WG404495	Analyst: KHR	Run Date: 07/25/2012 17:43
Collect Date: 07/17/2012 08:55	Dilution: 1	File ID: T2.072512.174300
Sample Tag: 01	Units: mg/L	

Analyte	CAS #	Result	Qual	RL	MDL
Aluminum, Total	7429-90-5	2.80		0.100	0.0500
Calcium, Total	7440-70-2	4.51		0.200	0.100
Iron, Total	7439-89-6	3.03		0.100	0.0500
Magnesium, Total	7439-95-4	2.47		0.500	0.250
Potassium, Total	7440-09-7	1.73		1.00	0.500
Sodium, Total	7440-23-5	65.4		0.500	0.250
Strontium, Total	7440-24-6	0.148		0.0100	0.00500

Sample #: L12070658-20	PrePrep Method: N/A	Instrument: ICP-MS2
Client ID: MW2-1	Prep Method: 3015	Prep Date: 07/24/2012 12:43
Matrix: Water	Analytical Method: 6020	Cal Date: 07/29/2012 08:49
Workgroup #: WG404831	Analyst: JYH	Run Date: 07/29/2012 09:34
Collect Date: 07/17/2012 08:55	Dilution: 5	File ID: NI.072912.093442
Sample Tag: DL01	Units: mg/L	

Analyte	CAS #	Result	Qual	RL	MDL
Antimony, Total	7440-36-0		ND	0.00500	0.00250
Barium, Total	7440-39-3	0.0645		0.0150	0.00750
Cadmium, Total	7440-43-9		ND	0.00300	0.00150
Chromium, Total	7440-47-3		ND	0.0100	0.00500
Copper, Total	7440-50-8		ND	0.0100	0.00500
Lead, Total	7439-92-1		ND	0.00500	0.00250
Manganese, Total	7439-96-5	0.0807		0.0100	0.00500
Nickel, Total	7440-02-0		ND	0.0200	0.0100
Selenium, Total	7782-49-2		ND	0.00500	0.00250
Thallium, Total	7440-28-0		ND	0.00100	0.000500
Vanadium, Total	7440-62-2	0.00424	J	0.00500	0.00250
Zinc, Total	7440-66-6		ND	0.125	0.0625
J	Estimated value; the analyte concentration was less than the RL/LOQ.				
ND	Not detected at or above the reporting limit (RL).				

Certificate of Analysis

Sample #: L12070658-21	PrePrep Method: N/A	Instrument: HPMS10
Client ID: TRIP BLANK 17JULY2012	Prep Method: 5030B/5030C/5035A	Prep Date: N/A
Matrix: Water	Analytical Method: 8260B	Cal Date: 06/26/2012 15:11
Workgroup #: WG404058	Analyst: MES	Run Date: 07/21/2012 19:38
Collect Date: 07/17/2012 00:01	Dilution: 1	File ID: 10M97164
Sample Tag: 01	Units: ug/L	

Analyte	CAS #	Result	Qual	RL	MDL
Acetone	67-64-1		ND	10.0	2.50
Benzene	71-43-2		ND	1.00	0.125
Bromobenzene	108-86-1		ND	1.00	0.125
Bromochloromethane	74-97-5		ND	1.00	0.200
Bromodichloromethane	75-27-4		ND	1.00	0.250
Bromoform	75-25-2		ND	1.00	0.500
Bromomethane	74-83-9		ND	1.00	0.500
2-Butanone	78-93-3		ND	10.0	2.50
n-Butylbenzene	104-51-8		ND	1.00	0.250
sec-Butylbenzene	135-98-8		ND	1.00	0.250
tert-Butylbenzene	98-06-6		ND	1.00	0.250
Carbon disulfide	75-15-0		ND	1.00	0.500
Carbon tetrachloride	56-23-5		ND	1.00	0.250
Chlorobenzene	108-90-7		ND	1.00	0.125
Chlorodibromomethane	124-48-1		ND	1.00	0.250
Chloroethane	75-00-3		ND	1.00	0.500
2-Chloroethyl vinyl ether	110-75-8		ND	10.0	2.00
Chloroform	67-66-3		ND	1.00	0.125
Chloromethane	74-87-3		ND	1.00	0.500
2-Chlorotoluene	95-49-8		ND	1.00	0.125
4-Chlorotoluene	106-43-4		ND	1.00	0.250
1,2-Dibromo-3-chloropropane	96-12-8		ND	5.00	1.00
1,2-Dibromoethane	106-93-4		ND	1.00	0.250
Dibromomethane	74-95-3		ND	1.00	0.250
1,2-Dichlorobenzene	95-50-1		ND	1.00	0.125
1,3-Dichlorobenzene	541-73-1		ND	1.00	0.250
1,4-Dichlorobenzene	106-46-7		ND	1.00	0.125
Dichlorodifluoromethane	75-71-8		ND	1.00	0.250
1,1-Dichloroethane	75-34-3		ND	1.00	0.125
1,2-Dichloroethane	107-06-2		ND	1.00	0.250
1,1-Dichloroethene	75-35-4		ND	1.00	0.500
cis-1,2-Dichloroethene	156-59-2		ND	1.00	0.250
trans-1,2-Dichloroethene	156-60-5		ND	1.00	0.250

Certificate of Analysis

Analyte	CAS #	Result	Qual	RL	MDL
1,2-Dichloropropane	78-87-5		ND	1.00	0.200
1,3-Dichloropropane	142-28-9		ND	1.00	0.200
2,2-Dichloropropane	594-20-7		ND	1.00	0.250
cis-1,3-Dichloropropene	10061-01-5		ND	1.00	0.250
trans-1,3-Dichloropropene	10061-02-6		ND	1.00	0.500
1,1-Dichloropropene	563-58-6		ND	1.00	0.250
Ethylbenzene	100-41-4		ND	1.00	0.250
2-Hexanone	591-78-6		ND	10.0	2.50
Hexachlorobutadiene	87-68-3		ND	1.00	0.250
Isopropylbenzene	98-82-8		ND	1.00	0.250
p-Isopropyltoluene	99-87-6		ND	1.00	0.250
4-Methyl-2-pentanone	108-10-1		ND	10.0	2.50
Methylene chloride	75-09-2		ND	5.00	0.250
Naphthalene	91-20-3		ND	1.00	0.200
n-Propylbenzene	103-65-1		ND	1.00	0.125
Styrene	100-42-5		ND	1.00	0.125
1,1,1,2-Tetrachloroethane	630-20-6		ND	1.00	0.250
1,1,2,2-Tetrachloroethane	79-34-5		ND	1.00	0.200
Tetrachloroethene	127-18-4		ND	1.00	0.250
Toluene	108-88-3		ND	1.00	0.250
1,2,3-Trichlorobenzene	87-61-6		ND	1.00	0.150
1,2,4-Trichlorobenzene	120-82-1		ND	1.00	0.200
1,1,1-Trichloroethane	71-55-6		ND	1.00	0.250
1,1,2-Trichloroethane	79-00-5		ND	1.00	0.250
Trichloroethene	79-01-6		ND	1.00	0.250
Trichlorofluoromethane	75-69-4		ND	1.00	0.250
1,2,3-Trichloropropane	96-18-4		ND	1.00	0.500
1,2,4-Trimethylbenzene	95-63-6		ND	1.00	0.250
1,3,5-Trimethylbenzene	108-67-8		ND	1.00	0.250
Vinyl acetate	108-05-4		ND	10.0	2.50
Vinyl chloride	75-01-4		ND	1.00	0.250
o-Xylene	95-47-6		ND	1.00	0.250
m-,p-Xylene	179601-23-1		ND	1.00	0.500
Surrogate	Recovery	Lower Limit	Upper Limit	Q	
Dibromofluoromethane	98.1	86	118		
1,2-Dichloroethane-d4	98.1	80	120		
Toluene-d8	101	88	110		
4-Bromofluorobenzene	107	86	115		
ND	Not detected at or above the reporting limit (RL).				

Certificate of Analysis

Sample #: L12070658-22	PrePrep Method: N/A	Instrument: HPMS11
Client ID: FIELD BLANK 17JULY2012	Prep Method: 5030B/5030C/5035A	Prep Date: N/A
Matrix: Water	Analytical Method: 8260B	Cal Date: 05/03/2012 21:37
Workgroup #: WG404130	Analyst: FJB	Run Date: 07/23/2012 16:41
Collect Date: 07/17/2012 08:35	Dilution: 1	File ID: 11M85507
Sample Tag: 01	Units: ug/L	

Analyte	CAS #	Result	Qual	RL	MDL
Acetone	67-64-1		ND	10.0	2.50
Benzene	71-43-2		ND	1.00	0.125
Bromobenzene	108-86-1		ND	1.00	0.125
Bromochloromethane	74-97-5		ND	1.00	0.200
Bromodichloromethane	75-27-4		ND	1.00	0.250
Bromoform	75-25-2		ND	1.00	0.500
Bromomethane	74-83-9		ND	1.00	0.500
2-Butanone	78-93-3		ND	10.0	2.50
n-Butylbenzene	104-51-8		ND	1.00	0.250
sec-Butylbenzene	135-98-8		ND	1.00	0.250
tert-Butylbenzene	98-06-6		ND	1.00	0.250
Carbon disulfide	75-15-0		ND	1.00	0.500
Carbon tetrachloride	56-23-5		ND	1.00	0.250
Chlorobenzene	108-90-7		ND	1.00	0.125
Chlorodibromomethane	124-48-1		ND	1.00	0.250
Chloroethane	75-00-3		ND	1.00	0.500
2-Chloroethyl vinyl ether	110-75-8		ND	10.0	2.00
Chloroform	67-66-3		ND	1.00	0.125
Chloromethane	74-87-3		ND	1.00	0.500
2-Chlorotoluene	95-49-8		ND	1.00	0.125
4-Chlorotoluene	106-43-4		ND	1.00	0.250
1,2-Dibromo-3-chloropropane	96-12-8		ND	5.00	1.00
1,2-Dibromoethane	106-93-4		ND	1.00	0.250
Dibromomethane	74-95-3		ND	1.00	0.250
1,2-Dichlorobenzene	95-50-1		ND	1.00	0.125
1,3-Dichlorobenzene	541-73-1		ND	1.00	0.250
1,4-Dichlorobenzene	106-46-7		ND	1.00	0.125
Dichlorodifluoromethane	75-71-8		ND	1.00	0.250
1,1-Dichloroethane	75-34-3		ND	1.00	0.125
1,2-Dichloroethane	107-06-2		ND	1.00	0.250
1,1-Dichloroethene	75-35-4		ND	1.00	0.500
cis-1,2-Dichloroethene	156-59-2		ND	1.00	0.250
trans-1,2-Dichloroethene	156-60-5		ND	1.00	0.250

Certificate of Analysis

Analyte	CAS #	Result	Qual	RL	MDL
1,2-Dichloropropane	78-87-5		ND	1.00	0.200
1,3-Dichloropropane	142-28-9		ND	1.00	0.200
2,2-Dichloropropane	594-20-7		ND	1.00	0.250
cis-1,3-Dichloropropene	10061-01-5		ND	1.00	0.250
trans-1,3-Dichloropropene	10061-02-6		ND	1.00	0.500
1,1-Dichloropropene	563-58-6		ND	1.00	0.250
Ethylbenzene	100-41-4		ND	1.00	0.250
2-Hexanone	591-78-6		ND	10.0	2.50
Hexachlorobutadiene	87-68-3		ND	1.00	0.250
Isopropylbenzene	98-82-8		ND	1.00	0.250
p-Isopropyltoluene	99-87-6		ND	1.00	0.250
4-Methyl-2-pentanone	108-10-1		ND	10.0	2.50
Methylene chloride	75-09-2		ND	5.00	0.250
Naphthalene	91-20-3		ND	1.00	0.200
n-Propylbenzene	103-65-1		ND	1.00	0.125
Styrene	100-42-5		ND	1.00	0.125
1,1,1,2-Tetrachloroethane	630-20-6		ND	1.00	0.250
1,1,2,2-Tetrachloroethane	79-34-5		ND	1.00	0.200
Tetrachloroethene	127-18-4		ND	1.00	0.250
Toluene	108-88-3	0.602	J	1.00	0.250
1,2,3-Trichlorobenzene	87-61-6		ND	1.00	0.150
1,2,4-Trichlorobenzene	120-82-1		ND	1.00	0.200
1,1,1-Trichloroethane	71-55-6		ND	1.00	0.250
1,1,2-Trichloroethane	79-00-5		ND	1.00	0.250
Trichloroethene	79-01-6		ND	1.00	0.250
Trichlorofluoromethane	75-69-4		ND	1.00	0.250
1,2,3-Trichloropropane	96-18-4		ND	1.00	0.500
1,2,4-Trimethylbenzene	95-63-6		ND	1.00	0.250
1,3,5-Trimethylbenzene	108-67-8		ND	1.00	0.250
Vinyl acetate	108-05-4		ND	10.0	2.50
Vinyl chloride	75-01-4		ND	1.00	0.250
o-Xylene	95-47-6		ND	1.00	0.250
m-,p-Xylene	179601-23-1		ND	1.00	0.500
Surrogate	Recovery	Lower Limit	Upper Limit	Q	
Dibromofluoromethane	86.7	86	118		
1,2-Dichloroethane-d4	83.2	80	120		
Toluene-d8	103	88	110		
4-Bromofluorobenzene	114	86	115		
J	Estimated value; the analyte concentration was less than the RL/LOQ.				

Certificate of Analysis

ND	Not detected at or above the reporting limit (RL).
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Sample #: L12070658-22	PrePrep Method: N/A	Instrument: ICP-THERMO2
Client ID: FIELD BLANK 17JULY2012	Prep Method: 3005A	Prep Date: 07/24/2012 06:26
Matrix: Water	Analytical Method: 6010B	Cal Date: 07/25/2012 13:34
Workgroup #: WG404495	Analyst: KHR	Run Date: 07/25/2012 17:46
Collect Date: 07/17/2012 08:35	Dilution: 1	File ID: T2.072512.174605
Sample Tag: 01	Units: mg/L	

Analyte	CAS #	Result	Qual	RL	MDL
Aluminum, Total	7429-90-5		ND	0.100	0.0500
Calcium, Total	7440-70-2		ND	0.200	0.100
Iron, Total	7439-89-6		ND	0.100	0.0500
Magnesium, Total	7439-95-4		ND	0.500	0.250
Potassium, Total	7440-09-7		ND	1.00	0.500
Sodium, Total	7440-23-5	0.351	J	0.500	0.250
Strontium, Total	7440-24-6		ND	0.0100	0.00500
J	Estimated value; the analyte concentration was less than the RL/LOQ.				
ND	Not detected at or above the reporting limit (RL).				

Sample #: L12070658-22	PrePrep Method: N/A	Instrument: ICP-MS2
Client ID: FIELD BLANK 17JULY2012	Prep Method: 3015	Prep Date: 07/25/2012 06:34
Matrix: Water	Analytical Method: 6020	Cal Date: 07/27/2012 08:18
Workgroup #: WG404557	Analyst: JYH	Run Date: 07/27/2012 11:24
Collect Date: 07/17/2012 08:35	Dilution: 1	File ID: NI.072712.112425
Sample Tag: 02	Units: mg/L	

Analyte	CAS #	Result	Qual	RL	MDL
Manganese, Total	7439-96-5		ND	0.00200	0.00100
ND	Not detected at or above the reporting limit (RL).				

Sample #: L12070658-22	PrePrep Method: N/A	Instrument: ICP-MS2
Client ID: FIELD BLANK 17JULY2012	Prep Method: 3015	Prep Date: 07/25/2012 06:34
Matrix: Water	Analytical Method: 6020	Cal Date: 07/26/2012 11:58
Workgroup #: WG404557	Analyst: JYH	Run Date: 07/26/2012 14:29
Collect Date: 07/17/2012 08:35	Dilution: 1	File ID: NI.072612.142911
Sample Tag: 01	Units: mg/L	

Analyte	CAS #	Result	Qual	RL	MDL
Antimony, Total	7440-36-0		ND	0.00100	0.000500
Barium, Total	7440-39-3		ND	0.00300	0.00150

Certificate of Analysis

Analyte	CAS #	Result	Qual	RL	MDL
Cadmium, Total	7440-43-9		ND	0.000600	0.000300
Chromium, Total	7440-47-3		ND	0.00200	0.00100
Copper, Total	7440-50-8		ND	0.00200	0.00100
Lead, Total	7439-92-1		ND	0.00100	0.000500
Nickel, Total	7440-02-0		ND	0.00400	0.00200
Selenium, Total	7782-49-2		ND	0.00100	0.000500
Thallium, Total	7440-28-0		ND	0.000200	0.000100
Vanadium, Total	7440-62-2		ND	0.00100	0.000500
Zinc, Total	7440-66-6		ND	0.0250	0.0125
ND	Not detected at or above the reporting limit (RL).				

Sample #: L12070658-23

PrePrep Method: N/A

Instrument: HPMS8

Client ID: MW2-2

Prep Method: 5030B/5030C/5035A

Prep Date: N/A

Matrix: Water

Analytical Method: 8260B

Cal Date: 06/28/2012 23:13

Workgroup #: WG404914

Analyst: ADC

Run Date: 07/30/2012 15:45

Collect Date: 07/17/2012 09:45

Dilution: 1

File ID: 8M381199

Sample Tag: 02

Units: ug/L

Analyte	CAS #	Result	Qual	RL	MDL
Acetone	67-64-1		ND	10.0	2.50
Benzene	71-43-2		ND	1.00	0.125
Bromobenzene	108-86-1		ND	1.00	0.125
Bromochloromethane	74-97-5		ND	1.00	0.200
Bromodichloromethane	75-27-4		ND	1.00	0.250
Bromoform	75-25-2		ND	1.00	0.500
Bromomethane	74-83-9		ND	1.00	0.500
2-Butanone	78-93-3		ND	10.0	2.50
n-Butylbenzene	104-51-8		ND	1.00	0.250
sec-Butylbenzene	135-98-8		ND	1.00	0.250
tert-Butylbenzene	98-06-6		ND	1.00	0.250
Carbon disulfide	75-15-0		ND	1.00	0.500
Carbon tetrachloride	56-23-5		ND	1.00	0.250
Chlorobenzene	108-90-7		ND	1.00	0.125
Chlorodibromomethane	124-48-1		ND	1.00	0.250
Chloroethane	75-00-3		ND	1.00	0.500
2-Chloroethyl vinyl ether	110-75-8		ND	10.0	2.00
Chloroform	67-66-3		ND	1.00	0.125
Chloromethane	74-87-3		ND	1.00	0.500
2-Chlorotoluene	95-49-8		ND	1.00	0.125
4-Chlorotoluene	106-43-4		ND	1.00	0.250

Certificate of Analysis

Analyte	CAS #	Result	Qual	RL	MDL
1,2-Dibromo-3-chloropropane	96-12-8		ND	5.00	1.00
1,2-Dibromoethane	106-93-4		ND	1.00	0.250
Dibromomethane	74-95-3		ND	1.00	0.250
1,2-Dichlorobenzene	95-50-1		ND	1.00	0.125
1,3-Dichlorobenzene	541-73-1		ND	1.00	0.250
1,4-Dichlorobenzene	106-46-7		ND	1.00	0.125
Dichlorodifluoromethane	75-71-8		ND	1.00	0.250
1,1-Dichloroethane	75-34-3		ND	1.00	0.125
1,2-Dichloroethane	107-06-2		ND	1.00	0.250
1,1-Dichloroethene	75-35-4		ND	1.00	0.500
cis-1,2-Dichloroethene	156-59-2		ND	1.00	0.250
trans-1,2-Dichloroethene	156-60-5		ND	1.00	0.250
1,2-Dichloropropane	78-87-5		ND	1.00	0.200
1,3-Dichloropropane	142-28-9		ND	1.00	0.200
2,2-Dichloropropane	594-20-7		ND	1.00	0.250
cis-1,3-Dichloropropene	10061-01-5		ND	1.00	0.250
trans-1,3-Dichloropropene	10061-02-6		ND	1.00	0.500
1,1-Dichloropropene	563-58-6		ND	1.00	0.250
Ethylbenzene	100-41-4		ND	1.00	0.250
2-Hexanone	591-78-6		ND	10.0	2.50
Hexachlorobutadiene	87-68-3		ND	1.00	0.250
Isopropylbenzene	98-82-8		ND	1.00	0.250
p-Isopropyltoluene	99-87-6		ND	1.00	0.250
4-Methyl-2-pentanone	108-10-1		ND	10.0	2.50
Methylene chloride	75-09-2		ND	5.00	0.250
Naphthalene	91-20-3		ND	1.00	0.200
n-Propylbenzene	103-65-1		ND	1.00	0.125
Styrene	100-42-5		ND	1.00	0.125
1,1,1,2-Tetrachloroethane	630-20-6		ND	1.00	0.250
1,1,2,2-Tetrachloroethane	79-34-5		ND	1.00	0.200
Tetrachloroethene	127-18-4		ND	1.00	0.250
Toluene	108-88-3		ND	1.00	0.250
1,2,3-Trichlorobenzene	87-61-6		ND	1.00	0.150
1,2,4-Trichlorobenzene	120-82-1		ND	1.00	0.200
1,1,1-Trichloroethane	71-55-6		ND	1.00	0.250
1,1,2-Trichloroethane	79-00-5		ND	1.00	0.250
Trichloroethene	79-01-6	0.274	J	1.00	0.250
Trichlorofluoromethane	75-69-4		ND	1.00	0.250
1,2,3-Trichloropropane	96-18-4		ND	1.00	0.500

Certificate of Analysis

Analyte	CAS #	Result	Qual	RL	MDL
1,2,4-Trimethylbenzene	95-63-6		ND	1.00	0.250
1,3,5-Trimethylbenzene	108-67-8		ND	1.00	0.250
Vinyl acetate	108-05-4		ND	10.0	2.50
Vinyl chloride	75-01-4		ND	1.00	0.250
o-Xylene	95-47-6		ND	1.00	0.250
m-,p-Xylene	179601-23-1		ND	1.00	0.500
Surrogate	Recovery	Lower Limit	Upper Limit	Q	
Dibromofluoromethane	98.0	86	118		
1,2-Dichloroethane-d4	82.8	80	120		
Toluene-d8	103	88	110		
4-Bromofluorobenzene	101	86	115		
J	Estimated value; the analyte concentration was less than the RL/LOQ.				
ND	Not detected at or above the reporting limit (RL).				

Sample #: L12070658-23	PrePrep Method: N/A	Instrument: ICP-THERMO2
Client ID: MW2-2	Prep Method: 3005A	Prep Date: 07/24/2012 06:26
Matrix: Water	Analytical Method: 6010B	Cal Date: 07/25/2012 13:34
Workgroup #: WG404495	Analyst: KHR	Run Date: 07/25/2012 17:49
Collect Date: 07/17/2012 09:45	Dilution: 1	File ID: T2.072512.174913
Sample Tag: 01	Units: mg/L	

Analyte	CAS #	Result	Qual	RL	MDL
Aluminum, Total	7429-90-5	16.9		0.100	0.0500
Calcium, Total	7440-70-2	6.07		0.200	0.100
Iron, Total	7439-89-6	20.5		0.100	0.0500
Magnesium, Total	7439-95-4	4.24		0.500	0.250
Potassium, Total	7440-09-7	2.84		1.00	0.500
Sodium, Total	7440-23-5	56.0		0.500	0.250
Strontium, Total	7440-24-6	0.198		0.0100	0.00500

Sample #: L12070658-23	PrePrep Method: N/A	Instrument: ICP-MS2
Client ID: MW2-2	Prep Method: 3015	Prep Date: 07/25/2012 06:34
Matrix: Water	Analytical Method: 6020	Cal Date: 07/26/2012 11:58
Workgroup #: WG404557	Analyst: JYH	Run Date: 07/26/2012 14:32
Collect Date: 07/17/2012 09:45	Dilution: 5	File ID: NI.072612.143222
Sample Tag: DL01	Units: mg/L	

Analyte	CAS #	Result	Qual	RL	MDL
Antimony, Total	7440-36-0		ND	0.00500	0.00250
Barium, Total	7440-39-3	0.221		0.0150	0.00750

Certificate of Analysis

Analyte	CAS #	Result	Qual	RL	MDL
Cadmium, Total	7440-43-9		ND	0.00300	0.00150
Chromium, Total	7440-47-3	0.0101		0.0100	0.00500
Copper, Total	7440-50-8	0.0108		0.0100	0.00500
Lead, Total	7439-92-1	0.00747		0.00500	0.00250
Nickel, Total	7440-02-0	0.0174	J	0.0200	0.0100
Selenium, Total	7782-49-2		ND	0.00500	0.00250
Thallium, Total	7440-28-0		ND	0.00100	0.000500
Vanadium, Total	7440-62-2	0.0170		0.00500	0.00250
Zinc, Total	7440-66-6	0.383		0.125	0.0625
J	Estimated value; the analyte concentration was less than the RL/LOQ.				
ND	Not detected at or above the reporting limit (RL).				

Sample #: L12070658-23	PrePrep Method: N/A	Instrument: ICP-MS2
Client ID: MW2-2	Prep Method: 3015	Prep Date: 07/25/2012 06:34
Matrix: Water	Analytical Method: 6020	Cal Date: 07/27/2012 08:18
Workgroup #: WG404557	Analyst: JYH	Run Date: 07/27/2012 11:27
Collect Date: 07/17/2012 09:45	Dilution: 10	File ID: NI.072712.112734
Sample Tag: DL02	Units: mg/L	

Analyte	CAS #	Result	Qual	RL	MDL
Manganese, Total	7439-96-5	0.0634		0.0200	0.0100

Sample #: L12070658-24	PrePrep Method: N/A	Instrument: HPMS8
Client ID: MW2-2D	Prep Method: 5030B/5030C/5035A	Prep Date: N/A
Matrix: Water	Analytical Method: 8260B	Cal Date: 06/28/2012 23:13
Workgroup #: WG404914	Analyst: ADC	Run Date: 07/30/2012 16:15
Collect Date: 07/17/2012 10:00	Dilution: 1	File ID: 8M381200
Sample Tag: 02	Units: ug/L	

Analyte	CAS #	Result	Qual	RL	MDL
Acetone	67-64-1		ND	10.0	2.50
Benzene	71-43-2		ND	1.00	0.125
Bromobenzene	108-86-1		ND	1.00	0.125
Bromochloromethane	74-97-5		ND	1.00	0.200
Bromodichloromethane	75-27-4		ND	1.00	0.250
Bromoform	75-25-2		ND	1.00	0.500
Bromomethane	74-83-9		ND	1.00	0.500
2-Butanone	78-93-3		ND	10.0	2.50
n-Butylbenzene	104-51-8		ND	1.00	0.250
sec-Butylbenzene	135-98-8		ND	1.00	0.250

Certificate of Analysis

Analyte	CAS #	Result	Qual	RL	MDL
tert-Butylbenzene	98-06-6		ND	1.00	0.250
Carbon disulfide	75-15-0		ND	1.00	0.500
Carbon tetrachloride	56-23-5		ND	1.00	0.250
Chlorobenzene	108-90-7		ND	1.00	0.125
Chlorodibromomethane	124-48-1		ND	1.00	0.250
Chloroethane	75-00-3		ND	1.00	0.500
2-Chloroethyl vinyl ether	110-75-8		ND	10.0	2.00
Chloroform	67-66-3		ND	1.00	0.125
Chloromethane	74-87-3		ND	1.00	0.500
2-Chlorotoluene	95-49-8		ND	1.00	0.125
4-Chlorotoluene	106-43-4		ND	1.00	0.250
1,2-Dibromo-3-chloropropane	96-12-8		ND	5.00	1.00
1,2-Dibromoethane	106-93-4		ND	1.00	0.250
Dibromomethane	74-95-3		ND	1.00	0.250
1,2-Dichlorobenzene	95-50-1		ND	1.00	0.125
1,3-Dichlorobenzene	541-73-1		ND	1.00	0.250
1,4-Dichlorobenzene	106-46-7		ND	1.00	0.125
Dichlorodifluoromethane	75-71-8		ND	1.00	0.250
1,1-Dichloroethane	75-34-3		ND	1.00	0.125
1,2-Dichloroethane	107-06-2		ND	1.00	0.250
1,1-Dichloroethene	75-35-4		ND	1.00	0.500
cis-1,2-Dichloroethene	156-59-2		ND	1.00	0.250
trans-1,2-Dichloroethene	156-60-5		ND	1.00	0.250
1,2-Dichloropropane	78-87-5		ND	1.00	0.200
1,3-Dichloropropane	142-28-9		ND	1.00	0.200
2,2-Dichloropropane	594-20-7		ND	1.00	0.250
cis-1,3-Dichloropropene	10061-01-5		ND	1.00	0.250
trans-1,3-Dichloropropene	10061-02-6		ND	1.00	0.500
1,1-Dichloropropene	563-58-6		ND	1.00	0.250
Ethylbenzene	100-41-4		ND	1.00	0.250
2-Hexanone	591-78-6		ND	10.0	2.50
Hexachlorobutadiene	87-68-3		ND	1.00	0.250
Isopropylbenzene	98-82-8		ND	1.00	0.250
p-Isopropyltoluene	99-87-6		ND	1.00	0.250
4-Methyl-2-pentanone	108-10-1		ND	10.0	2.50
Methylene chloride	75-09-2		ND	5.00	0.250
Naphthalene	91-20-3		ND	1.00	0.200
n-Propylbenzene	103-65-1		ND	1.00	0.125
Styrene	100-42-5		ND	1.00	0.125

Certificate of Analysis

Analyte	CAS #	Result	Qual	RL	MDL
1,1,1,2-Tetrachloroethane	630-20-6		ND	1.00	0.250
1,1,2,2-Tetrachloroethane	79-34-5		ND	1.00	0.200
Tetrachloroethene	127-18-4		ND	1.00	0.250
Toluene	108-88-3		ND	1.00	0.250
1,2,3-Trichlorobenzene	87-61-6		ND	1.00	0.150
1,2,4-Trichlorobenzene	120-82-1		ND	1.00	0.200
1,1,1-Trichloroethane	71-55-6		ND	1.00	0.250
1,1,2-Trichloroethane	79-00-5		ND	1.00	0.250
Trichloroethene	79-01-6		ND	1.00	0.250
Trichlorofluoromethane	75-69-4		ND	1.00	0.250
1,2,3-Trichloropropane	96-18-4		ND	1.00	0.500
1,2,4-Trimethylbenzene	95-63-6		ND	1.00	0.250
1,3,5-Trimethylbenzene	108-67-8		ND	1.00	0.250
Vinyl acetate	108-05-4		ND	10.0	2.50
Vinyl chloride	75-01-4		ND	1.00	0.250
o-Xylene	95-47-6		ND	1.00	0.250
m-,p-Xylene	179601-23-1		ND	1.00	0.500
Surrogate	Recovery	Lower Limit	Upper Limit	Q	
Dibromofluoromethane	98.8	86	118		
1,2-Dichloroethane-d4	82.7	80	120		
Toluene-d8	102	88	110		
4-Bromofluorobenzene	101	86	115		
ND	Not detected at or above the reporting limit (RL).				

Sample #: L12070658-24

PrePrep Method: N/A

Instrument: ICP-THERMO2

Client ID: MW2-2D

Prep Method: 3005A

Prep Date: 07/24/2012 06:26

Matrix: Water

Analytical Method: 6010B

Cal Date: 07/25/2012 13:34

Workgroup #: WG404495

Analyst: KHR

Run Date: 07/25/2012 17:52

Collect Date: 07/17/2012 10:00

Dilution: 1

File ID: T2.072512.175217

Sample Tag: 01

Units: mg/L

Analyte	CAS #	Result	Qual	RL	MDL
Aluminum, Total	7429-90-5	16.3		0.100	0.0500
Calcium, Total	7440-70-2	5.83		0.200	0.100
Iron, Total	7439-89-6	19.5		0.100	0.0500
Magnesium, Total	7439-95-4	4.12		0.500	0.250
Potassium, Total	7440-09-7	2.87		1.00	0.500
Sodium, Total	7440-23-5	54.1		0.500	0.250
Strontium, Total	7440-24-6	0.192		0.0100	0.00500

Certificate of Analysis

Sample #: L12070658-24	PrePrep Method: N/A	Instrument: ICP-MS2
Client ID: MW2-2D	Prep Method: 3015	Prep Date: 07/25/2012 06:34
Matrix: Water	Analytical Method: 6020	Cal Date: 07/26/2012 11:58
Workgroup #: WG404557	Analyst: JYH	Run Date: 07/26/2012 14:35
Collect Date: 07/17/2012 10:00	Dilution: 5	File ID: NI.072612.143531
Sample Tag: DL01	Units: mg/L	

Analyte	CAS #	Result	Qual	RL	MDL
Antimony, Total	7440-36-0		ND	0.00500	0.00250
Barium, Total	7440-39-3	0.209		0.0150	0.00750
Cadmium, Total	7440-43-9		ND	0.00300	0.00150
Chromium, Total	7440-47-3	0.0141		0.0100	0.00500
Copper, Total	7440-50-8	0.0124		0.0100	0.00500
Lead, Total	7439-92-1	0.00791		0.00500	0.00250
Nickel, Total	7440-02-0	0.0204		0.0200	0.0100
Selenium, Total	7782-49-2	0.00307	J	0.00500	0.00250
Thallium, Total	7440-28-0		ND	0.00100	0.000500
Vanadium, Total	7440-62-2	0.0212		0.00500	0.00250
Zinc, Total	7440-66-6	0.478		0.125	0.0625
J	Estimated value; the analyte concentration was less than the RL/LOQ.				
ND	Not detected at or above the reporting limit (RL).				

Sample #: L12070658-24	PrePrep Method: N/A	Instrument: ICP-MS2
Client ID: MW2-2D	Prep Method: 3015	Prep Date: 07/25/2012 06:34
Matrix: Water	Analytical Method: 6020	Cal Date: 07/27/2012 08:18
Workgroup #: WG404557	Analyst: JYH	Run Date: 07/27/2012 11:30
Collect Date: 07/17/2012 10:00	Dilution: 10	File ID: NI.072712.113043
Sample Tag: DL02	Units: mg/L	

Analyte	CAS #	Result	Qual	RL	MDL
Manganese, Total	7439-96-5	0.0710		0.0200	0.0100

Sample #: L12070658-25	PrePrep Method: N/A	Instrument: HPMS8
Client ID: MW2-3	Prep Method: 5030B/5030C/5035A	Prep Date: N/A
Matrix: Water	Analytical Method: 8260B	Cal Date: 06/28/2012 23:13
Workgroup #: WG404914	Analyst: ADC	Run Date: 07/30/2012 16:45
Collect Date: 07/17/2012 10:55	Dilution: 1	File ID: 8M381201
Sample Tag: 02	Units: ug/L	

Analyte	CAS #	Result	Qual	RL	MDL
Acetone	67-64-1		ND	10.0	2.50

Certificate of Analysis

Analyte	CAS #	Result	Qual	RL	MDL
Benzene	71-43-2		ND	1.00	0.125
Bromobenzene	108-86-1		ND	1.00	0.125
Bromochloromethane	74-97-5		ND	1.00	0.200
Bromodichloromethane	75-27-4		ND	1.00	0.250
Bromoform	75-25-2		ND	1.00	0.500
Bromomethane	74-83-9		ND	1.00	0.500
2-Butanone	78-93-3		ND	10.0	2.50
n-Butylbenzene	104-51-8		ND	1.00	0.250
sec-Butylbenzene	135-98-8		ND	1.00	0.250
tert-Butylbenzene	98-06-6		ND	1.00	0.250
Carbon disulfide	75-15-0		ND	1.00	0.500
Carbon tetrachloride	56-23-5		ND	1.00	0.250
Chlorobenzene	108-90-7		ND	1.00	0.125
Chlorodibromomethane	124-48-1		ND	1.00	0.250
Chloroethane	75-00-3		ND	1.00	0.500
2-Chloroethyl vinyl ether	110-75-8		ND	10.0	2.00
Chloroform	67-66-3		ND	1.00	0.125
Chloromethane	74-87-3		ND	1.00	0.500
2-Chlorotoluene	95-49-8		ND	1.00	0.125
4-Chlorotoluene	106-43-4		ND	1.00	0.250
1,2-Dibromo-3-chloropropane	96-12-8		ND	5.00	1.00
1,2-Dibromoethane	106-93-4		ND	1.00	0.250
Dibromomethane	74-95-3		ND	1.00	0.250
1,2-Dichlorobenzene	95-50-1		ND	1.00	0.125
1,3-Dichlorobenzene	541-73-1		ND	1.00	0.250
1,4-Dichlorobenzene	106-46-7		ND	1.00	0.125
Dichlorodifluoromethane	75-71-8		ND	1.00	0.250
1,1-Dichloroethane	75-34-3		ND	1.00	0.125
1,2-Dichloroethane	107-06-2		ND	1.00	0.250
1,1-Dichloroethene	75-35-4		ND	1.00	0.500
cis-1,2-Dichloroethene	156-59-2		ND	1.00	0.250
trans-1,2-Dichloroethene	156-60-5		ND	1.00	0.250
1,2-Dichloropropane	78-87-5		ND	1.00	0.200
1,3-Dichloropropane	142-28-9		ND	1.00	0.200
2,2-Dichloropropane	594-20-7		ND	1.00	0.250
cis-1,3-Dichloropropene	10061-01-5		ND	1.00	0.250
trans-1,3-Dichloropropene	10061-02-6		ND	1.00	0.500
1,1-Dichloropropene	563-58-6		ND	1.00	0.250
Ethylbenzene	100-41-4		ND	1.00	0.250

Certificate of Analysis

Analyte	CAS #	Result	Qual	RL	MDL
2-Hexanone	591-78-6		ND	10.0	2.50
Hexachlorobutadiene	87-68-3		ND	1.00	0.250
Isopropylbenzene	98-82-8		ND	1.00	0.250
p-Isopropyltoluene	99-87-6		ND	1.00	0.250
4-Methyl-2-pentanone	108-10-1		ND	10.0	2.50
Methylene chloride	75-09-2		ND	5.00	0.250
Naphthalene	91-20-3		ND	1.00	0.200
n-Propylbenzene	103-65-1		ND	1.00	0.125
Styrene	100-42-5		ND	1.00	0.125
1,1,1,2-Tetrachloroethane	630-20-6		ND	1.00	0.250
1,1,1,2,2-Tetrachloroethane	79-34-5		ND	1.00	0.200
Tetrachloroethene	127-18-4		ND	1.00	0.250
Toluene	108-88-3		ND	1.00	0.250
1,2,3-Trichlorobenzene	87-61-6		ND	1.00	0.150
1,2,4-Trichlorobenzene	120-82-1		ND	1.00	0.200
1,1,1-Trichloroethane	71-55-6		ND	1.00	0.250
1,1,1,2-Trichloroethane	79-00-5		ND	1.00	0.250
Trichloroethene	79-01-6	1.44		1.00	0.250
Trichlorofluoromethane	75-69-4		ND	1.00	0.250
1,2,3-Trichloropropane	96-18-4		ND	1.00	0.500
1,2,4-Trimethylbenzene	95-63-6		ND	1.00	0.250
1,3,5-Trimethylbenzene	108-67-8		ND	1.00	0.250
Vinyl acetate	108-05-4		ND	10.0	2.50
Vinyl chloride	75-01-4		ND	1.00	0.250
o-Xylene	95-47-6		ND	1.00	0.250
m-,p-Xylene	179601-23-1		ND	1.00	0.500
Surrogate	Recovery	Lower Limit	Upper Limit	Q	
Dibromofluoromethane	99.2	86	118		
1,2-Dichloroethane-d4	83.6	80	120		
Toluene-d8	103	88	110		
4-Bromofluorobenzene	102	86	115		
ND	Not detected at or above the reporting limit (RL).				

Sample #: L12070658-25

PrePrep Method: N/A

Instrument: ICP-THERMO2

Client ID: MW2-3

Prep Method: 3005A

Prep Date: 07/24/2012 06:26

Matrix: Water

Analytical Method: 6010B

Cal Date: 07/25/2012 13:34

Workgroup #: WG404495

Analyst: KHR

Run Date: 07/25/2012 18:01

Collect Date: 07/17/2012 10:55

Dilution: 1

File ID: T2.072512.180148

Sample Tag: 01

Units: mg/L

Certificate of Analysis

Analyte	CAS #	Result	Qual	RL	MDL
Aluminum, Total	7429-90-5	3.55		0.100	0.0500
Calcium, Total	7440-70-2	1.52		0.200	0.100
Iron, Total	7439-89-6	3.87		0.100	0.0500
Magnesium, Total	7439-95-4	1.13		0.500	0.250
Potassium, Total	7440-09-7	1.38		1.00	0.500
Sodium, Total	7440-23-5	27.4		0.500	0.250
Strontium, Total	7440-24-6	0.0477		0.0100	0.00500

Sample #: L12070658-25	PrePrep Method: N/A	Instrument: ICP-MS2
Client ID: MW2-3	Prep Method: 3015	Prep Date: 07/25/2012 06:34
Matrix: Water	Analytical Method: 6020	Cal Date: 07/26/2012 11:58
Workgroup #: WG404557	Analyst: JYH	Run Date: 07/26/2012 14:38
Collect Date: 07/17/2012 10:55	Dilution: 5	File ID: NI.072612.143841
Sample Tag: DL01	Units: mg/L	

Analyte	CAS #	Result	Qual	RL	MDL
Antimony, Total	7440-36-0		ND	0.00500	0.00250
Barium, Total	7440-39-3	0.0948		0.0150	0.00750
Cadmium, Total	7440-43-9		ND	0.00300	0.00150
Chromium, Total	7440-47-3	0.00669	J	0.0100	0.00500
Copper, Total	7440-50-8		ND	0.0100	0.00500
Lead, Total	7439-92-1		ND	0.00500	0.00250
Nickel, Total	7440-02-0		ND	0.0200	0.0100
Selenium, Total	7782-49-2		ND	0.00500	0.00250
Thallium, Total	7440-28-0		ND	0.00100	0.000500
Vanadium, Total	7440-62-2	0.0107		0.00500	0.00250
Zinc, Total	7440-66-6		ND	0.125	0.0625
J	Estimated value; the analyte concentration was less than the RL/LOQ.				
ND	Not detected at or above the reporting limit (RL).				

Sample #: L12070658-25	PrePrep Method: N/A	Instrument: ICP-MS2
Client ID: MW2-3	Prep Method: 3015	Prep Date: 07/25/2012 06:34
Matrix: Water	Analytical Method: 6020	Cal Date: 07/27/2012 08:18
Workgroup #: WG404557	Analyst: JYH	Run Date: 07/27/2012 11:33
Collect Date: 07/17/2012 10:55	Dilution: 10	File ID: NI.072712.113352
Sample Tag: DL02	Units: mg/L	

Analyte	CAS #	Result	Qual	RL	MDL
Manganese, Total	7439-96-5	0.0329		0.0200	0.0100

Certificate of Analysis

Sample #: L12070658-26	PrePrep Method: N/A	Instrument: HPMS8
Client ID: 35B WW01	Prep Method: 5030B/5030C/5035A	Prep Date: N/A
Matrix: Water	Analytical Method: 8260B	Cal Date: 06/28/2012 23:13
Workgroup #: WG404914	Analyst: ADC	Run Date: 07/30/2012 17:15
Collect Date: 07/17/2012 12:40	Dilution: 1	File ID: 8M381202
Sample Tag: 02	Units: ug/L	

Analyte	CAS #	Result	Qual	RL	MDL
Acetone	67-64-1		ND	10.0	2.50
Benzene	71-43-2		ND	1.00	0.125
Bromobenzene	108-86-1		ND	1.00	0.125
Bromochloromethane	74-97-5		ND	1.00	0.200
Bromodichloromethane	75-27-4		ND	1.00	0.250
Bromoform	75-25-2		ND	1.00	0.500
Bromomethane	74-83-9		ND	1.00	0.500
2-Butanone	78-93-3		ND	10.0	2.50
n-Butylbenzene	104-51-8		ND	1.00	0.250
sec-Butylbenzene	135-98-8		ND	1.00	0.250
tert-Butylbenzene	98-06-6		ND	1.00	0.250
Carbon disulfide	75-15-0		ND	1.00	0.500
Carbon tetrachloride	56-23-5		ND	1.00	0.250
Chlorobenzene	108-90-7		ND	1.00	0.125
Chlorodibromomethane	124-48-1		ND	1.00	0.250
Chloroethane	75-00-3		ND	1.00	0.500
2-Chloroethyl vinyl ether	110-75-8		ND	10.0	2.00
Chloroform	67-66-3		ND	1.00	0.125
Chloromethane	74-87-3		ND	1.00	0.500
2-Chlorotoluene	95-49-8		ND	1.00	0.125
4-Chlorotoluene	106-43-4		ND	1.00	0.250
1,2-Dibromo-3-chloropropane	96-12-8		ND	5.00	1.00
1,2-Dibromoethane	106-93-4		ND	1.00	0.250
Dibromomethane	74-95-3		ND	1.00	0.250
1,2-Dichlorobenzene	95-50-1		ND	1.00	0.125
1,3-Dichlorobenzene	541-73-1		ND	1.00	0.250
1,4-Dichlorobenzene	106-46-7		ND	1.00	0.125
Dichlorodifluoromethane	75-71-8		ND	1.00	0.250
1,1-Dichloroethane	75-34-3		ND	1.00	0.125
1,2-Dichloroethane	107-06-2		ND	1.00	0.250
1,1-Dichloroethene	75-35-4		ND	1.00	0.500
cis-1,2-Dichloroethene	156-59-2		ND	1.00	0.250
trans-1,2-Dichloroethene	156-60-5		ND	1.00	0.250

Certificate of Analysis

Analyte	CAS #	Result	Qual	RL	MDL
1,2-Dichloropropane	78-87-5		ND	1.00	0.200
1,3-Dichloropropane	142-28-9		ND	1.00	0.200
2,2-Dichloropropane	594-20-7		ND	1.00	0.250
cis-1,3-Dichloropropene	10061-01-5		ND	1.00	0.250
trans-1,3-Dichloropropene	10061-02-6		ND	1.00	0.500
1,1-Dichloropropene	563-58-6		ND	1.00	0.250
Ethylbenzene	100-41-4		ND	1.00	0.250
2-Hexanone	591-78-6		ND	10.0	2.50
Hexachlorobutadiene	87-68-3		ND	1.00	0.250
Isopropylbenzene	98-82-8		ND	1.00	0.250
p-Isopropyltoluene	99-87-6		ND	1.00	0.250
4-Methyl-2-pentanone	108-10-1		ND	10.0	2.50
Methylene chloride	75-09-2		ND	5.00	0.250
Naphthalene	91-20-3		ND	1.00	0.200
n-Propylbenzene	103-65-1		ND	1.00	0.125
Styrene	100-42-5		ND	1.00	0.125
1,1,1,2-Tetrachloroethane	630-20-6		ND	1.00	0.250
1,1,2,2-Tetrachloroethane	79-34-5		ND	1.00	0.200
Tetrachloroethene	127-18-4		ND	1.00	0.250
Toluene	108-88-3		ND	1.00	0.250
1,2,3-Trichlorobenzene	87-61-6		ND	1.00	0.150
1,2,4-Trichlorobenzene	120-82-1		ND	1.00	0.200
1,1,1-Trichloroethane	71-55-6		ND	1.00	0.250
1,1,2-Trichloroethane	79-00-5		ND	1.00	0.250
Trichloroethene	79-01-6		ND	1.00	0.250
Trichlorofluoromethane	75-69-4		ND	1.00	0.250
1,2,3-Trichloropropane	96-18-4		ND	1.00	0.500
1,2,4-Trimethylbenzene	95-63-6		ND	1.00	0.250
1,3,5-Trimethylbenzene	108-67-8		ND	1.00	0.250
Vinyl acetate	108-05-4		ND	10.0	2.50
Vinyl chloride	75-01-4		ND	1.00	0.250
o-Xylene	95-47-6		ND	1.00	0.250
m-,p-Xylene	179601-23-1		ND	1.00	0.500
Surrogate	Recovery	Lower Limit	Upper Limit	Q	
Dibromofluoromethane	98.7	86	118		
1,2-Dichloroethane-d4	84.0	80	120		
Toluene-d8	104	88	110		
4-Bromofluorobenzene	102	86	115		
ND	Not detected at or above the reporting limit (RL).				

Lab Report #: L12070658
 Lab Project #: 3083.001
 Project Name: Longhorn AAP
 Lab Contact: Kathy Albertson

Certificate of Analysis

Sample #: L12070658-26	PrePrep Method: N/A	Instrument: ICP-THERMO2
Client ID: 35B WW01	Prep Method: 3005A	Prep Date: 07/24/2012 06:26
Matrix: Water	Analytical Method: 6010B	Cal Date: 07/25/2012 13:34
Workgroup #: WG404495	Analyst: KHR	Run Date: 07/25/2012 18:04
Collect Date: 07/17/2012 12:40	Dilution: 1	File ID: T2.072512.180453
Sample Tag: 01	Units: mg/L	

Analyte	CAS #	Result	Qual	RL	MDL
Aluminum, Total	7429-90-5	62.6		0.100	0.0500
Calcium, Total	7440-70-2	3.40		0.200	0.100
Iron, Total	7439-89-6	40.4		0.100	0.0500
Magnesium, Total	7439-95-4	5.84		0.500	0.250
Potassium, Total	7440-09-7	3.72		1.00	0.500
Sodium, Total	7440-23-5	28.6		0.500	0.250
Strontium, Total	7440-24-6	0.108		0.0100	0.00500

Sample #: L12070658-26	PrePrep Method: N/A	Instrument: ICP-MS2
Client ID: 35B WW01	Prep Method: 3015	Prep Date: 07/25/2012 06:34
Matrix: Water	Analytical Method: 6020	Cal Date: 07/26/2012 11:58
Workgroup #: WG404557	Analyst: JYH	Run Date: 07/26/2012 14:41
Collect Date: 07/17/2012 12:40	Dilution: 5	File ID: NI.072612.144152
Sample Tag: DL01	Units: mg/L	

Analyte	CAS #	Result	Qual	RL	MDL
Antimony, Total	7440-36-0		ND	0.00500	0.00250
Barium, Total	7440-39-3	0.224		0.0150	0.00750
Cadmium, Total	7440-43-9		ND	0.00300	0.00150
Chromium, Total	7440-47-3	0.0205		0.0100	0.00500
Copper, Total	7440-50-8	0.0172		0.0100	0.00500
Lead, Total	7439-92-1	0.0105		0.00500	0.00250
Nickel, Total	7440-02-0	0.0188	J	0.0200	0.0100
Selenium, Total	7782-49-2		ND	0.00500	0.00250
Thallium, Total	7440-28-0		ND	0.00100	0.000500
Vanadium, Total	7440-62-2	0.0300		0.00500	0.00250
Zinc, Total	7440-66-6	0.142		0.125	0.0625
J	Estimated value; the analyte concentration was less than the RL/LOQ.				
ND	Not detected at or above the reporting limit (RL).				

Certificate of Analysis

Sample #: L12070658-26	PrePrep Method: N/A	Instrument: ICP-MS2
Client ID: 35B WW01	Prep Method: 3015	Prep Date: 07/25/2012 06:34
Matrix: Water	Analytical Method: 6020	Cal Date: 07/27/2012 08:18
Workgroup #: WG404557	Analyst: JYH	Run Date: 07/27/2012 11:37
Collect Date: 07/17/2012 12:40	Dilution: 10	File ID: NI.072712.113701
Sample Tag: DL02	Units: mg/L	

Analyte	CAS #	Result	Qual	RL	MDL
Manganese, Total	7439-96-5	0.0837		0.0200	0.0100

Sample #: L12070658-27	PrePrep Method: N/A	Instrument: HPMS8
Client ID: 35B WW04	Prep Method: 5030B/5030C/5035A	Prep Date: N/A
Matrix: Water	Analytical Method: 8260B	Cal Date: 06/28/2012 23:13
Workgroup #: WG404914	Analyst: ADC	Run Date: 07/30/2012 17:45
Collect Date: 07/17/2012 13:45	Dilution: 1	File ID: 8M381203
Sample Tag: 02	Units: ug/L	

Analyte	CAS #	Result	Qual	RL	MDL
Acetone	67-64-1		ND	10.0	2.50
Benzene	71-43-2		ND	1.00	0.125
Bromobenzene	108-86-1		ND	1.00	0.125
Bromochloromethane	74-97-5		ND	1.00	0.200
Bromodichloromethane	75-27-4		ND	1.00	0.250
Bromoform	75-25-2		ND	1.00	0.500
Bromomethane	74-83-9		ND	1.00	0.500
2-Butanone	78-93-3		ND	10.0	2.50
n-Butylbenzene	104-51-8		ND	1.00	0.250
sec-Butylbenzene	135-98-8		ND	1.00	0.250
tert-Butylbenzene	98-06-6		ND	1.00	0.250
Carbon disulfide	75-15-0		ND	1.00	0.500
Carbon tetrachloride	56-23-5		ND	1.00	0.250
Chlorobenzene	108-90-7		ND	1.00	0.125
Chlorodibromomethane	124-48-1		ND	1.00	0.250
Chloroethane	75-00-3		ND	1.00	0.500
2-Chloroethyl vinyl ether	110-75-8		ND	10.0	2.00
Chloroform	67-66-3		ND	1.00	0.125
Chloromethane	74-87-3		ND	1.00	0.500
2-Chlorotoluene	95-49-8		ND	1.00	0.125
4-Chlorotoluene	106-43-4		ND	1.00	0.250
1,2-Dibromo-3-chloropropane	96-12-8		ND	5.00	1.00
1,2-Dibromoethane	106-93-4		ND	1.00	0.250

Certificate of Analysis

Analyte	CAS #	Result	Qual	RL	MDL
Dibromomethane	74-95-3		ND	1.00	0.250
1,2-Dichlorobenzene	95-50-1		ND	1.00	0.125
1,3-Dichlorobenzene	541-73-1		ND	1.00	0.250
1,4-Dichlorobenzene	106-46-7		ND	1.00	0.125
Dichlorodifluoromethane	75-71-8		ND	1.00	0.250
1,1-Dichloroethane	75-34-3	0.639	J	1.00	0.125
1,2-Dichloroethane	107-06-2	0.256	J	1.00	0.250
1,1-Dichloroethene	75-35-4	1.67		1.00	0.500
cis-1,2-Dichloroethene	156-59-2	0.475	J	1.00	0.250
trans-1,2-Dichloroethene	156-60-5		ND	1.00	0.250
1,2-Dichloropropane	78-87-5		ND	1.00	0.200
1,3-Dichloropropane	142-28-9		ND	1.00	0.200
2,2-Dichloropropane	594-20-7		ND	1.00	0.250
cis-1,3-Dichloropropene	10061-01-5		ND	1.00	0.250
trans-1,3-Dichloropropene	10061-02-6		ND	1.00	0.500
1,1-Dichloropropene	563-58-6		ND	1.00	0.250
Ethylbenzene	100-41-4		ND	1.00	0.250
2-Hexanone	591-78-6		ND	10.0	2.50
Hexachlorobutadiene	87-68-3		ND	1.00	0.250
Isopropylbenzene	98-82-8		ND	1.00	0.250
p-Isopropyltoluene	99-87-6		ND	1.00	0.250
4-Methyl-2-pentanone	108-10-1		ND	10.0	2.50
Methylene chloride	75-09-2		ND	5.00	0.250
Naphthalene	91-20-3		ND	1.00	0.200
n-Propylbenzene	103-65-1		ND	1.00	0.125
Styrene	100-42-5		ND	1.00	0.125
1,1,1,2-Tetrachloroethane	630-20-6		ND	1.00	0.250
1,1,1,2,2-Tetrachloroethane	79-34-5		ND	1.00	0.200
Tetrachloroethene	127-18-4	48.9		1.00	0.250
Toluene	108-88-3		ND	1.00	0.250
1,2,3-Trichlorobenzene	87-61-6		ND	1.00	0.150
1,2,4-Trichlorobenzene	120-82-1		ND	1.00	0.200
1,1,1-Trichloroethane	71-55-6		ND	1.00	0.250
1,1,1,2-Trichloroethane	79-00-5		ND	1.00	0.250
Trichloroethene	79-01-6	8.09		1.00	0.250
Trichlorofluoromethane	75-69-4		ND	1.00	0.250
1,2,3-Trichloropropane	96-18-4		ND	1.00	0.500
1,2,4-Trimethylbenzene	95-63-6		ND	1.00	0.250
1,3,5-Trimethylbenzene	108-67-8		ND	1.00	0.250

Certificate of Analysis

Analyte	CAS #	Result	Qual	RL	MDL
Vinyl acetate	108-05-4		ND	10.0	2.50
Vinyl chloride	75-01-4		ND	1.00	0.250
o-Xylene	95-47-6		ND	1.00	0.250
m-,p-Xylene	179601-23-1		ND	1.00	0.500
Surrogate	Recovery	Lower Limit	Upper Limit	Q	
Dibromofluoromethane	100	86	118		
1,2-Dichloroethane-d4	85.0	80	120		
Toluene-d8	103	88	110		
4-Bromofluorobenzene	102	86	115		
J	Estimated value; the analyte concentration was less than the RL/LOQ.				
ND	Not detected at or above the reporting limit (RL).				

Sample #: L12070658-27	PrePrep Method: N/A	Instrument: PE-ICP2
Client ID: 35B WW04	Prep Method: 3005A	Prep Date: 07/24/2012 06:30
Matrix: Water	Analytical Method: 6010B	Cal Date: 07/25/2012 09:07
Workgroup #: WG404492	Analyst: KHR	Run Date: 07/25/2012 19:16
Collect Date: 07/17/2012 13:45	Dilution: 1	File ID: P2.072512.191650
Sample Tag: 01	Units: mg/L	

Analyte	CAS #	Result	Qual	RL	MDL
Aluminum, Total	7429-90-5	1.67		0.100	0.0500
Calcium, Total	7440-70-2	9.31		0.200	0.100
Iron, Total	7439-89-6	2.67		0.100	0.0500
Magnesium, Total	7439-95-4	4.81		0.500	0.250
Potassium, Total	7440-09-7	0.900	J	1.00	0.500
Sodium, Total	7440-23-5	66.8		0.500	0.250
Strontium, Total	7440-24-6	0.305		0.0100	0.00500
J	Estimated value; the analyte concentration was less than the RL/LOQ.				

Sample #: L12070658-27	PrePrep Method: N/A	Instrument: ICP-MS2
Client ID: 35B WW04	Prep Method: 3015	Prep Date: 07/25/2012 06:34
Matrix: Water	Analytical Method: 6020	Cal Date: 07/26/2012 11:58
Workgroup #: WG404557	Analyst: JYH	Run Date: 07/26/2012 14:45
Collect Date: 07/17/2012 13:45	Dilution: 5	File ID: NI.072612.144502
Sample Tag: DL01	Units: mg/L	

Analyte	CAS #	Result	Qual	RL	MDL
Antimony, Total	7440-36-0		ND	0.00500	0.00250
Barium, Total	7440-39-3	0.0834		0.0150	0.00750
Cadmium, Total	7440-43-9		ND	0.00300	0.00150

Certificate of Analysis

Analyte	CAS #	Result	Qual	RL	MDL
Chromium, Total	7440-47-3		ND	0.0100	0.00500
Copper, Total	7440-50-8		ND	0.0100	0.00500
Lead, Total	7439-92-1		ND	0.00500	0.00250
Nickel, Total	7440-02-0		ND	0.0200	0.0100
Selenium, Total	7782-49-2		ND	0.00500	0.00250
Thallium, Total	7440-28-0		ND	0.00100	0.000500
Vanadium, Total	7440-62-2	0.00651		0.00500	0.00250
Zinc, Total	7440-66-6		ND	0.125	0.0625
ND	Not detected at or above the reporting limit (RL).				

Sample #: L12070658-27 **PrePrep Method:** N/A **Instrument:** ICP-MS2
Client ID: 35B WW04 **Prep Method:** 3015 **Prep Date:** 07/25/2012 06:34
Matrix: Water **Analytical Method:** 6020 **Cal Date:** 07/27/2012 08:18
Workgroup #: WG404557 **Analyst:** JYH **Run Date:** 07/27/2012 11:40
Collect Date: 07/17/2012 13:45 **Dilution:** 10 **File ID:** NI.072712.114010
Sample Tag: DL02 **Units:** mg/L

Analyte	CAS #	Result	Qual	RL	MDL
Manganese, Total	7439-96-5	0.0112	J	0.0200	0.0100
J	Estimated value; the analyte concentration was less than the RL/LOQ.				

Sample #: L12070658-28 **PrePrep Method:** N/A **Instrument:** HPMS8
Client ID: 35B SW-1 **Prep Method:** 5030B/5030C/5035A **Prep Date:** N/A
Matrix: Water **Analytical Method:** 8260B **Cal Date:** 06/28/2012 23:13
Workgroup #: WG404914 **Analyst:** ADC **Run Date:** 07/30/2012 18:15
Collect Date: 07/17/2012 14:30 **Dilution:** 1 **File ID:** 8M381204
Sample Tag: 02 **Units:** ug/L

Analyte	CAS #	Result	Qual	RL	MDL
Acetone	67-64-1		ND	10.0	2.50
Benzene	71-43-2		ND	1.00	0.125
Bromobenzene	108-86-1		ND	1.00	0.125
Bromochloromethane	74-97-5		ND	1.00	0.200
Bromodichloromethane	75-27-4		ND	1.00	0.250
Bromoform	75-25-2		ND	1.00	0.500
Bromomethane	74-83-9		ND	1.00	0.500
2-Butanone	78-93-3		ND	10.0	2.50
n-Butylbenzene	104-51-8		ND	1.00	0.250
sec-Butylbenzene	135-98-8		ND	1.00	0.250
tert-Butylbenzene	98-06-6		ND	1.00	0.250

Certificate of Analysis

Analyte	CAS #	Result	Qual	RL	MDL
Carbon disulfide	75-15-0		ND	1.00	0.500
Carbon tetrachloride	56-23-5		ND	1.00	0.250
Chlorobenzene	108-90-7		ND	1.00	0.125
Chlorodibromomethane	124-48-1		ND	1.00	0.250
Chloroethane	75-00-3		ND	1.00	0.500
2-Chloroethyl vinyl ether	110-75-8		ND	10.0	2.00
Chloroform	67-66-3		ND	1.00	0.125
Chloromethane	74-87-3		ND	1.00	0.500
2-Chlorotoluene	95-49-8		ND	1.00	0.125
4-Chlorotoluene	106-43-4		ND	1.00	0.250
1,2-Dibromo-3-chloropropane	96-12-8		ND	5.00	1.00
1,2-Dibromoethane	106-93-4		ND	1.00	0.250
Dibromomethane	74-95-3		ND	1.00	0.250
1,2-Dichlorobenzene	95-50-1		ND	1.00	0.125
1,3-Dichlorobenzene	541-73-1		ND	1.00	0.250
1,4-Dichlorobenzene	106-46-7		ND	1.00	0.125
Dichlorodifluoromethane	75-71-8		ND	1.00	0.250
1,1-Dichloroethane	75-34-3		ND	1.00	0.125
1,2-Dichloroethane	107-06-2		ND	1.00	0.250
1,1-Dichloroethene	75-35-4		ND	1.00	0.500
cis-1,2-Dichloroethene	156-59-2		ND	1.00	0.250
trans-1,2-Dichloroethene	156-60-5		ND	1.00	0.250
1,2-Dichloropropane	78-87-5		ND	1.00	0.200
1,3-Dichloropropane	142-28-9		ND	1.00	0.200
2,2-Dichloropropane	594-20-7		ND	1.00	0.250
cis-1,3-Dichloropropene	10061-01-5		ND	1.00	0.250
trans-1,3-Dichloropropene	10061-02-6		ND	1.00	0.500
1,1-Dichloropropene	563-58-6		ND	1.00	0.250
Ethylbenzene	100-41-4		ND	1.00	0.250
2-Hexanone	591-78-6		ND	10.0	2.50
Hexachlorobutadiene	87-68-3		ND	1.00	0.250
Isopropylbenzene	98-82-8		ND	1.00	0.250
p-Isopropyltoluene	99-87-6		ND	1.00	0.250
4-Methyl-2-pentanone	108-10-1		ND	10.0	2.50
Methylene chloride	75-09-2		ND	5.00	0.250
Naphthalene	91-20-3		ND	1.00	0.200
n-Propylbenzene	103-65-1		ND	1.00	0.125
Styrene	100-42-5		ND	1.00	0.125
1,1,1,2-Tetrachloroethane	630-20-6		ND	1.00	0.250

Certificate of Analysis

Analyte	CAS #	Result	Qual	RL	MDL
1,1,1,2-Tetrachloroethane	79-34-5		ND	1.00	0.200
Tetrachloroethene	127-18-4		ND	1.00	0.250
Toluene	108-88-3		ND	1.00	0.250
1,2,3-Trichlorobenzene	87-61-6		ND	1.00	0.150
1,2,4-Trichlorobenzene	120-82-1		ND	1.00	0.200
1,1,1-Trichloroethane	71-55-6		ND	1.00	0.250
1,1,2-Trichloroethane	79-00-5		ND	1.00	0.250
Trichloroethene	79-01-6		ND	1.00	0.250
Trichlorofluoromethane	75-69-4		ND	1.00	0.250
1,2,3-Trichloropropane	96-18-4		ND	1.00	0.500
1,2,4-Trimethylbenzene	95-63-6		ND	1.00	0.250
1,3,5-Trimethylbenzene	108-67-8		ND	1.00	0.250
Vinyl acetate	108-05-4		ND	10.0	2.50
Vinyl chloride	75-01-4		ND	1.00	0.250
o-Xylene	95-47-6		ND	1.00	0.250
m-,p-Xylene	179601-23-1		ND	1.00	0.500
Surrogate	Recovery	Lower Limit	Upper Limit	Q	
Dibromofluoromethane	99.7	86	118		
1,2-Dichloroethane-d4	85.2	80	120		
Toluene-d8	102	88	110		
4-Bromofluorobenzene	101	86	115		
ND	Not detected at or above the reporting limit (RL).				

Sample #: L12070658-28

PrePrep Method: N/A

Instrument: PE-ICP2

Client ID: 35B SW-1

Prep Method: 3005A

Prep Date: 07/24/2012 06:30

Matrix: Water

Analytical Method: 6010B

Cal Date: 07/25/2012 09:07

Workgroup #: WG404492

Analyst: KHR

Run Date: 07/25/2012 19:22

Collect Date: 07/17/2012 14:30

Dilution: 1

File ID: P2.072512.192250

Sample Tag: 01

Units: mg/L

Analyte	CAS #	Result	Qual	RL	MDL
Aluminum, Total	7429-90-5	2.96		0.100	0.0500
Calcium, Total	7440-70-2	5.60		0.200	0.100
Iron, Total	7439-89-6	2.62		0.100	0.0500
Magnesium, Total	7439-95-4	1.90		0.500	0.250
Potassium, Total	7440-09-7	4.48		1.00	0.500
Sodium, Total	7440-23-5	6.15		0.500	0.250
Strontium, Total	7440-24-6	0.0738		0.0100	0.00500

Lab Report #: L12070658
 Lab Project #: 3083.001
 Project Name: Longhorn AAP
 Lab Contact: Kathy Albertson

Certificate of Analysis

Sample #: L12070658-28	PrePrep Method: N/A	Instrument: ICP-MS2
Client ID: 35B SW-1	Prep Method: 3015	Prep Date: 07/25/2012 06:34
Matrix: Water	Analytical Method: 6020	Cal Date: 07/26/2012 11:58
Workgroup #: WG404557	Analyst: JYH	Run Date: 07/26/2012 14:48
Collect Date: 07/17/2012 14:30	Dilution: 5	File ID: NI.072612.144811
Sample Tag: DL01	Units: mg/L	

Analyte	CAS #	Result	Qual	RL	MDL
Antimony, Total	7440-36-0		ND	0.00500	0.00250
Barium, Total	7440-39-3	0.0678		0.0150	0.00750
Cadmium, Total	7440-43-9		ND	0.00300	0.00150
Chromium, Total	7440-47-3		ND	0.0100	0.00500
Copper, Total	7440-50-8	0.00531	J	0.0100	0.00500
Lead, Total	7439-92-1	0.00474	J	0.00500	0.00250
Nickel, Total	7440-02-0		ND	0.0200	0.0100
Selenium, Total	7782-49-2		ND	0.00500	0.00250
Thallium, Total	7440-28-0		ND	0.00100	0.000500
Vanadium, Total	7440-62-2	0.00430	J	0.00500	0.00250
Zinc, Total	7440-66-6	0.104	J	0.125	0.0625
J	Estimated value; the analyte concentration was less than the RL/LOQ.				
ND	Not detected at or above the reporting limit (RL).				

Sample #: L12070658-28	PrePrep Method: N/A	Instrument: ICP-MS2
Client ID: 35B SW-1	Prep Method: 3015	Prep Date: 07/25/2012 06:34
Matrix: Water	Analytical Method: 6020	Cal Date: 07/27/2012 08:18
Workgroup #: WG404557	Analyst: JYH	Run Date: 07/27/2012 11:43
Collect Date: 07/17/2012 14:30	Dilution: 10	File ID: NI.072712.114319
Sample Tag: DL02	Units: mg/L	

Analyte	CAS #	Result	Qual	RL	MDL
Manganese, Total	7439-96-5	0.105		0.0200	0.0100

Sample #: L12070658-29	PrePrep Method: N/A	Instrument: HPMS8
Client ID: 35B SW-2	Prep Method: 5030B/5030C/5035A	Prep Date: N/A
Matrix: Water	Analytical Method: 8260B	Cal Date: 06/28/2012 23:13
Workgroup #: WG404914	Analyst: ADC	Run Date: 07/30/2012 18:45
Collect Date: 07/17/2012 14:45	Dilution: 1	File ID: 8M381205
Sample Tag: 02	Units: ug/L	

Analyte	CAS #	Result	Qual	RL	MDL
Acetone	67-64-1	2.94	J	10.0	2.50

Certificate of Analysis

Analyte	CAS #	Result	Qual	RL	MDL
Benzene	71-43-2		ND	1.00	0.125
Bromobenzene	108-86-1		ND	1.00	0.125
Bromochloromethane	74-97-5		ND	1.00	0.200
Bromodichloromethane	75-27-4		ND	1.00	0.250
Bromoform	75-25-2		ND	1.00	0.500
Bromomethane	74-83-9		ND	1.00	0.500
2-Butanone	78-93-3		ND	10.0	2.50
n-Butylbenzene	104-51-8		ND	1.00	0.250
sec-Butylbenzene	135-98-8		ND	1.00	0.250
tert-Butylbenzene	98-06-6		ND	1.00	0.250
Carbon disulfide	75-15-0		ND	1.00	0.500
Carbon tetrachloride	56-23-5		ND	1.00	0.250
Chlorobenzene	108-90-7		ND	1.00	0.125
Chlorodibromomethane	124-48-1		ND	1.00	0.250
Chloroethane	75-00-3		ND	1.00	0.500
2-Chloroethyl vinyl ether	110-75-8		ND	10.0	2.00
Chloroform	67-66-3		ND	1.00	0.125
Chloromethane	74-87-3		ND	1.00	0.500
2-Chlorotoluene	95-49-8		ND	1.00	0.125
4-Chlorotoluene	106-43-4		ND	1.00	0.250
1,2-Dibromo-3-chloropropane	96-12-8		ND	5.00	1.00
1,2-Dibromoethane	106-93-4		ND	1.00	0.250
Dibromomethane	74-95-3		ND	1.00	0.250
1,2-Dichlorobenzene	95-50-1		ND	1.00	0.125
1,3-Dichlorobenzene	541-73-1		ND	1.00	0.250
1,4-Dichlorobenzene	106-46-7		ND	1.00	0.125
Dichlorodifluoromethane	75-71-8		ND	1.00	0.250
1,1-Dichloroethane	75-34-3		ND	1.00	0.125
1,2-Dichloroethane	107-06-2		ND	1.00	0.250
1,1-Dichloroethene	75-35-4		ND	1.00	0.500
cis-1,2-Dichloroethene	156-59-2		ND	1.00	0.250
trans-1,2-Dichloroethene	156-60-5		ND	1.00	0.250
1,2-Dichloropropane	78-87-5		ND	1.00	0.200
1,3-Dichloropropane	142-28-9		ND	1.00	0.200
2,2-Dichloropropane	594-20-7		ND	1.00	0.250
cis-1,3-Dichloropropene	10061-01-5		ND	1.00	0.250
trans-1,3-Dichloropropene	10061-02-6		ND	1.00	0.500
1,1-Dichloropropene	563-58-6		ND	1.00	0.250
Ethylbenzene	100-41-4		ND	1.00	0.250

Certificate of Analysis

Analyte	CAS #	Result	Qual	RL	MDL
2-Hexanone	591-78-6		ND	10.0	2.50
Hexachlorobutadiene	87-68-3		ND	1.00	0.250
Isopropylbenzene	98-82-8		ND	1.00	0.250
p-Isopropyltoluene	99-87-6		ND	1.00	0.250
4-Methyl-2-pentanone	108-10-1		ND	10.0	2.50
Methylene chloride	75-09-2		ND	5.00	0.250
Naphthalene	91-20-3		ND	1.00	0.200
n-Propylbenzene	103-65-1		ND	1.00	0.125
Styrene	100-42-5		ND	1.00	0.125
1,1,1,2-Tetrachloroethane	630-20-6		ND	1.00	0.250
1,1,1,2,2-Tetrachloroethane	79-34-5		ND	1.00	0.200
Tetrachloroethene	127-18-4		ND	1.00	0.250
Toluene	108-88-3		ND	1.00	0.250
1,2,3-Trichlorobenzene	87-61-6		ND	1.00	0.150
1,2,4-Trichlorobenzene	120-82-1		ND	1.00	0.200
1,1,1-Trichloroethane	71-55-6		ND	1.00	0.250
1,1,1,2-Trichloroethane	79-00-5		ND	1.00	0.250
Trichloroethene	79-01-6		ND	1.00	0.250
Trichlorofluoromethane	75-69-4		ND	1.00	0.250
1,2,3-Trichloropropane	96-18-4		ND	1.00	0.500
1,2,4-Trimethylbenzene	95-63-6		ND	1.00	0.250
1,3,5-Trimethylbenzene	108-67-8		ND	1.00	0.250
Vinyl acetate	108-05-4		ND	10.0	2.50
Vinyl chloride	75-01-4		ND	1.00	0.250
o-Xylene	95-47-6		ND	1.00	0.250
m-,p-Xylene	179601-23-1		ND	1.00	0.500
Surrogate	Recovery	Lower Limit	Upper Limit	Q	
Dibromofluoromethane	99.4	86	118		
1,2-Dichloroethane-d4	85.5	80	120		
Toluene-d8	102	88	110		
4-Bromofluorobenzene	103	86	115		
J	Estimated value; the analyte concentration was less than the RL/LOQ.				
ND	Not detected at or above the reporting limit (RL).				

Lab Report #: L12070658
 Lab Project #: 3083.001
 Project Name: Longhorn AAP
 Lab Contact: Kathy Albertson

Certificate of Analysis

Sample #: L12070658-29	PrePrep Method: N/A	Instrument: PE-ICP2
Client ID: 35B SW-2	Prep Method: 3005A	Prep Date: 07/24/2012 06:30
Matrix: Water	Analytical Method: 6010B	Cal Date: 07/25/2012 09:07
Workgroup #: WG404492	Analyst: KHR	Run Date: 07/25/2012 19:28
Collect Date: 07/17/2012 14:45	Dilution: 1	File ID: P2.072512.192850
Sample Tag: 01	Units: mg/L	

Analyte	CAS #	Result	Qual	RL	MDL
Aluminum, Total	7429-90-5	3.68		0.100	0.0500
Calcium, Total	7440-70-2	7.36		0.200	0.100
Iron, Total	7439-89-6	4.16		0.100	0.0500
Magnesium, Total	7439-95-4	2.41		0.500	0.250
Potassium, Total	7440-09-7	4.52		1.00	0.500
Sodium, Total	7440-23-5	5.94		0.500	0.250
Strontium, Total	7440-24-6	0.0950		0.0100	0.00500

Sample #: L12070658-29	PrePrep Method: N/A	Instrument: ICP-MS2
Client ID: 35B SW-2	Prep Method: 3015	Prep Date: 07/25/2012 06:34
Matrix: Water	Analytical Method: 6020	Cal Date: 07/26/2012 11:58
Workgroup #: WG404557	Analyst: JYH	Run Date: 07/26/2012 14:57
Collect Date: 07/17/2012 14:45	Dilution: 5	File ID: NI.072612.145744
Sample Tag: DL01	Units: mg/L	

Analyte	CAS #	Result	Qual	RL	MDL
Antimony, Total	7440-36-0		ND	0.00500	0.00250
Barium, Total	7440-39-3	0.115		0.0150	0.00750
Cadmium, Total	7440-43-9		ND	0.00300	0.00150
Chromium, Total	7440-47-3		ND	0.0100	0.00500
Copper, Total	7440-50-8	0.00535	J	0.0100	0.00500
Lead, Total	7439-92-1	0.00276	J	0.00500	0.00250
Nickel, Total	7440-02-0		ND	0.0200	0.0100
Selenium, Total	7782-49-2		ND	0.00500	0.00250
Thallium, Total	7440-28-0		ND	0.00100	0.000500
Vanadium, Total	7440-62-2	0.00499	J	0.00500	0.00250
Zinc, Total	7440-66-6	0.0958	J	0.125	0.0625
J	Estimated value; the analyte concentration was less than the RL/LOQ.				
ND	Not detected at or above the reporting limit (RL).				

Certificate of Analysis

Sample #: L12070658-29	PrePrep Method: N/A	Instrument: ICP-MS2
Client ID: 35B SW-2	Prep Method: 3015	Prep Date: 07/25/2012 06:34
Matrix: Water	Analytical Method: 6020	Cal Date: 07/27/2012 08:18
Workgroup #: WG404557	Analyst: JYH	Run Date: 07/27/2012 11:52
Collect Date: 07/17/2012 14:45	Dilution: 10	File ID: NI.072712.115254
Sample Tag: DL02	Units: mg/L	

Analyte	CAS #	Result	Qual	RL	MDL
Manganese, Total	7439-96-5	0.756		0.0200	0.0100

Sample #: L12070658-30	PrePrep Method: N/A	Instrument: HPMS8
Client ID: 35B WW-11	Prep Method: 5030B/5030C/5035A	Prep Date: N/A
Matrix: Water	Analytical Method: 8260B	Cal Date: 06/28/2012 23:13
Workgroup #: WG404914	Analyst: ADC	Run Date: 07/30/2012 19:15
Collect Date: 07/17/2012 15:25	Dilution: 1	File ID: 8M381206
Sample Tag: 02	Units: ug/L	

Analyte	CAS #	Result	Qual	RL	MDL
Acetone	67-64-1		ND	10.0	2.50
Benzene	71-43-2		ND	1.00	0.125
Bromobenzene	108-86-1		ND	1.00	0.125
Bromochloromethane	74-97-5		ND	1.00	0.200
Bromodichloromethane	75-27-4		ND	1.00	0.250
Bromoform	75-25-2		ND	1.00	0.500
Bromomethane	74-83-9		ND	1.00	0.500
2-Butanone	78-93-3		ND	10.0	2.50
n-Butylbenzene	104-51-8		ND	1.00	0.250
sec-Butylbenzene	135-98-8		ND	1.00	0.250
tert-Butylbenzene	98-06-6		ND	1.00	0.250
Carbon disulfide	75-15-0		ND	1.00	0.500
Carbon tetrachloride	56-23-5		ND	1.00	0.250
Chlorobenzene	108-90-7		ND	1.00	0.125
Chlorodibromomethane	124-48-1		ND	1.00	0.250
Chloroethane	75-00-3		ND	1.00	0.500
2-Chloroethyl vinyl ether	110-75-8		ND	10.0	2.00
Chloroform	67-66-3		ND	1.00	0.125
Chloromethane	74-87-3		ND	1.00	0.500
2-Chlorotoluene	95-49-8		ND	1.00	0.125
4-Chlorotoluene	106-43-4		ND	1.00	0.250
1,2-Dibromo-3-chloropropane	96-12-8		ND	5.00	1.00
1,2-Dibromoethane	106-93-4		ND	1.00	0.250

Certificate of Analysis

Analyte	CAS #	Result	Qual	RL	MDL
Dibromomethane	74-95-3		ND	1.00	0.250
1,2-Dichlorobenzene	95-50-1		ND	1.00	0.125
1,3-Dichlorobenzene	541-73-1		ND	1.00	0.250
1,4-Dichlorobenzene	106-46-7		ND	1.00	0.125
Dichlorodifluoromethane	75-71-8		ND	1.00	0.250
1,1-Dichloroethane	75-34-3		ND	1.00	0.125
1,2-Dichloroethane	107-06-2		ND	1.00	0.250
1,1-Dichloroethene	75-35-4		ND	1.00	0.500
cis-1,2-Dichloroethene	156-59-2		ND	1.00	0.250
trans-1,2-Dichloroethene	156-60-5		ND	1.00	0.250
1,2-Dichloropropane	78-87-5		ND	1.00	0.200
1,3-Dichloropropane	142-28-9		ND	1.00	0.200
2,2-Dichloropropane	594-20-7		ND	1.00	0.250
cis-1,3-Dichloropropene	10061-01-5		ND	1.00	0.250
trans-1,3-Dichloropropene	10061-02-6		ND	1.00	0.500
1,1-Dichloropropene	563-58-6		ND	1.00	0.250
Ethylbenzene	100-41-4		ND	1.00	0.250
2-Hexanone	591-78-6		ND	10.0	2.50
Hexachlorobutadiene	87-68-3		ND	1.00	0.250
Isopropylbenzene	98-82-8		ND	1.00	0.250
p-Isopropyltoluene	99-87-6		ND	1.00	0.250
4-Methyl-2-pentanone	108-10-1		ND	10.0	2.50
Methylene chloride	75-09-2		ND	5.00	0.250
Naphthalene	91-20-3		ND	1.00	0.200
n-Propylbenzene	103-65-1		ND	1.00	0.125
Styrene	100-42-5		ND	1.00	0.125
1,1,1,2-Tetrachloroethane	630-20-6		ND	1.00	0.250
1,1,1,2-Tetrachloroethane	79-34-5		ND	1.00	0.200
Tetrachloroethene	127-18-4		ND	1.00	0.250
Toluene	108-88-3		ND	1.00	0.250
1,2,3-Trichlorobenzene	87-61-6		ND	1.00	0.150
1,2,4-Trichlorobenzene	120-82-1		ND	1.00	0.200
1,1,1-Trichloroethane	71-55-6		ND	1.00	0.250
1,1,2-Trichloroethane	79-00-5		ND	1.00	0.250
Trichloroethene	79-01-6		ND	1.00	0.250
Trichlorofluoromethane	75-69-4		ND	1.00	0.250
1,2,3-Trichloropropane	96-18-4		ND	1.00	0.500
1,2,4-Trimethylbenzene	95-63-6		ND	1.00	0.250
1,3,5-Trimethylbenzene	108-67-8		ND	1.00	0.250

Certificate of Analysis

Analyte	CAS #	Result	Qual	RL	MDL
Vinyl acetate	108-05-4		ND	10.0	2.50
Vinyl chloride	75-01-4		ND	1.00	0.250
o-Xylene	95-47-6		ND	1.00	0.250
m-,p-Xylene	179601-23-1		ND	1.00	0.500
Surrogate	Recovery	Lower Limit	Upper Limit	Q	
Dibromofluoromethane	100	86	118		
1,2-Dichloroethane-d4	87.6	80	120		
Toluene-d8	102	88	110		
4-Bromofluorobenzene	103	86	115		
ND	Not detected at or above the reporting limit (RL).				

Sample #: L12070658-30	PrePrep Method: N/A	Instrument: PE-ICP2
Client ID: 35B WW-11	Prep Method: 3005A	Prep Date: 07/24/2012 06:30
Matrix: Water	Analytical Method: 6010B	Cal Date: 07/25/2012 09:07
Workgroup #: WG404492	Analyst: KHR	Run Date: 07/25/2012 19:34
Collect Date: 07/17/2012 15:25	Dilution: 1	File ID: P2.072512.193448
Sample Tag: 01	Units: mg/L	

Analyte	CAS #	Result	Qual	RL	MDL
Aluminum, Total	7429-90-5	0.759		0.100	0.0500
Calcium, Total	7440-70-2	71.6		0.200	0.100
Iron, Total	7439-89-6	12.9		0.100	0.0500
Magnesium, Total	7439-95-4	44.9		0.500	0.250
Potassium, Total	7440-09-7	2.92		1.00	0.500
Strontium, Total	7440-24-6	2.22		0.0100	0.00500

Sample #: L12070658-30	PrePrep Method: N/A	Instrument: PE-ICP2
Client ID: 35B WW-11	Prep Method: 3005A	Prep Date: 07/24/2012 06:30
Matrix: Water	Analytical Method: 6010B	Cal Date: 07/26/2012 12:35
Workgroup #: WG404492	Analyst: KHR	Run Date: 07/26/2012 18:03
Collect Date: 07/17/2012 15:25	Dilution: 100	File ID: P2.072612.180331
Sample Tag: DL01	Units: mg/L	

Analyte	CAS #	Result	Qual	RL	MDL
Sodium, Total	7440-23-5	194		50.0	25.0

Certificate of Analysis

Sample #: L12070658-30	PrePrep Method: N/A	Instrument: ICP-MS2
Client ID: 35B WW-11	Prep Method: 3015	Prep Date: 07/25/2012 06:34
Matrix: Water	Analytical Method: 6020	Cal Date: 07/26/2012 11:58
Workgroup #: WG404557	Analyst: JYH	Run Date: 07/26/2012 15:00
Collect Date: 07/17/2012 15:25	Dilution: 5	File ID: NI.072612.150054
Sample Tag: DL01	Units: mg/L	

Analyte	CAS #	Result	Qual	RL	MDL
Antimony, Total	7440-36-0		ND	0.00500	0.00250
Barium, Total	7440-39-3	0.183		0.0150	0.00750
Cadmium, Total	7440-43-9		ND	0.00300	0.00150
Chromium, Total	7440-47-3	0.00649	J	0.0100	0.00500
Copper, Total	7440-50-8	0.00594	J	0.0100	0.00500
Lead, Total	7439-92-1		ND	0.00500	0.00250
Nickel, Total	7440-02-0	0.0306		0.0200	0.0100
Selenium, Total	7782-49-2	0.00993		0.00500	0.00250
Thallium, Total	7440-28-0		ND	0.00100	0.000500
Vanadium, Total	7440-62-2	0.00593		0.00500	0.00250
Zinc, Total	7440-66-6	0.135		0.125	0.0625
J	Estimated value; the analyte concentration was less than the RL/LOQ.				
ND	Not detected at or above the reporting limit (RL).				

Sample #: L12070658-30	PrePrep Method: N/A	Instrument: ICP-MS2
Client ID: 35B WW-11	Prep Method: 3015	Prep Date: 07/25/2012 06:34
Matrix: Water	Analytical Method: 6020	Cal Date: 07/27/2012 08:18
Workgroup #: WG404557	Analyst: JYH	Run Date: 07/27/2012 11:56
Collect Date: 07/17/2012 15:25	Dilution: 10	File ID: NI.072712.115603
Sample Tag: DL02	Units: mg/L	

Analyte	CAS #	Result	Qual	RL	MDL
Manganese, Total	7439-96-5	0.368		0.0200	0.0100

Sample #: L12070658-31	PrePrep Method: N/A	Instrument: HPMS8
Client ID: TRIP BLANK 18JULY2012	Prep Method: 5030B/5030C/5035A	Prep Date: N/A
Matrix: Water	Analytical Method: 8260B	Cal Date: 06/28/2012 23:13
Workgroup #: WG404914	Analyst: ADC	Run Date: 07/30/2012 14:45
Collect Date: 07/18/2012 00:01	Dilution: 1	File ID: 8M381197
Sample Tag: 02	Units: ug/L	

Analyte	CAS #	Result	Qual	RL	MDL
Acetone	67-64-1		ND	10.0	2.50

Certificate of Analysis

Analyte	CAS #	Result	Qual	RL	MDL
Benzene	71-43-2		ND	1.00	0.125
Bromobenzene	108-86-1		ND	1.00	0.125
Bromochloromethane	74-97-5		ND	1.00	0.200
Bromodichloromethane	75-27-4		ND	1.00	0.250
Bromoform	75-25-2		ND	1.00	0.500
Bromomethane	74-83-9		ND	1.00	0.500
2-Butanone	78-93-3		ND	10.0	2.50
n-Butylbenzene	104-51-8		ND	1.00	0.250
sec-Butylbenzene	135-98-8		ND	1.00	0.250
tert-Butylbenzene	98-06-6		ND	1.00	0.250
Carbon disulfide	75-15-0		ND	1.00	0.500
Carbon tetrachloride	56-23-5		ND	1.00	0.250
Chlorobenzene	108-90-7		ND	1.00	0.125
Chlorodibromomethane	124-48-1		ND	1.00	0.250
Chloroethane	75-00-3		ND	1.00	0.500
2-Chloroethyl vinyl ether	110-75-8		ND	10.0	2.00
Chloroform	67-66-3		ND	1.00	0.125
Chloromethane	74-87-3		ND	1.00	0.500
2-Chlorotoluene	95-49-8		ND	1.00	0.125
4-Chlorotoluene	106-43-4		ND	1.00	0.250
1,2-Dibromo-3-chloropropane	96-12-8		ND	5.00	1.00
1,2-Dibromoethane	106-93-4		ND	1.00	0.250
Dibromomethane	74-95-3		ND	1.00	0.250
1,2-Dichlorobenzene	95-50-1		ND	1.00	0.125
1,3-Dichlorobenzene	541-73-1		ND	1.00	0.250
1,4-Dichlorobenzene	106-46-7		ND	1.00	0.125
Dichlorodifluoromethane	75-71-8		ND	1.00	0.250
1,1-Dichloroethane	75-34-3		ND	1.00	0.125
1,2-Dichloroethane	107-06-2		ND	1.00	0.250
1,1-Dichloroethene	75-35-4		ND	1.00	0.500
cis-1,2-Dichloroethene	156-59-2		ND	1.00	0.250
trans-1,2-Dichloroethene	156-60-5		ND	1.00	0.250
1,2-Dichloropropane	78-87-5		ND	1.00	0.200
1,3-Dichloropropane	142-28-9		ND	1.00	0.200
2,2-Dichloropropane	594-20-7		ND	1.00	0.250
cis-1,3-Dichloropropene	10061-01-5		ND	1.00	0.250
trans-1,3-Dichloropropene	10061-02-6		ND	1.00	0.500
1,1-Dichloropropene	563-58-6		ND	1.00	0.250
Ethylbenzene	100-41-4		ND	1.00	0.250

Certificate of Analysis

Analyte	CAS #	Result	Qual	RL	MDL
2-Hexanone	591-78-6		ND	10.0	2.50
Hexachlorobutadiene	87-68-3		ND	1.00	0.250
Isopropylbenzene	98-82-8		ND	1.00	0.250
p-Isopropyltoluene	99-87-6		ND	1.00	0.250
4-Methyl-2-pentanone	108-10-1		ND	10.0	2.50
Methylene chloride	75-09-2		ND	5.00	0.250
Naphthalene	91-20-3		ND	1.00	0.200
n-Propylbenzene	103-65-1		ND	1.00	0.125
Styrene	100-42-5		ND	1.00	0.125
1,1,1,2-Tetrachloroethane	630-20-6		ND	1.00	0.250
1,1,1,2,2-Tetrachloroethane	79-34-5		ND	1.00	0.200
Tetrachloroethene	127-18-4		ND	1.00	0.250
Toluene	108-88-3		ND	1.00	0.250
1,2,3-Trichlorobenzene	87-61-6		ND	1.00	0.150
1,2,4-Trichlorobenzene	120-82-1		ND	1.00	0.200
1,1,1-Trichloroethane	71-55-6		ND	1.00	0.250
1,1,1,2-Trichloroethane	79-00-5		ND	1.00	0.250
Trichloroethene	79-01-6		ND	1.00	0.250
Trichlorofluoromethane	75-69-4		ND	1.00	0.250
1,2,3-Trichloropropane	96-18-4		ND	1.00	0.500
1,2,4-Trimethylbenzene	95-63-6		ND	1.00	0.250
1,3,5-Trimethylbenzene	108-67-8		ND	1.00	0.250
Vinyl acetate	108-05-4		ND	10.0	2.50
Vinyl chloride	75-01-4		ND	1.00	0.250
o-Xylene	95-47-6		ND	1.00	0.250
m-,p-Xylene	179601-23-1		ND	1.00	0.500
Surrogate	Recovery	Lower Limit	Upper Limit	Q	
Dibromofluoromethane	97.6	86	118		
1,2-Dichloroethane-d4	81.5	80	120		
Toluene-d8	102	88	110		
4-Bromofluorobenzene	100	86	115		
ND	Not detected at or above the reporting limit (RL).				

Sample #: L12070658-32

PrePrep Method: N/A

Instrument: HPMS8

Client ID: FIELD BLANK 18JULY2012

Prep Method: 5030B/5030C/5035A

Prep Date: N/A

Matrix: Water

Analytical Method: 8260B

Cal Date: 06/28/2012 23:13

Workgroup #: WG404914

Analyst: ADC

Run Date: 07/30/2012 19:44

Collect Date: 07/18/2012 08:30

Dilution: 1

File ID: 8M381207

Sample Tag: 02

Units: ug/L

Certificate of Analysis

Analyte	CAS #	Result	Qual	RL	MDL
Acetone	67-64-1		ND	10.0	2.50
Benzene	71-43-2		ND	1.00	0.125
Bromobenzene	108-86-1		ND	1.00	0.125
Bromochloromethane	74-97-5		ND	1.00	0.200
Bromodichloromethane	75-27-4		ND	1.00	0.250
Bromoform	75-25-2		ND	1.00	0.500
Bromomethane	74-83-9		ND	1.00	0.500
2-Butanone	78-93-3		ND	10.0	2.50
n-Butylbenzene	104-51-8		ND	1.00	0.250
sec-Butylbenzene	135-98-8		ND	1.00	0.250
tert-Butylbenzene	98-06-6		ND	1.00	0.250
Carbon disulfide	75-15-0		ND	1.00	0.500
Carbon tetrachloride	56-23-5		ND	1.00	0.250
Chlorobenzene	108-90-7		ND	1.00	0.125
Chlorodibromomethane	124-48-1		ND	1.00	0.250
Chloroethane	75-00-3		ND	1.00	0.500
2-Chloroethyl vinyl ether	110-75-8		ND	10.0	2.00
Chloroform	67-66-3		ND	1.00	0.125
Chloromethane	74-87-3		ND	1.00	0.500
2-Chlorotoluene	95-49-8		ND	1.00	0.125
4-Chlorotoluene	106-43-4		ND	1.00	0.250
1,2-Dibromo-3-chloropropane	96-12-8		ND	5.00	1.00
1,2-Dibromoethane	106-93-4		ND	1.00	0.250
Dibromomethane	74-95-3		ND	1.00	0.250
1,2-Dichlorobenzene	95-50-1		ND	1.00	0.125
1,3-Dichlorobenzene	541-73-1		ND	1.00	0.250
1,4-Dichlorobenzene	106-46-7		ND	1.00	0.125
Dichlorodifluoromethane	75-71-8		ND	1.00	0.250
1,1-Dichloroethane	75-34-3		ND	1.00	0.125
1,2-Dichloroethane	107-06-2		ND	1.00	0.250
1,1-Dichloroethene	75-35-4		ND	1.00	0.500
cis-1,2-Dichloroethene	156-59-2		ND	1.00	0.250
trans-1,2-Dichloroethene	156-60-5		ND	1.00	0.250
1,2-Dichloropropane	78-87-5		ND	1.00	0.200
1,3-Dichloropropane	142-28-9		ND	1.00	0.200
2,2-Dichloropropane	594-20-7		ND	1.00	0.250
cis-1,3-Dichloropropene	10061-01-5		ND	1.00	0.250
trans-1,3-Dichloropropene	10061-02-6		ND	1.00	0.500
1,1-Dichloropropene	563-58-6		ND	1.00	0.250

Certificate of Analysis

Analyte	CAS #	Result	Qual	RL	MDL
Ethylbenzene	100-41-4		ND	1.00	0.250
2-Hexanone	591-78-6		ND	10.0	2.50
Hexachlorobutadiene	87-68-3		ND	1.00	0.250
Isopropylbenzene	98-82-8		ND	1.00	0.250
p-Isopropyltoluene	99-87-6		ND	1.00	0.250
4-Methyl-2-pentanone	108-10-1		ND	10.0	2.50
Methylene chloride	75-09-2		ND	5.00	0.250
Naphthalene	91-20-3		ND	1.00	0.200
n-Propylbenzene	103-65-1		ND	1.00	0.125
Styrene	100-42-5		ND	1.00	0.125
1,1,1,2-Tetrachloroethane	630-20-6		ND	1.00	0.250
1,1,2,2-Tetrachloroethane	79-34-5		ND	1.00	0.200
Tetrachloroethene	127-18-4		ND	1.00	0.250
Toluene	108-88-3	0.716	J	1.00	0.250
1,2,3-Trichlorobenzene	87-61-6		ND	1.00	0.150
1,2,4-Trichlorobenzene	120-82-1		ND	1.00	0.200
1,1,1-Trichloroethane	71-55-6		ND	1.00	0.250
1,1,2-Trichloroethane	79-00-5		ND	1.00	0.250
Trichloroethene	79-01-6		ND	1.00	0.250
Trichlorofluoromethane	75-69-4		ND	1.00	0.250
1,2,3-Trichloropropane	96-18-4		ND	1.00	0.500
1,2,4-Trimethylbenzene	95-63-6		ND	1.00	0.250
1,3,5-Trimethylbenzene	108-67-8		ND	1.00	0.250
Vinyl acetate	108-05-4		ND	10.0	2.50
Vinyl chloride	75-01-4		ND	1.00	0.250
o-Xylene	95-47-6		ND	1.00	0.250
m-,p-Xylene	179601-23-1		ND	1.00	0.500
Surrogate	Recovery	Lower Limit	Upper Limit	Q	
Dibromofluoromethane	102	86	118		
1,2-Dichloroethane-d4	87.0	80	120		
Toluene-d8	102	88	110		
4-Bromofluorobenzene	102	86	115		
J	Estimated value; the analyte concentration was less than the RL/LOQ.				
ND	Not detected at or above the reporting limit (RL).				

Certificate of Analysis

Sample #: L12070658-32	PrePrep Method: N/A	Instrument: PE-ICP2
Client ID: FIELD BLANK 18JULY2012	Prep Method: 3005A	Prep Date: 07/24/2012 06:30
Matrix: Water	Analytical Method: 6010B	Cal Date: 07/25/2012 09:07
Workgroup #: WG404492	Analyst: KHR	Run Date: 07/25/2012 19:40
Collect Date: 07/18/2012 08:30	Dilution: 1	File ID: P2.072512.194051
Sample Tag: 01	Units: mg/L	

Analyte	CAS #	Result	Qual	RL	MDL
Aluminum, Total	7429-90-5		ND	0.100	0.0500
Calcium, Total	7440-70-2		ND	0.200	0.100
Iron, Total	7439-89-6		ND	0.100	0.0500
Magnesium, Total	7439-95-4		ND	0.500	0.250
Potassium, Total	7440-09-7		ND	1.00	0.500
Sodium, Total	7440-23-5		ND	0.500	0.250
Strontium, Total	7440-24-6		ND	0.0100	0.00500
ND	Not detected at or above the reporting limit (RL).				

Sample #: L12070658-32	PrePrep Method: N/A	Instrument: ICP-MS2
Client ID: FIELD BLANK 18JULY2012	Prep Method: 3015	Prep Date: 07/25/2012 06:34
Matrix: Water	Analytical Method: 6020	Cal Date: 07/27/2012 08:18
Workgroup #: WG404557	Analyst: JYH	Run Date: 07/27/2012 11:59
Collect Date: 07/18/2012 08:30	Dilution: 1	File ID: NI.072712.115914
Sample Tag: 02	Units: mg/L	

Analyte	CAS #	Result	Qual	RL	MDL
Manganese, Total	7439-96-5		ND	0.00200	0.00100
ND	Not detected at or above the reporting limit (RL).				

Sample #: L12070658-32	PrePrep Method: N/A	Instrument: ICP-MS2
Client ID: FIELD BLANK 18JULY2012	Prep Method: 3015	Prep Date: 07/25/2012 06:34
Matrix: Water	Analytical Method: 6020	Cal Date: 07/26/2012 11:58
Workgroup #: WG404557	Analyst: JYH	Run Date: 07/26/2012 15:04
Collect Date: 07/18/2012 08:30	Dilution: 1	File ID: NI.072612.150404
Sample Tag: 01	Units: mg/L	

Analyte	CAS #	Result	Qual	RL	MDL
Antimony, Total	7440-36-0		ND	0.00100	0.000500
Barium, Total	7440-39-3		ND	0.00300	0.00150
Cadmium, Total	7440-43-9		ND	0.000600	0.000300
Chromium, Total	7440-47-3		ND	0.00200	0.00100
Copper, Total	7440-50-8		ND	0.00200	0.00100

Certificate of Analysis

Analyte	CAS #	Result	Qual	RL	MDL
Lead, Total	7439-92-1		ND	0.00100	0.000500
Nickel, Total	7440-02-0		ND	0.00400	0.00200
Selenium, Total	7782-49-2		ND	0.00100	0.000500
Thallium, Total	7440-28-0		ND	0.000200	0.000100
Vanadium, Total	7440-62-2		ND	0.00100	0.000500
Zinc, Total	7440-66-6		ND	0.0250	0.0125
ND	Not detected at or above the reporting limit (RL).				

Sample #: L12070658-33

PrePrep Method: N/A

Instrument: HPMS8

Client ID: MW4-1

Prep Method: 5030B/5030C/5035A

Prep Date: N/A

Matrix: Water

Analytical Method: 8260B

Cal Date: 06/28/2012 23:13

Workgroup #: WG404914

Analyst: ADC

Run Date: 07/30/2012 20:14

Collect Date: 07/18/2012 08:45

Dilution: 1

File ID: 8M381208

Sample Tag: 02

Units: ug/L

Analyte	CAS #	Result	Qual	RL	MDL
Acetone	67-64-1		ND	10.0	2.50
Benzene	71-43-2		ND	1.00	0.125
Bromobenzene	108-86-1		ND	1.00	0.125
Bromochloromethane	74-97-5		ND	1.00	0.200
Bromodichloromethane	75-27-4		ND	1.00	0.250
Bromoform	75-25-2		ND	1.00	0.500
Bromomethane	74-83-9		ND	1.00	0.500
2-Butanone	78-93-3		ND	10.0	2.50
n-Butylbenzene	104-51-8		ND	1.00	0.250
sec-Butylbenzene	135-98-8		ND	1.00	0.250
tert-Butylbenzene	98-06-6		ND	1.00	0.250
Carbon disulfide	75-15-0		ND	1.00	0.500
Carbon tetrachloride	56-23-5		ND	1.00	0.250
Chlorobenzene	108-90-7		ND	1.00	0.125
Chlorodibromomethane	124-48-1		ND	1.00	0.250
Chloroethane	75-00-3		ND	1.00	0.500
2-Chloroethyl vinyl ether	110-75-8		ND	10.0	2.00
Chloroform	67-66-3		ND	1.00	0.125
Chloromethane	74-87-3		ND	1.00	0.500
2-Chlorotoluene	95-49-8		ND	1.00	0.125
4-Chlorotoluene	106-43-4		ND	1.00	0.250
1,2-Dibromo-3-chloropropane	96-12-8		ND	5.00	1.00
1,2-Dibromoethane	106-93-4		ND	1.00	0.250
Dibromomethane	74-95-3		ND	1.00	0.250

Certificate of Analysis

Analyte	CAS #	Result	Qual	RL	MDL
1,2-Dichlorobenzene	95-50-1		ND	1.00	0.125
1,3-Dichlorobenzene	541-73-1		ND	1.00	0.250
1,4-Dichlorobenzene	106-46-7		ND	1.00	0.125
Dichlorodifluoromethane	75-71-8		ND	1.00	0.250
1,1-Dichloroethane	75-34-3		ND	1.00	0.125
1,2-Dichloroethane	107-06-2		ND	1.00	0.250
1,1-Dichloroethene	75-35-4	0.663	J	1.00	0.500
cis-1,2-Dichloroethene	156-59-2	0.320	J	1.00	0.250
trans-1,2-Dichloroethene	156-60-5		ND	1.00	0.250
1,2-Dichloropropane	78-87-5		ND	1.00	0.200
1,3-Dichloropropane	142-28-9		ND	1.00	0.200
2,2-Dichloropropane	594-20-7		ND	1.00	0.250
cis-1,3-Dichloropropene	10061-01-5		ND	1.00	0.250
trans-1,3-Dichloropropene	10061-02-6		ND	1.00	0.500
1,1-Dichloropropene	563-58-6		ND	1.00	0.250
Ethylbenzene	100-41-4		ND	1.00	0.250
2-Hexanone	591-78-6		ND	10.0	2.50
Hexachlorobutadiene	87-68-3		ND	1.00	0.250
Isopropylbenzene	98-82-8		ND	1.00	0.250
p-Isopropyltoluene	99-87-6		ND	1.00	0.250
4-Methyl-2-pentanone	108-10-1		ND	10.0	2.50
Methylene chloride	75-09-2		ND	5.00	0.250
Naphthalene	91-20-3		ND	1.00	0.200
n-Propylbenzene	103-65-1		ND	1.00	0.125
Styrene	100-42-5		ND	1.00	0.125
1,1,1,2-Tetrachloroethane	630-20-6		ND	1.00	0.250
1,1,1,2-Tetrachloroethane	79-34-5		ND	1.00	0.200
Tetrachloroethene	127-18-4	20.1		1.00	0.250
Toluene	108-88-3		ND	1.00	0.250
1,2,3-Trichlorobenzene	87-61-6		ND	1.00	0.150
1,2,4-Trichlorobenzene	120-82-1		ND	1.00	0.200
1,1,1-Trichloroethane	71-55-6		ND	1.00	0.250
1,1,2-Trichloroethane	79-00-5		ND	1.00	0.250
Trichloroethene	79-01-6	3.63		1.00	0.250
Trichlorofluoromethane	75-69-4		ND	1.00	0.250
1,2,3-Trichloropropane	96-18-4		ND	1.00	0.500
1,2,4-Trimethylbenzene	95-63-6		ND	1.00	0.250
1,3,5-Trimethylbenzene	108-67-8		ND	1.00	0.250
Vinyl acetate	108-05-4		ND	10.0	2.50

Certificate of Analysis

Analyte	CAS #	Result	Qual	RL	MDL
Vinyl chloride	75-01-4		ND	1.00	0.250
o-Xylene	95-47-6		ND	1.00	0.250
m-,p-Xylene	179601-23-1		ND	1.00	0.500
Surrogate	Recovery	Lower Limit	Upper Limit	Q	
Dibromofluoromethane	99.9	86	118		
1,2-Dichloroethane-d4	85.8	80	120		
Toluene-d8	102	88	110		
4-Bromofluorobenzene	102	86	115		
J	Estimated value; the analyte concentration was less than the RL/LOQ.				
ND	Not detected at or above the reporting limit (RL).				

Sample #: L12070658-33	PrePrep Method: N/A	Instrument: PE-ICP2
Client ID: MW4-1	Prep Method: 3005A	Prep Date: 07/24/2012 06:30
Matrix: Water	Analytical Method: 6010B	Cal Date: 07/25/2012 09:07
Workgroup #: WG404492	Analyst: KHR	Run Date: 07/25/2012 19:47
Collect Date: 07/18/2012 08:45	Dilution: 1	File ID: P2.072512.194746
Sample Tag: 01	Units: mg/L	

Analyte	CAS #	Result	Qual	RL	MDL
Aluminum, Total	7429-90-5	3.85		0.100	0.0500
Calcium, Total	7440-70-2	57.3		0.200	0.100
Iron, Total	7439-89-6	4.87		0.100	0.0500
Magnesium, Total	7439-95-4	25.1		0.500	0.250
Potassium, Total	7440-09-7	5.67		1.00	0.500
Sodium, Total	7440-23-5	162		0.500	0.250
Strontium, Total	7440-24-6	2.09		0.0100	0.00500

Sample #: L12070658-33	PrePrep Method: N/A	Instrument: ICP-MS2
Client ID: MW4-1	Prep Method: 3015	Prep Date: 07/25/2012 06:34
Matrix: Water	Analytical Method: 6020	Cal Date: 07/26/2012 11:58
Workgroup #: WG404557	Analyst: JYH	Run Date: 07/26/2012 15:07
Collect Date: 07/18/2012 08:45	Dilution: 5	File ID: NI.072612.150714
Sample Tag: DL01	Units: mg/L	

Analyte	CAS #	Result	Qual	RL	MDL
Antimony, Total	7440-36-0		ND	0.00500	0.00250
Barium, Total	7440-39-3	0.203		0.0150	0.00750
Cadmium, Total	7440-43-9		ND	0.00300	0.00150
Chromium, Total	7440-47-3	0.0105		0.0100	0.00500
Copper, Total	7440-50-8	0.00729	J	0.0100	0.00500

Certificate of Analysis

Analyte	CAS #	Result	Qual	RL	MDL
Lead, Total	7439-92-1	0.00405	J	0.00500	0.00250
Nickel, Total	7440-02-0	0.0153	J	0.0200	0.0100
Selenium, Total	7782-49-2	0.00302	J	0.00500	0.00250
Thallium, Total	7440-28-0		ND	0.00100	0.000500
Vanadium, Total	7440-62-2	0.0125		0.00500	0.00250
Zinc, Total	7440-66-6	0.123	J	0.125	0.0625
J	Estimated value; the analyte concentration was less than the RL/LOQ.				
ND	Not detected at or above the reporting limit (RL).				

Sample #: L12070658-33 **PrePrep Method:** N/A **Instrument:** ICP-MS2
Client ID: MW4-1 **Prep Method:** 3015 **Prep Date:** 07/25/2012 06:34
Matrix: Water **Analytical Method:** 6020 **Cal Date:** 07/27/2012 08:18
Workgroup #: WG404557 **Analyst:** JYH **Run Date:** 07/27/2012 12:02
Collect Date: 07/18/2012 08:45 **Dilution:** 10 **File ID:** NI.072712.120224
Sample Tag: DL02 **Units:** mg/L

Analyte	CAS #	Result	Qual	RL	MDL
Manganese, Total	7439-96-5	0.910		0.0200	0.0100

Sample #: L12070658-34 **PrePrep Method:** N/A **Instrument:** HPMS8
Client ID: MW4-2 **Prep Method:** 5030B/5030C/5035A **Prep Date:** N/A
Matrix: Water **Analytical Method:** 8260B **Cal Date:** 06/28/2012 23:13
Workgroup #: WG404914 **Analyst:** ADC **Run Date:** 07/30/2012 20:44
Collect Date: 07/18/2012 10:45 **Dilution:** 1 **File ID:** 8M381209
Sample Tag: 02 **Units:** ug/L

Analyte	CAS #	Result	Qual	RL	MDL
Acetone	67-64-1		ND	10.0	2.50
Benzene	71-43-2		ND	1.00	0.125
Bromobenzene	108-86-1		ND	1.00	0.125
Bromochloromethane	74-97-5		ND	1.00	0.200
Bromodichloromethane	75-27-4		ND	1.00	0.250
Bromoform	75-25-2		ND	1.00	0.500
Bromomethane	74-83-9		ND	1.00	0.500
2-Butanone	78-93-3		ND	10.0	2.50
n-Butylbenzene	104-51-8		ND	1.00	0.250
sec-Butylbenzene	135-98-8		ND	1.00	0.250
tert-Butylbenzene	98-06-6		ND	1.00	0.250
Carbon disulfide	75-15-0		ND	1.00	0.500
Carbon tetrachloride	56-23-5		ND	1.00	0.250

Certificate of Analysis

Analyte	CAS #	Result	Qual	RL	MDL
Chlorobenzene	108-90-7	0.183	J	1.00	0.125
Chlorodibromomethane	124-48-1		ND	1.00	0.250
Chloroethane	75-00-3		ND	1.00	0.500
2-Chloroethyl vinyl ether	110-75-8		ND	10.0	2.00
Chloroform	67-66-3		ND	1.00	0.125
Chloromethane	74-87-3		ND	1.00	0.500
2-Chlorotoluene	95-49-8		ND	1.00	0.125
4-Chlorotoluene	106-43-4		ND	1.00	0.250
1,2-Dibromo-3-chloropropane	96-12-8		ND	5.00	1.00
1,2-Dibromoethane	106-93-4		ND	1.00	0.250
Dibromomethane	74-95-3		ND	1.00	0.250
1,2-Dichlorobenzene	95-50-1		ND	1.00	0.125
1,3-Dichlorobenzene	541-73-1		ND	1.00	0.250
1,4-Dichlorobenzene	106-46-7		ND	1.00	0.125
Dichlorodifluoromethane	75-71-8		ND	1.00	0.250
1,1-Dichloroethane	75-34-3	0.273	J	1.00	0.125
1,2-Dichloroethane	107-06-2		ND	1.00	0.250
1,1-Dichloroethene	75-35-4	1.54		1.00	0.500
cis-1,2-Dichloroethene	156-59-2	0.561	J	1.00	0.250
trans-1,2-Dichloroethene	156-60-5		ND	1.00	0.250
1,2-Dichloropropane	78-87-5		ND	1.00	0.200
1,3-Dichloropropane	142-28-9		ND	1.00	0.200
2,2-Dichloropropane	594-20-7		ND	1.00	0.250
cis-1,3-Dichloropropene	10061-01-5		ND	1.00	0.250
trans-1,3-Dichloropropene	10061-02-6		ND	1.00	0.500
1,1-Dichloropropene	563-58-6		ND	1.00	0.250
Ethylbenzene	100-41-4		ND	1.00	0.250
2-Hexanone	591-78-6		ND	10.0	2.50
Hexachlorobutadiene	87-68-3		ND	1.00	0.250
Isopropylbenzene	98-82-8		ND	1.00	0.250
p-Isopropyltoluene	99-87-6		ND	1.00	0.250
4-Methyl-2-pentanone	108-10-1		ND	10.0	2.50
Methylene chloride	75-09-2		ND	5.00	0.250
Naphthalene	91-20-3		ND	1.00	0.200
n-Propylbenzene	103-65-1		ND	1.00	0.125
Styrene	100-42-5		ND	1.00	0.125
1,1,1,2-Tetrachloroethane	630-20-6		ND	1.00	0.250
1,1,1,2,2-Tetrachloroethane	79-34-5		ND	1.00	0.200
Tetrachloroethene	127-18-4	9.60		1.00	0.250

Certificate of Analysis

Analyte	CAS #	Result	Qual	RL	MDL
Toluene	108-88-3		ND	1.00	0.250
1,2,3-Trichlorobenzene	87-61-6		ND	1.00	0.150
1,2,4-Trichlorobenzene	120-82-1		ND	1.00	0.200
1,1,1-Trichloroethane	71-55-6		ND	1.00	0.250
1,1,2-Trichloroethane	79-00-5		ND	1.00	0.250
Trichloroethene	79-01-6	4.21		1.00	0.250
Trichlorofluoromethane	75-69-4		ND	1.00	0.250
1,2,3-Trichloropropane	96-18-4		ND	1.00	0.500
1,2,4-Trimethylbenzene	95-63-6		ND	1.00	0.250
1,3,5-Trimethylbenzene	108-67-8		ND	1.00	0.250
Vinyl acetate	108-05-4		ND	10.0	2.50
Vinyl chloride	75-01-4		ND	1.00	0.250
o-Xylene	95-47-6		ND	1.00	0.250
m-,p-Xylene	179601-23-1		ND	1.00	0.500
Surrogate	Recovery	Lower Limit	Upper Limit	Q	
Dibromofluoromethane	100	86	118		
1,2-Dichloroethane-d4	88.3	80	120		
Toluene-d8	103	88	110		
4-Bromofluorobenzene	102	86	115		
J	Estimated value; the analyte concentration was less than the RL/LOQ.				
ND	Not detected at or above the reporting limit (RL).				

Sample #: L12070658-34

PrePrep Method: N/A

Instrument: PE-ICP2

Client ID: MW4-2

Prep Method: 3005A

Prep Date: 07/24/2012 06:30

Matrix: Water

Analytical Method: 6010B

Cal Date: 07/25/2012 09:07

Workgroup #: WG404492

Analyst: KHR

Run Date: 07/25/2012 20:18

Collect Date: 07/18/2012 10:45

Dilution: 1

File ID: P2.072512.201842

Sample Tag: 01

Units: mg/L

Analyte	CAS #	Result	Qual	RL	MDL
Aluminum, Total	7429-90-5	1.34		0.100	0.0500
Calcium, Total	7440-70-2	12.2		0.200	0.100
Iron, Total	7439-89-6	2.03		0.100	0.0500
Magnesium, Total	7439-95-4	6.27		0.500	0.250
Potassium, Total	7440-09-7	1.22		1.00	0.500
Sodium, Total	7440-23-5	81.6		0.500	0.250
Strontium, Total	7440-24-6	0.367		0.0100	0.00500

Lab Report #: L12070658
 Lab Project #: 3083.001
 Project Name: Longhorn AAP
 Lab Contact: Kathy Albertson

Certificate of Analysis

Sample #: L12070658-34	PrePrep Method: N/A	Instrument: ICP-MS2
Client ID: MW4-2	Prep Method: 3015	Prep Date: 07/25/2012 06:34
Matrix: Water	Analytical Method: 6020	Cal Date: 07/26/2012 11:58
Workgroup #: WG404557	Analyst: JYH	Run Date: 07/26/2012 15:10
Collect Date: 07/18/2012 10:45	Dilution: 5	File ID: NI.072612.151024
Sample Tag: DL01	Units: mg/L	

Analyte	CAS #	Result	Qual	RL	MDL
Antimony, Total	7440-36-0		ND	0.00500	0.00250
Barium, Total	7440-39-3	0.0657		0.0150	0.00750
Cadmium, Total	7440-43-9		ND	0.00300	0.00150
Chromium, Total	7440-47-3	0.00522	J	0.0100	0.00500
Copper, Total	7440-50-8		ND	0.0100	0.00500
Lead, Total	7439-92-1		ND	0.00500	0.00250
Nickel, Total	7440-02-0	0.0170	J	0.0200	0.0100
Selenium, Total	7782-49-2		ND	0.00500	0.00250
Thallium, Total	7440-28-0		ND	0.00100	0.000500
Vanadium, Total	7440-62-2	0.00426	J	0.00500	0.00250
Zinc, Total	7440-66-6		ND	0.125	0.0625
J	Estimated value; the analyte concentration was less than the RL/LOQ.				
ND	Not detected at or above the reporting limit (RL).				

Sample #: L12070658-34	PrePrep Method: N/A	Instrument: ICP-MS2
Client ID: MW4-2	Prep Method: 3015	Prep Date: 07/25/2012 06:34
Matrix: Water	Analytical Method: 6020	Cal Date: 07/27/2012 08:18
Workgroup #: WG404557	Analyst: JYH	Run Date: 07/27/2012 12:05
Collect Date: 07/18/2012 10:45	Dilution: 10	File ID: NI.072712.120534
Sample Tag: DL02	Units: mg/L	

Analyte	CAS #	Result	Qual	RL	MDL
Manganese, Total	7439-96-5	0.168		0.0200	0.0100

Sample #: L12070658-35	PrePrep Method: N/A	Instrument: HPMS8
Client ID: MW4-3	Prep Method: 5030B/5030C/5035A	Prep Date: N/A
Matrix: Water	Analytical Method: 8260B	Cal Date: 06/28/2012 23:13
Workgroup #: WG404914	Analyst: ADC	Run Date: 07/30/2012 21:14
Collect Date: 07/18/2012 13:00	Dilution: 1	File ID: 8M381210
Sample Tag: 02	Units: ug/L	

Analyte	CAS #	Result	Qual	RL	MDL
Acetone	67-64-1		ND	10.0	2.50

Certificate of Analysis

Analyte	CAS #	Result	Qual	RL	MDL
Benzene	71-43-2		ND	1.00	0.125
Bromobenzene	108-86-1		ND	1.00	0.125
Bromochloromethane	74-97-5		ND	1.00	0.200
Bromodichloromethane	75-27-4		ND	1.00	0.250
Bromoform	75-25-2		ND	1.00	0.500
Bromomethane	74-83-9		ND	1.00	0.500
2-Butanone	78-93-3		ND	10.0	2.50
n-Butylbenzene	104-51-8		ND	1.00	0.250
sec-Butylbenzene	135-98-8		ND	1.00	0.250
tert-Butylbenzene	98-06-6		ND	1.00	0.250
Carbon disulfide	75-15-0		ND	1.00	0.500
Carbon tetrachloride	56-23-5		ND	1.00	0.250
Chlorobenzene	108-90-7	0.211	J	1.00	0.125
Chlorodibromomethane	124-48-1		ND	1.00	0.250
Chloroethane	75-00-3		ND	1.00	0.500
2-Chloroethyl vinyl ether	110-75-8		ND	10.0	2.00
Chloroform	67-66-3		ND	1.00	0.125
Chloromethane	74-87-3		ND	1.00	0.500
2-Chlorotoluene	95-49-8		ND	1.00	0.125
4-Chlorotoluene	106-43-4		ND	1.00	0.250
1,2-Dibromo-3-chloropropane	96-12-8		ND	5.00	1.00
1,2-Dibromoethane	106-93-4		ND	1.00	0.250
Dibromomethane	74-95-3		ND	1.00	0.250
1,2-Dichlorobenzene	95-50-1		ND	1.00	0.125
1,3-Dichlorobenzene	541-73-1		ND	1.00	0.250
1,4-Dichlorobenzene	106-46-7		ND	1.00	0.125
Dichlorodifluoromethane	75-71-8		ND	1.00	0.250
1,1-Dichloroethane	75-34-3	1.05		1.00	0.125
1,2-Dichloroethane	107-06-2		ND	1.00	0.250
1,1-Dichloroethene	75-35-4	7.58		1.00	0.500
cis-1,2-Dichloroethene	156-59-2	1.32		1.00	0.250
trans-1,2-Dichloroethene	156-60-5		ND	1.00	0.250
1,2-Dichloropropane	78-87-5		ND	1.00	0.200
1,3-Dichloropropane	142-28-9		ND	1.00	0.200
2,2-Dichloropropane	594-20-7		ND	1.00	0.250
cis-1,3-Dichloropropene	10061-01-5		ND	1.00	0.250
trans-1,3-Dichloropropene	10061-02-6		ND	1.00	0.500
1,1-Dichloropropene	563-58-6		ND	1.00	0.250
Ethylbenzene	100-41-4		ND	1.00	0.250

Certificate of Analysis

Analyte	CAS #	Result	Qual	RL	MDL
2-Hexanone	591-78-6		ND	10.0	2.50
Hexachlorobutadiene	87-68-3		ND	1.00	0.250
Isopropylbenzene	98-82-8		ND	1.00	0.250
p-Isopropyltoluene	99-87-6		ND	1.00	0.250
4-Methyl-2-pentanone	108-10-1		ND	10.0	2.50
Methylene chloride	75-09-2		ND	5.00	0.250
Naphthalene	91-20-3		ND	1.00	0.200
n-Propylbenzene	103-65-1		ND	1.00	0.125
Styrene	100-42-5		ND	1.00	0.125
1,1,1,2-Tetrachloroethane	630-20-6		ND	1.00	0.250
1,1,1,2,2-Tetrachloroethane	79-34-5		ND	1.00	0.200
Tetrachloroethene	127-18-4	18.8		1.00	0.250
Toluene	108-88-3		ND	1.00	0.250
1,2,3-Trichlorobenzene	87-61-6		ND	1.00	0.150
1,2,4-Trichlorobenzene	120-82-1		ND	1.00	0.200
1,1,1-Trichloroethane	71-55-6		ND	1.00	0.250
1,1,1,2-Trichloroethane	79-00-5		ND	1.00	0.250
Trichloroethene	79-01-6	13.5		1.00	0.250
Trichlorofluoromethane	75-69-4		ND	1.00	0.250
1,2,3-Trichloropropane	96-18-4		ND	1.00	0.500
1,2,4-Trimethylbenzene	95-63-6		ND	1.00	0.250
1,3,5-Trimethylbenzene	108-67-8		ND	1.00	0.250
Vinyl acetate	108-05-4		ND	10.0	2.50
Vinyl chloride	75-01-4		ND	1.00	0.250
o-Xylene	95-47-6		ND	1.00	0.250
m-,p-Xylene	179601-23-1		ND	1.00	0.500
Surrogate	Recovery	Lower Limit	Upper Limit	Q	
Dibromofluoromethane	101	86	118		
1,2-Dichloroethane-d4	88.0	80	120		
Toluene-d8	101	88	110		
4-Bromofluorobenzene	101	86	115		
J	Estimated value; the analyte concentration was less than the RL/LOQ.				
ND	Not detected at or above the reporting limit (RL).				

Lab Report #: L12070658
 Lab Project #: 3083.001
 Project Name: Longhorn AAP
 Lab Contact: Kathy Albertson

Certificate of Analysis

Sample #: L12070658-35	PrePrep Method: N/A	Instrument: PE-ICP2
Client ID: MW4-3	Prep Method: 3005A	Prep Date: 07/24/2012 06:30
Matrix: Water	Analytical Method: 6010B	Cal Date: 07/25/2012 09:07
Workgroup #: WG404492	Analyst: KHR	Run Date: 07/25/2012 20:24
Collect Date: 07/18/2012 13:00	Dilution: 1	File ID: P2.072512.202442
Sample Tag: 01	Units: mg/L	

Analyte	CAS #	Result	Qual	RL	MDL
Aluminum, Total	7429-90-5	2.19		0.100	0.0500
Calcium, Total	7440-70-2	7.32		0.200	0.100
Iron, Total	7439-89-6	2.67		0.100	0.0500
Magnesium, Total	7439-95-4	2.32		0.500	0.250
Potassium, Total	7440-09-7	1.08		1.00	0.500
Sodium, Total	7440-23-5	83.6		0.500	0.250
Strontium, Total	7440-24-6	0.122		0.0100	0.00500

Sample #: L12070658-35	PrePrep Method: N/A	Instrument: ICP-MS2
Client ID: MW4-3	Prep Method: 3015	Prep Date: 07/25/2012 06:34
Matrix: Water	Analytical Method: 6020	Cal Date: 07/26/2012 11:58
Workgroup #: WG404557	Analyst: JYH	Run Date: 07/26/2012 15:13
Collect Date: 07/18/2012 13:00	Dilution: 5	File ID: NI.072612.151332
Sample Tag: DL01	Units: mg/L	

Analyte	CAS #	Result	Qual	RL	MDL
Antimony, Total	7440-36-0		ND	0.00500	0.00250
Barium, Total	7440-39-3	0.108		0.0150	0.00750
Cadmium, Total	7440-43-9		ND	0.00300	0.00150
Chromium, Total	7440-47-3		ND	0.0100	0.00500
Copper, Total	7440-50-8		ND	0.0100	0.00500
Lead, Total	7439-92-1		ND	0.00500	0.00250
Nickel, Total	7440-02-0		ND	0.0200	0.0100
Selenium, Total	7782-49-2		ND	0.00500	0.00250
Thallium, Total	7440-28-0		ND	0.00100	0.000500
Vanadium, Total	7440-62-2	0.00312	J	0.00500	0.00250
Zinc, Total	7440-66-6		ND	0.125	0.0625
J	Estimated value; the analyte concentration was less than the RL/LOQ.				
ND	Not detected at or above the reporting limit (RL).				

Certificate of Analysis

Sample #: L12070658-35	PrePrep Method: N/A	Instrument: ICP-MS2
Client ID: MW4-3	Prep Method: 3015	Prep Date: 07/25/2012 06:34
Matrix: Water	Analytical Method: 6020	Cal Date: 07/27/2012 08:18
Workgroup #: WG404557	Analyst: JYH	Run Date: 07/27/2012 12:08
Collect Date: 07/18/2012 13:00	Dilution: 10	File ID: NI.072712.120843
Sample Tag: DL02	Units: mg/L	

Analyte	CAS #	Result	Qual	RL	MDL
Manganese, Total	7439-96-5	0.216		0.0200	0.0100

Sample #: L12070658-36	PrePrep Method: N/A	Instrument: HPMS8
Client ID: 35B WW14	Prep Method: 5030B/5030C/5035A	Prep Date: N/A
Matrix: Water	Analytical Method: 8260B	Cal Date: 06/28/2012 23:13
Workgroup #: WG404914	Analyst: ADC	Run Date: 07/30/2012 21:43
Collect Date: 07/18/2012 14:25	Dilution: 1	File ID: 8M381211
Sample Tag: 02	Units: ug/L	

Analyte	CAS #	Result	Qual	RL	MDL
Acetone	67-64-1		ND	10.0	2.50
Benzene	71-43-2	0.228	J	1.00	0.125
Bromobenzene	108-86-1		ND	1.00	0.125
Bromochloromethane	74-97-5		ND	1.00	0.200
Bromodichloromethane	75-27-4		ND	1.00	0.250
Bromoform	75-25-2		ND	1.00	0.500
Bromomethane	74-83-9		ND	1.00	0.500
2-Butanone	78-93-3		ND	10.0	2.50
n-Butylbenzene	104-51-8		ND	1.00	0.250
sec-Butylbenzene	135-98-8		ND	1.00	0.250
tert-Butylbenzene	98-06-6		ND	1.00	0.250
Carbon disulfide	75-15-0		ND	1.00	0.500
Carbon tetrachloride	56-23-5		ND	1.00	0.250
Chlorobenzene	108-90-7		ND	1.00	0.125
Chlorodibromomethane	124-48-1		ND	1.00	0.250
Chloroethane	75-00-3		ND	1.00	0.500
2-Chloroethyl vinyl ether	110-75-8		ND	10.0	2.00
Chloroform	67-66-3	0.195	J	1.00	0.125
Chloromethane	74-87-3		ND	1.00	0.500
2-Chlorotoluene	95-49-8		ND	1.00	0.125
4-Chlorotoluene	106-43-4		ND	1.00	0.250
1,2-Dibromo-3-chloropropane	96-12-8		ND	5.00	1.00
1,2-Dibromoethane	106-93-4		ND	1.00	0.250

Certificate of Analysis

Analyte	CAS #	Result	Qual	RL	MDL
Dibromomethane	74-95-3		ND	1.00	0.250
1,2-Dichlorobenzene	95-50-1		ND	1.00	0.125
1,3-Dichlorobenzene	541-73-1		ND	1.00	0.250
1,4-Dichlorobenzene	106-46-7		ND	1.00	0.125
Dichlorodifluoromethane	75-71-8		ND	1.00	0.250
1,1-Dichloroethane	75-34-3	4.95		1.00	0.125
1,2-Dichloroethane	107-06-2		ND	1.00	0.250
1,1-Dichloroethene	75-35-4	52.3		1.00	0.500
cis-1,2-Dichloroethene	156-59-2	13.2		1.00	0.250
trans-1,2-Dichloroethene	156-60-5	0.381	J	1.00	0.250
1,2-Dichloropropane	78-87-5		ND	1.00	0.200
1,3-Dichloropropane	142-28-9		ND	1.00	0.200
2,2-Dichloropropane	594-20-7		ND	1.00	0.250
cis-1,3-Dichloropropene	10061-01-5		ND	1.00	0.250
trans-1,3-Dichloropropene	10061-02-6		ND	1.00	0.500
1,1-Dichloropropene	563-58-6		ND	1.00	0.250
Ethylbenzene	100-41-4		ND	1.00	0.250
2-Hexanone	591-78-6		ND	10.0	2.50
Hexachlorobutadiene	87-68-3		ND	1.00	0.250
Isopropylbenzene	98-82-8		ND	1.00	0.250
p-Isopropyltoluene	99-87-6		ND	1.00	0.250
4-Methyl-2-pentanone	108-10-1		ND	10.0	2.50
Methylene chloride	75-09-2		ND	5.00	0.250
Naphthalene	91-20-3		ND	1.00	0.200
n-Propylbenzene	103-65-1		ND	1.00	0.125
Styrene	100-42-5		ND	1.00	0.125
1,1,1,2-Tetrachloroethane	630-20-6		ND	1.00	0.250
1,1,1,2,2-Tetrachloroethane	79-34-5		ND	1.00	0.200
Tetrachloroethene	127-18-4	21.0		1.00	0.250
Toluene	108-88-3		ND	1.00	0.250
1,2,3-Trichlorobenzene	87-61-6		ND	1.00	0.150
1,2,4-Trichlorobenzene	120-82-1		ND	1.00	0.200
1,1,1-Trichloroethane	71-55-6		ND	1.00	0.250
1,1,1,2-Trichloroethane	79-00-5		ND	1.00	0.250
Trichloroethene	79-01-6	80.6		1.00	0.250
Trichlorofluoromethane	75-69-4		ND	1.00	0.250
1,2,3-Trichloropropane	96-18-4		ND	1.00	0.500
1,2,4-Trimethylbenzene	95-63-6		ND	1.00	0.250
1,3,5-Trimethylbenzene	108-67-8		ND	1.00	0.250

Certificate of Analysis

Analyte	CAS #	Result	Qual	RL	MDL
Vinyl acetate	108-05-4		ND	10.0	2.50
Vinyl chloride	75-01-4	4.02		1.00	0.250
o-Xylene	95-47-6		ND	1.00	0.250
m-,p-Xylene	179601-23-1		ND	1.00	0.500
Surrogate	Recovery	Lower Limit	Upper Limit	Q	
Dibromofluoromethane	100	86	118		
1,2-Dichloroethane-d4	86.1	80	120		
Toluene-d8	103	88	110		
4-Bromofluorobenzene	103	86	115		
J	Estimated value; the analyte concentration was less than the RL/LOQ.				
ND	Not detected at or above the reporting limit (RL).				

Sample #: L12070658-36	PrePrep Method: N/A	Instrument: PE-ICP2
Client ID: 35B WW14	Prep Method: 3005A	Prep Date: 07/24/2012 06:30
Matrix: Water	Analytical Method: 6010B	Cal Date: 07/25/2012 09:07
Workgroup #: WG404492	Analyst: KHR	Run Date: 07/25/2012 20:30
Collect Date: 07/18/2012 14:25	Dilution: 1	File ID: P2.072512.203042
Sample Tag: 01	Units: mg/L	

Analyte	CAS #	Result	Qual	RL	MDL
Aluminum, Total	7429-90-5		ND	0.100	0.0500
Calcium, Total	7440-70-2	16.1		0.200	0.100
Iron, Total	7439-89-6	0.166		0.100	0.0500
Magnesium, Total	7439-95-4	7.97		0.500	0.250
Potassium, Total	7440-09-7	1.19		1.00	0.500
Sodium, Total	7440-23-5	96.9		0.500	0.250
Strontium, Total	7440-24-6	0.548		0.0100	0.00500
ND	Not detected at or above the reporting limit (RL).				

Sample #: L12070658-36	PrePrep Method: N/A	Instrument: ICP-MS2
Client ID: 35B WW14	Prep Method: 3015	Prep Date: 07/25/2012 06:34
Matrix: Water	Analytical Method: 6020	Cal Date: 07/26/2012 11:58
Workgroup #: WG404557	Analyst: JYH	Run Date: 07/26/2012 15:16
Collect Date: 07/18/2012 14:25	Dilution: 5	File ID: NI.072612.151643
Sample Tag: DL01	Units: mg/L	

Analyte	CAS #	Result	Qual	RL	MDL
Antimony, Total	7440-36-0		ND	0.00500	0.00250
Barium, Total	7440-39-3	0.0555		0.0150	0.00750
Cadmium, Total	7440-43-9		ND	0.00300	0.00150

Certificate of Analysis

Analyte	CAS #	Result	Qual	RL	MDL
Chromium, Total	7440-47-3		ND	0.0100	0.00500
Copper, Total	7440-50-8		ND	0.0100	0.00500
Lead, Total	7439-92-1		ND	0.00500	0.00250
Nickel, Total	7440-02-0		ND	0.0200	0.0100
Selenium, Total	7782-49-2		ND	0.00500	0.00250
Thallium, Total	7440-28-0		ND	0.00100	0.000500
Vanadium, Total	7440-62-2		ND	0.00500	0.00250
Zinc, Total	7440-66-6		ND	0.125	0.0625
ND	Not detected at or above the reporting limit (RL).				

Sample #: L12070658-36	PrePrep Method: N/A	Instrument: ICP-MS2
Client ID: 35B WW14	Prep Method: 3015	Prep Date: 07/25/2012 06:34
Matrix: Water	Analytical Method: 6020	Cal Date: 07/27/2012 08:18
Workgroup #: WG404557	Analyst: JYH	Run Date: 07/27/2012 12:11
Collect Date: 07/18/2012 14:25	Dilution: 10	File ID: NI.072712.121152
Sample Tag: DL02	Units: mg/L	

Analyte	CAS #	Result	Qual	RL	MDL
Manganese, Total	7439-96-5	0.0636		0.0200	0.0100

Sample #: L12070658-37	PrePrep Method: N/A	Instrument: HPMS8
Client ID: 35B WW07	Prep Method: 5030B/5030C/5035A	Prep Date: N/A
Matrix: Water	Analytical Method: 8260B	Cal Date: 06/28/2012 23:13
Workgroup #: WG404914	Analyst: ADC	Run Date: 07/30/2012 22:14
Collect Date: 07/18/2012 15:40	Dilution: 1	File ID: 8M381212
Sample Tag: 02	Units: ug/L	

Analyte	CAS #	Result	Qual	RL	MDL
Acetone	67-64-1		ND	10.0	2.50
Benzene	71-43-2		ND	1.00	0.125
Bromobenzene	108-86-1		ND	1.00	0.125
Bromochloromethane	74-97-5		ND	1.00	0.200
Bromodichloromethane	75-27-4		ND	1.00	0.250
Bromoform	75-25-2		ND	1.00	0.500
Bromomethane	74-83-9		ND	1.00	0.500
2-Butanone	78-93-3		ND	10.0	2.50
n-Butylbenzene	104-51-8		ND	1.00	0.250
sec-Butylbenzene	135-98-8		ND	1.00	0.250
tert-Butylbenzene	98-06-6		ND	1.00	0.250
Carbon disulfide	75-15-0		ND	1.00	0.500

Certificate of Analysis

Analyte	CAS #	Result	Qual	RL	MDL
Carbon tetrachloride	56-23-5		ND	1.00	0.250
Chlorobenzene	108-90-7		ND	1.00	0.125
Chlorodibromomethane	124-48-1		ND	1.00	0.250
Chloroethane	75-00-3		ND	1.00	0.500
2-Chloroethyl vinyl ether	110-75-8		ND	10.0	2.00
Chloroform	67-66-3		ND	1.00	0.125
Chloromethane	74-87-3		ND	1.00	0.500
2-Chlorotoluene	95-49-8		ND	1.00	0.125
4-Chlorotoluene	106-43-4		ND	1.00	0.250
1,2-Dibromo-3-chloropropane	96-12-8		ND	5.00	1.00
1,2-Dibromoethane	106-93-4		ND	1.00	0.250
Dibromomethane	74-95-3		ND	1.00	0.250
1,2-Dichlorobenzene	95-50-1		ND	1.00	0.125
1,3-Dichlorobenzene	541-73-1		ND	1.00	0.250
1,4-Dichlorobenzene	106-46-7		ND	1.00	0.125
Dichlorodifluoromethane	75-71-8		ND	1.00	0.250
1,1-Dichloroethane	75-34-3		ND	1.00	0.125
1,2-Dichloroethane	107-06-2		ND	1.00	0.250
1,1-Dichloroethene	75-35-4		ND	1.00	0.500
cis-1,2-Dichloroethene	156-59-2		ND	1.00	0.250
trans-1,2-Dichloroethene	156-60-5		ND	1.00	0.250
1,2-Dichloropropane	78-87-5		ND	1.00	0.200
1,3-Dichloropropane	142-28-9		ND	1.00	0.200
2,2-Dichloropropane	594-20-7		ND	1.00	0.250
cis-1,3-Dichloropropene	10061-01-5		ND	1.00	0.250
trans-1,3-Dichloropropene	10061-02-6		ND	1.00	0.500
1,1-Dichloropropene	563-58-6		ND	1.00	0.250
Ethylbenzene	100-41-4		ND	1.00	0.250
2-Hexanone	591-78-6		ND	10.0	2.50
Hexachlorobutadiene	87-68-3		ND	1.00	0.250
Isopropylbenzene	98-82-8		ND	1.00	0.250
p-Isopropyltoluene	99-87-6		ND	1.00	0.250
4-Methyl-2-pentanone	108-10-1		ND	10.0	2.50
Methylene chloride	75-09-2		ND	5.00	0.250
Naphthalene	91-20-3		ND	1.00	0.200
n-Propylbenzene	103-65-1		ND	1.00	0.125
Styrene	100-42-5		ND	1.00	0.125
1,1,1,2-Tetrachloroethane	630-20-6		ND	1.00	0.250
1,1,2,2-Tetrachloroethane	79-34-5		ND	1.00	0.200

Certificate of Analysis

Analyte	CAS #	Result	Qual	RL	MDL
Tetrachloroethene	127-18-4		ND	1.00	0.250
Toluene	108-88-3		ND	1.00	0.250
1,2,3-Trichlorobenzene	87-61-6		ND	1.00	0.150
1,2,4-Trichlorobenzene	120-82-1		ND	1.00	0.200
1,1,1-Trichloroethane	71-55-6		ND	1.00	0.250
1,1,2-Trichloroethane	79-00-5		ND	1.00	0.250
Trichloroethene	79-01-6		ND	1.00	0.250
Trichlorofluoromethane	75-69-4		ND	1.00	0.250
1,2,3-Trichloropropane	96-18-4		ND	1.00	0.500
1,2,4-Trimethylbenzene	95-63-6		ND	1.00	0.250
1,3,5-Trimethylbenzene	108-67-8		ND	1.00	0.250
Vinyl acetate	108-05-4		ND	10.0	2.50
Vinyl chloride	75-01-4		ND	1.00	0.250
o-Xylene	95-47-6		ND	1.00	0.250
m-,p-Xylene	179601-23-1		ND	1.00	0.500
Surrogate	Recovery	Lower Limit	Upper Limit	Q	
Dibromofluoromethane	99.3	86	118		
1,2-Dichloroethane-d4	87.5	80	120		
Toluene-d8	103	88	110		
4-Bromofluorobenzene	102	86	115		
ND	Not detected at or above the reporting limit (RL).				

Sample #: L12070658-37

PrePrep Method: N/A

Instrument: PE-ICP2

Client ID: 35B WW07

Prep Method: 3005A

Prep Date: 07/24/2012 06:30

Matrix: Water

Analytical Method: 6010B

Cal Date: 07/25/2012 09:07

Workgroup #: WG404492

Analyst: KHR

Run Date: 07/25/2012 20:48

Collect Date: 07/18/2012 15:40

Dilution: 1

File ID: P2.072512.204843

Sample Tag: 01

Units: mg/L

Analyte	CAS #	Result	Qual	RL	MDL
Aluminum, Total	7429-90-5	15.7		0.100	0.0500
Calcium, Total	7440-70-2	45.9		0.200	0.100
Iron, Total	7439-89-6	16.1		0.100	0.0500
Magnesium, Total	7439-95-4	28.1		0.500	0.250
Potassium, Total	7440-09-7	3.87		1.00	0.500
Sodium, Total	7440-23-5	133		0.500	0.250
Strontium, Total	7440-24-6	1.09		0.0100	0.00500

Lab Report #: L12070658
 Lab Project #: 3083.001
 Project Name: Longhorn AAP
 Lab Contact: Kathy Albertson

Certificate of Analysis

Sample #: L12070658-37	PrePrep Method: N/A	Instrument: ICP-MS2
Client ID: 35B WW07	Prep Method: 3015	Prep Date: 07/25/2012 06:34
Matrix: Water	Analytical Method: 6020	Cal Date: 07/26/2012 11:58
Workgroup #: WG404557	Analyst: JYH	Run Date: 07/26/2012 15:19
Collect Date: 07/18/2012 15:40	Dilution: 5	File ID: NI.072612.151953
Sample Tag: DL01	Units: mg/L	

Analyte	CAS #	Result	Qual	RL	MDL
Antimony, Total	7440-36-0		ND	0.00500	0.00250
Barium, Total	7440-39-3	0.299		0.0150	0.00750
Cadmium, Total	7440-43-9	0.00190	J	0.00300	0.00150
Chromium, Total	7440-47-3	0.0244		0.0100	0.00500
Copper, Total	7440-50-8	0.0183		0.0100	0.00500
Lead, Total	7439-92-1	0.00896		0.00500	0.00250
Nickel, Total	7440-02-0	0.0338		0.0200	0.0100
Selenium, Total	7782-49-2	0.00848		0.00500	0.00250
Thallium, Total	7440-28-0		ND	0.00100	0.000500
Vanadium, Total	7440-62-2	0.0296		0.00500	0.00250
Zinc, Total	7440-66-6	0.183		0.125	0.0625
J	Estimated value; the analyte concentration was less than the RL/LOQ.				
ND	Not detected at or above the reporting limit (RL).				

Sample #: L12070658-37	PrePrep Method: N/A	Instrument: ICP-MS2
Client ID: 35B WW07	Prep Method: 3015	Prep Date: 07/25/2012 06:34
Matrix: Water	Analytical Method: 6020	Cal Date: 07/27/2012 08:18
Workgroup #: WG404557	Analyst: JYH	Run Date: 07/27/2012 12:15
Collect Date: 07/18/2012 15:40	Dilution: 10	File ID: NI.072712.121501
Sample Tag: DL02	Units: mg/L	

Analyte	CAS #	Result	Qual	RL	MDL
Manganese, Total	7439-96-5	0.245		0.0200	0.0100

2.0 Full Sample Data Package

2.1 Volatiles Data

2.1.1 Volatiles GCMS Data (8260)

2.1.1.1 Summary Data



Login Number: L12070658
Department: Volatiles
Analyst: Anthony Canter

METHOD

Preparation SW-846 5030C/5035A

Analysis SW-846 8260B

HOLDING TIMES

Sample Preparation: All holding times were met.

Sample Analysis: All holding times were met.

PREPARATION

Sample preparation proceeded normally.

CALIBRATION

Initial Calibration: For all compounds that yielded a %RSD greater than 15%, linear or higher order equations were applied. All acceptance criteria were met.

Alternate Source Standards: The percent difference was out of range for the following analytes: Dichlorodifluoromethane, Vinyl Acetate, 2-Chloroethyl Vinyl Ether. Please see the applicable QC report for a detailed presentation of the failures.

Continuing Calibration and Tune: Recoveries out of range were observed for the following analytes: 2-Chloroethyl Vinyl Ether. Please see the applicable QC report for a detailed presentation of the failures.

BATCH QA/QC

Method Blank: Analytes were detected above the applicable reporting limit for the following analytes: Dibromofluoromethane. Please see the applicable QC report for a detailed presentation of the failures.

Laboratory Control Sample: Recoveries out of range were observed for the following analytes: 1,1,2,2-Tetrachloroethane, Chloromethane, Dichlorodifluoromethane, 2,2-Dichloropropane, trans-1,3-Dichloropropene, 2-Chloroethyl Vinyl Ether, Acetone, Hexachlorobutadiene, Isopropylbenzene, n-Butylbenzene, sec-Butylbenzene. Please see the applicable QC report for a detailed presentation of the failures.

Matrix Spikes: Recoveries out of range were observed for the following analytes: n-Butylbenzene, 2-Chloroethyl vinyl ether, Isopropylbenzene, Tetrachloroethene. Please see the applicable QC report for a detailed presentation of the failures.

SAMPLES

Internal Standards: QC sample WG404130-04 that yielded an IS outlier for 1,4-dichlorobenzene-d4 was a 624 method blank and was not applicable to this SDG, therefore, corrective action not performed.

Surrogates: Recoveries out of range were observed for the following analytes: Dibromofluoromethane, 4-Bromofluorobenzene. Please see the applicable QC report for a detailed presentation of the failures.

Other: None.

Manual Integration Reason Codes

Reason #1: Data System Fails to Select Correct Peak. In some cases the chromatography system selects and integrates the 'wrong peak'. In this case the analyst must correct the selection and force the system to integrate the proper peak. Other times the system may miss the peak completely.

Reason #2: Data System Splits the Peak Incorrectly or Integrates a False Peak as a Rider Peak. This phenomena is common at low concentrations where the signal:noise ratio is low. A single compound (peak) is incorrectly split into multiple peaks or integrated as a main peak with one or more rider peaks resulting in low area

counts for the target compound.

Reason #3: Improperly Integrated Isomers and/or coeluting compounds. This system often fails to distinguish coeluting compounds and or isomers. The integration areas and concentrations are wrong, and they must be corrected by manual integration. Prime examples are benzo(k)fluoranthene and benzo(b)fluoranthene which are often unresolved and integrated improperly when both are present at low concentrations in standards or samples.

Reason #4: System Establishes Incorrect Baseline. There are numerous situations in chromatography where the system establishes the baseline incorrectly. Some baseline errors will be obvious to the analyst and should be corrected via manual procedures.

Reason #5: Miscellaneous. Other situations involving integration errors may require in-depth review and technical judgment. These cases should be brought to the attention of the laboratory management. If the form of manual integration is not clearly covered by these four cases, then review and approval by the Managing Director or the QAO will be required.

I certify that this data package is in compliance with the terms and conditions agreed to by the client and Microbac Laboratories Inc., both technically and for completeness, except for the conditions noted above. Release of the data contained in this hard copy data package has been authorized by the Laboratory Manager or designated person, as verified by the following signature.

Narrative ID: 51048

Approved By: Michael Albertson



Certificate of Analysis

Sample #: L12070658-01

PrePrep Method: N/A

Instrument: HPMS11

Client ID: MW-3-1

Prep Method: 5030B/5030C/5035A

Prep Date: N/A

Matrix: Water

Analytical Method: 8260B

Cal Date: 05/03/2012 21:37

Workgroup #: WG404020

Analyst: FJB

Run Date: 07/20/2012 23:13

Collect Date: 07/15/2012 10:15

Dilution: 1

File ID: 11M85456

Sample Tag: 01

Units: ug/L

Analyte	CAS #	Result	Qual	RL	MDL
Acetone	67-64-1		ND	10.0	2.50
Benzene	71-43-2		ND	1.00	0.125
Bromobenzene	108-86-1		ND	1.00	0.125
Bromochloromethane	74-97-5		ND	1.00	0.200
Bromodichloromethane	75-27-4		ND	1.00	0.250
Bromoform	75-25-2		ND	1.00	0.500
Bromomethane	74-83-9		ND	1.00	0.500
2-Butanone	78-93-3		ND	10.0	2.50
n-Butylbenzene	104-51-8		ND	1.00	0.250
sec-Butylbenzene	135-98-8		ND	1.00	0.250
tert-Butylbenzene	98-06-6		ND	1.00	0.250
Carbon disulfide	75-15-0	0.846	J	1.00	0.500
Carbon tetrachloride	56-23-5		ND	1.00	0.250
Chlorobenzene	108-90-7		ND	1.00	0.125
Chlorodibromomethane	124-48-1		ND	1.00	0.250
Chloroethane	75-00-3		ND	1.00	0.500
2-Chloroethyl vinyl ether	110-75-8		ND	10.0	2.00
Chloroform	67-66-3		ND	1.00	0.125
Chloromethane	74-87-3		ND	1.00	0.500
2-Chlorotoluene	95-49-8		ND	1.00	0.125
4-Chlorotoluene	106-43-4		ND	1.00	0.250
1,2-Dibromo-3-chloropropane	96-12-8		ND	5.00	1.00
1,2-Dibromoethane	106-93-4		ND	1.00	0.250
Dibromomethane	74-95-3		ND	1.00	0.250
1,2-Dichlorobenzene	95-50-1		ND	1.00	0.125
1,3-Dichlorobenzene	541-73-1		ND	1.00	0.250
1,4-Dichlorobenzene	106-46-7		ND	1.00	0.125
Dichlorodifluoromethane	75-71-8		ND	1.00	0.250
1,1-Dichloroethane	75-34-3		ND	1.00	0.125
1,2-Dichloroethane	107-06-2		ND	1.00	0.250
1,1-Dichloroethene	75-35-4		ND	1.00	0.500
cis-1,2-Dichloroethene	156-59-2		ND	1.00	0.250
trans-1,2-Dichloroethene	156-60-5		ND	1.00	0.250

Certificate of Analysis

Analyte	CAS #	Result	Qual	RL	MDL
1,2-Dichloropropane	78-87-5		ND	1.00	0.200
1,3-Dichloropropane	142-28-9		ND	1.00	0.200
2,2-Dichloropropane	594-20-7		ND	1.00	0.250
cis-1,3-Dichloropropene	10061-01-5		ND	1.00	0.250
trans-1,3-Dichloropropene	10061-02-6		ND	1.00	0.500
1,1-Dichloropropene	563-58-6		ND	1.00	0.250
Ethylbenzene	100-41-4		ND	1.00	0.250
2-Hexanone	591-78-6		ND	10.0	2.50
Hexachlorobutadiene	87-68-3		ND	1.00	0.250
Isopropylbenzene	98-82-8		ND	1.00	0.250
p-Isopropyltoluene	99-87-6	3.90		1.00	0.250
4-Methyl-2-pentanone	108-10-1		ND	10.0	2.50
Methylene chloride	75-09-2		ND	5.00	0.250
Naphthalene	91-20-3		ND	1.00	0.200
n-Propylbenzene	103-65-1	0.240	J	1.00	0.125
Styrene	100-42-5		ND	1.00	0.125
1,1,1,2-Tetrachloroethane	630-20-6		ND	1.00	0.250
1,1,1,2-Tetrachloroethane	79-34-5		ND	1.00	0.200
Tetrachloroethene	127-18-4	30.1		1.00	0.250
Toluene	108-88-3		ND	1.00	0.250
1,2,3-Trichlorobenzene	87-61-6		ND	1.00	0.150
1,2,4-Trichlorobenzene	120-82-1		ND	1.00	0.200
1,1,1-Trichloroethane	71-55-6		ND	1.00	0.250
1,1,2-Trichloroethane	79-00-5		ND	1.00	0.250
Trichloroethene	79-01-6	2.42		1.00	0.250
Trichlorofluoromethane	75-69-4		ND	1.00	0.250
1,2,3-Trichloropropane	96-18-4		ND	1.00	0.500
1,2,4-Trimethylbenzene	95-63-6		ND	1.00	0.250
1,3,5-Trimethylbenzene	108-67-8		ND	1.00	0.250
Vinyl acetate	108-05-4		ND	10.0	2.50
Vinyl chloride	75-01-4		ND	1.00	0.250
o-Xylene	95-47-6		ND	1.00	0.250
m-,p-Xylene	179601-23-1		ND	1.00	0.500
Surrogate	Recovery	Lower Limit	Upper Limit	Q	
Dibromofluoromethane	85.3	86	118	*	
1,2-Dichloroethane-d4	85.4	80	120		
Toluene-d8	104	88	110		
4-Bromofluorobenzene	113	86	115		
*	Surrogate or spike compound out of range				

Certificate of Analysis

J	Estimated value; the analyte concentration was less than the RL/LOQ.
ND	Not detected at or above the reporting limit (RL).

Sample #: L12070658-02	PrePrep Method: N/A	Instrument: HPMS8
Client ID: MW-3-2	Prep Method: 5030B/5030C/5035A	Prep Date: N/A
Matrix: Water	Analytical Method: 8260B	Cal Date: 06/28/2012 23:13
Workgroup #: WG404417	Analyst: ADC	Run Date: 07/25/2012 17:35
Collect Date: 07/15/2012 10:38	Dilution: 1	File ID: 8M381052
Sample Tag: 01	Units: ug/L	

Analyte	CAS #	Result	Qual	RL	MDL
Acetone	67-64-1		ND	10.0	2.50
Benzene	71-43-2		ND	1.00	0.125
Bromobenzene	108-86-1		ND	1.00	0.125
Bromochloromethane	74-97-5		ND	1.00	0.200
Bromodichloromethane	75-27-4		ND	1.00	0.250
Bromoform	75-25-2		ND	1.00	0.500
Bromomethane	74-83-9		ND	1.00	0.500
2-Butanone	78-93-3		ND	10.0	2.50
n-Butylbenzene	104-51-8		ND	1.00	0.250
sec-Butylbenzene	135-98-8		ND	1.00	0.250
tert-Butylbenzene	98-06-6		ND	1.00	0.250
Carbon disulfide	75-15-0		ND	1.00	0.500
Carbon tetrachloride	56-23-5		ND	1.00	0.250
Chlorobenzene	108-90-7		ND	1.00	0.125
Chlorodibromomethane	124-48-1		ND	1.00	0.250
Chloroethane	75-00-3		ND	1.00	0.500
2-Chloroethyl vinyl ether	110-75-8		ND	10.0	2.00
Chloroform	67-66-3		ND	1.00	0.125
Chloromethane	74-87-3		ND	1.00	0.500
2-Chlorotoluene	95-49-8		ND	1.00	0.125
4-Chlorotoluene	106-43-4		ND	1.00	0.250
1,2-Dibromo-3-chloropropane	96-12-8		ND	5.00	1.00
1,2-Dibromoethane	106-93-4		ND	1.00	0.250
Dibromomethane	74-95-3		ND	1.00	0.250
1,2-Dichlorobenzene	95-50-1		ND	1.00	0.125
1,3-Dichlorobenzene	541-73-1		ND	1.00	0.250
1,4-Dichlorobenzene	106-46-7		ND	1.00	0.125
Dichlorodifluoromethane	75-71-8		ND	1.00	0.250
1,1-Dichloroethane	75-34-3	0.246	J	1.00	0.125
1,2-Dichloroethane	107-06-2		ND	1.00	0.250

Certificate of Analysis

Analyte	CAS #	Result	Qual	RL	MDL
1,1-Dichloroethene	75-35-4	1.01		1.00	0.500
cis-1,2-Dichloroethene	156-59-2	0.271	J	1.00	0.250
trans-1,2-Dichloroethene	156-60-5		ND	1.00	0.250
1,2-Dichloropropane	78-87-5		ND	1.00	0.200
1,3-Dichloropropane	142-28-9		ND	1.00	0.200
2,2-Dichloropropane	594-20-7		ND	1.00	0.250
cis-1,3-Dichloropropene	10061-01-5		ND	1.00	0.250
trans-1,3-Dichloropropene	10061-02-6		ND	1.00	0.500
1,1-Dichloropropene	563-58-6		ND	1.00	0.250
Ethylbenzene	100-41-4		ND	1.00	0.250
2-Hexanone	591-78-6		ND	10.0	2.50
Hexachlorobutadiene	87-68-3		ND	1.00	0.250
Isopropylbenzene	98-82-8		ND	1.00	0.250
p-Isopropyltoluene	99-87-6		ND	1.00	0.250
4-Methyl-2-pentanone	108-10-1		ND	10.0	2.50
Methylene chloride	75-09-2		ND	5.00	0.250
Naphthalene	91-20-3		ND	1.00	0.200
n-Propylbenzene	103-65-1		ND	1.00	0.125
Styrene	100-42-5		ND	1.00	0.125
1,1,1,2-Tetrachloroethane	630-20-6		ND	1.00	0.250
1,1,2,2-Tetrachloroethane	79-34-5		ND	1.00	0.200
Tetrachloroethene	127-18-4	41.8		1.00	0.250
Toluene	108-88-3	0.290	J	1.00	0.250
1,2,3-Trichlorobenzene	87-61-6		ND	1.00	0.150
1,2,4-Trichlorobenzene	120-82-1		ND	1.00	0.200
1,1,1-Trichloroethane	71-55-6		ND	1.00	0.250
1,1,2-Trichloroethane	79-00-5		ND	1.00	0.250
Trichloroethene	79-01-6	3.07		1.00	0.250
Trichlorofluoromethane	75-69-4		ND	1.00	0.250
1,2,3-Trichloropropane	96-18-4		ND	1.00	0.500
1,2,4-Trimethylbenzene	95-63-6		ND	1.00	0.250
1,3,5-Trimethylbenzene	108-67-8		ND	1.00	0.250
Vinyl acetate	108-05-4		ND	10.0	2.50
Vinyl chloride	75-01-4		ND	1.00	0.250
o-Xylene	95-47-6		ND	1.00	0.250
m-,p-Xylene	179601-23-1		ND	1.00	0.500
Surrogate	Recovery	Lower Limit	Upper Limit	Q	
Dibromofluoromethane	96.7	86	118		
1,2-Dichloroethane-d4	82.4	80	120		

Certificate of Analysis

Toluene-d8	97.3	88	110	
4-Bromofluorobenzene	101	86	115	
J	Estimated value; the analyte concentration was less than the RL/LOQ.			
ND	Not detected at or above the reporting limit (RL).			

Sample #: L12070658-03	PrePrep Method: N/A	Instrument: HPMS8
Client ID: MW-3-2MS	Prep Method: 5030B/5030C/5035A	Prep Date: N/A
Matrix: Water	Analytical Method: 8260B	Cal Date: 06/28/2012 23:13
Workgroup #: WG404417	Analyst: ADC	Run Date: 07/25/2012 13:04
Collect Date: 07/15/2012 12:20	Dilution: 1	File ID: 8M381043
Sample Tag: 01	Units: ug/L	

Analyte	CAS #	Result	Qual	RL	MDL
Acetone	67-64-1	18.6		10.0	2.50
Benzene	71-43-2	20.0		1.00	0.125
Bromobenzene	108-86-1	19.4		1.00	0.125
Bromochloromethane	74-97-5	21.4		1.00	0.200
Bromodichloromethane	75-27-4	19.4		1.00	0.250
Bromoform	75-25-2	19.5		1.00	0.500
Bromomethane	74-83-9	19.8		1.00	0.500
2-Butanone	78-93-3	17.8		10.0	2.50
n-Butylbenzene	104-51-8	15.8		1.00	0.250
sec-Butylbenzene	135-98-8	16.2		1.00	0.250
tert-Butylbenzene	98-06-6	16.3		1.00	0.250
Carbon disulfide	75-15-0	21.3		1.00	0.500
Carbon tetrachloride	56-23-5	18.9		1.00	0.250
Chlorobenzene	108-90-7	18.7		1.00	0.125
Chlorodibromomethane	124-48-1	19.6		1.00	0.250
Chloroethane	75-00-3	18.7		1.00	0.500
2-Chloroethyl vinyl ether	110-75-8		ND	10.0	2.00
Chloroform	67-66-3	19.0		1.00	0.125
Chloromethane	74-87-3	14.5		1.00	0.500
2-Chlorotoluene	95-49-8	18.4		1.00	0.125
4-Chlorotoluene	106-43-4	17.3		1.00	0.250
1,2-Dibromo-3-chloropropane	96-12-8	18.1		5.00	1.00
1,2-Dibromoethane	106-93-4	20.6		1.00	0.250
Dibromomethane	74-95-3	19.9		1.00	0.250
1,2-Dichlorobenzene	95-50-1	18.1		1.00	0.125
1,3-Dichlorobenzene	541-73-1	18.1		1.00	0.250
1,4-Dichlorobenzene	106-46-7	17.3		1.00	0.125
Dichlorodifluoromethane	75-71-8	22.1		1.00	0.250

Certificate of Analysis

Analyte	CAS #	Result	Qual	RL	MDL
1,1-Dichloroethane	75-34-3	19.8		1.00	0.125
1,2-Dichloroethane	107-06-2	17.0		1.00	0.250
1,1-Dichloroethene	75-35-4	19.8		1.00	0.500
cis-1,2-Dichloroethene	156-59-2	21.3		1.00	0.250
trans-1,2-Dichloroethene	156-60-5	19.2		1.00	0.250
1,2-Dichloropropane	78-87-5	19.5		1.00	0.200
1,3-Dichloropropane	142-28-9	19.9		1.00	0.200
2,2-Dichloropropane	594-20-7	18.7		1.00	0.250
cis-1,3-Dichloropropene	10061-01-5	21.1		1.00	0.250
trans-1,3-Dichloropropene	10061-02-6	18.4		1.00	0.500
1,1-Dichloropropene	563-58-6	19.0		1.00	0.250
Ethylbenzene	100-41-4	18.3		1.00	0.250
2-Hexanone	591-78-6	20.0		10.0	2.50
Hexachlorobutadiene	87-68-3	15.2		1.00	0.250
Isopropylbenzene	98-82-8	15.5		1.00	0.250
p-Isopropyltoluene	99-87-6	16.5		1.00	0.250
4-Methyl-2-pentanone	108-10-1	18.3		10.0	2.50
Methylene chloride	75-09-2	18.7		5.00	0.250
Naphthalene	91-20-3	19.9		1.00	0.200
n-Propylbenzene	103-65-1	18.0		1.00	0.125
Styrene	100-42-5	19.1		1.00	0.125
1,1,1,2-Tetrachloroethane	630-20-6	19.2		1.00	0.250
1,1,1,2,2-Tetrachloroethane	79-34-5	21.4		1.00	0.200
Tetrachloroethene	127-18-4	54.1		1.00	0.250
Toluene	108-88-3	18.9		1.00	0.250
1,2,3-Trichlorobenzene	87-61-6	16.5		1.00	0.150
1,2,4-Trichlorobenzene	120-82-1	16.6		1.00	0.200
1,1,1-Trichloroethane	71-55-6	18.2		1.00	0.250
1,1,2-Trichloroethane	79-00-5	20.4		1.00	0.250
Trichloroethene	79-01-6	21.8		1.00	0.250
Trichlorofluoromethane	75-69-4	17.6		1.00	0.250
1,2,3-Trichloropropane	96-18-4	20.5		1.00	0.500
1,2,4-Trimethylbenzene	95-63-6	18.2		1.00	0.250
1,3,5-Trimethylbenzene	108-67-8	17.5		1.00	0.250
Vinyl acetate	108-05-4	32.5		10.0	2.50
Vinyl chloride	75-01-4	18.3		1.00	0.250
o-Xylene	95-47-6	18.4		1.00	0.250
m-,p-Xylene	179601-23-1	36.9		1.00	0.500
Surrogate	Recovery	Lower Limit	Upper Limit	Q	

Certificate of Analysis

Dibromofluoromethane	99.4	86	118	
1,2-Dichloroethane-d4	82.1	80	120	
Toluene-d8	98.2	88	110	
4-Bromofluorobenzene	102	86	115	
ND	Not detected at or above the reporting limit (RL).			

Sample #: L12070658-04	PrePrep Method: N/A	Instrument: HPMS8
Client ID: MW-3-2MSD	Prep Method: 5030B/5030C/5035A	Prep Date: N/A
Matrix: Water	Analytical Method: 8260B	Cal Date: 06/28/2012 23:13
Workgroup #: WG404417	Analyst: ADC	Run Date: 07/25/2012 13:34
Collect Date: 07/15/2012 12:10	Dilution: 1	File ID: 8M381044
Sample Tag: 01	Units: ug/L	

Analyte	CAS #	Result	Qual	RL	MDL
Acetone	67-64-1	18.5		10.0	2.50
Benzene	71-43-2	20.3		1.00	0.125
Bromobenzene	108-86-1	19.5		1.00	0.125
Bromochloromethane	74-97-5	21.7		1.00	0.200
Bromodichloromethane	75-27-4	19.8		1.00	0.250
Bromoform	75-25-2	19.6		1.00	0.500
Bromomethane	74-83-9	20.2		1.00	0.500
2-Butanone	78-93-3	17.5		10.0	2.50
n-Butylbenzene	104-51-8	15.9		1.00	0.250
sec-Butylbenzene	135-98-8	16.4		1.00	0.250
tert-Butylbenzene	98-06-6	16.6		1.00	0.250
Carbon disulfide	75-15-0	21.3		1.00	0.500
Carbon tetrachloride	56-23-5	19.3		1.00	0.250
Chlorobenzene	108-90-7	18.9		1.00	0.125
Chlorodibromomethane	124-48-1	19.7		1.00	0.250
Chloroethane	75-00-3	19.0		1.00	0.500
2-Chloroethyl vinyl ether	110-75-8		ND	10.0	2.00
Chloroform	67-66-3	19.6		1.00	0.125
Chloromethane	74-87-3	14.6		1.00	0.500
2-Chlorotoluene	95-49-8	19.2		1.00	0.125
4-Chlorotoluene	106-43-4	17.5		1.00	0.250
1,2-Dibromo-3-chloropropane	96-12-8	19.5		5.00	1.00
1,2-Dibromoethane	106-93-4	20.8		1.00	0.250
Dibromomethane	74-95-3	20.2		1.00	0.250
1,2-Dichlorobenzene	95-50-1	18.3		1.00	0.125
1,3-Dichlorobenzene	541-73-1	18.3		1.00	0.250
1,4-Dichlorobenzene	106-46-7	17.6		1.00	0.125

Certificate of Analysis

Analyte	CAS #	Result	Qual	RL	MDL
Dichlorodifluoromethane	75-71-8	22.5		1.00	0.250
1,1-Dichloroethane	75-34-3	20.2		1.00	0.125
1,2-Dichloroethane	107-06-2	17.3		1.00	0.250
1,1-Dichloroethene	75-35-4	19.8		1.00	0.500
cis-1,2-Dichloroethene	156-59-2	21.9		1.00	0.250
trans-1,2-Dichloroethene	156-60-5	19.8		1.00	0.250
1,2-Dichloropropane	78-87-5	20.2		1.00	0.200
1,3-Dichloropropane	142-28-9	20.2		1.00	0.200
2,2-Dichloropropane	594-20-7	18.7		1.00	0.250
cis-1,3-Dichloropropene	10061-01-5	21.8		1.00	0.250
trans-1,3-Dichloropropene	10061-02-6	18.7		1.00	0.500
1,1-Dichloropropene	563-58-6	19.7		1.00	0.250
Ethylbenzene	100-41-4	18.5		1.00	0.250
2-Hexanone	591-78-6	19.2		10.0	2.50
Hexachlorobutadiene	87-68-3	15.2		1.00	0.250
Isopropylbenzene	98-82-8	15.6		1.00	0.250
p-Isopropyltoluene	99-87-6	16.8		1.00	0.250
4-Methyl-2-pentanone	108-10-1	18.3		10.0	2.50
Methylene chloride	75-09-2	18.7		5.00	0.250
Naphthalene	91-20-3	20.3		1.00	0.200
n-Propylbenzene	103-65-1	18.1		1.00	0.125
Styrene	100-42-5	19.2		1.00	0.125
1,1,1,2-Tetrachloroethane	630-20-6	19.4		1.00	0.250
1,1,1,2-Tetrachloroethane	79-34-5	21.4		1.00	0.200
Tetrachloroethene	127-18-4	54.1		1.00	0.250
Toluene	108-88-3	19.1		1.00	0.250
1,2,3-Trichlorobenzene	87-61-6	16.8		1.00	0.150
1,2,4-Trichlorobenzene	120-82-1	17.1		1.00	0.200
1,1,1-Trichloroethane	71-55-6	18.7		1.00	0.250
1,1,2-Trichloroethane	79-00-5	20.5		1.00	0.250
Trichloroethene	79-01-6	22.2		1.00	0.250
Trichlorofluoromethane	75-69-4	17.9		1.00	0.250
1,2,3-Trichloropropane	96-18-4	20.7		1.00	0.500
1,2,4-Trimethylbenzene	95-63-6	18.5		1.00	0.250
1,3,5-Trimethylbenzene	108-67-8	17.9		1.00	0.250
Vinyl acetate	108-05-4	32.5		10.0	2.50
Vinyl chloride	75-01-4	19.0		1.00	0.250
o-Xylene	95-47-6	18.4		1.00	0.250
m-,p-Xylene	179601-23-1	36.5		1.00	0.500

Certificate of Analysis

Surrogate	Recovery	Lower Limit	Upper Limit	Q
Dibromofluoromethane	101	86	118	
1,2-Dichloroethane-d4	83.9	80	120	
Toluene-d8	98.8	88	110	
4-Bromofluorobenzene	100	86	115	
ND	Not detected at or above the reporting limit (RL).			

Sample #: L12070658-05	PrePrep Method: N/A	Instrument: HPMS11
Client ID: TRIP BLANK 15JULY2012	Prep Method: 5030B/5030C/5035A	Prep Date: N/A
Matrix: Water	Analytical Method: 8260B	Cal Date: 05/03/2012 21:37
Workgroup #: WG404020	Analyst: FJB	Run Date: 07/20/2012 22:12
Collect Date: 07/15/2012 00:01	Dilution: 1	File ID: 11M85454
Sample Tag: 01	Units: ug/L	

Analyte	CAS #	Result	Qual	RL	MDL
Acetone	67-64-1		ND	10.0	2.50
Benzene	71-43-2		ND	1.00	0.125
Bromobenzene	108-86-1		ND	1.00	0.125
Bromochloromethane	74-97-5		ND	1.00	0.200
Bromodichloromethane	75-27-4		ND	1.00	0.250
Bromoform	75-25-2		ND	1.00	0.500
Bromomethane	74-83-9		ND	1.00	0.500
2-Butanone	78-93-3		ND	10.0	2.50
n-Butylbenzene	104-51-8		ND	1.00	0.250
sec-Butylbenzene	135-98-8		ND	1.00	0.250
tert-Butylbenzene	98-06-6		ND	1.00	0.250
Carbon disulfide	75-15-0		ND	1.00	0.500
Carbon tetrachloride	56-23-5		ND	1.00	0.250
Chlorobenzene	108-90-7		ND	1.00	0.125
Chlorodibromomethane	124-48-1		ND	1.00	0.250
Chloroethane	75-00-3		ND	1.00	0.500
2-Chloroethyl vinyl ether	110-75-8		ND	10.0	2.00
Chloroform	67-66-3		ND	1.00	0.125
Chloromethane	74-87-3		ND	1.00	0.500
2-Chlorotoluene	95-49-8		ND	1.00	0.125
4-Chlorotoluene	106-43-4		ND	1.00	0.250
1,2-Dibromo-3-chloropropane	96-12-8		ND	5.00	1.00
1,2-Dibromoethane	106-93-4		ND	1.00	0.250
Dibromomethane	74-95-3		ND	1.00	0.250
1,2-Dichlorobenzene	95-50-1		ND	1.00	0.125
1,3-Dichlorobenzene	541-73-1		ND	1.00	0.250

Certificate of Analysis

Analyte	CAS #	Result	Qual	RL	MDL
1,4-Dichlorobenzene	106-46-7		ND	1.00	0.125
Dichlorodifluoromethane	75-71-8		ND	1.00	0.250
1,1-Dichloroethane	75-34-3		ND	1.00	0.125
1,2-Dichloroethane	107-06-2		ND	1.00	0.250
1,1-Dichloroethene	75-35-4		ND	1.00	0.500
cis-1,2-Dichloroethene	156-59-2		ND	1.00	0.250
trans-1,2-Dichloroethene	156-60-5		ND	1.00	0.250
1,2-Dichloropropane	78-87-5		ND	1.00	0.200
1,3-Dichloropropane	142-28-9		ND	1.00	0.200
2,2-Dichloropropane	594-20-7		ND	1.00	0.250
cis-1,3-Dichloropropene	10061-01-5		ND	1.00	0.250
trans-1,3-Dichloropropene	10061-02-6		ND	1.00	0.500
1,1-Dichloropropene	563-58-6		ND	1.00	0.250
Ethylbenzene	100-41-4		ND	1.00	0.250
2-Hexanone	591-78-6		ND	10.0	2.50
Hexachlorobutadiene	87-68-3		ND	1.00	0.250
Isopropylbenzene	98-82-8		ND	1.00	0.250
p-Isopropyltoluene	99-87-6		ND	1.00	0.250
4-Methyl-2-pentanone	108-10-1		ND	10.0	2.50
Methylene chloride	75-09-2		ND	5.00	0.250
Naphthalene	91-20-3		ND	1.00	0.200
n-Propylbenzene	103-65-1		ND	1.00	0.125
Styrene	100-42-5		ND	1.00	0.125
1,1,1,2-Tetrachloroethane	630-20-6		ND	1.00	0.250
1,1,1,2-Tetrachloroethane	79-34-5		ND	1.00	0.200
Tetrachloroethene	127-18-4		ND	1.00	0.250
Toluene	108-88-3		ND	1.00	0.250
1,2,3-Trichlorobenzene	87-61-6		ND	1.00	0.150
1,2,4-Trichlorobenzene	120-82-1		ND	1.00	0.200
1,1,1-Trichloroethane	71-55-6		ND	1.00	0.250
1,1,2-Trichloroethane	79-00-5		ND	1.00	0.250
Trichloroethene	79-01-6		ND	1.00	0.250
Trichlorofluoromethane	75-69-4		ND	1.00	0.250
1,2,3-Trichloropropane	96-18-4		ND	1.00	0.500
1,2,4-Trimethylbenzene	95-63-6		ND	1.00	0.250
1,3,5-Trimethylbenzene	108-67-8		ND	1.00	0.250
Vinyl acetate	108-05-4		ND	10.0	2.50
Vinyl chloride	75-01-4		ND	1.00	0.250
o-Xylene	95-47-6		ND	1.00	0.250

Certificate of Analysis

Analyte	CAS #	Result	Qual	RL	MDL
m-,p-Xylene	179601-23-1		ND	1.00	0.500
Surrogate	Recovery	Lower Limit	Upper Limit	Q	
Dibromofluoromethane	87.8	86	118		
1,2-Dichloroethane-d4	86.1	80	120		
Toluene-d8	104	88	110		
4-Bromofluorobenzene	111	86	115		
ND	Not detected at or above the reporting limit (RL).				

Sample #: L12070658-06

PrePrep Method: N/A

Instrument: HPMS11

Client ID: FIELD BLANK 15JULY2012

Prep Method: 5030B/5030C/5035A

Prep Date: N/A

Matrix: Water

Analytical Method: 8260B

Cal Date: 05/03/2012 21:37

Workgroup #: WG404020

Analyst: FJB

Run Date: 07/20/2012 22:43

Collect Date: 07/15/2012 10:50

Dilution: 1

File ID: 11M85455

Sample Tag: 01

Units: ug/L

Analyte	CAS #	Result	Qual	RL	MDL
Acetone	67-64-1		ND	10.0	2.50
Benzene	71-43-2		ND	1.00	0.125
Bromobenzene	108-86-1		ND	1.00	0.125
Bromochloromethane	74-97-5		ND	1.00	0.200
Bromodichloromethane	75-27-4		ND	1.00	0.250
Bromoform	75-25-2		ND	1.00	0.500
Bromomethane	74-83-9		ND	1.00	0.500
2-Butanone	78-93-3		ND	10.0	2.50
n-Butylbenzene	104-51-8		ND	1.00	0.250
sec-Butylbenzene	135-98-8		ND	1.00	0.250
tert-Butylbenzene	98-06-6		ND	1.00	0.250
Carbon disulfide	75-15-0		ND	1.00	0.500
Carbon tetrachloride	56-23-5		ND	1.00	0.250
Chlorobenzene	108-90-7		ND	1.00	0.125
Chlorodibromomethane	124-48-1		ND	1.00	0.250
Chloroethane	75-00-3		ND	1.00	0.500
2-Chloroethyl vinyl ether	110-75-8		ND	10.0	2.00
Chloroform	67-66-3		ND	1.00	0.125
Chloromethane	74-87-3		ND	1.00	0.500
2-Chlorotoluene	95-49-8		ND	1.00	0.125
4-Chlorotoluene	106-43-4		ND	1.00	0.250
1,2-Dibromo-3-chloropropane	96-12-8		ND	5.00	1.00
1,2-Dibromoethane	106-93-4		ND	1.00	0.250
Dibromomethane	74-95-3		ND	1.00	0.250

Certificate of Analysis

Analyte	CAS #	Result	Qual	RL	MDL
1,2-Dichlorobenzene	95-50-1		ND	1.00	0.125
1,3-Dichlorobenzene	541-73-1		ND	1.00	0.250
1,4-Dichlorobenzene	106-46-7		ND	1.00	0.125
Dichlorodifluoromethane	75-71-8		ND	1.00	0.250
1,1-Dichloroethane	75-34-3		ND	1.00	0.125
1,2-Dichloroethane	107-06-2		ND	1.00	0.250
1,1-Dichloroethene	75-35-4		ND	1.00	0.500
cis-1,2-Dichloroethene	156-59-2		ND	1.00	0.250
trans-1,2-Dichloroethene	156-60-5		ND	1.00	0.250
1,2-Dichloropropane	78-87-5		ND	1.00	0.200
1,3-Dichloropropane	142-28-9		ND	1.00	0.200
2,2-Dichloropropane	594-20-7		ND	1.00	0.250
cis-1,3-Dichloropropene	10061-01-5		ND	1.00	0.250
trans-1,3-Dichloropropene	10061-02-6		ND	1.00	0.500
1,1-Dichloropropene	563-58-6		ND	1.00	0.250
Ethylbenzene	100-41-4		ND	1.00	0.250
2-Hexanone	591-78-6		ND	10.0	2.50
Hexachlorobutadiene	87-68-3		ND	1.00	0.250
Isopropylbenzene	98-82-8		ND	1.00	0.250
p-Isopropyltoluene	99-87-6		ND	1.00	0.250
4-Methyl-2-pentanone	108-10-1		ND	10.0	2.50
Methylene chloride	75-09-2	0.259	J	5.00	0.250
Naphthalene	91-20-3		ND	1.00	0.200
n-Propylbenzene	103-65-1		ND	1.00	0.125
Styrene	100-42-5		ND	1.00	0.125
1,1,1,2-Tetrachloroethane	630-20-6		ND	1.00	0.250
1,1,1,2,2-Tetrachloroethane	79-34-5		ND	1.00	0.200
Tetrachloroethene	127-18-4		ND	1.00	0.250
Toluene	108-88-3		ND	1.00	0.250
1,2,3-Trichlorobenzene	87-61-6		ND	1.00	0.150
1,2,4-Trichlorobenzene	120-82-1		ND	1.00	0.200
1,1,1-Trichloroethane	71-55-6		ND	1.00	0.250
1,1,2-Trichloroethane	79-00-5		ND	1.00	0.250
Trichloroethene	79-01-6		ND	1.00	0.250
Trichlorofluoromethane	75-69-4		ND	1.00	0.250
1,2,3-Trichloropropane	96-18-4		ND	1.00	0.500
1,2,4-Trimethylbenzene	95-63-6		ND	1.00	0.250
1,3,5-Trimethylbenzene	108-67-8		ND	1.00	0.250
Vinyl acetate	108-05-4		ND	10.0	2.50

Certificate of Analysis

Analyte	CAS #	Result	Qual	RL	MDL
Vinyl chloride	75-01-4		ND	1.00	0.250
o-Xylene	95-47-6		ND	1.00	0.250
m-,p-Xylene	179601-23-1		ND	1.00	0.500
Surrogate	Recovery	Lower Limit	Upper Limit	Q	
Dibromofluoromethane	86.2	86	118		
1,2-Dichloroethane-d4	84.4	80	120		
Toluene-d8	103	88	110		
4-Bromofluorobenzene	115	86	115		
J	Estimated value; the analyte concentration was less than the RL/LOQ.				
ND	Not detected at or above the reporting limit (RL).				

Sample #: L12070658-07

PrePrep Method: N/A

Instrument: HPMS11

Client ID: MW-3-1-D

Prep Method: 5030B/5030C/5035A

Prep Date: N/A

Matrix: Water

Analytical Method: 8260B

Cal Date: 05/03/2012 21:37

Workgroup #: WG404020

Analyst: FJB

Run Date: 07/21/2012 01:47

Collect Date: 07/15/2012 10:30

Dilution: 1

File ID: 11M85462

Sample Tag: 01

Units: ug/L

Analyte	CAS #	Result	Qual	RL	MDL
Acetone	67-64-1	2.78	J	10.0	2.50
Benzene	71-43-2		ND	1.00	0.125
Bromobenzene	108-86-1		ND	1.00	0.125
Bromochloromethane	74-97-5		ND	1.00	0.200
Bromodichloromethane	75-27-4		ND	1.00	0.250
Bromoform	75-25-2		ND	1.00	0.500
Bromomethane	74-83-9		ND	1.00	0.500
2-Butanone	78-93-3		ND	10.0	2.50
n-Butylbenzene	104-51-8		ND	1.00	0.250
sec-Butylbenzene	135-98-8		ND	1.00	0.250
tert-Butylbenzene	98-06-6		ND	1.00	0.250
Carbon disulfide	75-15-0	0.820	J	1.00	0.500
Carbon tetrachloride	56-23-5		ND	1.00	0.250
Chlorobenzene	108-90-7		ND	1.00	0.125
Chlorodibromomethane	124-48-1		ND	1.00	0.250
Chloroethane	75-00-3		ND	1.00	0.500
2-Chloroethyl vinyl ether	110-75-8		ND	10.0	2.00
Chloroform	67-66-3	0.135	J	1.00	0.125
Chloromethane	74-87-3		ND	1.00	0.500
2-Chlorotoluene	95-49-8		ND	1.00	0.125
4-Chlorotoluene	106-43-4		ND	1.00	0.250

Certificate of Analysis

Analyte	CAS #	Result	Qual	RL	MDL
1,2-Dibromo-3-chloropropane	96-12-8		ND	5.00	1.00
1,2-Dibromoethane	106-93-4		ND	1.00	0.250
Dibromomethane	74-95-3		ND	1.00	0.250
1,2-Dichlorobenzene	95-50-1		ND	1.00	0.125
1,3-Dichlorobenzene	541-73-1		ND	1.00	0.250
1,4-Dichlorobenzene	106-46-7		ND	1.00	0.125
Dichlorodifluoromethane	75-71-8		ND	1.00	0.250
1,1-Dichloroethane	75-34-3		ND	1.00	0.125
1,2-Dichloroethane	107-06-2		ND	1.00	0.250
1,1-Dichloroethene	75-35-4		ND	1.00	0.500
cis-1,2-Dichloroethene	156-59-2		ND	1.00	0.250
trans-1,2-Dichloroethene	156-60-5		ND	1.00	0.250
1,2-Dichloropropane	78-87-5		ND	1.00	0.200
1,3-Dichloropropane	142-28-9		ND	1.00	0.200
2,2-Dichloropropane	594-20-7		ND	1.00	0.250
cis-1,3-Dichloropropene	10061-01-5		ND	1.00	0.250
trans-1,3-Dichloropropene	10061-02-6		ND	1.00	0.500
1,1-Dichloropropene	563-58-6		ND	1.00	0.250
Ethylbenzene	100-41-4		ND	1.00	0.250
2-Hexanone	591-78-6		ND	10.0	2.50
Hexachlorobutadiene	87-68-3		ND	1.00	0.250
Isopropylbenzene	98-82-8		ND	1.00	0.250
p-Isopropyltoluene	99-87-6	3.47		1.00	0.250
4-Methyl-2-pentanone	108-10-1		ND	10.0	2.50
Methylene chloride	75-09-2		ND	5.00	0.250
Naphthalene	91-20-3		ND	1.00	0.200
n-Propylbenzene	103-65-1	0.261	J	1.00	0.125
Styrene	100-42-5		ND	1.00	0.125
1,1,1,2-Tetrachloroethane	630-20-6		ND	1.00	0.250
1,1,1,2-Tetrachloroethane	79-34-5		ND	1.00	0.200
Tetrachloroethene	127-18-4	30.1		1.00	0.250
Toluene	108-88-3		ND	1.00	0.250
1,2,3-Trichlorobenzene	87-61-6		ND	1.00	0.150
1,2,4-Trichlorobenzene	120-82-1		ND	1.00	0.200
1,1,1-Trichloroethane	71-55-6		ND	1.00	0.250
1,1,2-Trichloroethane	79-00-5		ND	1.00	0.250
Trichloroethene	79-01-6	2.37		1.00	0.250
Trichlorofluoromethane	75-69-4		ND	1.00	0.250
1,2,3-Trichloropropane	96-18-4		ND	1.00	0.500

Certificate of Analysis

Analyte	CAS #	Result	Qual	RL	MDL
1,2,4-Trimethylbenzene	95-63-6		ND	1.00	0.250
1,3,5-Trimethylbenzene	108-67-8		ND	1.00	0.250
Vinyl acetate	108-05-4		ND	10.0	2.50
Vinyl chloride	75-01-4		ND	1.00	0.250
o-Xylene	95-47-6		ND	1.00	0.250
m-,p-Xylene	179601-23-1		ND	1.00	0.500
Surrogate	Recovery	Lower Limit	Upper Limit	Q	
Dibromofluoromethane	86.8	86	118		
1,2-Dichloroethane-d4	86.4	80	120		
Toluene-d8	104	88	110		
4-Bromofluorobenzene	112	86	115		
J	Estimated value; the analyte concentration was less than the RL/LOQ.				
ND	Not detected at or above the reporting limit (RL).				

Sample #: L12070658-08	PrePrep Method: N/A	Instrument: HPMS11
Client ID: MW-58	Prep Method: 5030B/5030C/5035A	Prep Date: N/A
Matrix: Water	Analytical Method: 8260B	Cal Date: 05/03/2012 21:37
Workgroup #: WG404020	Analyst: FJB	Run Date: 07/21/2012 02:17
Collect Date: 07/15/2012 14:10	Dilution: 1	File ID: 11M85463
Sample Tag: 01	Units: ug/L	

Analyte	CAS #	Result	Qual	RL	MDL
Acetone	67-64-1		ND	10.0	2.50
Benzene	71-43-2		ND	1.00	0.125
Bromobenzene	108-86-1		ND	1.00	0.125
Bromochloromethane	74-97-5		ND	1.00	0.200
Bromodichloromethane	75-27-4		ND	1.00	0.250
Bromoform	75-25-2		ND	1.00	0.500
Bromomethane	74-83-9		ND	1.00	0.500
2-Butanone	78-93-3		ND	10.0	2.50
n-Butylbenzene	104-51-8		ND	1.00	0.250
sec-Butylbenzene	135-98-8		ND	1.00	0.250
tert-Butylbenzene	98-06-6		ND	1.00	0.250
Carbon disulfide	75-15-0		ND	1.00	0.500
Carbon tetrachloride	56-23-5		ND	1.00	0.250
Chlorobenzene	108-90-7		ND	1.00	0.125
Chlorodibromomethane	124-48-1		ND	1.00	0.250
Chloroethane	75-00-3		ND	1.00	0.500
2-Chloroethyl vinyl ether	110-75-8		ND	10.0	2.00
Chloroform	67-66-3		ND	1.00	0.125

Certificate of Analysis

Analyte	CAS #	Result	Qual	RL	MDL
Chloromethane	74-87-3		ND	1.00	0.500
2-Chlorotoluene	95-49-8		ND	1.00	0.125
4-Chlorotoluene	106-43-4		ND	1.00	0.250
1,2-Dibromo-3-chloropropane	96-12-8		ND	5.00	1.00
1,2-Dibromoethane	106-93-4		ND	1.00	0.250
Dibromomethane	74-95-3		ND	1.00	0.250
1,2-Dichlorobenzene	95-50-1		ND	1.00	0.125
1,3-Dichlorobenzene	541-73-1		ND	1.00	0.250
1,4-Dichlorobenzene	106-46-7		ND	1.00	0.125
Dichlorodifluoromethane	75-71-8		ND	1.00	0.250
1,1-Dichloroethane	75-34-3		ND	1.00	0.125
1,2-Dichloroethane	107-06-2		ND	1.00	0.250
1,1-Dichloroethene	75-35-4	0.656	J	1.00	0.500
cis-1,2-Dichloroethene	156-59-2		ND	1.00	0.250
trans-1,2-Dichloroethene	156-60-5		ND	1.00	0.250
1,2-Dichloropropane	78-87-5		ND	1.00	0.200
1,3-Dichloropropane	142-28-9		ND	1.00	0.200
2,2-Dichloropropane	594-20-7		ND	1.00	0.250
cis-1,3-Dichloropropene	10061-01-5		ND	1.00	0.250
trans-1,3-Dichloropropene	10061-02-6		ND	1.00	0.500
1,1-Dichloropropene	563-58-6		ND	1.00	0.250
Ethylbenzene	100-41-4		ND	1.00	0.250
2-Hexanone	591-78-6		ND	10.0	2.50
Hexachlorobutadiene	87-68-3		ND	1.00	0.250
Isopropylbenzene	98-82-8		ND	1.00	0.250
p-Isopropyltoluene	99-87-6		ND	1.00	0.250
4-Methyl-2-pentanone	108-10-1		ND	10.0	2.50
Methylene chloride	75-09-2		ND	5.00	0.250
Naphthalene	91-20-3		ND	1.00	0.200
n-Propylbenzene	103-65-1		ND	1.00	0.125
Styrene	100-42-5		ND	1.00	0.125
1,1,1,2-Tetrachloroethane	630-20-6		ND	1.00	0.250
1,1,1,2-Tetrachloroethane	79-34-5		ND	1.00	0.200
Tetrachloroethene	127-18-4	36.3		1.00	0.250
Toluene	108-88-3		ND	1.00	0.250
1,2,3-Trichlorobenzene	87-61-6		ND	1.00	0.150
1,2,4-Trichlorobenzene	120-82-1		ND	1.00	0.200
1,1,1-Trichloroethane	71-55-6		ND	1.00	0.250
1,1,2-Trichloroethane	79-00-5		ND	1.00	0.250

Certificate of Analysis

Analyte	CAS #	Result	Qual	RL	MDL
Trichloroethene	79-01-6	5.17		1.00	0.250
Trichlorofluoromethane	75-69-4		ND	1.00	0.250
1,2,3-Trichloropropane	96-18-4		ND	1.00	0.500
1,2,4-Trimethylbenzene	95-63-6		ND	1.00	0.250
1,3,5-Trimethylbenzene	108-67-8		ND	1.00	0.250
Vinyl acetate	108-05-4		ND	10.0	2.50
Vinyl chloride	75-01-4		ND	1.00	0.250
o-Xylene	95-47-6		ND	1.00	0.250
m-,p-Xylene	179601-23-1		ND	1.00	0.500
Surrogate	Recovery	Lower Limit	Upper Limit	Q	
Dibromofluoromethane	84.9	86	118	*	
1,2-Dichloroethane-d4	85.7	80	120		
Toluene-d8	104	88	110		
4-Bromofluorobenzene	115	86	115		
*	Surrogate or spike compound out of range				
J	Estimated value; the analyte concentration was less than the RL/LOQ.				
ND	Not detected at or above the reporting limit (RL).				

Sample #: L12070658-09	PrePrep Method: N/A	Instrument: HPMS11
Client ID: WW-03	Prep Method: 5030B/5030C/5035A	Prep Date: N/A
Matrix: Water	Analytical Method: 8260B	Cal Date: 05/03/2012 21:37
Workgroup #: WG404020	Analyst: FJB	Run Date: 07/21/2012 02:48
Collect Date: 07/15/2012 15:10	Dilution: 1	File ID: 11M85464
Sample Tag: 01	Units: ug/L	

Analyte	CAS #	Result	Qual	RL	MDL
Acetone	67-64-1		ND	10.0	2.50
Benzene	71-43-2		ND	1.00	0.125
Bromobenzene	108-86-1		ND	1.00	0.125
Bromochloromethane	74-97-5		ND	1.00	0.200
Bromodichloromethane	75-27-4		ND	1.00	0.250
Bromoform	75-25-2		ND	1.00	0.500
Bromomethane	74-83-9		ND	1.00	0.500
2-Butanone	78-93-3		ND	10.0	2.50
n-Butylbenzene	104-51-8		ND	1.00	0.250
sec-Butylbenzene	135-98-8		ND	1.00	0.250
tert-Butylbenzene	98-06-6		ND	1.00	0.250
Carbon disulfide	75-15-0		ND	1.00	0.500
Carbon tetrachloride	56-23-5		ND	1.00	0.250
Chlorobenzene	108-90-7		ND	1.00	0.125

Certificate of Analysis

Analyte	CAS #	Result	Qual	RL	MDL
Chlorodibromomethane	124-48-1		ND	1.00	0.250
Chloroethane	75-00-3		ND	1.00	0.500
2-Chloroethyl vinyl ether	110-75-8		ND	10.0	2.00
Chloroform	67-66-3		ND	1.00	0.125
Chloromethane	74-87-3		ND	1.00	0.500
2-Chlorotoluene	95-49-8		ND	1.00	0.125
4-Chlorotoluene	106-43-4		ND	1.00	0.250
1,2-Dibromo-3-chloropropane	96-12-8		ND	5.00	1.00
1,2-Dibromoethane	106-93-4		ND	1.00	0.250
Dibromomethane	74-95-3		ND	1.00	0.250
1,2-Dichlorobenzene	95-50-1		ND	1.00	0.125
1,3-Dichlorobenzene	541-73-1		ND	1.00	0.250
1,4-Dichlorobenzene	106-46-7		ND	1.00	0.125
Dichlorodifluoromethane	75-71-8		ND	1.00	0.250
1,1-Dichloroethane	75-34-3		ND	1.00	0.125
1,2-Dichloroethane	107-06-2		ND	1.00	0.250
1,1-Dichloroethene	75-35-4		ND	1.00	0.500
cis-1,2-Dichloroethene	156-59-2		ND	1.00	0.250
trans-1,2-Dichloroethene	156-60-5		ND	1.00	0.250
1,2-Dichloropropane	78-87-5		ND	1.00	0.200
1,3-Dichloropropane	142-28-9		ND	1.00	0.200
2,2-Dichloropropane	594-20-7		ND	1.00	0.250
cis-1,3-Dichloropropene	10061-01-5		ND	1.00	0.250
trans-1,3-Dichloropropene	10061-02-6		ND	1.00	0.500
1,1-Dichloropropene	563-58-6		ND	1.00	0.250
Ethylbenzene	100-41-4		ND	1.00	0.250
2-Hexanone	591-78-6		ND	10.0	2.50
Hexachlorobutadiene	87-68-3		ND	1.00	0.250
Isopropylbenzene	98-82-8		ND	1.00	0.250
p-Isopropyltoluene	99-87-6		ND	1.00	0.250
4-Methyl-2-pentanone	108-10-1		ND	10.0	2.50
Methylene chloride	75-09-2		ND	5.00	0.250
Naphthalene	91-20-3		ND	1.00	0.200
n-Propylbenzene	103-65-1		ND	1.00	0.125
Styrene	100-42-5		ND	1.00	0.125
1,1,1,2-Tetrachloroethane	630-20-6		ND	1.00	0.250
1,1,2,2-Tetrachloroethane	79-34-5		ND	1.00	0.200
Tetrachloroethene	127-18-4		ND	1.00	0.250
Toluene	108-88-3		ND	1.00	0.250

Certificate of Analysis

Analyte	CAS #	Result	Qual	RL	MDL
1,2,3-Trichlorobenzene	87-61-6		ND	1.00	0.150
1,2,4-Trichlorobenzene	120-82-1		ND	1.00	0.200
1,1,1-Trichloroethane	71-55-6		ND	1.00	0.250
1,1,2-Trichloroethane	79-00-5		ND	1.00	0.250
Trichloroethene	79-01-6		ND	1.00	0.250
Trichlorofluoromethane	75-69-4		ND	1.00	0.250
1,2,3-Trichloropropane	96-18-4		ND	1.00	0.500
1,2,4-Trimethylbenzene	95-63-6		ND	1.00	0.250
1,3,5-Trimethylbenzene	108-67-8		ND	1.00	0.250
Vinyl acetate	108-05-4		ND	10.0	2.50
Vinyl chloride	75-01-4		ND	1.00	0.250
o-Xylene	95-47-6		ND	1.00	0.250
m-,p-Xylene	179601-23-1		ND	1.00	0.500
Surrogate	Recovery	Lower Limit	Upper Limit	Q	
Dibromofluoromethane	86.2	86	118		
1,2-Dichloroethane-d4	87.9	80	120		
Toluene-d8	105	88	110		
4-Bromofluorobenzene	116	86	115	*	
*	Surrogate or spike compound out of range				
ND	Not detected at or above the reporting limit (RL).				

Sample #: L12070658-10

PrePrep Method: N/A

Instrument: HPMS10

Client ID: 35B WW06

Prep Method: 5030B/5030C/5035A

Prep Date: N/A

Matrix: Water

Analytical Method: 8260B

Cal Date: 06/26/2012 15:11

Workgroup #: WG404058

Analyst: MES

Run Date: 07/21/2012 21:06

Collect Date: 07/16/2012 09:25

Dilution: 1

File ID: 10M97167

Sample Tag: 01

Units: ug/L

Analyte	CAS #	Result	Qual	RL	MDL
Acetone	67-64-1		ND	10.0	2.50
Benzene	71-43-2		ND	1.00	0.125
Bromobenzene	108-86-1		ND	1.00	0.125
Bromochloromethane	74-97-5		ND	1.00	0.200
Bromodichloromethane	75-27-4		ND	1.00	0.250
Bromoform	75-25-2		ND	1.00	0.500
Bromomethane	74-83-9		ND	1.00	0.500
2-Butanone	78-93-3		ND	10.0	2.50
n-Butylbenzene	104-51-8		ND	1.00	0.250
sec-Butylbenzene	135-98-8		ND	1.00	0.250
tert-Butylbenzene	98-06-6		ND	1.00	0.250

Certificate of Analysis

Analyte	CAS #	Result	Qual	RL	MDL
Carbon disulfide	75-15-0		ND	1.00	0.500
Carbon tetrachloride	56-23-5		ND	1.00	0.250
Chlorobenzene	108-90-7		ND	1.00	0.125
Chlorodibromomethane	124-48-1		ND	1.00	0.250
Chloroethane	75-00-3		ND	1.00	0.500
2-Chloroethyl vinyl ether	110-75-8		ND	10.0	2.00
Chloroform	67-66-3		ND	1.00	0.125
Chloromethane	74-87-3		ND	1.00	0.500
2-Chlorotoluene	95-49-8		ND	1.00	0.125
4-Chlorotoluene	106-43-4		ND	1.00	0.250
1,2-Dibromo-3-chloropropane	96-12-8		ND	5.00	1.00
1,2-Dibromoethane	106-93-4		ND	1.00	0.250
Dibromomethane	74-95-3		ND	1.00	0.250
1,2-Dichlorobenzene	95-50-1		ND	1.00	0.125
1,3-Dichlorobenzene	541-73-1		ND	1.00	0.250
1,4-Dichlorobenzene	106-46-7		ND	1.00	0.125
Dichlorodifluoromethane	75-71-8		ND	1.00	0.250
1,1-Dichloroethane	75-34-3		ND	1.00	0.125
1,2-Dichloroethane	107-06-2		ND	1.00	0.250
1,1-Dichloroethene	75-35-4		ND	1.00	0.500
cis-1,2-Dichloroethene	156-59-2		ND	1.00	0.250
trans-1,2-Dichloroethene	156-60-5		ND	1.00	0.250
1,2-Dichloropropane	78-87-5		ND	1.00	0.200
1,3-Dichloropropane	142-28-9		ND	1.00	0.200
2,2-Dichloropropane	594-20-7		ND	1.00	0.250
cis-1,3-Dichloropropene	10061-01-5		ND	1.00	0.250
trans-1,3-Dichloropropene	10061-02-6		ND	1.00	0.500
1,1-Dichloropropene	563-58-6		ND	1.00	0.250
Ethylbenzene	100-41-4		ND	1.00	0.250
2-Hexanone	591-78-6		ND	10.0	2.50
Hexachlorobutadiene	87-68-3		ND	1.00	0.250
Isopropylbenzene	98-82-8		ND	1.00	0.250
p-Isopropyltoluene	99-87-6		ND	1.00	0.250
4-Methyl-2-pentanone	108-10-1		ND	10.0	2.50
Methylene chloride	75-09-2		ND	5.00	0.250
Naphthalene	91-20-3		ND	1.00	0.200
n-Propylbenzene	103-65-1		ND	1.00	0.125
Styrene	100-42-5		ND	1.00	0.125
1,1,1,2-Tetrachloroethane	630-20-6		ND	1.00	0.250

Certificate of Analysis

Analyte	CAS #	Result	Qual	RL	MDL
1,1,1,2-Tetrachloroethane	79-34-5		ND	1.00	0.200
Tetrachloroethene	127-18-4		ND	1.00	0.250
Toluene	108-88-3		ND	1.00	0.250
1,2,3-Trichlorobenzene	87-61-6		ND	1.00	0.150
1,2,4-Trichlorobenzene	120-82-1		ND	1.00	0.200
1,1,1-Trichloroethane	71-55-6		ND	1.00	0.250
1,1,2-Trichloroethane	79-00-5		ND	1.00	0.250
Trichloroethene	79-01-6		ND	1.00	0.250
Trichlorofluoromethane	75-69-4		ND	1.00	0.250
1,2,3-Trichloropropane	96-18-4		ND	1.00	0.500
1,2,4-Trimethylbenzene	95-63-6		ND	1.00	0.250
1,3,5-Trimethylbenzene	108-67-8		ND	1.00	0.250
Vinyl acetate	108-05-4		ND	10.0	2.50
Vinyl chloride	75-01-4		ND	1.00	0.250
o-Xylene	95-47-6		ND	1.00	0.250
m-,p-Xylene	179601-23-1		ND	1.00	0.500
Surrogate	Recovery	Lower Limit	Upper Limit	Q	
Dibromofluoromethane	98.8	86	118		
1,2-Dichloroethane-d4	99.0	80	120		
Toluene-d8	101	88	110		
4-Bromofluorobenzene	105	86	115		
ND	Not detected at or above the reporting limit (RL).				

Sample #: L12070658-11

PrePrep Method: N/A

Instrument: HPMS10

Client ID: FIELD BLANK 16JULY2012

Prep Method: 5030B/5030C/5035A

Prep Date: N/A

Matrix: Water

Analytical Method: 8260B

Cal Date: 06/26/2012 15:11

Workgroup #: WG404058

Analyst: MES

Run Date: 07/21/2012 21:35

Collect Date: 07/16/2012 09:20

Dilution: 1

File ID: 10M97168

Sample Tag: 01

Units: ug/L

Analyte	CAS #	Result	Qual	RL	MDL
Acetone	67-64-1		ND	10.0	2.50
Benzene	71-43-2		ND	1.00	0.125
Bromobenzene	108-86-1		ND	1.00	0.125
Bromochloromethane	74-97-5		ND	1.00	0.200
Bromodichloromethane	75-27-4		ND	1.00	0.250
Bromoform	75-25-2		ND	1.00	0.500
Bromomethane	74-83-9		ND	1.00	0.500
2-Butanone	78-93-3		ND	10.0	2.50
n-Butylbenzene	104-51-8		ND	1.00	0.250

Certificate of Analysis

Analyte	CAS #	Result	Qual	RL	MDL
sec-Butylbenzene	135-98-8		ND	1.00	0.250
tert-Butylbenzene	98-06-6		ND	1.00	0.250
Carbon disulfide	75-15-0		ND	1.00	0.500
Carbon tetrachloride	56-23-5		ND	1.00	0.250
Chlorobenzene	108-90-7		ND	1.00	0.125
Chlorodibromomethane	124-48-1		ND	1.00	0.250
Chloroethane	75-00-3		ND	1.00	0.500
2-Chloroethyl vinyl ether	110-75-8		ND	10.0	2.00
Chloroform	67-66-3		ND	1.00	0.125
Chloromethane	74-87-3		ND	1.00	0.500
2-Chlorotoluene	95-49-8		ND	1.00	0.125
4-Chlorotoluene	106-43-4		ND	1.00	0.250
1,2-Dibromo-3-chloropropane	96-12-8		ND	5.00	1.00
1,2-Dibromoethane	106-93-4		ND	1.00	0.250
Dibromomethane	74-95-3		ND	1.00	0.250
1,2-Dichlorobenzene	95-50-1		ND	1.00	0.125
1,3-Dichlorobenzene	541-73-1		ND	1.00	0.250
1,4-Dichlorobenzene	106-46-7		ND	1.00	0.125
Dichlorodifluoromethane	75-71-8		ND	1.00	0.250
1,1-Dichloroethane	75-34-3		ND	1.00	0.125
1,2-Dichloroethane	107-06-2		ND	1.00	0.250
1,1-Dichloroethene	75-35-4		ND	1.00	0.500
cis-1,2-Dichloroethene	156-59-2		ND	1.00	0.250
trans-1,2-Dichloroethene	156-60-5		ND	1.00	0.250
1,2-Dichloropropane	78-87-5		ND	1.00	0.200
1,3-Dichloropropane	142-28-9		ND	1.00	0.200
2,2-Dichloropropane	594-20-7		ND	1.00	0.250
cis-1,3-Dichloropropene	10061-01-5		ND	1.00	0.250
trans-1,3-Dichloropropene	10061-02-6		ND	1.00	0.500
1,1-Dichloropropene	563-58-6		ND	1.00	0.250
Ethylbenzene	100-41-4		ND	1.00	0.250
2-Hexanone	591-78-6		ND	10.0	2.50
Hexachlorobutadiene	87-68-3		ND	1.00	0.250
Isopropylbenzene	98-82-8		ND	1.00	0.250
p-Isopropyltoluene	99-87-6		ND	1.00	0.250
4-Methyl-2-pentanone	108-10-1		ND	10.0	2.50
Methylene chloride	75-09-2		ND	5.00	0.250
Naphthalene	91-20-3		ND	1.00	0.200
n-Propylbenzene	103-65-1		ND	1.00	0.125

Certificate of Analysis

Analyte	CAS #	Result	Qual	RL	MDL
Styrene	100-42-5		ND	1.00	0.125
1,1,1,2-Tetrachloroethane	630-20-6		ND	1.00	0.250
1,1,1,2,2-Tetrachloroethane	79-34-5		ND	1.00	0.200
Tetrachloroethene	127-18-4		ND	1.00	0.250
Toluene	108-88-3	0.512	J	1.00	0.250
1,2,3-Trichlorobenzene	87-61-6		ND	1.00	0.150
1,2,4-Trichlorobenzene	120-82-1		ND	1.00	0.200
1,1,1-Trichloroethane	71-55-6		ND	1.00	0.250
1,1,2-Trichloroethane	79-00-5		ND	1.00	0.250
Trichloroethene	79-01-6		ND	1.00	0.250
Trichlorofluoromethane	75-69-4		ND	1.00	0.250
1,2,3-Trichloropropane	96-18-4		ND	1.00	0.500
1,2,4-Trimethylbenzene	95-63-6		ND	1.00	0.250
1,3,5-Trimethylbenzene	108-67-8		ND	1.00	0.250
Vinyl acetate	108-05-4		ND	10.0	2.50
Vinyl chloride	75-01-4		ND	1.00	0.250
o-Xylene	95-47-6		ND	1.00	0.250
m-,p-Xylene	179601-23-1		ND	1.00	0.500
Surrogate	Recovery	Lower Limit	Upper Limit	Q	
Dibromofluoromethane	98.4	86	118		
1,2-Dichloroethane-d4	98.1	80	120		
Toluene-d8	101	88	110		
4-Bromofluorobenzene	105	86	115		
J	Estimated value; the analyte concentration was less than the RL/LOQ.				
ND	Not detected at or above the reporting limit (RL).				

Sample #: L12070658-12

PrePrep Method: N/A

Instrument: HPMS10

Client ID: MW3-3

Prep Method: 5030B/5030C/5035A

Prep Date: N/A

Matrix: Water

Analytical Method: 8260B

Cal Date: 06/26/2012 15:11

Workgroup #: WG404058

Analyst: MES

Run Date: 07/21/2012 22:04

Collect Date: 07/15/2012 13:25

Dilution: 1

File ID: 10M97169

Sample Tag: 01

Units: ug/L

Analyte	CAS #	Result	Qual	RL	MDL
Acetone	67-64-1	2.74	J	10.0	2.50
Benzene	71-43-2		ND	1.00	0.125
Bromobenzene	108-86-1		ND	1.00	0.125
Bromochloromethane	74-97-5		ND	1.00	0.200
Bromodichloromethane	75-27-4		ND	1.00	0.250
Bromoform	75-25-2		ND	1.00	0.500

Certificate of Analysis

Analyte	CAS #	Result	Qual	RL	MDL
Bromomethane	74-83-9		ND	1.00	0.500
2-Butanone	78-93-3		ND	10.0	2.50
n-Butylbenzene	104-51-8		ND	1.00	0.250
sec-Butylbenzene	135-98-8		ND	1.00	0.250
tert-Butylbenzene	98-06-6		ND	1.00	0.250
Carbon disulfide	75-15-0	3.11		1.00	0.500
Carbon tetrachloride	56-23-5		ND	1.00	0.250
Chlorobenzene	108-90-7		ND	1.00	0.125
Chlorodibromomethane	124-48-1		ND	1.00	0.250
Chloroethane	75-00-3		ND	1.00	0.500
2-Chloroethyl vinyl ether	110-75-8		ND	10.0	2.00
Chloroform	67-66-3		ND	1.00	0.125
Chloromethane	74-87-3		ND	1.00	0.500
2-Chlorotoluene	95-49-8		ND	1.00	0.125
4-Chlorotoluene	106-43-4		ND	1.00	0.250
1,2-Dibromo-3-chloropropane	96-12-8		ND	5.00	1.00
1,2-Dibromoethane	106-93-4		ND	1.00	0.250
Dibromomethane	74-95-3		ND	1.00	0.250
1,2-Dichlorobenzene	95-50-1		ND	1.00	0.125
1,3-Dichlorobenzene	541-73-1		ND	1.00	0.250
1,4-Dichlorobenzene	106-46-7		ND	1.00	0.125
Dichlorodifluoromethane	75-71-8		ND	1.00	0.250
1,1-Dichloroethane	75-34-3	0.444	J	1.00	0.125
1,2-Dichloroethane	107-06-2		ND	1.00	0.250
1,1-Dichloroethene	75-35-4	1.34		1.00	0.500
cis-1,2-Dichloroethene	156-59-2	0.311	J	1.00	0.250
trans-1,2-Dichloroethene	156-60-5		ND	1.00	0.250
1,2-Dichloropropane	78-87-5		ND	1.00	0.200
1,3-Dichloropropane	142-28-9		ND	1.00	0.200
2,2-Dichloropropane	594-20-7		ND	1.00	0.250
cis-1,3-Dichloropropene	10061-01-5		ND	1.00	0.250
trans-1,3-Dichloropropene	10061-02-6		ND	1.00	0.500
1,1-Dichloropropene	563-58-6		ND	1.00	0.250
Ethylbenzene	100-41-4		ND	1.00	0.250
2-Hexanone	591-78-6		ND	10.0	2.50
Hexachlorobutadiene	87-68-3		ND	1.00	0.250
Isopropylbenzene	98-82-8		ND	1.00	0.250
p-Isopropyltoluene	99-87-6	2.02		1.00	0.250
4-Methyl-2-pentanone	108-10-1		ND	10.0	2.50

Certificate of Analysis

Analyte	CAS #	Result	Qual	RL	MDL
Methylene chloride	75-09-2		ND	5.00	0.250
Naphthalene	91-20-3		ND	1.00	0.200
n-Propylbenzene	103-65-1		ND	1.00	0.125
Styrene	100-42-5		ND	1.00	0.125
1,1,1,2-Tetrachloroethane	630-20-6		ND	1.00	0.250
1,1,2,2-Tetrachloroethane	79-34-5		ND	1.00	0.200
Tetrachloroethene	127-18-4	60.5		1.00	0.250
Toluene	108-88-3		ND	1.00	0.250
1,2,3-Trichlorobenzene	87-61-6		ND	1.00	0.150
1,2,4-Trichlorobenzene	120-82-1		ND	1.00	0.200
1,1,1-Trichloroethane	71-55-6		ND	1.00	0.250
1,1,2-Trichloroethane	79-00-5		ND	1.00	0.250
Trichloroethene	79-01-6	5.99		1.00	0.250
Trichlorofluoromethane	75-69-4		ND	1.00	0.250
1,2,3-Trichloropropane	96-18-4		ND	1.00	0.500
1,2,4-Trimethylbenzene	95-63-6		ND	1.00	0.250
1,3,5-Trimethylbenzene	108-67-8		ND	1.00	0.250
Vinyl acetate	108-05-4		ND	10.0	2.50
Vinyl chloride	75-01-4		ND	1.00	0.250
o-Xylene	95-47-6		ND	1.00	0.250
m-,p-Xylene	179601-23-1		ND	1.00	0.500
Surrogate	Recovery	Lower Limit	Upper Limit	Q	
Dibromofluoromethane	99.5	86	118		
1,2-Dichloroethane-d4	99.3	80	120		
Toluene-d8	100	88	110		
4-Bromofluorobenzene	102	86	115		
J	Estimated value; the analyte concentration was less than the RL/LOQ.				
ND	Not detected at or above the reporting limit (RL).				

Sample #: L12070658-13

PrePrep Method: N/A

Instrument: HPMS10

Client ID: TRIP BLANK 16JULY2012

Prep Method: 5030B/5030C/5035A

Prep Date: N/A

Matrix: Water

Analytical Method: 8260B

Cal Date: 06/26/2012 15:11

Workgroup #: WG404058

Analyst: MES

Run Date: 07/21/2012 19:08

Collect Date: 07/16/2012 00:01

Dilution: 1

File ID: 10M97163

Sample Tag: 01

Units: ug/L

Analyte	CAS #	Result	Qual	RL	MDL
Acetone	67-64-1		ND	10.0	2.50
Benzene	71-43-2		ND	1.00	0.125
Bromobenzene	108-86-1		ND	1.00	0.125

Certificate of Analysis

Analyte	CAS #	Result	Qual	RL	MDL
Bromochloromethane	74-97-5		ND	1.00	0.200
Bromodichloromethane	75-27-4		ND	1.00	0.250
Bromoform	75-25-2		ND	1.00	0.500
Bromomethane	74-83-9		ND	1.00	0.500
2-Butanone	78-93-3		ND	10.0	2.50
n-Butylbenzene	104-51-8		ND	1.00	0.250
sec-Butylbenzene	135-98-8		ND	1.00	0.250
tert-Butylbenzene	98-06-6		ND	1.00	0.250
Carbon disulfide	75-15-0		ND	1.00	0.500
Carbon tetrachloride	56-23-5		ND	1.00	0.250
Chlorobenzene	108-90-7		ND	1.00	0.125
Chlorodibromomethane	124-48-1		ND	1.00	0.250
Chloroethane	75-00-3		ND	1.00	0.500
2-Chloroethyl vinyl ether	110-75-8		ND	10.0	2.00
Chloroform	67-66-3		ND	1.00	0.125
Chloromethane	74-87-3		ND	1.00	0.500
2-Chlorotoluene	95-49-8		ND	1.00	0.125
4-Chlorotoluene	106-43-4		ND	1.00	0.250
1,2-Dibromo-3-chloropropane	96-12-8		ND	5.00	1.00
1,2-Dibromoethane	106-93-4		ND	1.00	0.250
Dibromomethane	74-95-3		ND	1.00	0.250
1,2-Dichlorobenzene	95-50-1		ND	1.00	0.125
1,3-Dichlorobenzene	541-73-1		ND	1.00	0.250
1,4-Dichlorobenzene	106-46-7		ND	1.00	0.125
Dichlorodifluoromethane	75-71-8		ND	1.00	0.250
1,1-Dichloroethane	75-34-3		ND	1.00	0.125
1,2-Dichloroethane	107-06-2		ND	1.00	0.250
1,1-Dichloroethene	75-35-4		ND	1.00	0.500
cis-1,2-Dichloroethene	156-59-2		ND	1.00	0.250
trans-1,2-Dichloroethene	156-60-5		ND	1.00	0.250
1,2-Dichloropropane	78-87-5		ND	1.00	0.200
1,3-Dichloropropane	142-28-9		ND	1.00	0.200
2,2-Dichloropropane	594-20-7		ND	1.00	0.250
cis-1,3-Dichloropropene	10061-01-5		ND	1.00	0.250
trans-1,3-Dichloropropene	10061-02-6		ND	1.00	0.500
1,1-Dichloropropene	563-58-6		ND	1.00	0.250
Ethylbenzene	100-41-4		ND	1.00	0.250
2-Hexanone	591-78-6		ND	10.0	2.50
Hexachlorobutadiene	87-68-3		ND	1.00	0.250

Certificate of Analysis

Analyte	CAS #	Result	Qual	RL	MDL
Isopropylbenzene	98-82-8		ND	1.00	0.250
p-Isopropyltoluene	99-87-6		ND	1.00	0.250
4-Methyl-2-pentanone	108-10-1		ND	10.0	2.50
Methylene chloride	75-09-2		ND	5.00	0.250
Naphthalene	91-20-3		ND	1.00	0.200
n-Propylbenzene	103-65-1		ND	1.00	0.125
Styrene	100-42-5		ND	1.00	0.125
1,1,1,2-Tetrachloroethane	630-20-6		ND	1.00	0.250
1,1,1,2-Tetrachloroethane	79-34-5		ND	1.00	0.200
Tetrachloroethene	127-18-4		ND	1.00	0.250
Toluene	108-88-3		ND	1.00	0.250
1,2,3-Trichlorobenzene	87-61-6		ND	1.00	0.150
1,2,4-Trichlorobenzene	120-82-1		ND	1.00	0.200
1,1,1-Trichloroethane	71-55-6		ND	1.00	0.250
1,1,2-Trichloroethane	79-00-5		ND	1.00	0.250
Trichloroethene	79-01-6		ND	1.00	0.250
Trichlorofluoromethane	75-69-4		ND	1.00	0.250
1,2,3-Trichloropropane	96-18-4		ND	1.00	0.500
1,2,4-Trimethylbenzene	95-63-6		ND	1.00	0.250
1,3,5-Trimethylbenzene	108-67-8		ND	1.00	0.250
Vinyl acetate	108-05-4		ND	10.0	2.50
Vinyl chloride	75-01-4		ND	1.00	0.250
o-Xylene	95-47-6		ND	1.00	0.250
m-,p-Xylene	179601-23-1		ND	1.00	0.500
Surrogate	Recovery	Lower Limit	Upper Limit	Q	
Dibromofluoromethane	98.0	86	118		
1,2-Dichloroethane-d4	101	80	120		
Toluene-d8	101	88	110		
4-Bromofluorobenzene	104	86	115		
ND	Not detected at or above the reporting limit (RL).				

Sample #: L12070658-14

PrePrep Method: N/A

Instrument: HPMS10

Client ID: 35B WW05

Prep Method: 5030B/5030C/5035A

Prep Date: N/A

Matrix: Water

Analytical Method: 8260B

Cal Date: 06/26/2012 15:11

Workgroup #: WG404058

Analyst: MES

Run Date: 07/21/2012 22:34

Collect Date: 07/16/2012 10:45

Dilution: 1

File ID: 10M97170

Sample Tag: 01

Units: ug/L

Analyte	CAS #	Result	Qual	RL	MDL
Acetone	67-64-1		ND	10.0	2.50

Certificate of Analysis

Analyte	CAS #	Result	Qual	RL	MDL
Benzene	71-43-2		ND	1.00	0.125
Bromobenzene	108-86-1		ND	1.00	0.125
Bromochloromethane	74-97-5		ND	1.00	0.200
Bromodichloromethane	75-27-4		ND	1.00	0.250
Bromoform	75-25-2		ND	1.00	0.500
Bromomethane	74-83-9		ND	1.00	0.500
2-Butanone	78-93-3		ND	10.0	2.50
n-Butylbenzene	104-51-8		ND	1.00	0.250
sec-Butylbenzene	135-98-8		ND	1.00	0.250
tert-Butylbenzene	98-06-6		ND	1.00	0.250
Carbon disulfide	75-15-0		ND	1.00	0.500
Carbon tetrachloride	56-23-5		ND	1.00	0.250
Chlorobenzene	108-90-7		ND	1.00	0.125
Chlorodibromomethane	124-48-1		ND	1.00	0.250
Chloroethane	75-00-3		ND	1.00	0.500
2-Chloroethyl vinyl ether	110-75-8		ND	10.0	2.00
Chloroform	67-66-3		ND	1.00	0.125
Chloromethane	74-87-3		ND	1.00	0.500
2-Chlorotoluene	95-49-8		ND	1.00	0.125
4-Chlorotoluene	106-43-4		ND	1.00	0.250
1,2-Dibromo-3-chloropropane	96-12-8		ND	5.00	1.00
1,2-Dibromoethane	106-93-4		ND	1.00	0.250
Dibromomethane	74-95-3		ND	1.00	0.250
1,2-Dichlorobenzene	95-50-1		ND	1.00	0.125
1,3-Dichlorobenzene	541-73-1		ND	1.00	0.250
1,4-Dichlorobenzene	106-46-7		ND	1.00	0.125
Dichlorodifluoromethane	75-71-8		ND	1.00	0.250
1,1-Dichloroethane	75-34-3		ND	1.00	0.125
1,2-Dichloroethane	107-06-2		ND	1.00	0.250
1,1-Dichloroethene	75-35-4		ND	1.00	0.500
cis-1,2-Dichloroethene	156-59-2		ND	1.00	0.250
trans-1,2-Dichloroethene	156-60-5		ND	1.00	0.250
1,2-Dichloropropane	78-87-5		ND	1.00	0.200
1,3-Dichloropropane	142-28-9		ND	1.00	0.200
2,2-Dichloropropane	594-20-7		ND	1.00	0.250
cis-1,3-Dichloropropene	10061-01-5		ND	1.00	0.250
trans-1,3-Dichloropropene	10061-02-6		ND	1.00	0.500
1,1-Dichloropropene	563-58-6		ND	1.00	0.250
Ethylbenzene	100-41-4		ND	1.00	0.250

Certificate of Analysis

Analyte	CAS #	Result	Qual	RL	MDL
2-Hexanone	591-78-6		ND	10.0	2.50
Hexachlorobutadiene	87-68-3		ND	1.00	0.250
Isopropylbenzene	98-82-8		ND	1.00	0.250
p-Isopropyltoluene	99-87-6		ND	1.00	0.250
4-Methyl-2-pentanone	108-10-1		ND	10.0	2.50
Methylene chloride	75-09-2		ND	5.00	0.250
Naphthalene	91-20-3		ND	1.00	0.200
n-Propylbenzene	103-65-1		ND	1.00	0.125
Styrene	100-42-5		ND	1.00	0.125
1,1,1,2-Tetrachloroethane	630-20-6		ND	1.00	0.250
1,1,2,2-Tetrachloroethane	79-34-5		ND	1.00	0.200
Tetrachloroethene	127-18-4	1.09		1.00	0.250
Toluene	108-88-3		ND	1.00	0.250
1,2,3-Trichlorobenzene	87-61-6		ND	1.00	0.150
1,2,4-Trichlorobenzene	120-82-1		ND	1.00	0.200
1,1,1-Trichloroethane	71-55-6		ND	1.00	0.250
1,1,2-Trichloroethane	79-00-5		ND	1.00	0.250
Trichloroethene	79-01-6	13.5		1.00	0.250
Trichlorofluoromethane	75-69-4		ND	1.00	0.250
1,2,3-Trichloropropane	96-18-4		ND	1.00	0.500
1,2,4-Trimethylbenzene	95-63-6		ND	1.00	0.250
1,3,5-Trimethylbenzene	108-67-8		ND	1.00	0.250
Vinyl acetate	108-05-4		ND	10.0	2.50
Vinyl chloride	75-01-4		ND	1.00	0.250
o-Xylene	95-47-6		ND	1.00	0.250
m-, p-Xylene	179601-23-1		ND	1.00	0.500
Surrogate	Recovery	Lower Limit	Upper Limit	Q	
Dibromofluoromethane	98.7	86	118		
1,2-Dichloroethane-d4	96.1	80	120		
Toluene-d8	101	88	110		
4-Bromofluorobenzene	105	86	115		
ND	Not detected at or above the reporting limit (RL).				

Sample #: L12070658-15

PrePrep Method: N/A

Instrument: HPMS10

Client ID: MW1-1

Prep Method: 5030B/5030C/5035A

Prep Date: N/A

Matrix: Water

Analytical Method: 8260B

Cal Date: 06/26/2012 15:11

Workgroup #: WG404058

Analyst: MES

Run Date: 07/21/2012 23:03

Collect Date: 07/16/2012 12:00

Dilution: 1

File ID: 10M97171

Sample Tag: 01

Units: ug/L

Certificate of Analysis

Analyte	CAS #	Result	Qual	RL	MDL
Acetone	67-64-1		ND	10.0	2.50
Benzene	71-43-2		ND	1.00	0.125
Bromobenzene	108-86-1		ND	1.00	0.125
Bromochloromethane	74-97-5		ND	1.00	0.200
Bromodichloromethane	75-27-4		ND	1.00	0.250
Bromoform	75-25-2		ND	1.00	0.500
Bromomethane	74-83-9		ND	1.00	0.500
2-Butanone	78-93-3		ND	10.0	2.50
n-Butylbenzene	104-51-8		ND	1.00	0.250
sec-Butylbenzene	135-98-8		ND	1.00	0.250
tert-Butylbenzene	98-06-6		ND	1.00	0.250
Carbon disulfide	75-15-0		ND	1.00	0.500
Carbon tetrachloride	56-23-5		ND	1.00	0.250
Chlorobenzene	108-90-7		ND	1.00	0.125
Chlorodibromomethane	124-48-1		ND	1.00	0.250
Chloroethane	75-00-3		ND	1.00	0.500
2-Chloroethyl vinyl ether	110-75-8		ND	10.0	2.00
Chloroform	67-66-3		ND	1.00	0.125
Chloromethane	74-87-3		ND	1.00	0.500
2-Chlorotoluene	95-49-8		ND	1.00	0.125
4-Chlorotoluene	106-43-4		ND	1.00	0.250
1,2-Dibromo-3-chloropropane	96-12-8		ND	5.00	1.00
1,2-Dibromoethane	106-93-4		ND	1.00	0.250
Dibromomethane	74-95-3		ND	1.00	0.250
1,2-Dichlorobenzene	95-50-1		ND	1.00	0.125
1,3-Dichlorobenzene	541-73-1		ND	1.00	0.250
1,4-Dichlorobenzene	106-46-7		ND	1.00	0.125
Dichlorodifluoromethane	75-71-8		ND	1.00	0.250
1,1-Dichloroethane	75-34-3		ND	1.00	0.125
1,2-Dichloroethane	107-06-2		ND	1.00	0.250
1,1-Dichloroethene	75-35-4		ND	1.00	0.500
cis-1,2-Dichloroethene	156-59-2		ND	1.00	0.250
trans-1,2-Dichloroethene	156-60-5		ND	1.00	0.250
1,2-Dichloropropane	78-87-5		ND	1.00	0.200
1,3-Dichloropropane	142-28-9		ND	1.00	0.200
2,2-Dichloropropane	594-20-7		ND	1.00	0.250
cis-1,3-Dichloropropene	10061-01-5		ND	1.00	0.250
trans-1,3-Dichloropropene	10061-02-6		ND	1.00	0.500
1,1-Dichloropropene	563-58-6		ND	1.00	0.250

Certificate of Analysis

Analyte	CAS #	Result	Qual	RL	MDL
Ethylbenzene	100-41-4		ND	1.00	0.250
2-Hexanone	591-78-6		ND	10.0	2.50
Hexachlorobutadiene	87-68-3		ND	1.00	0.250
Isopropylbenzene	98-82-8		ND	1.00	0.250
p-Isopropyltoluene	99-87-6		ND	1.00	0.250
4-Methyl-2-pentanone	108-10-1		ND	10.0	2.50
Methylene chloride	75-09-2		ND	5.00	0.250
Naphthalene	91-20-3		ND	1.00	0.200
n-Propylbenzene	103-65-1		ND	1.00	0.125
Styrene	100-42-5		ND	1.00	0.125
1,1,1,2-Tetrachloroethane	630-20-6		ND	1.00	0.250
1,1,1,2,2-Tetrachloroethane	79-34-5		ND	1.00	0.200
Tetrachloroethene	127-18-4		ND	1.00	0.250
Toluene	108-88-3		ND	1.00	0.250
1,2,3-Trichlorobenzene	87-61-6		ND	1.00	0.150
1,2,4-Trichlorobenzene	120-82-1		ND	1.00	0.200
1,1,1-Trichloroethane	71-55-6		ND	1.00	0.250
1,1,2-Trichloroethane	79-00-5		ND	1.00	0.250
Trichloroethene	79-01-6	16.8		1.00	0.250
Trichlorofluoromethane	75-69-4		ND	1.00	0.250
1,2,3-Trichloropropane	96-18-4		ND	1.00	0.500
1,2,4-Trimethylbenzene	95-63-6		ND	1.00	0.250
1,3,5-Trimethylbenzene	108-67-8		ND	1.00	0.250
Vinyl acetate	108-05-4		ND	10.0	2.50
Vinyl chloride	75-01-4		ND	1.00	0.250
o-Xylene	95-47-6		ND	1.00	0.250
m-,p-Xylene	179601-23-1		ND	1.00	0.500
Surrogate	Recovery	Lower Limit	Upper Limit	Q	
Dibromofluoromethane	99.2	86	118		
1,2-Dichloroethane-d4	96.7	80	120		
Toluene-d8	102	88	110		
4-Bromofluorobenzene	105	86	115		
ND	Not detected at or above the reporting limit (RL).				

Certificate of Analysis

Sample #: L12070658-16	PrePrep Method: N/A	Instrument: HPMS10
Client ID: MW1-2	Prep Method: 5030B/5030C/5035A	Prep Date: N/A
Matrix: Water	Analytical Method: 8260B	Cal Date: 06/26/2012 15:11
Workgroup #: WG404058	Analyst: MES	Run Date: 07/21/2012 23:32
Collect Date: 07/16/2012 13:20	Dilution: 1	File ID: 10M97172
Sample Tag: 01	Units: ug/L	

Analyte	CAS #	Result	Qual	RL	MDL
Acetone	67-64-1		ND	10.0	2.50
Benzene	71-43-2		ND	1.00	0.125
Bromobenzene	108-86-1		ND	1.00	0.125
Bromochloromethane	74-97-5		ND	1.00	0.200
Bromodichloromethane	75-27-4		ND	1.00	0.250
Bromoform	75-25-2		ND	1.00	0.500
Bromomethane	74-83-9		ND	1.00	0.500
2-Butanone	78-93-3		ND	10.0	2.50
n-Butylbenzene	104-51-8		ND	1.00	0.250
sec-Butylbenzene	135-98-8		ND	1.00	0.250
tert-Butylbenzene	98-06-6		ND	1.00	0.250
Carbon disulfide	75-15-0		ND	1.00	0.500
Carbon tetrachloride	56-23-5		ND	1.00	0.250
Chlorobenzene	108-90-7		ND	1.00	0.125
Chlorodibromomethane	124-48-1		ND	1.00	0.250
Chloroethane	75-00-3		ND	1.00	0.500
2-Chloroethyl vinyl ether	110-75-8		ND	10.0	2.00
Chloroform	67-66-3		ND	1.00	0.125
Chloromethane	74-87-3		ND	1.00	0.500
2-Chlorotoluene	95-49-8		ND	1.00	0.125
4-Chlorotoluene	106-43-4		ND	1.00	0.250
1,2-Dibromo-3-chloropropane	96-12-8		ND	5.00	1.00
1,2-Dibromoethane	106-93-4		ND	1.00	0.250
Dibromomethane	74-95-3		ND	1.00	0.250
1,2-Dichlorobenzene	95-50-1		ND	1.00	0.125
1,3-Dichlorobenzene	541-73-1		ND	1.00	0.250
1,4-Dichlorobenzene	106-46-7		ND	1.00	0.125
Dichlorodifluoromethane	75-71-8		ND	1.00	0.250
1,1-Dichloroethane	75-34-3		ND	1.00	0.125
1,2-Dichloroethane	107-06-2		ND	1.00	0.250
1,1-Dichloroethene	75-35-4		ND	1.00	0.500
cis-1,2-Dichloroethene	156-59-2		ND	1.00	0.250
trans-1,2-Dichloroethene	156-60-5		ND	1.00	0.250

Certificate of Analysis

Analyte	CAS #	Result	Qual	RL	MDL
1,2-Dichloropropane	78-87-5		ND	1.00	0.200
1,3-Dichloropropane	142-28-9		ND	1.00	0.200
2,2-Dichloropropane	594-20-7		ND	1.00	0.250
cis-1,3-Dichloropropene	10061-01-5		ND	1.00	0.250
trans-1,3-Dichloropropene	10061-02-6		ND	1.00	0.500
1,1-Dichloropropene	563-58-6		ND	1.00	0.250
Ethylbenzene	100-41-4		ND	1.00	0.250
2-Hexanone	591-78-6		ND	10.0	2.50
Hexachlorobutadiene	87-68-3		ND	1.00	0.250
Isopropylbenzene	98-82-8		ND	1.00	0.250
p-Isopropyltoluene	99-87-6		ND	1.00	0.250
4-Methyl-2-pentanone	108-10-1		ND	10.0	2.50
Methylene chloride	75-09-2		ND	5.00	0.250
Naphthalene	91-20-3		ND	1.00	0.200
n-Propylbenzene	103-65-1		ND	1.00	0.125
Styrene	100-42-5		ND	1.00	0.125
1,1,1,2-Tetrachloroethane	630-20-6		ND	1.00	0.250
1,1,1,2-Tetrachloroethane	79-34-5		ND	1.00	0.200
Tetrachloroethene	127-18-4		ND	1.00	0.250
Toluene	108-88-3		ND	1.00	0.250
1,2,3-Trichlorobenzene	87-61-6		ND	1.00	0.150
1,2,4-Trichlorobenzene	120-82-1		ND	1.00	0.200
1,1,1-Trichloroethane	71-55-6		ND	1.00	0.250
1,1,2-Trichloroethane	79-00-5		ND	1.00	0.250
Trichloroethene	79-01-6	8.66		1.00	0.250
Trichlorofluoromethane	75-69-4		ND	1.00	0.250
1,2,3-Trichloropropane	96-18-4		ND	1.00	0.500
1,2,4-Trimethylbenzene	95-63-6		ND	1.00	0.250
1,3,5-Trimethylbenzene	108-67-8		ND	1.00	0.250
Vinyl acetate	108-05-4		ND	10.0	2.50
Vinyl chloride	75-01-4		ND	1.00	0.250
o-Xylene	95-47-6		ND	1.00	0.250
m-,p-Xylene	179601-23-1		ND	1.00	0.500
Surrogate	Recovery	Lower Limit	Upper Limit	Q	
Dibromofluoromethane	99.7	86	118		
1,2-Dichloroethane-d4	98.4	80	120		
Toluene-d8	103	88	110		
4-Bromofluorobenzene	105	86	115		
ND	Not detected at or above the reporting limit (RL).				

Certificate of Analysis

Sample #: L12070658-17	PrePrep Method: N/A	Instrument: HPMS10
Client ID: MW1-3	Prep Method: 5030B/5030C/5035A	Prep Date: N/A
Matrix: Water	Analytical Method: 8260B	Cal Date: 06/26/2012 15:11
Workgroup #: WG404058	Analyst: MES	Run Date: 07/22/2012 00:02
Collect Date: 07/16/2012 14:00	Dilution: 1	File ID: 10M97173
Sample Tag: 01	Units: ug/L	

Analyte	CAS #	Result	Qual	RL	MDL
Acetone	67-64-1		ND	10.0	2.50
Benzene	71-43-2		ND	1.00	0.125
Bromobenzene	108-86-1		ND	1.00	0.125
Bromochloromethane	74-97-5		ND	1.00	0.200
Bromodichloromethane	75-27-4		ND	1.00	0.250
Bromoform	75-25-2		ND	1.00	0.500
Bromomethane	74-83-9		ND	1.00	0.500
2-Butanone	78-93-3		ND	10.0	2.50
n-Butylbenzene	104-51-8		ND	1.00	0.250
sec-Butylbenzene	135-98-8		ND	1.00	0.250
tert-Butylbenzene	98-06-6		ND	1.00	0.250
Carbon disulfide	75-15-0		ND	1.00	0.500
Carbon tetrachloride	56-23-5		ND	1.00	0.250
Chlorobenzene	108-90-7		ND	1.00	0.125
Chlorodibromomethane	124-48-1		ND	1.00	0.250
Chloroethane	75-00-3		ND	1.00	0.500
2-Chloroethyl vinyl ether	110-75-8		ND	10.0	2.00
Chloroform	67-66-3		ND	1.00	0.125
Chloromethane	74-87-3		ND	1.00	0.500
2-Chlorotoluene	95-49-8		ND	1.00	0.125
4-Chlorotoluene	106-43-4		ND	1.00	0.250
1,2-Dibromo-3-chloropropane	96-12-8		ND	5.00	1.00
1,2-Dibromoethane	106-93-4		ND	1.00	0.250
Dibromomethane	74-95-3		ND	1.00	0.250
1,2-Dichlorobenzene	95-50-1		ND	1.00	0.125
1,3-Dichlorobenzene	541-73-1		ND	1.00	0.250
1,4-Dichlorobenzene	106-46-7		ND	1.00	0.125
Dichlorodifluoromethane	75-71-8		ND	1.00	0.250
1,1-Dichloroethane	75-34-3		ND	1.00	0.125
1,2-Dichloroethane	107-06-2		ND	1.00	0.250
1,1-Dichloroethene	75-35-4		ND	1.00	0.500
cis-1,2-Dichloroethene	156-59-2		ND	1.00	0.250
trans-1,2-Dichloroethene	156-60-5		ND	1.00	0.250

Certificate of Analysis

Analyte	CAS #	Result	Qual	RL	MDL
1,2-Dichloropropane	78-87-5		ND	1.00	0.200
1,3-Dichloropropane	142-28-9		ND	1.00	0.200
2,2-Dichloropropane	594-20-7		ND	1.00	0.250
cis-1,3-Dichloropropene	10061-01-5		ND	1.00	0.250
trans-1,3-Dichloropropene	10061-02-6		ND	1.00	0.500
1,1-Dichloropropene	563-58-6		ND	1.00	0.250
Ethylbenzene	100-41-4		ND	1.00	0.250
2-Hexanone	591-78-6		ND	10.0	2.50
Hexachlorobutadiene	87-68-3		ND	1.00	0.250
Isopropylbenzene	98-82-8		ND	1.00	0.250
p-Isopropyltoluene	99-87-6		ND	1.00	0.250
4-Methyl-2-pentanone	108-10-1		ND	10.0	2.50
Methylene chloride	75-09-2		ND	5.00	0.250
Naphthalene	91-20-3		ND	1.00	0.200
n-Propylbenzene	103-65-1		ND	1.00	0.125
Styrene	100-42-5		ND	1.00	0.125
1,1,1,2-Tetrachloroethane	630-20-6		ND	1.00	0.250
1,1,1,2-Tetrachloroethane	79-34-5		ND	1.00	0.200
Tetrachloroethene	127-18-4		ND	1.00	0.250
Toluene	108-88-3		ND	1.00	0.250
1,2,3-Trichlorobenzene	87-61-6		ND	1.00	0.150
1,2,4-Trichlorobenzene	120-82-1		ND	1.00	0.200
1,1,1-Trichloroethane	71-55-6		ND	1.00	0.250
1,1,2-Trichloroethane	79-00-5		ND	1.00	0.250
Trichloroethene	79-01-6	2.80		1.00	0.250
Trichlorofluoromethane	75-69-4		ND	1.00	0.250
1,2,3-Trichloropropane	96-18-4		ND	1.00	0.500
1,2,4-Trimethylbenzene	95-63-6		ND	1.00	0.250
1,3,5-Trimethylbenzene	108-67-8		ND	1.00	0.250
Vinyl acetate	108-05-4		ND	10.0	2.50
Vinyl chloride	75-01-4		ND	1.00	0.250
o-Xylene	95-47-6		ND	1.00	0.250
m-,p-Xylene	179601-23-1		ND	1.00	0.500
Surrogate	Recovery	Lower Limit	Upper Limit	Q	
Dibromofluoromethane	99.6	86	118		
1,2-Dichloroethane-d4	99.7	80	120		
Toluene-d8	104	88	110		
4-Bromofluorobenzene	107	86	115		
ND	Not detected at or above the reporting limit (RL).				

Certificate of Analysis

Sample #: L12070658-18

PrePrep Method: N/A

Instrument: HPMS10

Client ID: 35B WW08

Prep Method: 5030B/5030C/5035A

Prep Date: N/A

Matrix: Water

Analytical Method: 8260B

Cal Date: 06/26/2012 15:11

Workgroup #: WG404058

Analyst: MES

Run Date: 07/22/2012 00:31

Collect Date: 07/16/2012 15:00

Dilution: 1

File ID: 10M97174

Sample Tag: 01

Units: ug/L

Analyte	CAS #	Result	Qual	RL	MDL
Acetone	67-64-1		ND	10.0	2.50
Benzene	71-43-2		ND	1.00	0.125
Bromobenzene	108-86-1		ND	1.00	0.125
Bromochloromethane	74-97-5		ND	1.00	0.200
Bromodichloromethane	75-27-4		ND	1.00	0.250
Bromoform	75-25-2		ND	1.00	0.500
Bromomethane	74-83-9		ND	1.00	0.500
2-Butanone	78-93-3		ND	10.0	2.50
n-Butylbenzene	104-51-8		ND	1.00	0.250
sec-Butylbenzene	135-98-8		ND	1.00	0.250
tert-Butylbenzene	98-06-6		ND	1.00	0.250
Carbon disulfide	75-15-0		ND	1.00	0.500
Carbon tetrachloride	56-23-5		ND	1.00	0.250
Chlorobenzene	108-90-7		ND	1.00	0.125
Chlorodibromomethane	124-48-1		ND	1.00	0.250
Chloroethane	75-00-3		ND	1.00	0.500
2-Chloroethyl vinyl ether	110-75-8		ND	10.0	2.00
Chloroform	67-66-3		ND	1.00	0.125
Chloromethane	74-87-3		ND	1.00	0.500
2-Chlorotoluene	95-49-8		ND	1.00	0.125
4-Chlorotoluene	106-43-4		ND	1.00	0.250
1,2-Dibromo-3-chloropropane	96-12-8		ND	5.00	1.00
1,2-Dibromoethane	106-93-4		ND	1.00	0.250
Dibromomethane	74-95-3		ND	1.00	0.250
1,2-Dichlorobenzene	95-50-1		ND	1.00	0.125
1,3-Dichlorobenzene	541-73-1		ND	1.00	0.250
1,4-Dichlorobenzene	106-46-7		ND	1.00	0.125
Dichlorodifluoromethane	75-71-8		ND	1.00	0.250
1,1-Dichloroethane	75-34-3		ND	1.00	0.125
1,2-Dichloroethane	107-06-2		ND	1.00	0.250
1,1-Dichloroethene	75-35-4		ND	1.00	0.500
cis-1,2-Dichloroethene	156-59-2	0.305	J	1.00	0.250
trans-1,2-Dichloroethene	156-60-5		ND	1.00	0.250

Certificate of Analysis

Analyte	CAS #	Result	Qual	RL	MDL
1,2-Dichloropropane	78-87-5		ND	1.00	0.200
1,3-Dichloropropane	142-28-9		ND	1.00	0.200
2,2-Dichloropropane	594-20-7		ND	1.00	0.250
cis-1,3-Dichloropropene	10061-01-5		ND	1.00	0.250
trans-1,3-Dichloropropene	10061-02-6		ND	1.00	0.500
1,1-Dichloropropene	563-58-6		ND	1.00	0.250
Ethylbenzene	100-41-4		ND	1.00	0.250
2-Hexanone	591-78-6		ND	10.0	2.50
Hexachlorobutadiene	87-68-3		ND	1.00	0.250
Isopropylbenzene	98-82-8		ND	1.00	0.250
p-Isopropyltoluene	99-87-6		ND	1.00	0.250
4-Methyl-2-pentanone	108-10-1		ND	10.0	2.50
Methylene chloride	75-09-2		ND	5.00	0.250
Naphthalene	91-20-3		ND	1.00	0.200
n-Propylbenzene	103-65-1		ND	1.00	0.125
Styrene	100-42-5		ND	1.00	0.125
1,1,1,2-Tetrachloroethane	630-20-6		ND	1.00	0.250
1,1,1,2-Tetrachloroethane	79-34-5		ND	1.00	0.200
Tetrachloroethene	127-18-4		ND	1.00	0.250
Toluene	108-88-3		ND	1.00	0.250
1,2,3-Trichlorobenzene	87-61-6		ND	1.00	0.150
1,2,4-Trichlorobenzene	120-82-1		ND	1.00	0.200
1,1,1-Trichloroethane	71-55-6		ND	1.00	0.250
1,1,2-Trichloroethane	79-00-5		ND	1.00	0.250
Trichloroethene	79-01-6	65.7		1.00	0.250
Trichlorofluoromethane	75-69-4		ND	1.00	0.250
1,2,3-Trichloropropane	96-18-4		ND	1.00	0.500
1,2,4-Trimethylbenzene	95-63-6		ND	1.00	0.250
1,3,5-Trimethylbenzene	108-67-8		ND	1.00	0.250
Vinyl acetate	108-05-4		ND	10.0	2.50
Vinyl chloride	75-01-4		ND	1.00	0.250
o-Xylene	95-47-6		ND	1.00	0.250
m-,p-Xylene	179601-23-1		ND	1.00	0.500
Surrogate	Recovery	Lower Limit	Upper Limit	Q	
Dibromofluoromethane	97.5	86	118		
1,2-Dichloroethane-d4	97.4	80	120		
Toluene-d8	102	88	110		
4-Bromofluorobenzene	104	86	115		
J	Estimated value; the analyte concentration was less than the RL/LOQ.				

Certificate of Analysis

ND	Not detected at or above the reporting limit (RL).
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Sample #: L12070658-19	PrePrep Method: N/A	Instrument: HPMS10
Client ID: 35B WW09	Prep Method: 5030B/5030C/5035A	Prep Date: N/A
Matrix: Water	Analytical Method: 8260B	Cal Date: 06/26/2012 15:11
Workgroup #: WG404058	Analyst: MES	Run Date: 07/22/2012 01:00
Collect Date: 07/16/2012 15:50	Dilution: 1	File ID: 10M97175
Sample Tag: 01	Units: ug/L	

Analyte	CAS #	Result	Qual	RL	MDL
Acetone	67-64-1		ND	10.0	2.50
Benzene	71-43-2		ND	1.00	0.125
Bromobenzene	108-86-1		ND	1.00	0.125
Bromochloromethane	74-97-5		ND	1.00	0.200
Bromodichloromethane	75-27-4		ND	1.00	0.250
Bromoform	75-25-2		ND	1.00	0.500
Bromomethane	74-83-9		ND	1.00	0.500
2-Butanone	78-93-3		ND	10.0	2.50
n-Butylbenzene	104-51-8		ND	1.00	0.250
sec-Butylbenzene	135-98-8		ND	1.00	0.250
tert-Butylbenzene	98-06-6		ND	1.00	0.250
Carbon disulfide	75-15-0		ND	1.00	0.500
Carbon tetrachloride	56-23-5		ND	1.00	0.250
Chlorobenzene	108-90-7		ND	1.00	0.125
Chlorodibromomethane	124-48-1		ND	1.00	0.250
Chloroethane	75-00-3		ND	1.00	0.500
2-Chloroethyl vinyl ether	110-75-8		ND	10.0	2.00
Chloroform	67-66-3		ND	1.00	0.125
Chloromethane	74-87-3		ND	1.00	0.500
2-Chlorotoluene	95-49-8		ND	1.00	0.125
4-Chlorotoluene	106-43-4		ND	1.00	0.250
1,2-Dibromo-3-chloropropane	96-12-8		ND	5.00	1.00
1,2-Dibromoethane	106-93-4		ND	1.00	0.250
Dibromomethane	74-95-3		ND	1.00	0.250
1,2-Dichlorobenzene	95-50-1		ND	1.00	0.125
1,3-Dichlorobenzene	541-73-1		ND	1.00	0.250
1,4-Dichlorobenzene	106-46-7		ND	1.00	0.125
Dichlorodifluoromethane	75-71-8		ND	1.00	0.250
1,1-Dichloroethane	75-34-3		ND	1.00	0.125
1,2-Dichloroethane	107-06-2		ND	1.00	0.250
1,1-Dichloroethene	75-35-4		ND	1.00	0.500

Certificate of Analysis

Analyte	CAS #	Result	Qual	RL	MDL
cis-1,2-Dichloroethene	156-59-2	0.380	J	1.00	0.250
trans-1,2-Dichloroethene	156-60-5		ND	1.00	0.250
1,2-Dichloropropane	78-87-5		ND	1.00	0.200
1,3-Dichloropropane	142-28-9		ND	1.00	0.200
2,2-Dichloropropane	594-20-7		ND	1.00	0.250
cis-1,3-Dichloropropene	10061-01-5		ND	1.00	0.250
trans-1,3-Dichloropropene	10061-02-6		ND	1.00	0.500
1,1-Dichloropropene	563-58-6		ND	1.00	0.250
Ethylbenzene	100-41-4		ND	1.00	0.250
2-Hexanone	591-78-6		ND	10.0	2.50
Hexachlorobutadiene	87-68-3		ND	1.00	0.250
Isopropylbenzene	98-82-8		ND	1.00	0.250
p-Isopropyltoluene	99-87-6		ND	1.00	0.250
4-Methyl-2-pentanone	108-10-1		ND	10.0	2.50
Methylene chloride	75-09-2		ND	5.00	0.250
Naphthalene	91-20-3		ND	1.00	0.200
n-Propylbenzene	103-65-1		ND	1.00	0.125
Styrene	100-42-5		ND	1.00	0.125
1,1,1,2-Tetrachloroethane	630-20-6		ND	1.00	0.250
1,1,1,2-Tetrachloroethane	79-34-5		ND	1.00	0.200
Tetrachloroethene	127-18-4		ND	1.00	0.250
Toluene	108-88-3		ND	1.00	0.250
1,2,3-Trichlorobenzene	87-61-6		ND	1.00	0.150
1,2,4-Trichlorobenzene	120-82-1		ND	1.00	0.200
1,1,1-Trichloroethane	71-55-6		ND	1.00	0.250
1,1,2-Trichloroethane	79-00-5		ND	1.00	0.250
Trichloroethene	79-01-6	55.6		1.00	0.250
Trichlorofluoromethane	75-69-4		ND	1.00	0.250
1,2,3-Trichloropropane	96-18-4		ND	1.00	0.500
1,2,4-Trimethylbenzene	95-63-6		ND	1.00	0.250
1,3,5-Trimethylbenzene	108-67-8		ND	1.00	0.250
Vinyl acetate	108-05-4		ND	10.0	2.50
Vinyl chloride	75-01-4		ND	1.00	0.250
o-Xylene	95-47-6		ND	1.00	0.250
m-, p-Xylene	179601-23-1		ND	1.00	0.500
Surrogate	Recovery	Lower Limit	Upper Limit	Q	
Dibromofluoromethane	97.9	86	118		
1,2-Dichloroethane-d4	96.9	80	120		
Toluene-d8	102	88	110		

Certificate of Analysis

4-Bromofluorobenzene	105	86	115	
J	Estimated value; the analyte concentration was less than the RL/LOQ.			
ND	Not detected at or above the reporting limit (RL).			

Sample #: L12070658-20

PrePrep Method: N/A

Instrument: HPMS8

Client ID: MW2-1

Prep Method: 5030B/5030C/5035A

Prep Date: N/A

Matrix: Water

Analytical Method: 8260B

Cal Date: 06/28/2012 23:13

Workgroup #: WG404914

Analyst: ADC

Run Date: 07/30/2012 15:15

Collect Date: 07/17/2012 08:55

Dilution: 1

File ID: 8M381198

Sample Tag: 02

Units: ug/L

Analyte	CAS #	Result	Qual	RL	MDL
Acetone	67-64-1		ND	10.0	2.50
Benzene	71-43-2		ND	1.00	0.125
Bromobenzene	108-86-1		ND	1.00	0.125
Bromochloromethane	74-97-5		ND	1.00	0.200
Bromodichloromethane	75-27-4		ND	1.00	0.250
Bromoform	75-25-2		ND	1.00	0.500
Bromomethane	74-83-9		ND	1.00	0.500
2-Butanone	78-93-3		ND	10.0	2.50
n-Butylbenzene	104-51-8		ND	1.00	0.250
sec-Butylbenzene	135-98-8		ND	1.00	0.250
tert-Butylbenzene	98-06-6		ND	1.00	0.250
Carbon disulfide	75-15-0		ND	1.00	0.500
Carbon tetrachloride	56-23-5		ND	1.00	0.250
Chlorobenzene	108-90-7		ND	1.00	0.125
Chlorodibromomethane	124-48-1		ND	1.00	0.250
Chloroethane	75-00-3		ND	1.00	0.500
2-Chloroethyl vinyl ether	110-75-8		ND	10.0	2.00
Chloroform	67-66-3		ND	1.00	0.125
Chloromethane	74-87-3		ND	1.00	0.500
2-Chlorotoluene	95-49-8		ND	1.00	0.125
4-Chlorotoluene	106-43-4		ND	1.00	0.250
1,2-Dibromo-3-chloropropane	96-12-8		ND	5.00	1.00
1,2-Dibromoethane	106-93-4		ND	1.00	0.250
Dibromomethane	74-95-3		ND	1.00	0.250
1,2-Dichlorobenzene	95-50-1		ND	1.00	0.125
1,3-Dichlorobenzene	541-73-1		ND	1.00	0.250
1,4-Dichlorobenzene	106-46-7		ND	1.00	0.125
Dichlorodifluoromethane	75-71-8		ND	1.00	0.250
1,1-Dichloroethane	75-34-3		ND	1.00	0.125

Certificate of Analysis

Analyte	CAS #	Result	Qual	RL	MDL
1,2-Dichloroethane	107-06-2		ND	1.00	0.250
1,1-Dichloroethene	75-35-4		ND	1.00	0.500
cis-1,2-Dichloroethene	156-59-2		ND	1.00	0.250
trans-1,2-Dichloroethene	156-60-5		ND	1.00	0.250
1,2-Dichloropropane	78-87-5		ND	1.00	0.200
1,3-Dichloropropane	142-28-9		ND	1.00	0.200
2,2-Dichloropropane	594-20-7		ND	1.00	0.250
cis-1,3-Dichloropropene	10061-01-5		ND	1.00	0.250
trans-1,3-Dichloropropene	10061-02-6		ND	1.00	0.500
1,1-Dichloropropene	563-58-6		ND	1.00	0.250
Ethylbenzene	100-41-4		ND	1.00	0.250
2-Hexanone	591-78-6		ND	10.0	2.50
Hexachlorobutadiene	87-68-3		ND	1.00	0.250
Isopropylbenzene	98-82-8		ND	1.00	0.250
p-Isopropyltoluene	99-87-6		ND	1.00	0.250
4-Methyl-2-pentanone	108-10-1		ND	10.0	2.50
Methylene chloride	75-09-2		ND	5.00	0.250
Naphthalene	91-20-3		ND	1.00	0.200
n-Propylbenzene	103-65-1		ND	1.00	0.125
Styrene	100-42-5		ND	1.00	0.125
1,1,1,2-Tetrachloroethane	630-20-6		ND	1.00	0.250
1,1,1,2,2-Tetrachloroethane	79-34-5		ND	1.00	0.200
Tetrachloroethene	127-18-4	2.65		1.00	0.250
Toluene	108-88-3		ND	1.00	0.250
1,2,3-Trichlorobenzene	87-61-6		ND	1.00	0.150
1,2,4-Trichlorobenzene	120-82-1		ND	1.00	0.200
1,1,1-Trichloroethane	71-55-6		ND	1.00	0.250
1,1,2-Trichloroethane	79-00-5		ND	1.00	0.250
Trichloroethene	79-01-6	4.59		1.00	0.250
Trichlorofluoromethane	75-69-4		ND	1.00	0.250
1,2,3-Trichloropropane	96-18-4		ND	1.00	0.500
1,2,4-Trimethylbenzene	95-63-6		ND	1.00	0.250
1,3,5-Trimethylbenzene	108-67-8		ND	1.00	0.250
Vinyl acetate	108-05-4		ND	10.0	2.50
Vinyl chloride	75-01-4		ND	1.00	0.250
o-Xylene	95-47-6		ND	1.00	0.250
m-,p-Xylene	179601-23-1		ND	1.00	0.500
Surrogate	Recovery	Lower Limit	Upper Limit	Q	
Dibromofluoromethane	97.2	86	118		

Certificate of Analysis

1,2-Dichloroethane-d4	83.0	80	120	
Toluene-d8	102	88	110	
4-Bromofluorobenzene	102	86	115	
ND	Not detected at or above the reporting limit (RL).			

Sample #: L12070658-21

PrePrep Method: N/A

Instrument: HPMS10

Client ID: TRIP BLANK 17JULY2012

Prep Method: 5030B/5030C/5035A

Prep Date: N/A

Matrix: Water

Analytical Method: 8260B

Cal Date: 06/26/2012 15:11

Workgroup #: WG404058

Analyst: MES

Run Date: 07/21/2012 19:38

Collect Date: 07/17/2012 00:01

Dilution: 1

File ID: 10M97164

Sample Tag: 01

Units: ug/L

Analyte	CAS #	Result	Qual	RL	MDL
Acetone	67-64-1		ND	10.0	2.50
Benzene	71-43-2		ND	1.00	0.125
Bromobenzene	108-86-1		ND	1.00	0.125
Bromochloromethane	74-97-5		ND	1.00	0.200
Bromodichloromethane	75-27-4		ND	1.00	0.250
Bromoform	75-25-2		ND	1.00	0.500
Bromomethane	74-83-9		ND	1.00	0.500
2-Butanone	78-93-3		ND	10.0	2.50
n-Butylbenzene	104-51-8		ND	1.00	0.250
sec-Butylbenzene	135-98-8		ND	1.00	0.250
tert-Butylbenzene	98-06-6		ND	1.00	0.250
Carbon disulfide	75-15-0		ND	1.00	0.500
Carbon tetrachloride	56-23-5		ND	1.00	0.250
Chlorobenzene	108-90-7		ND	1.00	0.125
Chlorodibromomethane	124-48-1		ND	1.00	0.250
Chloroethane	75-00-3		ND	1.00	0.500
2-Chloroethyl vinyl ether	110-75-8		ND	10.0	2.00
Chloroform	67-66-3		ND	1.00	0.125
Chloromethane	74-87-3		ND	1.00	0.500
2-Chlorotoluene	95-49-8		ND	1.00	0.125
4-Chlorotoluene	106-43-4		ND	1.00	0.250
1,2-Dibromo-3-chloropropane	96-12-8		ND	5.00	1.00
1,2-Dibromoethane	106-93-4		ND	1.00	0.250
Dibromomethane	74-95-3		ND	1.00	0.250
1,2-Dichlorobenzene	95-50-1		ND	1.00	0.125
1,3-Dichlorobenzene	541-73-1		ND	1.00	0.250
1,4-Dichlorobenzene	106-46-7		ND	1.00	0.125
Dichlorodifluoromethane	75-71-8		ND	1.00	0.250

Certificate of Analysis

Analyte	CAS #	Result	Qual	RL	MDL
1,1-Dichloroethane	75-34-3		ND	1.00	0.125
1,2-Dichloroethane	107-06-2		ND	1.00	0.250
1,1-Dichloroethene	75-35-4		ND	1.00	0.500
cis-1,2-Dichloroethene	156-59-2		ND	1.00	0.250
trans-1,2-Dichloroethene	156-60-5		ND	1.00	0.250
1,2-Dichloropropane	78-87-5		ND	1.00	0.200
1,3-Dichloropropane	142-28-9		ND	1.00	0.200
2,2-Dichloropropane	594-20-7		ND	1.00	0.250
cis-1,3-Dichloropropene	10061-01-5		ND	1.00	0.250
trans-1,3-Dichloropropene	10061-02-6		ND	1.00	0.500
1,1-Dichloropropene	563-58-6		ND	1.00	0.250
Ethylbenzene	100-41-4		ND	1.00	0.250
2-Hexanone	591-78-6		ND	10.0	2.50
Hexachlorobutadiene	87-68-3		ND	1.00	0.250
Isopropylbenzene	98-82-8		ND	1.00	0.250
p-Isopropyltoluene	99-87-6		ND	1.00	0.250
4-Methyl-2-pentanone	108-10-1		ND	10.0	2.50
Methylene chloride	75-09-2		ND	5.00	0.250
Naphthalene	91-20-3		ND	1.00	0.200
n-Propylbenzene	103-65-1		ND	1.00	0.125
Styrene	100-42-5		ND	1.00	0.125
1,1,1,2-Tetrachloroethane	630-20-6		ND	1.00	0.250
1,1,1,2,2-Tetrachloroethane	79-34-5		ND	1.00	0.200
Tetrachloroethene	127-18-4		ND	1.00	0.250
Toluene	108-88-3		ND	1.00	0.250
1,2,3-Trichlorobenzene	87-61-6		ND	1.00	0.150
1,2,4-Trichlorobenzene	120-82-1		ND	1.00	0.200
1,1,1-Trichloroethane	71-55-6		ND	1.00	0.250
1,1,2-Trichloroethane	79-00-5		ND	1.00	0.250
Trichloroethene	79-01-6		ND	1.00	0.250
Trichlorofluoromethane	75-69-4		ND	1.00	0.250
1,2,3-Trichloropropane	96-18-4		ND	1.00	0.500
1,2,4-Trimethylbenzene	95-63-6		ND	1.00	0.250
1,3,5-Trimethylbenzene	108-67-8		ND	1.00	0.250
Vinyl acetate	108-05-4		ND	10.0	2.50
Vinyl chloride	75-01-4		ND	1.00	0.250
o-Xylene	95-47-6		ND	1.00	0.250
m-,p-Xylene	179601-23-1		ND	1.00	0.500
Surrogate	Recovery	Lower Limit	Upper Limit	Q	

Certificate of Analysis

Dibromofluoromethane	98.1	86	118	
1,2-Dichloroethane-d4	98.1	80	120	
Toluene-d8	101	88	110	
4-Bromofluorobenzene	107	86	115	

ND Not detected at or above the reporting limit (RL).

Sample #: L12070658-22

PrePrep Method: N/A

Instrument: HPMS11

Client ID: FIELD BLANK 17JULY2012

Prep Method: 5030B/5030C/5035A

Prep Date: N/A

Matrix: Water

Analytical Method: 8260B

Cal Date: 05/03/2012 21:37

Workgroup #: WG404130

Analyst: FJB

Run Date: 07/23/2012 16:41

Collect Date: 07/17/2012 08:35

Dilution: 1

File ID: 11M85507

Sample Tag: 01

Units: ug/L

Analyte	CAS #	Result	Qual	RL	MDL
Acetone	67-64-1		ND	10.0	2.50
Benzene	71-43-2		ND	1.00	0.125
Bromobenzene	108-86-1		ND	1.00	0.125
Bromochloromethane	74-97-5		ND	1.00	0.200
Bromodichloromethane	75-27-4		ND	1.00	0.250
Bromoform	75-25-2		ND	1.00	0.500
Bromomethane	74-83-9		ND	1.00	0.500
2-Butanone	78-93-3		ND	10.0	2.50
n-Butylbenzene	104-51-8		ND	1.00	0.250
sec-Butylbenzene	135-98-8		ND	1.00	0.250
tert-Butylbenzene	98-06-6		ND	1.00	0.250
Carbon disulfide	75-15-0		ND	1.00	0.500
Carbon tetrachloride	56-23-5		ND	1.00	0.250
Chlorobenzene	108-90-7		ND	1.00	0.125
Chlorodibromomethane	124-48-1		ND	1.00	0.250
Chloroethane	75-00-3		ND	1.00	0.500
2-Chloroethyl vinyl ether	110-75-8		ND	10.0	2.00
Chloroform	67-66-3		ND	1.00	0.125
Chloromethane	74-87-3		ND	1.00	0.500
2-Chlorotoluene	95-49-8		ND	1.00	0.125
4-Chlorotoluene	106-43-4		ND	1.00	0.250
1,2-Dibromo-3-chloropropane	96-12-8		ND	5.00	1.00
1,2-Dibromoethane	106-93-4		ND	1.00	0.250
Dibromomethane	74-95-3		ND	1.00	0.250
1,2-Dichlorobenzene	95-50-1		ND	1.00	0.125
1,3-Dichlorobenzene	541-73-1		ND	1.00	0.250
1,4-Dichlorobenzene	106-46-7		ND	1.00	0.125

Certificate of Analysis

Analyte	CAS #	Result	Qual	RL	MDL
Dichlorodifluoromethane	75-71-8		ND	1.00	0.250
1,1-Dichloroethane	75-34-3		ND	1.00	0.125
1,2-Dichloroethane	107-06-2		ND	1.00	0.250
1,1-Dichloroethene	75-35-4		ND	1.00	0.500
cis-1,2-Dichloroethene	156-59-2		ND	1.00	0.250
trans-1,2-Dichloroethene	156-60-5		ND	1.00	0.250
1,2-Dichloropropane	78-87-5		ND	1.00	0.200
1,3-Dichloropropane	142-28-9		ND	1.00	0.200
2,2-Dichloropropane	594-20-7		ND	1.00	0.250
cis-1,3-Dichloropropene	10061-01-5		ND	1.00	0.250
trans-1,3-Dichloropropene	10061-02-6		ND	1.00	0.500
1,1-Dichloropropene	563-58-6		ND	1.00	0.250
Ethylbenzene	100-41-4		ND	1.00	0.250
2-Hexanone	591-78-6		ND	10.0	2.50
Hexachlorobutadiene	87-68-3		ND	1.00	0.250
Isopropylbenzene	98-82-8		ND	1.00	0.250
p-Isopropyltoluene	99-87-6		ND	1.00	0.250
4-Methyl-2-pentanone	108-10-1		ND	10.0	2.50
Methylene chloride	75-09-2		ND	5.00	0.250
Naphthalene	91-20-3		ND	1.00	0.200
n-Propylbenzene	103-65-1		ND	1.00	0.125
Styrene	100-42-5		ND	1.00	0.125
1,1,1,2-Tetrachloroethane	630-20-6		ND	1.00	0.250
1,1,1,2-Tetrachloroethane	79-34-5		ND	1.00	0.200
Tetrachloroethene	127-18-4		ND	1.00	0.250
Toluene	108-88-3	0.602	J	1.00	0.250
1,2,3-Trichlorobenzene	87-61-6		ND	1.00	0.150
1,2,4-Trichlorobenzene	120-82-1		ND	1.00	0.200
1,1,1-Trichloroethane	71-55-6		ND	1.00	0.250
1,1,2-Trichloroethane	79-00-5		ND	1.00	0.250
Trichloroethene	79-01-6		ND	1.00	0.250
Trichlorofluoromethane	75-69-4		ND	1.00	0.250
1,2,3-Trichloropropane	96-18-4		ND	1.00	0.500
1,2,4-Trimethylbenzene	95-63-6		ND	1.00	0.250
1,3,5-Trimethylbenzene	108-67-8		ND	1.00	0.250
Vinyl acetate	108-05-4		ND	10.0	2.50
Vinyl chloride	75-01-4		ND	1.00	0.250
o-Xylene	95-47-6		ND	1.00	0.250
m-,p-Xylene	179601-23-1		ND	1.00	0.500

Certificate of Analysis

Surrogate	Recovery	Lower Limit	Upper Limit	Q
Dibromofluoromethane	86.7	86	118	
1,2-Dichloroethane-d4	83.2	80	120	
Toluene-d8	103	88	110	
4-Bromofluorobenzene	114	86	115	
J	Estimated value; the analyte concentration was less than the RL/LOQ.			
ND	Not detected at or above the reporting limit (RL).			

Sample #: L12070658-23

PrePrep Method: N/A

Instrument: HPMS8

Client ID: MW2-2

Prep Method: 5030B/5030C/5035A

Prep Date: N/A

Matrix: Water

Analytical Method: 8260B

Cal Date: 06/28/2012 23:13

Workgroup #: WG404914

Analyst: ADC

Run Date: 07/30/2012 15:45

Collect Date: 07/17/2012 09:45

Dilution: 1

File ID: 8M381199

Sample Tag: 02

Units: ug/L

Analyte	CAS #	Result	Qual	RL	MDL
Acetone	67-64-1		ND	10.0	2.50
Benzene	71-43-2		ND	1.00	0.125
Bromobenzene	108-86-1		ND	1.00	0.125
Bromochloromethane	74-97-5		ND	1.00	0.200
Bromodichloromethane	75-27-4		ND	1.00	0.250
Bromoform	75-25-2		ND	1.00	0.500
Bromomethane	74-83-9		ND	1.00	0.500
2-Butanone	78-93-3		ND	10.0	2.50
n-Butylbenzene	104-51-8		ND	1.00	0.250
sec-Butylbenzene	135-98-8		ND	1.00	0.250
tert-Butylbenzene	98-06-6		ND	1.00	0.250
Carbon disulfide	75-15-0		ND	1.00	0.500
Carbon tetrachloride	56-23-5		ND	1.00	0.250
Chlorobenzene	108-90-7		ND	1.00	0.125
Chlorodibromomethane	124-48-1		ND	1.00	0.250
Chloroethane	75-00-3		ND	1.00	0.500
2-Chloroethyl vinyl ether	110-75-8		ND	10.0	2.00
Chloroform	67-66-3		ND	1.00	0.125
Chloromethane	74-87-3		ND	1.00	0.500
2-Chlorotoluene	95-49-8		ND	1.00	0.125
4-Chlorotoluene	106-43-4		ND	1.00	0.250
1,2-Dibromo-3-chloropropane	96-12-8		ND	5.00	1.00
1,2-Dibromoethane	106-93-4		ND	1.00	0.250
Dibromomethane	74-95-3		ND	1.00	0.250
1,2-Dichlorobenzene	95-50-1		ND	1.00	0.125

Certificate of Analysis

Analyte	CAS #	Result	Qual	RL	MDL
1,3-Dichlorobenzene	541-73-1		ND	1.00	0.250
1,4-Dichlorobenzene	106-46-7		ND	1.00	0.125
Dichlorodifluoromethane	75-71-8		ND	1.00	0.250
1,1-Dichloroethane	75-34-3		ND	1.00	0.125
1,2-Dichloroethane	107-06-2		ND	1.00	0.250
1,1-Dichloroethene	75-35-4		ND	1.00	0.500
cis-1,2-Dichloroethene	156-59-2		ND	1.00	0.250
trans-1,2-Dichloroethene	156-60-5		ND	1.00	0.250
1,2-Dichloropropane	78-87-5		ND	1.00	0.200
1,3-Dichloropropane	142-28-9		ND	1.00	0.200
2,2-Dichloropropane	594-20-7		ND	1.00	0.250
cis-1,3-Dichloropropene	10061-01-5		ND	1.00	0.250
trans-1,3-Dichloropropene	10061-02-6		ND	1.00	0.500
1,1-Dichloropropene	563-58-6		ND	1.00	0.250
Ethylbenzene	100-41-4		ND	1.00	0.250
2-Hexanone	591-78-6		ND	10.0	2.50
Hexachlorobutadiene	87-68-3		ND	1.00	0.250
Isopropylbenzene	98-82-8		ND	1.00	0.250
p-Isopropyltoluene	99-87-6		ND	1.00	0.250
4-Methyl-2-pentanone	108-10-1		ND	10.0	2.50
Methylene chloride	75-09-2		ND	5.00	0.250
Naphthalene	91-20-3		ND	1.00	0.200
n-Propylbenzene	103-65-1		ND	1.00	0.125
Styrene	100-42-5		ND	1.00	0.125
1,1,1,2-Tetrachloroethane	630-20-6		ND	1.00	0.250
1,1,1,2,2-Tetrachloroethane	79-34-5		ND	1.00	0.200
Tetrachloroethene	127-18-4		ND	1.00	0.250
Toluene	108-88-3		ND	1.00	0.250
1,2,3-Trichlorobenzene	87-61-6		ND	1.00	0.150
1,2,4-Trichlorobenzene	120-82-1		ND	1.00	0.200
1,1,1-Trichloroethane	71-55-6		ND	1.00	0.250
1,1,2-Trichloroethane	79-00-5		ND	1.00	0.250
Trichloroethene	79-01-6	0.274	J	1.00	0.250
Trichlorofluoromethane	75-69-4		ND	1.00	0.250
1,2,3-Trichloropropane	96-18-4		ND	1.00	0.500
1,2,4-Trimethylbenzene	95-63-6		ND	1.00	0.250
1,3,5-Trimethylbenzene	108-67-8		ND	1.00	0.250
Vinyl acetate	108-05-4		ND	10.0	2.50
Vinyl chloride	75-01-4		ND	1.00	0.250

Certificate of Analysis

Analyte	CAS #	Result	Qual	RL	MDL
o-Xylene	95-47-6		ND	1.00	0.250
m-,p-Xylene	179601-23-1		ND	1.00	0.500
Surrogate	Recovery	Lower Limit	Upper Limit	Q	
Dibromofluoromethane	98.0	86	118		
1,2-Dichloroethane-d4	82.8	80	120		
Toluene-d8	103	88	110		
4-Bromofluorobenzene	101	86	115		
J	Estimated value; the analyte concentration was less than the RL/LOQ.				
ND	Not detected at or above the reporting limit (RL).				

Sample #: L12070658-24

PrePrep Method: N/A

Instrument: HPMS8

Client ID: MW2-2D

Prep Method: 5030B/5030C/5035A

Prep Date: N/A

Matrix: Water

Analytical Method: 8260B

Cal Date: 06/28/2012 23:13

Workgroup #: WG404914

Analyst: ADC

Run Date: 07/30/2012 16:15

Collect Date: 07/17/2012 10:00

Dilution: 1

File ID: 8M381200

Sample Tag: 02

Units: ug/L

Analyte	CAS #	Result	Qual	RL	MDL
Acetone	67-64-1		ND	10.0	2.50
Benzene	71-43-2		ND	1.00	0.125
Bromobenzene	108-86-1		ND	1.00	0.125
Bromochloromethane	74-97-5		ND	1.00	0.200
Bromodichloromethane	75-27-4		ND	1.00	0.250
Bromoform	75-25-2		ND	1.00	0.500
Bromomethane	74-83-9		ND	1.00	0.500
2-Butanone	78-93-3		ND	10.0	2.50
n-Butylbenzene	104-51-8		ND	1.00	0.250
sec-Butylbenzene	135-98-8		ND	1.00	0.250
tert-Butylbenzene	98-06-6		ND	1.00	0.250
Carbon disulfide	75-15-0		ND	1.00	0.500
Carbon tetrachloride	56-23-5		ND	1.00	0.250
Chlorobenzene	108-90-7		ND	1.00	0.125
Chlorodibromomethane	124-48-1		ND	1.00	0.250
Chloroethane	75-00-3		ND	1.00	0.500
2-Chloroethyl vinyl ether	110-75-8		ND	10.0	2.00
Chloroform	67-66-3		ND	1.00	0.125
Chloromethane	74-87-3		ND	1.00	0.500
2-Chlorotoluene	95-49-8		ND	1.00	0.125
4-Chlorotoluene	106-43-4		ND	1.00	0.250
1,2-Dibromo-3-chloropropane	96-12-8		ND	5.00	1.00

Certificate of Analysis

Analyte	CAS #	Result	Qual	RL	MDL
1,2-Dibromoethane	106-93-4		ND	1.00	0.250
Dibromomethane	74-95-3		ND	1.00	0.250
1,2-Dichlorobenzene	95-50-1		ND	1.00	0.125
1,3-Dichlorobenzene	541-73-1		ND	1.00	0.250
1,4-Dichlorobenzene	106-46-7		ND	1.00	0.125
Dichlorodifluoromethane	75-71-8		ND	1.00	0.250
1,1-Dichloroethane	75-34-3		ND	1.00	0.125
1,2-Dichloroethane	107-06-2		ND	1.00	0.250
1,1-Dichloroethene	75-35-4		ND	1.00	0.500
cis-1,2-Dichloroethene	156-59-2		ND	1.00	0.250
trans-1,2-Dichloroethene	156-60-5		ND	1.00	0.250
1,2-Dichloropropane	78-87-5		ND	1.00	0.200
1,3-Dichloropropane	142-28-9		ND	1.00	0.200
2,2-Dichloropropane	594-20-7		ND	1.00	0.250
cis-1,3-Dichloropropene	10061-01-5		ND	1.00	0.250
trans-1,3-Dichloropropene	10061-02-6		ND	1.00	0.500
1,1-Dichloropropene	563-58-6		ND	1.00	0.250
Ethylbenzene	100-41-4		ND	1.00	0.250
2-Hexanone	591-78-6		ND	10.0	2.50
Hexachlorobutadiene	87-68-3		ND	1.00	0.250
Isopropylbenzene	98-82-8		ND	1.00	0.250
p-Isopropyltoluene	99-87-6		ND	1.00	0.250
4-Methyl-2-pentanone	108-10-1		ND	10.0	2.50
Methylene chloride	75-09-2		ND	5.00	0.250
Naphthalene	91-20-3		ND	1.00	0.200
n-Propylbenzene	103-65-1		ND	1.00	0.125
Styrene	100-42-5		ND	1.00	0.125
1,1,1,2-Tetrachloroethane	630-20-6		ND	1.00	0.250
1,1,1,2-Tetrachloroethane	79-34-5		ND	1.00	0.200
Tetrachloroethene	127-18-4		ND	1.00	0.250
Toluene	108-88-3		ND	1.00	0.250
1,2,3-Trichlorobenzene	87-61-6		ND	1.00	0.150
1,2,4-Trichlorobenzene	120-82-1		ND	1.00	0.200
1,1,1-Trichloroethane	71-55-6		ND	1.00	0.250
1,1,2-Trichloroethane	79-00-5		ND	1.00	0.250
Trichloroethene	79-01-6		ND	1.00	0.250
Trichlorofluoromethane	75-69-4		ND	1.00	0.250
1,2,3-Trichloropropane	96-18-4		ND	1.00	0.500
1,2,4-Trimethylbenzene	95-63-6		ND	1.00	0.250

Certificate of Analysis

Analyte	CAS #	Result	Qual	RL	MDL
1,3,5-Trimethylbenzene	108-67-8		ND	1.00	0.250
Vinyl acetate	108-05-4		ND	10.0	2.50
Vinyl chloride	75-01-4		ND	1.00	0.250
o-Xylene	95-47-6		ND	1.00	0.250
m-,p-Xylene	179601-23-1		ND	1.00	0.500
Surrogate	Recovery	Lower Limit	Upper Limit	Q	
Dibromofluoromethane	98.8	86	118		
1,2-Dichloroethane-d4	82.7	80	120		
Toluene-d8	102	88	110		
4-Bromofluorobenzene	101	86	115		
ND	Not detected at or above the reporting limit (RL).				

Sample #: L12070658-25

PrePrep Method: N/A

Instrument: HPMS8

Client ID: MW2-3

Prep Method: 5030B/5030C/5035A

Prep Date: N/A

Matrix: Water

Analytical Method: 8260B

Cal Date: 06/28/2012 23:13

Workgroup #: WG404914

Analyst: ADC

Run Date: 07/30/2012 16:45

Collect Date: 07/17/2012 10:55

Dilution: 1

File ID: 8M381201

Sample Tag: 02

Units: ug/L

Analyte	CAS #	Result	Qual	RL	MDL
Acetone	67-64-1		ND	10.0	2.50
Benzene	71-43-2		ND	1.00	0.125
Bromobenzene	108-86-1		ND	1.00	0.125
Bromochloromethane	74-97-5		ND	1.00	0.200
Bromodichloromethane	75-27-4		ND	1.00	0.250
Bromoform	75-25-2		ND	1.00	0.500
Bromomethane	74-83-9		ND	1.00	0.500
2-Butanone	78-93-3		ND	10.0	2.50
n-Butylbenzene	104-51-8		ND	1.00	0.250
sec-Butylbenzene	135-98-8		ND	1.00	0.250
tert-Butylbenzene	98-06-6		ND	1.00	0.250
Carbon disulfide	75-15-0		ND	1.00	0.500
Carbon tetrachloride	56-23-5		ND	1.00	0.250
Chlorobenzene	108-90-7		ND	1.00	0.125
Chlorodibromomethane	124-48-1		ND	1.00	0.250
Chloroethane	75-00-3		ND	1.00	0.500
2-Chloroethyl vinyl ether	110-75-8		ND	10.0	2.00
Chloroform	67-66-3		ND	1.00	0.125
Chloromethane	74-87-3		ND	1.00	0.500
2-Chlorotoluene	95-49-8		ND	1.00	0.125

Certificate of Analysis

Analyte	CAS #	Result	Qual	RL	MDL
4-Chlorotoluene	106-43-4		ND	1.00	0.250
1,2-Dibromo-3-chloropropane	96-12-8		ND	5.00	1.00
1,2-Dibromoethane	106-93-4		ND	1.00	0.250
Dibromomethane	74-95-3		ND	1.00	0.250
1,2-Dichlorobenzene	95-50-1		ND	1.00	0.125
1,3-Dichlorobenzene	541-73-1		ND	1.00	0.250
1,4-Dichlorobenzene	106-46-7		ND	1.00	0.125
Dichlorodifluoromethane	75-71-8		ND	1.00	0.250
1,1-Dichloroethane	75-34-3		ND	1.00	0.125
1,2-Dichloroethane	107-06-2		ND	1.00	0.250
1,1-Dichloroethene	75-35-4		ND	1.00	0.500
cis-1,2-Dichloroethene	156-59-2		ND	1.00	0.250
trans-1,2-Dichloroethene	156-60-5		ND	1.00	0.250
1,2-Dichloropropane	78-87-5		ND	1.00	0.200
1,3-Dichloropropane	142-28-9		ND	1.00	0.200
2,2-Dichloropropane	594-20-7		ND	1.00	0.250
cis-1,3-Dichloropropene	10061-01-5		ND	1.00	0.250
trans-1,3-Dichloropropene	10061-02-6		ND	1.00	0.500
1,1-Dichloropropene	563-58-6		ND	1.00	0.250
Ethylbenzene	100-41-4		ND	1.00	0.250
2-Hexanone	591-78-6		ND	10.0	2.50
Hexachlorobutadiene	87-68-3		ND	1.00	0.250
Isopropylbenzene	98-82-8		ND	1.00	0.250
p-Isopropyltoluene	99-87-6		ND	1.00	0.250
4-Methyl-2-pentanone	108-10-1		ND	10.0	2.50
Methylene chloride	75-09-2		ND	5.00	0.250
Naphthalene	91-20-3		ND	1.00	0.200
n-Propylbenzene	103-65-1		ND	1.00	0.125
Styrene	100-42-5		ND	1.00	0.125
1,1,1,2-Tetrachloroethane	630-20-6		ND	1.00	0.250
1,1,1,2,2-Tetrachloroethane	79-34-5		ND	1.00	0.200
Tetrachloroethene	127-18-4		ND	1.00	0.250
Toluene	108-88-3		ND	1.00	0.250
1,2,3-Trichlorobenzene	87-61-6		ND	1.00	0.150
1,2,4-Trichlorobenzene	120-82-1		ND	1.00	0.200
1,1,1-Trichloroethane	71-55-6		ND	1.00	0.250
1,1,2-Trichloroethane	79-00-5		ND	1.00	0.250
Trichloroethene	79-01-6	1.44		1.00	0.250
Trichlorofluoromethane	75-69-4		ND	1.00	0.250

Certificate of Analysis

Analyte	CAS #	Result	Qual	RL	MDL
1,2,3-Trichloropropane	96-18-4		ND	1.00	0.500
1,2,4-Trimethylbenzene	95-63-6		ND	1.00	0.250
1,3,5-Trimethylbenzene	108-67-8		ND	1.00	0.250
Vinyl acetate	108-05-4		ND	10.0	2.50
Vinyl chloride	75-01-4		ND	1.00	0.250
o-Xylene	95-47-6		ND	1.00	0.250
m-,p-Xylene	179601-23-1		ND	1.00	0.500
Surrogate	Recovery	Lower Limit	Upper Limit	Q	
Dibromofluoromethane	99.2	86	118		
1,2-Dichloroethane-d4	83.6	80	120		
Toluene-d8	103	88	110		
4-Bromofluorobenzene	102	86	115		
ND	Not detected at or above the reporting limit (RL).				

Sample #: L12070658-26

PrePrep Method: N/A

Instrument: HPMS8

Client ID: 35B WW01

Prep Method: 5030B/5030C/5035A

Prep Date: N/A

Matrix: Water

Analytical Method: 8260B

Cal Date: 06/28/2012 23:13

Workgroup #: WG404914

Analyst: ADC

Run Date: 07/30/2012 17:15

Collect Date: 07/17/2012 12:40

Dilution: 1

File ID: 8M381202

Sample Tag: 02

Units: ug/L

Analyte	CAS #	Result	Qual	RL	MDL
Acetone	67-64-1		ND	10.0	2.50
Benzene	71-43-2		ND	1.00	0.125
Bromobenzene	108-86-1		ND	1.00	0.125
Bromochloromethane	74-97-5		ND	1.00	0.200
Bromodichloromethane	75-27-4		ND	1.00	0.250
Bromoform	75-25-2		ND	1.00	0.500
Bromomethane	74-83-9		ND	1.00	0.500
2-Butanone	78-93-3		ND	10.0	2.50
n-Butylbenzene	104-51-8		ND	1.00	0.250
sec-Butylbenzene	135-98-8		ND	1.00	0.250
tert-Butylbenzene	98-06-6		ND	1.00	0.250
Carbon disulfide	75-15-0		ND	1.00	0.500
Carbon tetrachloride	56-23-5		ND	1.00	0.250
Chlorobenzene	108-90-7		ND	1.00	0.125
Chlorodibromomethane	124-48-1		ND	1.00	0.250
Chloroethane	75-00-3		ND	1.00	0.500
2-Chloroethyl vinyl ether	110-75-8		ND	10.0	2.00
Chloroform	67-66-3		ND	1.00	0.125

Certificate of Analysis

Analyte	CAS #	Result	Qual	RL	MDL
Chloromethane	74-87-3		ND	1.00	0.500
2-Chlorotoluene	95-49-8		ND	1.00	0.125
4-Chlorotoluene	106-43-4		ND	1.00	0.250
1,2-Dibromo-3-chloropropane	96-12-8		ND	5.00	1.00
1,2-Dibromoethane	106-93-4		ND	1.00	0.250
Dibromomethane	74-95-3		ND	1.00	0.250
1,2-Dichlorobenzene	95-50-1		ND	1.00	0.125
1,3-Dichlorobenzene	541-73-1		ND	1.00	0.250
1,4-Dichlorobenzene	106-46-7		ND	1.00	0.125
Dichlorodifluoromethane	75-71-8		ND	1.00	0.250
1,1-Dichloroethane	75-34-3		ND	1.00	0.125
1,2-Dichloroethane	107-06-2		ND	1.00	0.250
1,1-Dichloroethene	75-35-4		ND	1.00	0.500
cis-1,2-Dichloroethene	156-59-2		ND	1.00	0.250
trans-1,2-Dichloroethene	156-60-5		ND	1.00	0.250
1,2-Dichloropropane	78-87-5		ND	1.00	0.200
1,3-Dichloropropane	142-28-9		ND	1.00	0.200
2,2-Dichloropropane	594-20-7		ND	1.00	0.250
cis-1,3-Dichloropropene	10061-01-5		ND	1.00	0.250
trans-1,3-Dichloropropene	10061-02-6		ND	1.00	0.500
1,1-Dichloropropene	563-58-6		ND	1.00	0.250
Ethylbenzene	100-41-4		ND	1.00	0.250
2-Hexanone	591-78-6		ND	10.0	2.50
Hexachlorobutadiene	87-68-3		ND	1.00	0.250
Isopropylbenzene	98-82-8		ND	1.00	0.250
p-Isopropyltoluene	99-87-6		ND	1.00	0.250
4-Methyl-2-pentanone	108-10-1		ND	10.0	2.50
Methylene chloride	75-09-2		ND	5.00	0.250
Naphthalene	91-20-3		ND	1.00	0.200
n-Propylbenzene	103-65-1		ND	1.00	0.125
Styrene	100-42-5		ND	1.00	0.125
1,1,1,2-Tetrachloroethane	630-20-6		ND	1.00	0.250
1,1,1,2-Tetrachloroethane	79-34-5		ND	1.00	0.200
Tetrachloroethene	127-18-4		ND	1.00	0.250
Toluene	108-88-3		ND	1.00	0.250
1,2,3-Trichlorobenzene	87-61-6		ND	1.00	0.150
1,2,4-Trichlorobenzene	120-82-1		ND	1.00	0.200
1,1,1-Trichloroethane	71-55-6		ND	1.00	0.250
1,1,2-Trichloroethane	79-00-5		ND	1.00	0.250

Certificate of Analysis

Analyte	CAS #	Result	Qual	RL	MDL
Trichloroethene	79-01-6		ND	1.00	0.250
Trichlorofluoromethane	75-69-4		ND	1.00	0.250
1,2,3-Trichloropropane	96-18-4		ND	1.00	0.500
1,2,4-Trimethylbenzene	95-63-6		ND	1.00	0.250
1,3,5-Trimethylbenzene	108-67-8		ND	1.00	0.250
Vinyl acetate	108-05-4		ND	10.0	2.50
Vinyl chloride	75-01-4		ND	1.00	0.250
o-Xylene	95-47-6		ND	1.00	0.250
m-,p-Xylene	179601-23-1		ND	1.00	0.500
Surrogate	Recovery	Lower Limit	Upper Limit	Q	
Dibromofluoromethane	98.7	86	118		
1,2-Dichloroethane-d4	84.0	80	120		
Toluene-d8	104	88	110		
4-Bromofluorobenzene	102	86	115		
ND	Not detected at or above the reporting limit (RL).				

Sample #: L12070658-27

PrePrep Method: N/A

Instrument: HPMS8

Client ID: 35B WW04

Prep Method: 5030B/5030C/5035A

Prep Date: N/A

Matrix: Water

Analytical Method: 8260B

Cal Date: 06/28/2012 23:13

Workgroup #: WG404914

Analyst: ADC

Run Date: 07/30/2012 17:45

Collect Date: 07/17/2012 13:45

Dilution: 1

File ID: 8M381203

Sample Tag: 02

Units: ug/L

Analyte	CAS #	Result	Qual	RL	MDL
Acetone	67-64-1		ND	10.0	2.50
Benzene	71-43-2		ND	1.00	0.125
Bromobenzene	108-86-1		ND	1.00	0.125
Bromochloromethane	74-97-5		ND	1.00	0.200
Bromodichloromethane	75-27-4		ND	1.00	0.250
Bromoform	75-25-2		ND	1.00	0.500
Bromomethane	74-83-9		ND	1.00	0.500
2-Butanone	78-93-3		ND	10.0	2.50
n-Butylbenzene	104-51-8		ND	1.00	0.250
sec-Butylbenzene	135-98-8		ND	1.00	0.250
tert-Butylbenzene	98-06-6		ND	1.00	0.250
Carbon disulfide	75-15-0		ND	1.00	0.500
Carbon tetrachloride	56-23-5		ND	1.00	0.250
Chlorobenzene	108-90-7		ND	1.00	0.125
Chlorodibromomethane	124-48-1		ND	1.00	0.250
Chloroethane	75-00-3		ND	1.00	0.500

Certificate of Analysis

Analyte	CAS #	Result	Qual	RL	MDL
2-Chloroethyl vinyl ether	110-75-8		ND	10.0	2.00
Chloroform	67-66-3		ND	1.00	0.125
Chloromethane	74-87-3		ND	1.00	0.500
2-Chlorotoluene	95-49-8		ND	1.00	0.125
4-Chlorotoluene	106-43-4		ND	1.00	0.250
1,2-Dibromo-3-chloropropane	96-12-8		ND	5.00	1.00
1,2-Dibromoethane	106-93-4		ND	1.00	0.250
Dibromomethane	74-95-3		ND	1.00	0.250
1,2-Dichlorobenzene	95-50-1		ND	1.00	0.125
1,3-Dichlorobenzene	541-73-1		ND	1.00	0.250
1,4-Dichlorobenzene	106-46-7		ND	1.00	0.125
Dichlorodifluoromethane	75-71-8		ND	1.00	0.250
1,1-Dichloroethane	75-34-3	0.639	J	1.00	0.125
1,2-Dichloroethane	107-06-2	0.256	J	1.00	0.250
1,1-Dichloroethene	75-35-4	1.67		1.00	0.500
cis-1,2-Dichloroethene	156-59-2	0.475	J	1.00	0.250
trans-1,2-Dichloroethene	156-60-5		ND	1.00	0.250
1,2-Dichloropropane	78-87-5		ND	1.00	0.200
1,3-Dichloropropane	142-28-9		ND	1.00	0.200
2,2-Dichloropropane	594-20-7		ND	1.00	0.250
cis-1,3-Dichloropropene	10061-01-5		ND	1.00	0.250
trans-1,3-Dichloropropene	10061-02-6		ND	1.00	0.500
1,1-Dichloropropene	563-58-6		ND	1.00	0.250
Ethylbenzene	100-41-4		ND	1.00	0.250
2-Hexanone	591-78-6		ND	10.0	2.50
Hexachlorobutadiene	87-68-3		ND	1.00	0.250
Isopropylbenzene	98-82-8		ND	1.00	0.250
p-Isopropyltoluene	99-87-6		ND	1.00	0.250
4-Methyl-2-pentanone	108-10-1		ND	10.0	2.50
Methylene chloride	75-09-2		ND	5.00	0.250
Naphthalene	91-20-3		ND	1.00	0.200
n-Propylbenzene	103-65-1		ND	1.00	0.125
Styrene	100-42-5		ND	1.00	0.125
1,1,1,2-Tetrachloroethane	630-20-6		ND	1.00	0.250
1,1,1,2,2-Tetrachloroethane	79-34-5		ND	1.00	0.200
Tetrachloroethene	127-18-4	48.9		1.00	0.250
Toluene	108-88-3		ND	1.00	0.250
1,2,3-Trichlorobenzene	87-61-6		ND	1.00	0.150
1,2,4-Trichlorobenzene	120-82-1		ND	1.00	0.200

Certificate of Analysis

Analyte	CAS #	Result	Qual	RL	MDL
1,1,1-Trichloroethane	71-55-6		ND	1.00	0.250
1,1,2-Trichloroethane	79-00-5		ND	1.00	0.250
Trichloroethene	79-01-6	8.09		1.00	0.250
Trichlorofluoromethane	75-69-4		ND	1.00	0.250
1,1,2,3-Trichloropropane	96-18-4		ND	1.00	0.500
1,2,4-Trimethylbenzene	95-63-6		ND	1.00	0.250
1,3,5-Trimethylbenzene	108-67-8		ND	1.00	0.250
Vinyl acetate	108-05-4		ND	10.0	2.50
Vinyl chloride	75-01-4		ND	1.00	0.250
o-Xylene	95-47-6		ND	1.00	0.250
m-,p-Xylene	179601-23-1		ND	1.00	0.500
Surrogate	Recovery	Lower Limit	Upper Limit	Q	
Dibromofluoromethane	100	86	118		
1,2-Dichloroethane-d4	85.0	80	120		
Toluene-d8	103	88	110		
4-Bromofluorobenzene	102	86	115		
J	Estimated value; the analyte concentration was less than the RL/LOQ.				
ND	Not detected at or above the reporting limit (RL).				

Sample #: L12070658-28

PrePrep Method: N/A

Instrument: HPMS8

Client ID: 35B SW-1

Prep Method: 5030B/5030C/5035A

Prep Date: N/A

Matrix: Water

Analytical Method: 8260B

Cal Date: 06/28/2012 23:13

Workgroup #: WG404914

Analyst: ADC

Run Date: 07/30/2012 18:15

Collect Date: 07/17/2012 14:30

Dilution: 1

File ID: 8M381204

Sample Tag: 02

Units: ug/L

Analyte	CAS #	Result	Qual	RL	MDL
Acetone	67-64-1		ND	10.0	2.50
Benzene	71-43-2		ND	1.00	0.125
Bromobenzene	108-86-1		ND	1.00	0.125
Bromochloromethane	74-97-5		ND	1.00	0.200
Bromodichloromethane	75-27-4		ND	1.00	0.250
Bromoform	75-25-2		ND	1.00	0.500
Bromomethane	74-83-9		ND	1.00	0.500
2-Butanone	78-93-3		ND	10.0	2.50
n-Butylbenzene	104-51-8		ND	1.00	0.250
sec-Butylbenzene	135-98-8		ND	1.00	0.250
tert-Butylbenzene	98-06-6		ND	1.00	0.250
Carbon disulfide	75-15-0		ND	1.00	0.500
Carbon tetrachloride	56-23-5		ND	1.00	0.250

Certificate of Analysis

Analyte	CAS #	Result	Qual	RL	MDL
Chlorobenzene	108-90-7		ND	1.00	0.125
Chlorodibromomethane	124-48-1		ND	1.00	0.250
Chloroethane	75-00-3		ND	1.00	0.500
2-Chloroethyl vinyl ether	110-75-8		ND	10.0	2.00
Chloroform	67-66-3		ND	1.00	0.125
Chloromethane	74-87-3		ND	1.00	0.500
2-Chlorotoluene	95-49-8		ND	1.00	0.125
4-Chlorotoluene	106-43-4		ND	1.00	0.250
1,2-Dibromo-3-chloropropane	96-12-8		ND	5.00	1.00
1,2-Dibromoethane	106-93-4		ND	1.00	0.250
Dibromomethane	74-95-3		ND	1.00	0.250
1,2-Dichlorobenzene	95-50-1		ND	1.00	0.125
1,3-Dichlorobenzene	541-73-1		ND	1.00	0.250
1,4-Dichlorobenzene	106-46-7		ND	1.00	0.125
Dichlorodifluoromethane	75-71-8		ND	1.00	0.250
1,1-Dichloroethane	75-34-3		ND	1.00	0.125
1,2-Dichloroethane	107-06-2		ND	1.00	0.250
1,1-Dichloroethene	75-35-4		ND	1.00	0.500
cis-1,2-Dichloroethene	156-59-2		ND	1.00	0.250
trans-1,2-Dichloroethene	156-60-5		ND	1.00	0.250
1,2-Dichloropropane	78-87-5		ND	1.00	0.200
1,3-Dichloropropane	142-28-9		ND	1.00	0.200
2,2-Dichloropropane	594-20-7		ND	1.00	0.250
cis-1,3-Dichloropropene	10061-01-5		ND	1.00	0.250
trans-1,3-Dichloropropene	10061-02-6		ND	1.00	0.500
1,1-Dichloropropene	563-58-6		ND	1.00	0.250
Ethylbenzene	100-41-4		ND	1.00	0.250
2-Hexanone	591-78-6		ND	10.0	2.50
Hexachlorobutadiene	87-68-3		ND	1.00	0.250
Isopropylbenzene	98-82-8		ND	1.00	0.250
p-Isopropyltoluene	99-87-6		ND	1.00	0.250
4-Methyl-2-pentanone	108-10-1		ND	10.0	2.50
Methylene chloride	75-09-2		ND	5.00	0.250
Naphthalene	91-20-3		ND	1.00	0.200
n-Propylbenzene	103-65-1		ND	1.00	0.125
Styrene	100-42-5		ND	1.00	0.125
1,1,1,2-Tetrachloroethane	630-20-6		ND	1.00	0.250
1,1,2,2-Tetrachloroethane	79-34-5		ND	1.00	0.200
Tetrachloroethene	127-18-4		ND	1.00	0.250

Certificate of Analysis

Analyte	CAS #	Result	Qual	RL	MDL
Toluene	108-88-3		ND	1.00	0.250
1,2,3-Trichlorobenzene	87-61-6		ND	1.00	0.150
1,2,4-Trichlorobenzene	120-82-1		ND	1.00	0.200
1,1,1-Trichloroethane	71-55-6		ND	1.00	0.250
1,1,2-Trichloroethane	79-00-5		ND	1.00	0.250
Trichloroethene	79-01-6		ND	1.00	0.250
Trichlorofluoromethane	75-69-4		ND	1.00	0.250
1,2,3-Trichloropropane	96-18-4		ND	1.00	0.500
1,2,4-Trimethylbenzene	95-63-6		ND	1.00	0.250
1,3,5-Trimethylbenzene	108-67-8		ND	1.00	0.250
Vinyl acetate	108-05-4		ND	10.0	2.50
Vinyl chloride	75-01-4		ND	1.00	0.250
o-Xylene	95-47-6		ND	1.00	0.250
m-,p-Xylene	179601-23-1		ND	1.00	0.500
Surrogate	Recovery	Lower Limit	Upper Limit	Q	
Dibromofluoromethane	99.7	86	118		
1,2-Dichloroethane-d4	85.2	80	120		
Toluene-d8	102	88	110		
4-Bromofluorobenzene	101	86	115		
ND	Not detected at or above the reporting limit (RL).				

Sample #: L12070658-29

PrePrep Method: N/A

Instrument: HPMS8

Client ID: 35B SW-2

Prep Method: 5030B/5030C/5035A

Prep Date: N/A

Matrix: Water

Analytical Method: 8260B

Cal Date: 06/28/2012 23:13

Workgroup #: WG404914

Analyst: ADC

Run Date: 07/30/2012 18:45

Collect Date: 07/17/2012 14:45

Dilution: 1

File ID: 8M381205

Sample Tag: 02

Units: ug/L

Analyte	CAS #	Result	Qual	RL	MDL
Acetone	67-64-1	2.94	J	10.0	2.50
Benzene	71-43-2		ND	1.00	0.125
Bromobenzene	108-86-1		ND	1.00	0.125
Bromochloromethane	74-97-5		ND	1.00	0.200
Bromodichloromethane	75-27-4		ND	1.00	0.250
Bromoform	75-25-2		ND	1.00	0.500
Bromomethane	74-83-9		ND	1.00	0.500
2-Butanone	78-93-3		ND	10.0	2.50
n-Butylbenzene	104-51-8		ND	1.00	0.250
sec-Butylbenzene	135-98-8		ND	1.00	0.250
tert-Butylbenzene	98-06-6		ND	1.00	0.250

Certificate of Analysis

Analyte	CAS #	Result	Qual	RL	MDL
Carbon disulfide	75-15-0		ND	1.00	0.500
Carbon tetrachloride	56-23-5		ND	1.00	0.250
Chlorobenzene	108-90-7		ND	1.00	0.125
Chlorodibromomethane	124-48-1		ND	1.00	0.250
Chloroethane	75-00-3		ND	1.00	0.500
2-Chloroethyl vinyl ether	110-75-8		ND	10.0	2.00
Chloroform	67-66-3		ND	1.00	0.125
Chloromethane	74-87-3		ND	1.00	0.500
2-Chlorotoluene	95-49-8		ND	1.00	0.125
4-Chlorotoluene	106-43-4		ND	1.00	0.250
1,2-Dibromo-3-chloropropane	96-12-8		ND	5.00	1.00
1,2-Dibromoethane	106-93-4		ND	1.00	0.250
Dibromomethane	74-95-3		ND	1.00	0.250
1,2-Dichlorobenzene	95-50-1		ND	1.00	0.125
1,3-Dichlorobenzene	541-73-1		ND	1.00	0.250
1,4-Dichlorobenzene	106-46-7		ND	1.00	0.125
Dichlorodifluoromethane	75-71-8		ND	1.00	0.250
1,1-Dichloroethane	75-34-3		ND	1.00	0.125
1,2-Dichloroethane	107-06-2		ND	1.00	0.250
1,1-Dichloroethene	75-35-4		ND	1.00	0.500
cis-1,2-Dichloroethene	156-59-2		ND	1.00	0.250
trans-1,2-Dichloroethene	156-60-5		ND	1.00	0.250
1,2-Dichloropropane	78-87-5		ND	1.00	0.200
1,3-Dichloropropane	142-28-9		ND	1.00	0.200
2,2-Dichloropropane	594-20-7		ND	1.00	0.250
cis-1,3-Dichloropropene	10061-01-5		ND	1.00	0.250
trans-1,3-Dichloropropene	10061-02-6		ND	1.00	0.500
1,1-Dichloropropene	563-58-6		ND	1.00	0.250
Ethylbenzene	100-41-4		ND	1.00	0.250
2-Hexanone	591-78-6		ND	10.0	2.50
Hexachlorobutadiene	87-68-3		ND	1.00	0.250
Isopropylbenzene	98-82-8		ND	1.00	0.250
p-Isopropyltoluene	99-87-6		ND	1.00	0.250
4-Methyl-2-pentanone	108-10-1		ND	10.0	2.50
Methylene chloride	75-09-2		ND	5.00	0.250
Naphthalene	91-20-3		ND	1.00	0.200
n-Propylbenzene	103-65-1		ND	1.00	0.125
Styrene	100-42-5		ND	1.00	0.125
1,1,1,2-Tetrachloroethane	630-20-6		ND	1.00	0.250

Certificate of Analysis

Analyte	CAS #	Result	Qual	RL	MDL
1,1,1,2-Tetrachloroethane	79-34-5		ND	1.00	0.200
Tetrachloroethene	127-18-4		ND	1.00	0.250
Toluene	108-88-3		ND	1.00	0.250
1,2,3-Trichlorobenzene	87-61-6		ND	1.00	0.150
1,2,4-Trichlorobenzene	120-82-1		ND	1.00	0.200
1,1,1-Trichloroethane	71-55-6		ND	1.00	0.250
1,1,2-Trichloroethane	79-00-5		ND	1.00	0.250
Trichloroethene	79-01-6		ND	1.00	0.250
Trichlorofluoromethane	75-69-4		ND	1.00	0.250
1,2,3-Trichloropropane	96-18-4		ND	1.00	0.500
1,2,4-Trimethylbenzene	95-63-6		ND	1.00	0.250
1,3,5-Trimethylbenzene	108-67-8		ND	1.00	0.250
Vinyl acetate	108-05-4		ND	10.0	2.50
Vinyl chloride	75-01-4		ND	1.00	0.250
o-Xylene	95-47-6		ND	1.00	0.250
m-,p-Xylene	179601-23-1		ND	1.00	0.500
Surrogate	Recovery	Lower Limit	Upper Limit	Q	
Dibromofluoromethane	99.4	86	118		
1,2-Dichloroethane-d4	85.5	80	120		
Toluene-d8	102	88	110		
4-Bromofluorobenzene	103	86	115		
J	Estimated value; the analyte concentration was less than the RL/LOQ.				
ND	Not detected at or above the reporting limit (RL).				

Sample #: L12070658-30

PrePrep Method: N/A

Instrument: HPMS8

Client ID: 35B WW-11

Prep Method: 5030B/5030C/5035A

Prep Date: N/A

Matrix: Water

Analytical Method: 8260B

Cal Date: 06/28/2012 23:13

Workgroup #: WG404914

Analyst: ADC

Run Date: 07/30/2012 19:15

Collect Date: 07/17/2012 15:25

Dilution: 1

File ID: 8M381206

Sample Tag: 02

Units: ug/L

Analyte	CAS #	Result	Qual	RL	MDL
Acetone	67-64-1		ND	10.0	2.50
Benzene	71-43-2		ND	1.00	0.125
Bromobenzene	108-86-1		ND	1.00	0.125
Bromochloromethane	74-97-5		ND	1.00	0.200
Bromodichloromethane	75-27-4		ND	1.00	0.250
Bromoform	75-25-2		ND	1.00	0.500
Bromomethane	74-83-9		ND	1.00	0.500
2-Butanone	78-93-3		ND	10.0	2.50

Certificate of Analysis

Analyte	CAS #	Result	Qual	RL	MDL
n-Butylbenzene	104-51-8		ND	1.00	0.250
sec-Butylbenzene	135-98-8		ND	1.00	0.250
tert-Butylbenzene	98-06-6		ND	1.00	0.250
Carbon disulfide	75-15-0		ND	1.00	0.500
Carbon tetrachloride	56-23-5		ND	1.00	0.250
Chlorobenzene	108-90-7		ND	1.00	0.125
Chlorodibromomethane	124-48-1		ND	1.00	0.250
Chloroethane	75-00-3		ND	1.00	0.500
2-Chloroethyl vinyl ether	110-75-8		ND	10.0	2.00
Chloroform	67-66-3		ND	1.00	0.125
Chloromethane	74-87-3		ND	1.00	0.500
2-Chlorotoluene	95-49-8		ND	1.00	0.125
4-Chlorotoluene	106-43-4		ND	1.00	0.250
1,2-Dibromo-3-chloropropane	96-12-8		ND	5.00	1.00
1,2-Dibromoethane	106-93-4		ND	1.00	0.250
Dibromomethane	74-95-3		ND	1.00	0.250
1,2-Dichlorobenzene	95-50-1		ND	1.00	0.125
1,3-Dichlorobenzene	541-73-1		ND	1.00	0.250
1,4-Dichlorobenzene	106-46-7		ND	1.00	0.125
Dichlorodifluoromethane	75-71-8		ND	1.00	0.250
1,1-Dichloroethane	75-34-3		ND	1.00	0.125
1,2-Dichloroethane	107-06-2		ND	1.00	0.250
1,1-Dichloroethene	75-35-4		ND	1.00	0.500
cis-1,2-Dichloroethene	156-59-2		ND	1.00	0.250
trans-1,2-Dichloroethene	156-60-5		ND	1.00	0.250
1,2-Dichloropropane	78-87-5		ND	1.00	0.200
1,3-Dichloropropane	142-28-9		ND	1.00	0.200
2,2-Dichloropropane	594-20-7		ND	1.00	0.250
cis-1,3-Dichloropropene	10061-01-5		ND	1.00	0.250
trans-1,3-Dichloropropene	10061-02-6		ND	1.00	0.500
1,1-Dichloropropene	563-58-6		ND	1.00	0.250
Ethylbenzene	100-41-4		ND	1.00	0.250
2-Hexanone	591-78-6		ND	10.0	2.50
Hexachlorobutadiene	87-68-3		ND	1.00	0.250
Isopropylbenzene	98-82-8		ND	1.00	0.250
p-Isopropyltoluene	99-87-6		ND	1.00	0.250
4-Methyl-2-pentanone	108-10-1		ND	10.0	2.50
Methylene chloride	75-09-2		ND	5.00	0.250
Naphthalene	91-20-3		ND	1.00	0.200

Certificate of Analysis

Analyte	CAS #	Result	Qual	RL	MDL
n-Propylbenzene	103-65-1		ND	1.00	0.125
Styrene	100-42-5		ND	1.00	0.125
1,1,1,2-Tetrachloroethane	630-20-6		ND	1.00	0.250
1,1,1,2,2-Tetrachloroethane	79-34-5		ND	1.00	0.200
Tetrachloroethene	127-18-4		ND	1.00	0.250
Toluene	108-88-3		ND	1.00	0.250
1,2,3-Trichlorobenzene	87-61-6		ND	1.00	0.150
1,2,4-Trichlorobenzene	120-82-1		ND	1.00	0.200
1,1,1-Trichloroethane	71-55-6		ND	1.00	0.250
1,1,2-Trichloroethane	79-00-5		ND	1.00	0.250
Trichloroethene	79-01-6		ND	1.00	0.250
Trichlorofluoromethane	75-69-4		ND	1.00	0.250
1,2,3-Trichloropropane	96-18-4		ND	1.00	0.500
1,2,4-Trimethylbenzene	95-63-6		ND	1.00	0.250
1,3,5-Trimethylbenzene	108-67-8		ND	1.00	0.250
Vinyl acetate	108-05-4		ND	10.0	2.50
Vinyl chloride	75-01-4		ND	1.00	0.250
o-Xylene	95-47-6		ND	1.00	0.250
m-,p-Xylene	179601-23-1		ND	1.00	0.500
Surrogate	Recovery	Lower Limit	Upper Limit	Q	
Dibromofluoromethane	100	86	118		
1,2-Dichloroethane-d4	87.6	80	120		
Toluene-d8	102	88	110		
4-Bromofluorobenzene	103	86	115		
ND	Not detected at or above the reporting limit (RL).				

Sample #: L12070658-31

PrePrep Method: N/A

Instrument: HPMS8

Client ID: TRIP BLANK 18JULY2012

Prep Method: 5030B/5030C/5035A

Prep Date: N/A

Matrix: Water

Analytical Method: 8260B

Cal Date: 06/28/2012 23:13

Workgroup #: WG404914

Analyst: ADC

Run Date: 07/30/2012 14:45

Collect Date: 07/18/2012 00:01

Dilution: 1

File ID: 8M381197

Sample Tag: 02

Units: ug/L

Analyte	CAS #	Result	Qual	RL	MDL
Acetone	67-64-1		ND	10.0	2.50
Benzene	71-43-2		ND	1.00	0.125
Bromobenzene	108-86-1		ND	1.00	0.125
Bromochloromethane	74-97-5		ND	1.00	0.200
Bromodichloromethane	75-27-4		ND	1.00	0.250
Bromoform	75-25-2		ND	1.00	0.500

Certificate of Analysis

Analyte	CAS #	Result	Qual	RL	MDL
Bromomethane	74-83-9		ND	1.00	0.500
2-Butanone	78-93-3		ND	10.0	2.50
n-Butylbenzene	104-51-8		ND	1.00	0.250
sec-Butylbenzene	135-98-8		ND	1.00	0.250
tert-Butylbenzene	98-06-6		ND	1.00	0.250
Carbon disulfide	75-15-0		ND	1.00	0.500
Carbon tetrachloride	56-23-5		ND	1.00	0.250
Chlorobenzene	108-90-7		ND	1.00	0.125
Chlorodibromomethane	124-48-1		ND	1.00	0.250
Chloroethane	75-00-3		ND	1.00	0.500
2-Chloroethyl vinyl ether	110-75-8		ND	10.0	2.00
Chloroform	67-66-3		ND	1.00	0.125
Chloromethane	74-87-3		ND	1.00	0.500
2-Chlorotoluene	95-49-8		ND	1.00	0.125
4-Chlorotoluene	106-43-4		ND	1.00	0.250
1,2-Dibromo-3-chloropropane	96-12-8		ND	5.00	1.00
1,2-Dibromoethane	106-93-4		ND	1.00	0.250
Dibromomethane	74-95-3		ND	1.00	0.250
1,2-Dichlorobenzene	95-50-1		ND	1.00	0.125
1,3-Dichlorobenzene	541-73-1		ND	1.00	0.250
1,4-Dichlorobenzene	106-46-7		ND	1.00	0.125
Dichlorodifluoromethane	75-71-8		ND	1.00	0.250
1,1-Dichloroethane	75-34-3		ND	1.00	0.125
1,2-Dichloroethane	107-06-2		ND	1.00	0.250
1,1-Dichloroethene	75-35-4		ND	1.00	0.500
cis-1,2-Dichloroethene	156-59-2		ND	1.00	0.250
trans-1,2-Dichloroethene	156-60-5		ND	1.00	0.250
1,2-Dichloropropane	78-87-5		ND	1.00	0.200
1,3-Dichloropropane	142-28-9		ND	1.00	0.200
2,2-Dichloropropane	594-20-7		ND	1.00	0.250
cis-1,3-Dichloropropene	10061-01-5		ND	1.00	0.250
trans-1,3-Dichloropropene	10061-02-6		ND	1.00	0.500
1,1-Dichloropropene	563-58-6		ND	1.00	0.250
Ethylbenzene	100-41-4		ND	1.00	0.250
2-Hexanone	591-78-6		ND	10.0	2.50
Hexachlorobutadiene	87-68-3		ND	1.00	0.250
Isopropylbenzene	98-82-8		ND	1.00	0.250
p-Isopropyltoluene	99-87-6		ND	1.00	0.250
4-Methyl-2-pentanone	108-10-1		ND	10.0	2.50

Certificate of Analysis

Analyte	CAS #	Result	Qual	RL	MDL
Methylene chloride	75-09-2		ND	5.00	0.250
Naphthalene	91-20-3		ND	1.00	0.200
n-Propylbenzene	103-65-1		ND	1.00	0.125
Styrene	100-42-5		ND	1.00	0.125
1,1,1,2-Tetrachloroethane	630-20-6		ND	1.00	0.250
1,1,2,2-Tetrachloroethane	79-34-5		ND	1.00	0.200
Tetrachloroethene	127-18-4		ND	1.00	0.250
Toluene	108-88-3		ND	1.00	0.250
1,2,3-Trichlorobenzene	87-61-6		ND	1.00	0.150
1,2,4-Trichlorobenzene	120-82-1		ND	1.00	0.200
1,1,1-Trichloroethane	71-55-6		ND	1.00	0.250
1,1,2-Trichloroethane	79-00-5		ND	1.00	0.250
Trichloroethene	79-01-6		ND	1.00	0.250
Trichlorofluoromethane	75-69-4		ND	1.00	0.250
1,2,3-Trichloropropane	96-18-4		ND	1.00	0.500
1,2,4-Trimethylbenzene	95-63-6		ND	1.00	0.250
1,3,5-Trimethylbenzene	108-67-8		ND	1.00	0.250
Vinyl acetate	108-05-4		ND	10.0	2.50
Vinyl chloride	75-01-4		ND	1.00	0.250
o-Xylene	95-47-6		ND	1.00	0.250
m-,p-Xylene	179601-23-1		ND	1.00	0.500
Surrogate	Recovery	Lower Limit	Upper Limit	Q	
Dibromofluoromethane	97.6	86	118		
1,2-Dichloroethane-d4	81.5	80	120		
Toluene-d8	102	88	110		
4-Bromofluorobenzene	100	86	115		
ND	Not detected at or above the reporting limit (RL).				

Sample #: L12070658-32

PrePrep Method: N/A

Instrument: HPMS8

Client ID: FIELD BLANK 18JULY2012

Prep Method: 5030B/5030C/5035A

Prep Date: N/A

Matrix: Water

Analytical Method: 8260B

Cal Date: 06/28/2012 23:13

Workgroup #: WG404914

Analyst: ADC

Run Date: 07/30/2012 19:44

Collect Date: 07/18/2012 08:30

Dilution: 1

File ID: 8M381207

Sample Tag: 02

Units: ug/L

Analyte	CAS #	Result	Qual	RL	MDL
Acetone	67-64-1		ND	10.0	2.50
Benzene	71-43-2		ND	1.00	0.125
Bromobenzene	108-86-1		ND	1.00	0.125
Bromochloromethane	74-97-5		ND	1.00	0.200

Certificate of Analysis

Analyte	CAS #	Result	Qual	RL	MDL
Bromodichloromethane	75-27-4		ND	1.00	0.250
Bromoform	75-25-2		ND	1.00	0.500
Bromomethane	74-83-9		ND	1.00	0.500
2-Butanone	78-93-3		ND	10.0	2.50
n-Butylbenzene	104-51-8		ND	1.00	0.250
sec-Butylbenzene	135-98-8		ND	1.00	0.250
tert-Butylbenzene	98-06-6		ND	1.00	0.250
Carbon disulfide	75-15-0		ND	1.00	0.500
Carbon tetrachloride	56-23-5		ND	1.00	0.250
Chlorobenzene	108-90-7		ND	1.00	0.125
Chlorodibromomethane	124-48-1		ND	1.00	0.250
Chloroethane	75-00-3		ND	1.00	0.500
2-Chloroethyl vinyl ether	110-75-8		ND	10.0	2.00
Chloroform	67-66-3		ND	1.00	0.125
Chloromethane	74-87-3		ND	1.00	0.500
2-Chlorotoluene	95-49-8		ND	1.00	0.125
4-Chlorotoluene	106-43-4		ND	1.00	0.250
1,2-Dibromo-3-chloropropane	96-12-8		ND	5.00	1.00
1,2-Dibromoethane	106-93-4		ND	1.00	0.250
Dibromomethane	74-95-3		ND	1.00	0.250
1,2-Dichlorobenzene	95-50-1		ND	1.00	0.125
1,3-Dichlorobenzene	541-73-1		ND	1.00	0.250
1,4-Dichlorobenzene	106-46-7		ND	1.00	0.125
Dichlorodifluoromethane	75-71-8		ND	1.00	0.250
1,1-Dichloroethane	75-34-3		ND	1.00	0.125
1,2-Dichloroethane	107-06-2		ND	1.00	0.250
1,1-Dichloroethene	75-35-4		ND	1.00	0.500
cis-1,2-Dichloroethene	156-59-2		ND	1.00	0.250
trans-1,2-Dichloroethene	156-60-5		ND	1.00	0.250
1,2-Dichloropropane	78-87-5		ND	1.00	0.200
1,3-Dichloropropane	142-28-9		ND	1.00	0.200
2,2-Dichloropropane	594-20-7		ND	1.00	0.250
cis-1,3-Dichloropropene	10061-01-5		ND	1.00	0.250
trans-1,3-Dichloropropene	10061-02-6		ND	1.00	0.500
1,1-Dichloropropene	563-58-6		ND	1.00	0.250
Ethylbenzene	100-41-4		ND	1.00	0.250
2-Hexanone	591-78-6		ND	10.0	2.50
Hexachlorobutadiene	87-68-3		ND	1.00	0.250
Isopropylbenzene	98-82-8		ND	1.00	0.250

Certificate of Analysis

Analyte	CAS #	Result	Qual	RL	MDL
p-Isopropyltoluene	99-87-6		ND	1.00	0.250
4-Methyl-2-pentanone	108-10-1		ND	10.0	2.50
Methylene chloride	75-09-2		ND	5.00	0.250
Naphthalene	91-20-3		ND	1.00	0.200
n-Propylbenzene	103-65-1		ND	1.00	0.125
Styrene	100-42-5		ND	1.00	0.125
1,1,1,2-Tetrachloroethane	630-20-6		ND	1.00	0.250
1,1,1,2-Tetrachloroethane	79-34-5		ND	1.00	0.200
Tetrachloroethene	127-18-4		ND	1.00	0.250
Toluene	108-88-3	0.716	J	1.00	0.250
1,2,3-Trichlorobenzene	87-61-6		ND	1.00	0.150
1,2,4-Trichlorobenzene	120-82-1		ND	1.00	0.200
1,1,1-Trichloroethane	71-55-6		ND	1.00	0.250
1,1,1,2-Trichloroethane	79-00-5		ND	1.00	0.250
Trichloroethene	79-01-6		ND	1.00	0.250
Trichlorofluoromethane	75-69-4		ND	1.00	0.250
1,2,3-Trichloropropane	96-18-4		ND	1.00	0.500
1,2,4-Trimethylbenzene	95-63-6		ND	1.00	0.250
1,3,5-Trimethylbenzene	108-67-8		ND	1.00	0.250
Vinyl acetate	108-05-4		ND	10.0	2.50
Vinyl chloride	75-01-4		ND	1.00	0.250
o-Xylene	95-47-6		ND	1.00	0.250
m-,p-Xylene	179601-23-1		ND	1.00	0.500
Surrogate	Recovery	Lower Limit	Upper Limit	Q	
Dibromofluoromethane	102	86	118		
1,2-Dichloroethane-d4	87.0	80	120		
Toluene-d8	102	88	110		
4-Bromofluorobenzene	102	86	115		
J	Estimated value; the analyte concentration was less than the RL/LOQ.				
ND	Not detected at or above the reporting limit (RL).				

Sample #: L12070658-33

PrePrep Method: N/A

Instrument: HPMS8

Client ID: MW4-1

Prep Method: 5030B/5030C/5035A

Prep Date: N/A

Matrix: Water

Analytical Method: 8260B

Cal Date: 06/28/2012 23:13

Workgroup #: WG404914

Analyst: ADC

Run Date: 07/30/2012 20:14

Collect Date: 07/18/2012 08:45

Dilution: 1

File ID: 8M381208

Sample Tag: 02

Units: ug/L

Analyte	CAS #	Result	Qual	RL	MDL
Acetone	67-64-1		ND	10.0	2.50

Certificate of Analysis

Analyte	CAS #	Result	Qual	RL	MDL
Benzene	71-43-2		ND	1.00	0.125
Bromobenzene	108-86-1		ND	1.00	0.125
Bromochloromethane	74-97-5		ND	1.00	0.200
Bromodichloromethane	75-27-4		ND	1.00	0.250
Bromoform	75-25-2		ND	1.00	0.500
Bromomethane	74-83-9		ND	1.00	0.500
2-Butanone	78-93-3		ND	10.0	2.50
n-Butylbenzene	104-51-8		ND	1.00	0.250
sec-Butylbenzene	135-98-8		ND	1.00	0.250
tert-Butylbenzene	98-06-6		ND	1.00	0.250
Carbon disulfide	75-15-0		ND	1.00	0.500
Carbon tetrachloride	56-23-5		ND	1.00	0.250
Chlorobenzene	108-90-7		ND	1.00	0.125
Chlorodibromomethane	124-48-1		ND	1.00	0.250
Chloroethane	75-00-3		ND	1.00	0.500
2-Chloroethyl vinyl ether	110-75-8		ND	10.0	2.00
Chloroform	67-66-3		ND	1.00	0.125
Chloromethane	74-87-3		ND	1.00	0.500
2-Chlorotoluene	95-49-8		ND	1.00	0.125
4-Chlorotoluene	106-43-4		ND	1.00	0.250
1,2-Dibromo-3-chloropropane	96-12-8		ND	5.00	1.00
1,2-Dibromoethane	106-93-4		ND	1.00	0.250
Dibromomethane	74-95-3		ND	1.00	0.250
1,2-Dichlorobenzene	95-50-1		ND	1.00	0.125
1,3-Dichlorobenzene	541-73-1		ND	1.00	0.250
1,4-Dichlorobenzene	106-46-7		ND	1.00	0.125
Dichlorodifluoromethane	75-71-8		ND	1.00	0.250
1,1-Dichloroethane	75-34-3		ND	1.00	0.125
1,2-Dichloroethane	107-06-2		ND	1.00	0.250
1,1-Dichloroethene	75-35-4	0.663	J	1.00	0.500
cis-1,2-Dichloroethene	156-59-2	0.320	J	1.00	0.250
trans-1,2-Dichloroethene	156-60-5		ND	1.00	0.250
1,2-Dichloropropane	78-87-5		ND	1.00	0.200
1,3-Dichloropropane	142-28-9		ND	1.00	0.200
2,2-Dichloropropane	594-20-7		ND	1.00	0.250
cis-1,3-Dichloropropene	10061-01-5		ND	1.00	0.250
trans-1,3-Dichloropropene	10061-02-6		ND	1.00	0.500
1,1-Dichloropropene	563-58-6		ND	1.00	0.250
Ethylbenzene	100-41-4		ND	1.00	0.250

Certificate of Analysis

Analyte	CAS #	Result	Qual	RL	MDL
2-Hexanone	591-78-6		ND	10.0	2.50
Hexachlorobutadiene	87-68-3		ND	1.00	0.250
Isopropylbenzene	98-82-8		ND	1.00	0.250
p-Isopropyltoluene	99-87-6		ND	1.00	0.250
4-Methyl-2-pentanone	108-10-1		ND	10.0	2.50
Methylene chloride	75-09-2		ND	5.00	0.250
Naphthalene	91-20-3		ND	1.00	0.200
n-Propylbenzene	103-65-1		ND	1.00	0.125
Styrene	100-42-5		ND	1.00	0.125
1,1,1,2-Tetrachloroethane	630-20-6		ND	1.00	0.250
1,1,2,2-Tetrachloroethane	79-34-5		ND	1.00	0.200
Tetrachloroethene	127-18-4	20.1		1.00	0.250
Toluene	108-88-3		ND	1.00	0.250
1,2,3-Trichlorobenzene	87-61-6		ND	1.00	0.150
1,2,4-Trichlorobenzene	120-82-1		ND	1.00	0.200
1,1,1-Trichloroethane	71-55-6		ND	1.00	0.250
1,1,2-Trichloroethane	79-00-5		ND	1.00	0.250
Trichloroethene	79-01-6	3.63		1.00	0.250
Trichlorofluoromethane	75-69-4		ND	1.00	0.250
1,2,3-Trichloropropane	96-18-4		ND	1.00	0.500
1,2,4-Trimethylbenzene	95-63-6		ND	1.00	0.250
1,3,5-Trimethylbenzene	108-67-8		ND	1.00	0.250
Vinyl acetate	108-05-4		ND	10.0	2.50
Vinyl chloride	75-01-4		ND	1.00	0.250
o-Xylene	95-47-6		ND	1.00	0.250
m-, p-Xylene	179601-23-1		ND	1.00	0.500
Surrogate	Recovery	Lower Limit	Upper Limit	Q	
Dibromofluoromethane	99.9	86	118		
1,2-Dichloroethane-d4	85.8	80	120		
Toluene-d8	102	88	110		
4-Bromofluorobenzene	102	86	115		
J	Estimated value; the analyte concentration was less than the RL/LOQ.				
ND	Not detected at or above the reporting limit (RL).				

Certificate of Analysis

Sample #: L12070658-34	PrePrep Method: N/A	Instrument: HPMS8
Client ID: MW4-2	Prep Method: 5030B/5030C/5035A	Prep Date: N/A
Matrix: Water	Analytical Method: 8260B	Cal Date: 06/28/2012 23:13
Workgroup #: WG404914	Analyst: ADC	Run Date: 07/30/2012 20:44
Collect Date: 07/18/2012 10:45	Dilution: 1	File ID: 8M381209
Sample Tag: 02	Units: ug/L	

Analyte	CAS #	Result	Qual	RL	MDL
Acetone	67-64-1		ND	10.0	2.50
Benzene	71-43-2		ND	1.00	0.125
Bromobenzene	108-86-1		ND	1.00	0.125
Bromochloromethane	74-97-5		ND	1.00	0.200
Bromodichloromethane	75-27-4		ND	1.00	0.250
Bromoform	75-25-2		ND	1.00	0.500
Bromomethane	74-83-9		ND	1.00	0.500
2-Butanone	78-93-3		ND	10.0	2.50
n-Butylbenzene	104-51-8		ND	1.00	0.250
sec-Butylbenzene	135-98-8		ND	1.00	0.250
tert-Butylbenzene	98-06-6		ND	1.00	0.250
Carbon disulfide	75-15-0		ND	1.00	0.500
Carbon tetrachloride	56-23-5		ND	1.00	0.250
Chlorobenzene	108-90-7	0.183	J	1.00	0.125
Chlorodibromomethane	124-48-1		ND	1.00	0.250
Chloroethane	75-00-3		ND	1.00	0.500
2-Chloroethyl vinyl ether	110-75-8		ND	10.0	2.00
Chloroform	67-66-3		ND	1.00	0.125
Chloromethane	74-87-3		ND	1.00	0.500
2-Chlorotoluene	95-49-8		ND	1.00	0.125
4-Chlorotoluene	106-43-4		ND	1.00	0.250
1,2-Dibromo-3-chloropropane	96-12-8		ND	5.00	1.00
1,2-Dibromoethane	106-93-4		ND	1.00	0.250
Dibromomethane	74-95-3		ND	1.00	0.250
1,2-Dichlorobenzene	95-50-1		ND	1.00	0.125
1,3-Dichlorobenzene	541-73-1		ND	1.00	0.250
1,4-Dichlorobenzene	106-46-7		ND	1.00	0.125
Dichlorodifluoromethane	75-71-8		ND	1.00	0.250
1,1-Dichloroethane	75-34-3	0.273	J	1.00	0.125
1,2-Dichloroethane	107-06-2		ND	1.00	0.250
1,1-Dichloroethene	75-35-4	1.54		1.00	0.500
cis-1,2-Dichloroethene	156-59-2	0.561	J	1.00	0.250
trans-1,2-Dichloroethene	156-60-5		ND	1.00	0.250

Certificate of Analysis

Analyte	CAS #	Result	Qual	RL	MDL
1,2-Dichloropropane	78-87-5		ND	1.00	0.200
1,3-Dichloropropane	142-28-9		ND	1.00	0.200
2,2-Dichloropropane	594-20-7		ND	1.00	0.250
cis-1,3-Dichloropropene	10061-01-5		ND	1.00	0.250
trans-1,3-Dichloropropene	10061-02-6		ND	1.00	0.500
1,1-Dichloropropene	563-58-6		ND	1.00	0.250
Ethylbenzene	100-41-4		ND	1.00	0.250
2-Hexanone	591-78-6		ND	10.0	2.50
Hexachlorobutadiene	87-68-3		ND	1.00	0.250
Isopropylbenzene	98-82-8		ND	1.00	0.250
p-Isopropyltoluene	99-87-6		ND	1.00	0.250
4-Methyl-2-pentanone	108-10-1		ND	10.0	2.50
Methylene chloride	75-09-2		ND	5.00	0.250
Naphthalene	91-20-3		ND	1.00	0.200
n-Propylbenzene	103-65-1		ND	1.00	0.125
Styrene	100-42-5		ND	1.00	0.125
1,1,1,2-Tetrachloroethane	630-20-6		ND	1.00	0.250
1,1,1,2-Tetrachloroethane	79-34-5		ND	1.00	0.200
Tetrachloroethene	127-18-4	9.60		1.00	0.250
Toluene	108-88-3		ND	1.00	0.250
1,2,3-Trichlorobenzene	87-61-6		ND	1.00	0.150
1,2,4-Trichlorobenzene	120-82-1		ND	1.00	0.200
1,1,1-Trichloroethane	71-55-6		ND	1.00	0.250
1,1,2-Trichloroethane	79-00-5		ND	1.00	0.250
Trichloroethene	79-01-6	4.21		1.00	0.250
Trichlorofluoromethane	75-69-4		ND	1.00	0.250
1,2,3-Trichloropropane	96-18-4		ND	1.00	0.500
1,2,4-Trimethylbenzene	95-63-6		ND	1.00	0.250
1,3,5-Trimethylbenzene	108-67-8		ND	1.00	0.250
Vinyl acetate	108-05-4		ND	10.0	2.50
Vinyl chloride	75-01-4		ND	1.00	0.250
o-Xylene	95-47-6		ND	1.00	0.250
m-,p-Xylene	179601-23-1		ND	1.00	0.500
Surrogate	Recovery	Lower Limit	Upper Limit	Q	
Dibromofluoromethane	100	86	118		
1,2-Dichloroethane-d4	88.3	80	120		
Toluene-d8	103	88	110		
4-Bromofluorobenzene	102	86	115		
J	Estimated value; the analyte concentration was less than the RL/LOQ.				

Certificate of Analysis

ND	Not detected at or above the reporting limit (RL).
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Sample #: L12070658-35	PrePrep Method: N/A	Instrument: HPMS8
Client ID: MW4-3	Prep Method: 5030B/5030C/5035A	Prep Date: N/A
Matrix: Water	Analytical Method: 8260B	Cal Date: 06/28/2012 23:13
Workgroup #: WG404914	Analyst: ADC	Run Date: 07/30/2012 21:14
Collect Date: 07/18/2012 13:00	Dilution: 1	File ID: 8M381210
Sample Tag: 02	Units: ug/L	

Analyte	CAS #	Result	Qual	RL	MDL
Acetone	67-64-1		ND	10.0	2.50
Benzene	71-43-2		ND	1.00	0.125
Bromobenzene	108-86-1		ND	1.00	0.125
Bromochloromethane	74-97-5		ND	1.00	0.200
Bromodichloromethane	75-27-4		ND	1.00	0.250
Bromoform	75-25-2		ND	1.00	0.500
Bromomethane	74-83-9		ND	1.00	0.500
2-Butanone	78-93-3		ND	10.0	2.50
n-Butylbenzene	104-51-8		ND	1.00	0.250
sec-Butylbenzene	135-98-8		ND	1.00	0.250
tert-Butylbenzene	98-06-6		ND	1.00	0.250
Carbon disulfide	75-15-0		ND	1.00	0.500
Carbon tetrachloride	56-23-5		ND	1.00	0.250
Chlorobenzene	108-90-7	0.211	J	1.00	0.125
Chlorodibromomethane	124-48-1		ND	1.00	0.250
Chloroethane	75-00-3		ND	1.00	0.500
2-Chloroethyl vinyl ether	110-75-8		ND	10.0	2.00
Chloroform	67-66-3		ND	1.00	0.125
Chloromethane	74-87-3		ND	1.00	0.500
2-Chlorotoluene	95-49-8		ND	1.00	0.125
4-Chlorotoluene	106-43-4		ND	1.00	0.250
1,2-Dibromo-3-chloropropane	96-12-8		ND	5.00	1.00
1,2-Dibromoethane	106-93-4		ND	1.00	0.250
Dibromomethane	74-95-3		ND	1.00	0.250
1,2-Dichlorobenzene	95-50-1		ND	1.00	0.125
1,3-Dichlorobenzene	541-73-1		ND	1.00	0.250
1,4-Dichlorobenzene	106-46-7		ND	1.00	0.125
Dichlorodifluoromethane	75-71-8		ND	1.00	0.250
1,1-Dichloroethane	75-34-3	1.05		1.00	0.125
1,2-Dichloroethane	107-06-2		ND	1.00	0.250
1,1-Dichloroethene	75-35-4	7.58		1.00	0.500

Certificate of Analysis

Analyte	CAS #	Result	Qual	RL	MDL
cis-1,2-Dichloroethene	156-59-2	1.32		1.00	0.250
trans-1,2-Dichloroethene	156-60-5		ND	1.00	0.250
1,2-Dichloropropane	78-87-5		ND	1.00	0.200
1,3-Dichloropropane	142-28-9		ND	1.00	0.200
2,2-Dichloropropane	594-20-7		ND	1.00	0.250
cis-1,3-Dichloropropene	10061-01-5		ND	1.00	0.250
trans-1,3-Dichloropropene	10061-02-6		ND	1.00	0.500
1,1-Dichloropropene	563-58-6		ND	1.00	0.250
Ethylbenzene	100-41-4		ND	1.00	0.250
2-Hexanone	591-78-6		ND	10.0	2.50
Hexachlorobutadiene	87-68-3		ND	1.00	0.250
Isopropylbenzene	98-82-8		ND	1.00	0.250
p-Isopropyltoluene	99-87-6		ND	1.00	0.250
4-Methyl-2-pentanone	108-10-1		ND	10.0	2.50
Methylene chloride	75-09-2		ND	5.00	0.250
Naphthalene	91-20-3		ND	1.00	0.200
n-Propylbenzene	103-65-1		ND	1.00	0.125
Styrene	100-42-5		ND	1.00	0.125
1,1,1,2-Tetrachloroethane	630-20-6		ND	1.00	0.250
1,1,1,2-Tetrachloroethane	79-34-5		ND	1.00	0.200
Tetrachloroethene	127-18-4	18.8		1.00	0.250
Toluene	108-88-3		ND	1.00	0.250
1,2,3-Trichlorobenzene	87-61-6		ND	1.00	0.150
1,2,4-Trichlorobenzene	120-82-1		ND	1.00	0.200
1,1,1-Trichloroethane	71-55-6		ND	1.00	0.250
1,1,2-Trichloroethane	79-00-5		ND	1.00	0.250
Trichloroethene	79-01-6	13.5		1.00	0.250
Trichlorofluoromethane	75-69-4		ND	1.00	0.250
1,2,3-Trichloropropane	96-18-4		ND	1.00	0.500
1,2,4-Trimethylbenzene	95-63-6		ND	1.00	0.250
1,3,5-Trimethylbenzene	108-67-8		ND	1.00	0.250
Vinyl acetate	108-05-4		ND	10.0	2.50
Vinyl chloride	75-01-4		ND	1.00	0.250
o-Xylene	95-47-6		ND	1.00	0.250
m-, p-Xylene	179601-23-1		ND	1.00	0.500
Surrogate	Recovery	Lower Limit	Upper Limit	Q	
Dibromofluoromethane	101	86	118		
1,2-Dichloroethane-d4	88.0	80	120		
Toluene-d8	101	88	110		

Certificate of Analysis

4-Bromofluorobenzene	101	86	115	
J	Estimated value; the analyte concentration was less than the RL/LOQ.			
ND	Not detected at or above the reporting limit (RL).			

Sample #: L12070658-36

PrePrep Method: N/A

Instrument: HPMS8

Client ID: 35B WW14

Prep Method: 5030B/5030C/5035A

Prep Date: N/A

Matrix: Water

Analytical Method: 8260B

Cal Date: 06/28/2012 23:13

Workgroup #: WG404914

Analyst: ADC

Run Date: 07/30/2012 21:43

Collect Date: 07/18/2012 14:25

Dilution: 1

File ID: 8M381211

Sample Tag: 02

Units: ug/L

Analyte	CAS #	Result	Qual	RL	MDL
Acetone	67-64-1		ND	10.0	2.50
Benzene	71-43-2	0.228	J	1.00	0.125
Bromobenzene	108-86-1		ND	1.00	0.125
Bromochloromethane	74-97-5		ND	1.00	0.200
Bromodichloromethane	75-27-4		ND	1.00	0.250
Bromoform	75-25-2		ND	1.00	0.500
Bromomethane	74-83-9		ND	1.00	0.500
2-Butanone	78-93-3		ND	10.0	2.50
n-Butylbenzene	104-51-8		ND	1.00	0.250
sec-Butylbenzene	135-98-8		ND	1.00	0.250
tert-Butylbenzene	98-06-6		ND	1.00	0.250
Carbon disulfide	75-15-0		ND	1.00	0.500
Carbon tetrachloride	56-23-5		ND	1.00	0.250
Chlorobenzene	108-90-7		ND	1.00	0.125
Chlorodibromomethane	124-48-1		ND	1.00	0.250
Chloroethane	75-00-3		ND	1.00	0.500
2-Chloroethyl vinyl ether	110-75-8		ND	10.0	2.00
Chloroform	67-66-3	0.195	J	1.00	0.125
Chloromethane	74-87-3		ND	1.00	0.500
2-Chlorotoluene	95-49-8		ND	1.00	0.125
4-Chlorotoluene	106-43-4		ND	1.00	0.250
1,2-Dibromo-3-chloropropane	96-12-8		ND	5.00	1.00
1,2-Dibromoethane	106-93-4		ND	1.00	0.250
Dibromomethane	74-95-3		ND	1.00	0.250
1,2-Dichlorobenzene	95-50-1		ND	1.00	0.125
1,3-Dichlorobenzene	541-73-1		ND	1.00	0.250
1,4-Dichlorobenzene	106-46-7		ND	1.00	0.125
Dichlorodifluoromethane	75-71-8		ND	1.00	0.250
1,1-Dichloroethane	75-34-3	4.95		1.00	0.125

Certificate of Analysis

Analyte	CAS #	Result	Qual	RL	MDL
1,2-Dichloroethane	107-06-2		ND	1.00	0.250
1,1-Dichloroethene	75-35-4	52.3		1.00	0.500
cis-1,2-Dichloroethene	156-59-2	13.2		1.00	0.250
trans-1,2-Dichloroethene	156-60-5	0.381	J	1.00	0.250
1,2-Dichloropropane	78-87-5		ND	1.00	0.200
1,3-Dichloropropane	142-28-9		ND	1.00	0.200
2,2-Dichloropropane	594-20-7		ND	1.00	0.250
cis-1,3-Dichloropropene	10061-01-5		ND	1.00	0.250
trans-1,3-Dichloropropene	10061-02-6		ND	1.00	0.500
1,1-Dichloropropene	563-58-6		ND	1.00	0.250
Ethylbenzene	100-41-4		ND	1.00	0.250
2-Hexanone	591-78-6		ND	10.0	2.50
Hexachlorobutadiene	87-68-3		ND	1.00	0.250
Isopropylbenzene	98-82-8		ND	1.00	0.250
p-Isopropyltoluene	99-87-6		ND	1.00	0.250
4-Methyl-2-pentanone	108-10-1		ND	10.0	2.50
Methylene chloride	75-09-2		ND	5.00	0.250
Naphthalene	91-20-3		ND	1.00	0.200
n-Propylbenzene	103-65-1		ND	1.00	0.125
Styrene	100-42-5		ND	1.00	0.125
1,1,1,2-Tetrachloroethane	630-20-6		ND	1.00	0.250
1,1,1,2,2-Tetrachloroethane	79-34-5		ND	1.00	0.200
Tetrachloroethene	127-18-4	21.0		1.00	0.250
Toluene	108-88-3		ND	1.00	0.250
1,2,3-Trichlorobenzene	87-61-6		ND	1.00	0.150
1,2,4-Trichlorobenzene	120-82-1		ND	1.00	0.200
1,1,1-Trichloroethane	71-55-6		ND	1.00	0.250
1,1,2-Trichloroethane	79-00-5		ND	1.00	0.250
Trichloroethene	79-01-6	80.6		1.00	0.250
Trichlorofluoromethane	75-69-4		ND	1.00	0.250
1,2,3-Trichloropropane	96-18-4		ND	1.00	0.500
1,2,4-Trimethylbenzene	95-63-6		ND	1.00	0.250
1,3,5-Trimethylbenzene	108-67-8		ND	1.00	0.250
Vinyl acetate	108-05-4		ND	10.0	2.50
Vinyl chloride	75-01-4	4.02		1.00	0.250
o-Xylene	95-47-6		ND	1.00	0.250
m-,p-Xylene	179601-23-1		ND	1.00	0.500
Surrogate	Recovery	Lower Limit	Upper Limit	Q	
Dibromofluoromethane	100	86	118		

Certificate of Analysis

1,2-Dichloroethane-d4	86.1	80	120	
Toluene-d8	103	88	110	
4-Bromofluorobenzene	103	86	115	
J	Estimated value; the analyte concentration was less than the RL/LOQ.			
ND	Not detected at or above the reporting limit (RL).			

Sample #: L12070658-37

PrePrep Method: N/A

Instrument: HPMS8

Client ID: 35B WW07

Prep Method: 5030B/5030C/5035A

Prep Date: N/A

Matrix: Water

Analytical Method: 8260B

Cal Date: 06/28/2012 23:13

Workgroup #: WG404914

Analyst: ADC

Run Date: 07/30/2012 22:14

Collect Date: 07/18/2012 15:40

Dilution: 1

File ID: 8M381212

Sample Tag: 02

Units: ug/L

Analyte	CAS #	Result	Qual	RL	MDL
Acetone	67-64-1		ND	10.0	2.50
Benzene	71-43-2		ND	1.00	0.125
Bromobenzene	108-86-1		ND	1.00	0.125
Bromochloromethane	74-97-5		ND	1.00	0.200
Bromodichloromethane	75-27-4		ND	1.00	0.250
Bromoform	75-25-2		ND	1.00	0.500
Bromomethane	74-83-9		ND	1.00	0.500
2-Butanone	78-93-3		ND	10.0	2.50
n-Butylbenzene	104-51-8		ND	1.00	0.250
sec-Butylbenzene	135-98-8		ND	1.00	0.250
tert-Butylbenzene	98-06-6		ND	1.00	0.250
Carbon disulfide	75-15-0		ND	1.00	0.500
Carbon tetrachloride	56-23-5		ND	1.00	0.250
Chlorobenzene	108-90-7		ND	1.00	0.125
Chlorodibromomethane	124-48-1		ND	1.00	0.250
Chloroethane	75-00-3		ND	1.00	0.500
2-Chloroethyl vinyl ether	110-75-8		ND	10.0	2.00
Chloroform	67-66-3		ND	1.00	0.125
Chloromethane	74-87-3		ND	1.00	0.500
2-Chlorotoluene	95-49-8		ND	1.00	0.125
4-Chlorotoluene	106-43-4		ND	1.00	0.250
1,2-Dibromo-3-chloropropane	96-12-8		ND	5.00	1.00
1,2-Dibromoethane	106-93-4		ND	1.00	0.250
Dibromomethane	74-95-3		ND	1.00	0.250
1,2-Dichlorobenzene	95-50-1		ND	1.00	0.125
1,3-Dichlorobenzene	541-73-1		ND	1.00	0.250
1,4-Dichlorobenzene	106-46-7		ND	1.00	0.125

Certificate of Analysis

Analyte	CAS #	Result	Qual	RL	MDL
Dichlorodifluoromethane	75-71-8		ND	1.00	0.250
1,1-Dichloroethane	75-34-3		ND	1.00	0.125
1,2-Dichloroethane	107-06-2		ND	1.00	0.250
1,1-Dichloroethene	75-35-4		ND	1.00	0.500
cis-1,2-Dichloroethene	156-59-2		ND	1.00	0.250
trans-1,2-Dichloroethene	156-60-5		ND	1.00	0.250
1,2-Dichloropropane	78-87-5		ND	1.00	0.200
1,3-Dichloropropane	142-28-9		ND	1.00	0.200
2,2-Dichloropropane	594-20-7		ND	1.00	0.250
cis-1,3-Dichloropropene	10061-01-5		ND	1.00	0.250
trans-1,3-Dichloropropene	10061-02-6		ND	1.00	0.500
1,1-Dichloropropene	563-58-6		ND	1.00	0.250
Ethylbenzene	100-41-4		ND	1.00	0.250
2-Hexanone	591-78-6		ND	10.0	2.50
Hexachlorobutadiene	87-68-3		ND	1.00	0.250
Isopropylbenzene	98-82-8		ND	1.00	0.250
p-Isopropyltoluene	99-87-6		ND	1.00	0.250
4-Methyl-2-pentanone	108-10-1		ND	10.0	2.50
Methylene chloride	75-09-2		ND	5.00	0.250
Naphthalene	91-20-3		ND	1.00	0.200
n-Propylbenzene	103-65-1		ND	1.00	0.125
Styrene	100-42-5		ND	1.00	0.125
1,1,1,2-Tetrachloroethane	630-20-6		ND	1.00	0.250
1,1,1,2-Tetrachloroethane	79-34-5		ND	1.00	0.200
Tetrachloroethene	127-18-4		ND	1.00	0.250
Toluene	108-88-3		ND	1.00	0.250
1,2,3-Trichlorobenzene	87-61-6		ND	1.00	0.150
1,2,4-Trichlorobenzene	120-82-1		ND	1.00	0.200
1,1,1-Trichloroethane	71-55-6		ND	1.00	0.250
1,1,2-Trichloroethane	79-00-5		ND	1.00	0.250
Trichloroethene	79-01-6		ND	1.00	0.250
Trichlorofluoromethane	75-69-4		ND	1.00	0.250
1,2,3-Trichloropropane	96-18-4		ND	1.00	0.500
1,2,4-Trimethylbenzene	95-63-6		ND	1.00	0.250
1,3,5-Trimethylbenzene	108-67-8		ND	1.00	0.250
Vinyl acetate	108-05-4		ND	10.0	2.50
Vinyl chloride	75-01-4		ND	1.00	0.250
o-Xylene	95-47-6		ND	1.00	0.250
m-,p-Xylene	179601-23-1		ND	1.00	0.500

Certificate of Analysis

Surrogate	Recovery	Lower Limit	Upper Limit	Q
Dibromofluoromethane	99.3	86	118	
1,2-Dichloroethane-d4	87.5	80	120	
Toluene-d8	103	88	110	
4-Bromofluorobenzene	102	86	115	
ND	Not detected at or above the reporting limit (RL).			

2.1.1.2 QC Summary Data

Example 8260 Calculations

1.0 Calculating the Response Factor (RF) from the initial calibration (ICAL) data:

$$RF = [(Ax) (Cis)] / [(Ais) (Cx)]$$

where:

Ax = Area of the characteristic ion for the compound being measured:	3399156
Cis = Concentration of the specific internal standard (ug/mL)	25
Ais = Area of the characteristic ion of the specific internal standard	846471
Cx = Concentration of the compound in the standard being measured (ug/mL)	100
RF = Calculated Response Factor	1.0039

Example

2.0 Calculating the concentration (C) of a compound in water using the average RF: *

$$Cx = [(Ax) (Cis) (Vn)(D)] / [(Ais) (RF) (Vs)]$$

where:

Ax = Area of the characteristic ion for the compound being measured	3122498
Cis = Concentration of the specific internal standard (ug/L)	25
D = Dilution factor for sample as a multiplier (10x = 10)	1
Ais = Area of the characteristic ion of the specific internal standard	611048
RF = Average RF from the ICAL	1.004
Vs = Purge volume of sample (mL)	10
Vn = Nominal purge volume of sample (mL) (10.0 mL)	10
Cx = Concentration of the compound in the sample being measured (ug/L)	127.2428

Example

3.0 Calculating the concentration (C) of a compound in soil using the average RF: *

$$Cx = [(Ax) (Cis) (Wn)(D)] / [(Ais) (RF) (Ws)]$$

where:

Ax = Area of the characteristic ion for the compound being measured	3122498
Cis = Concentration of the specific internal standard (ug/L)	25
D = Dilution factor for sample as a multiplier (10x = 10)	1
Ais = Area of the characteristic ion of the specific internal standard	611048
RF = Average RF from the ICAL	1.004
Ws = Weight of sample purged (g)	5
Wn = Nominal purge weight (g) (5.0 g)	5
Cx = Concentration of the compound in the sample being measured (ug/L)	127.2428

Example

Dry weight correction:

Percent solids (PCT_S)	50
Cd = (Cx) (100)/PCT_S	254.4856

* Concentrations appearing on the instrument quantitation reports are on-column results and do not take into account initial volume, final volume, and the dilution factor.

4.0 Concentration from Linear Regression

Step 1: Retrieve Curve Data From Plot, $y = mx + b$

y = response ratio = response of analyte / response of IS = Ax/Ais

x = amount ratio = concentration analyte/concentration internal standard = Cx / Cis

m = slope from curve = 0.213

b = intercept from curve = - 0.00642

Step 2: Calculate y from Quantitation Report

$$y = 86550/593147 = 0.1459$$

Step 3: Solve for x

$$x = (y - b)/m = [(0.1459 - (-0.00642))/0.213] = 0.7152$$

Step 4: Solve for analyte concentration Cx

$$Cx = Cis (x) = (25.0)(0.7152) = 17.88$$

Example Spreadsheet Calculation:

Slope from curve, m:	0.213
Intercept from curve, b:	-0.00642
Area of analyte, Ax:	86550
Area of Internal Standard, Ais:	593147
Concentration of IS, Cis	25.00
Response Ratio:	0.145917
Amount Ratio:	0.715195
Concentration:	17.87988
Units of Internal Standard:	ug/L

5.0 Concentration from Quadratic Regression**Step 1 - Retrieve Curve Data from Plot, $y = Ax^2 + Bx + C$**

Where:

$$Ax^2 + Bx + (C - y) = 0$$

A, B, C = constants from the ICAL quadratic regression

y = Response ratio = Area of analyte/Area of internal standard (IS)

x = Amount ratio = Concentration of analyte/concentration of IS

Step 2: Calculate y from Quantitation Report

$$y = Ax/Ais$$

Step 3: Solve for x using the quadratic formula

$$Ax^2 + Bx + C - y = 0$$

$$x = \frac{b \pm \sqrt{(b^2 - 4a(c - y))}}{2a} \quad (\text{Two possible solutions})$$

Step 4: Solve for analyte concentration Cx

$$Cx = (Cis)(\text{Amount ratio})$$

Example Spreadsheet Calculation:

Value of A from plot:	-0.00629
Value of B from plot:	0.511
Value of C from plot:	-0.0276
Area of unknown from quantitation report:	293821
Area of IS from quantitation report:	784848
Response ratio, y:	0.374367
C - y:	-0.40197
Root 1 - Computed amount ratio, X1:	80.44567
Root 2 - Computed amount ratio, X2:	0.794396 use this solution
Concentration of IS, Cis:	25.00
Concentration of analyte, Cx:	19.86 ug/L

Microbac Laboratories Inc.

Instrument Run Log

Instrument: HPMS10 Dataset: 011012
 Analyst1: TMB Analyst2: NA
 Method: 8260B/OVAP SOP: MSV01 Rev: 14/0
 Method: 624 SOP: MSV10 Rev: 8
 Method: 5030B/5030C/5035A SOP: PAT01 Rev: 13
 Maintenance Log ID: 40298

Internal Standard: STD49130 Surrogate Standard: STD49250
 CCV: STD49290 LCS: STD49518 MS/MSD: NA
 Column 1 ID: RTX502.2 Column 2 ID: NA
 Workgroups: WG386582

Comments:

File ID	Sample Information	pH	Mat	Dil	Reference	Date/Time
10M92447	RINSE	NA	1	1		01/10/12 08:55
10M92448	RINSE	NA	1	1		01/10/12 09:29
10M92449	RINSE	NA	1	1		01/10/12 10:02
10M92450	WG386582-01 50ng BFB STD 8260	NA	1	1	STD49071	01/10/12 12:09
10M92451	WG386582-02 5ug/L A9 STD 8260	NA	1	1	STD49290	01/10/12 12:37
10M92452	WG386582-03 20ug/L A9 STD 8260	NA	1	1	STD49290	01/10/12 13:10
10M92453	WG386582-04 50ug/L A9 STD 8260	NA	1	1	STD49290	01/10/12 13:44
10M92454	WG386582-05 100ug/L A9 STD 8260	NA	1	1	STD49290	01/10/12 14:19
10M92455	WG386582-06 200ug/L A9 STD 8260	NA	1	1	STD49290	01/10/12 14:54
10M92456	WG386582-07 300ug/L A9 STD 8260	NA	1	1	STD49290	01/10/12 15:29
10M92457	WG386582-08 400ug/L A9 STD 8260	NA	1	1	STD49290	01/10/12 16:05
10M92458	WG386582-09 500ug/L A9 STD 8260	NA	1	1	STD49290	01/10/12 16:42
10M92459	RINSE	NA	1	1		01/10/12 17:18
10M92460	RINSE	NA	1	1		01/10/12 17:55
10M92461	WG386582-10 100ug/L A9 ALT SRC STD	NA	1	1	STD49484	01/10/12 18:30
10M92462	RINSE	NA	1	1		01/10/12 19:06
10M92463	WG386635-01 VBLK0110 BLANK A9/FOO	NA	1	1		01/10/12 19:40
10M92464	WG386635-02 100ug/L P&A A9/FOO	NA	1	1	STD49484	01/10/12 20:15
10M92465	WG386635-03 100ug/L P&A A9/FOO	NA	1	1	STD49484	01/10/12 20:49
10M92466	WG386635-04 100ug/L P&A A9/FOO	NA	1	1	STD49484	01/10/12 21:22
10M92467	WG386635-05 100ug/L P&A A9/FOO	NA	1	1	STD49484	01/10/12 21:55
10M92468	RINSE	NA	1	1		01/10/12 22:27

Comments

Seq.	Rerun	Dil.	Reason	Analytes
15	X			
File ID: 10M92461				
Cyclohexanone was low. DNR.				
18	X			
File ID: 10M92464				
Rerunning all P&A's. Cyclohexanone was low. DNR.				

Approved: January 13, 2012

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Instrument Run Log

Instrument: HPMS10 Dataset: 011112
 Analyst1: TMB Analyst2: NA
 Method: 8260B/OVAP SOP: MSV01 Rev: 14/0
 Method: 624 SOP: MSV10 Rev: 8
 Method: 5030B/5030C/5035A SOP: PAT01 Rev: 13
 Maintenance Log ID: 40299

Internal Standard: STD49130 Surrogate Standard: STD49250
 CCV: STD49482; STD49290 LCS: STD49518; STD49347 MS/MSD: STD49347
 Column 1 ID: RTX502.2 Column 2 ID: NA
 Workgroups: WG386652

Comments:

File ID	Sample Information	pH	Mat	Dil	Reference	Date/Time
10M92470	WG386650-01 50ng BFB STD 8260	NA	1	1	STD49071	01/11/12 08:36
10M92471	WG386650-02 50ug/L CCV STD 8260	NA	1	1	STD49482	01/11/12 09:01
10M92472	WG386650-02 50ug/L CCV STD 8260	NA	1	1	STD49482	01/11/12 09:33
10M92473	WG386651-01 100ug/L A9 CCV STD 8260	NA	1	1	STD49290	01/11/12 10:06
10M92474	WG386652-01 VBLK0111 BLANK STD 826	NA	1	1		01/11/12 10:39
10M92475	WG386582-10 A9/FOO ALT SRC STD 826	NA	1	1	STD49518	01/11/12 11:11
10M92476	WG386652-02 20ug/L LCS STD 8260	NA	1	1	STD49519	01/11/12 11:44
10M92477	WG386652-03 20ug/L Pl&A STD 8260	NA	1	1	STD49519	01/11/12 12:17
10M92478	WG386652-04 20ug/L Pl&A STD 8260	NA	1	1	STD49519	01/11/12 12:50
10M92479	WG386652-05 20ug/L Pl&A STD 8260	NA	1	1	STD49519	01/11/12 13:23
10M92480	L12010216-02 MS A 826-A9	<2	1	1	STD49347	01/11/12 13:56
10M92481	L12010216-03 MSD A 826-A9	<2	1	1	STD49347	01/11/12 14:29
10M92482	L12010216-05 MS A 826-A9	<2	1	1	STD49347	01/11/12 15:02
10M92483	L12010216-06 MSD A 826-A9	<2	1	1	STD49347	01/11/12 15:36
10M92484	WG386131-01 FBLK 10X 826-TC	NA	17	10		01/11/12 16:09
10M92485	L12010216-12 A 826-A9	<2	1	1		01/11/12 16:43
10M92486	L12010216-01 A 826-A9	<2	1	1		01/11/12 17:18
10M92487	L12010216-04 A 826-A9	<2	1	1		01/11/12 17:53
10M92488	L12010216-07 A 826-A9	<2	1	1		01/11/12 18:28
10M92489	L12010216-08 A 826-A9	<2	1	1		01/11/12 19:03
10M92490	L12010216-09 A 826-A9	<2	1	1		01/11/12 19:39
10M92491	L12010216-10 A 826-A9	<2	1	1		01/11/12 20:15
10M92492	L12010216-11 A 826-A9	<2	1	1		01/11/12 20:50
10M92493	RINSE	NA	1	1		01/11/12 21:25
10M92494	WG386652-12 624 BLANK	NA	1	1		01/11/12 22:01
10M92495	L12010220-04 A 624	7	2	1		01/12/12 08:20
10M92496	RINSE	NA	1	1		01/12/12 08:54

Comments

Seq.	Rerun	Dil.	Reason	Analytes
2	X			
File ID: 10M92471				
Vc was high, DNR.				

Approved: January 13, 2012

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Instrument Run Log

Instrument: HPMS10 Dataset: 011112
 Analyst1: TMB Analyst2: NA
 Method: 8260B/OVAP SOP: MSV01 Rev: 14/0
 Method: 624 SOP: MSV10 Rev: 8
 Method: 5030B/5030C/5035A SOP: PAT01 Rev: 13
 Maintenance Log ID: 40299

Internal Standard: STD49130 Surrogate Standard: STD49250
 CCV: STD49482; STD49290 LCS: STD49518; STD49347 MS/MSD: STD49347
 Column 1 ID: RTX502.2 Column 2 ID: NA
 Workgroups: WG386652

Comments:

Comments

Seq.	Rerun	Dil.	Reason	Analytes
8	X			
File ID: 10M92477				
Can't run 8260 and A9 together. DNR.				
9	X			
File ID: 10M92478				
Can't run 8260 and A9 together. DNR.				
10	X			
File ID: 10M92479				
Can't run 8260 and A9 together. DNR.				
23	X	1	Missed Tune	
File ID: 10M92492				
DNR.				

Approved: January 13, 2012

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Instrument Run Log

Instrument: HPMS8 Dataset: 012512
 Analyst1: ADC Analyst2: NA
 Method: 8260B SOP: MSV01 Rev: 14
 Method: 624 SOP: MSV10 Rev: 8
 Method: 5030B/5030C/5035A SOP: PAT01 Rev: 13
 Maintenance Log ID: 40490

Internal Standard: STD49574 Surrogate Standard: STD49574
 CCV: STD49665 LCS: STD49523 MS/MSD: NA
 Column 1 ID: RTX502.2 Column 2 ID: NA
 Workgroups: WG387881(ICAL), WG387845

Comments:

File ID	Sample Information	pH	Mat	Dil	Reference	Date/Time
8M376554	WG387844-01 50ng BFB STD 8260	NA	1	1	STD49582	01/25/12 10:52
8M376555	WG387844-02 50ug/L CCV STD 8260	NA	1	1	STD49665	01/25/12 11:14
8M376556	WG387XXX-01 100ug/L A9 CCV STD 8260	NA	1	1	STD49484	01/25/12 11:43
8M376557	WG387845-01 VBLK0125 BLANK STD 826	NA	1	1		01/25/12 12:13
8M376558	WG387881-01 5ug/L A9FOO STD	NA	1	1	STD49721	01/25/12 12:43
8M376559	WG387881-02 20ug/L A9FOO STD	NA	1	1	STD49721	01/25/12 13:28
8M376560	WG387881-03 50ug/L A9FOO STD	NA	1	1	STD49721	01/25/12 13:58
8M376561	WG387881-04 100ug/L A9FOO STD	NA	1	1	STD49721	01/25/12 14:29
8M376562	WG387881-05 200ug/L A9FOO STD	NA	1	1	STD49721	01/25/12 14:59
8M376563	WG387881-06 300ug/L A9FOO STD	NA	1	1	STD49721	01/25/12 15:29
8M376564	WG387881-07 400ug/L A9FOO STD	NA	1	1	STD49721	01/25/12 15:59
8M376565	WG387881-08 100ug/L A9FOO ALT	NA	1	1	STD49721	01/25/12 16:29
8M376566	WG387845-02 100ug/L A9FOO LCS	NA	1	1	STD49721	01/25/12 16:59
8M376567	WG387845-03 100ug/L A9FOO LCSDUP	NA	1	1	STD49721	01/25/12 17:29
8M376568	WG387845-04 100ug/L A9FOO P\&A	NA	1	1	STD49721	01/25/12 17:59
8M376569	WG387845-05 100ug/L A9FOO P\&A	NA	1	1	STD49721	01/25/12 18:29

Approved: February 02, 2012

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Instrument Run Log

Instrument: HPMS11 Dataset: 050312
 Analyst1: ADC Analyst2: NA
 Method: 8260B SOP: MSV01 Rev: 14
 Method: 624 SOP: MSV10 Rev: 8
 Method: 5030C/5035A SOP: PAT01 Rev: 13
 Maintenance Log ID: 41642

Internal Standard: STD51423 Surrogate Standard: STD51518
 CCV: NA LCS: STD51372 MS/MSD: NA
 Column 1 ID: RTX502.2 Column 2 ID: NA
 Workgroups: WG396851

Comments:

File ID	Sample Information	pH	Mat	Dil	Reference	Date/Time
11M83323	RINSE	NA	1	1		05/03/12 12:10
11M83324	RINSE	NA	1	1		05/03/12 13:03
11M83325	RINSE	NA	1	1		05/03/12 13:43
11M83326	RINSE	NA	1	1		05/03/12 14:37
11M83327	WG396851-01 BFB 50ng 8260	NA	1	1	STD51241	05/03/12 15:46
11M83328	WG396851-01 BFB 50ng 8260	NA	1	1	STD51241	05/03/12 15:58
11M83329	WG396851-01 BFB 50ng 8260	NA	1	1	STD51241	05/03/12 16:30
11M83330	WG396851-02 0.3ug/L STD 8260	NA	1	1	STD51468	05/03/12 17:01
11M83331	WG396851-03 0.4ug/L STD 8260	NA	1	1	STD51468	05/03/12 17:32
11M83332	WG396851-04 1ug/L STD 8260	NA	1	1	STD51468	05/03/12 18:02
11M83333	WG396851-05 2ug/L STD 8260	NA	1	1	STD51468	05/03/12 18:33
11M83334	WG396851-06 5ug/L STD 8260	NA	1	1	STD51468	05/03/12 19:04
11M83335	WG396851-07 20ug/L STD 8260	NA	1	1	STD51468	05/03/12 19:34
11M83336	WG396851-08 50ug/L STD 8260	NA	1	1	STD51468	05/03/12 20:05
11M83337	WG396851-09 100ug/L STD 8260	NA	1	1	STD51468	05/03/12 20:35
11M83338	WG396851-10 200ug/L STD 8260	NA	1	1	STD51468	05/03/12 21:06
11M83339	WG396851-11 300ug/L STD 8260	NA	1	1	STD51468	05/03/12 21:37
11M83340	RINSE	NA	1	1		05/03/12 22:08
11M83341	WG396851-12 50ug/L ALT SRC 8260	NA	1	1	STD51372	05/03/12 22:38
11M83342	RINSE	NA	1	1		05/03/12 23:09

Approved: May 09, 2012

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Microbac Laboratories Inc.

Instrument Run Log

Instrument: HPMS11 Dataset: 061412
 Analyst1: FJB Analyst2: NA
 Method: 6200 SOP: MSV01 Rev: _____
 Method: 5030/5035 SOP: PAT01 Rev: _____

Maintenance Log ID: 42394

Internal Standard: NA Surrogate Standard: NA
 CCV: NA LCS: STD52284 MS/MSD: NA
 Column 1 ID: RTX502.2 Column 2 ID: NA
 Workgroups: WG402310

Comments:

File ID	Sample Information	pH	Mat	Dil	Reference	Date/Time
11M84559	RINSE 25ML	NA	1	1		06/14/12 14:45
11M84560	EMV UP ~40 RINSE 25ML	NA	1	1		06/14/12 15:47
11M84561	WG402310-01 BFB 50ng 6200	NA	1	1	STD51824	06/14/12 16:36
11M84562	WG402310-02 0.2ug/L STD 6200	NA	1	1	STD52281	06/14/12 17:41
11M84563	WG402310-03 0.4ug/L STD 6200	NA	1	1	STD52281	06/14/12 18:32
11M84564	WG402310-04 0.5ug/L STD 6200	NA	1	1	STD52281	06/14/12 19:10
11M84565	WG402310-05 1ug/L STD 6200	NA	1	1	STD52281	06/14/12 19:48
11M84566	WG402310-06 2ug/L STD 6200	NA	1	1	STD52281	06/14/12 20:26
11M84567	WG402310-07 5ug/L STD 6200	NA	1	1	STD52281	06/14/12 21:04
11M84568	WG402310-08 10ug/L STD 6200	NA	1	1	STD52281	06/14/12 21:42
11M84569	WG402310-09 20ug/L STD 6200	NA	1	1	STD52281	06/14/12 22:20
11M84570	WG402310-10 50ug/L STD 6200	NA	1	1	STD52281	06/14/12 22:58
11M84571	RINSE	NA	1	1		06/14/12 23:35
11M84572	WG402310-11 10ug/L ALT SRC 6200	NA	1	1	STD52284	06/15/12 00:13
11M84573	RINSE	NA	1	1		06/15/12 00:51

Approved: July 09, 2012

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Microbac Laboratories Inc.

Instrument Run Log

Instrument: HPMS10 Dataset: 062612
 Analyst1: TMB Analyst2: ADC
 Method: 8260B SOP: MSV01 Rev: 14
 Method: OVAP SOP: NSV01 Rev: 0
 Method: 5030B/5030C/5035A SOP: PAT01 Rev: 13
 Maintenance Log ID: 42266

Internal Standard: STD52415 Surrogate Standard: STD51977
 CCV: STD52427 LCS: STD52408 MS/MSD: NA
 Column 1 ID: RTX502.2 Column 2 ID: NA
 Workgroups: WG401620; WG401726

Comments:

File ID	Sample Information	pH	Mat	Dil	Reference	Date/Time
10M96557	RINSE	NA	1	1		06/26/12 08:39
10M96558	RINSE	NA	1	1		06/26/12 09:16
10M96559	WG401620-01 50ng BFB STD 8260	NA	1	1	STD52401	06/26/12 09:43
10M96560	WG401620-02 0.3ug/L STD 8260	NA	1	1	STD52427	06/26/12 10:08
10M96561	WG401620-03 0.4ug/L STD 8260	NA	1	1	STD52427	06/26/12 10:38
10M96562	WG401620-03 0.3ug/L STD 8260	NA	1	1	STD52427	06/26/12 11:09
10M96563	WG401620-04 1ug/L STD 8260	NA	1	1	STD52427	06/26/12 11:39
10M96564	WG401620-05 2ug/L STD 8260	NA	1	1	STD52427	06/26/12 12:09
10M96565	WG401620-06 5ug/L STD 8260	NA	1	1	STD52427	06/26/12 12:39
10M96566	WG401620-07 20ug/L STD 8260	NA	1	1	STD52427	06/26/12 13:10
10M96567	WG401620-08 50ug/L STD 8260	NA	1	1	STD52427	06/26/12 13:40
10M96568	WG401620-09 100ug/L STD 8260	NA	1	1	STD52427	06/26/12 14:10
10M96569	WG401620-10 200ug/L STD 8260	NA	1	1	STD52427	06/26/12 14:41
10M96570	WG401620-11 300ug/L STD 8260	NA	1	1	STD52427	06/26/12 15:11
10M96571	RINSE	NA	1	1		06/26/12 15:41
10M96572	RINSE	NA	1	1		06/26/12 16:12
10M96573	WG401620-12 20ug/L ALT SRC STD 8260	NA	1	1	STD52408	06/26/12 16:55
10M96575	WG401725-01 50NG/L BFB STD 8260	NA	1	1	STD52401	06/26/12 19:00
10M96576	WG401725-02 50ug/L CCV STD 8260	NA	1	1	STD52427	06/26/12 19:25
10M96577	WG401XXX-01 100ug/L A9FOOCCV STD 8	NA	1	1	STDXXXXXX	06/26/12 20:00
10M96578	WG401726-01 0626 VBLK 8260	NA	1	1	STD52408	06/26/12 21:03
10M96579	WG401726-02 20ug/L LCSSTD 8260	NA	1	1	STD52408	06/26/12 21:33
10M96580	WG401726-03 20ug/L LCS DUP 8260	NA	1	1	STD52408	06/26/12 22:03
10M96581	L12060519-15 A 826-SPE	<2	1	1		06/26/12 22:33
10M96582	L12060519-16 A 826-SPE	<2	1	1		06/26/12 23:04
10M96583	L12060649-09 A 826-A9	<2	1	1		06/26/12 23:35
10M96584	L12060827-01 A 826-SPE	<2	1	1		06/27/12 00:05
10M96585	L12060815-01 A 826-VAP2	<2	1	1		06/27/12 00:35
10M96586	L12060264-01 B 826-VAP2	<2	1	1		06/27/12 01:06
10M96587	L12060264-02 C 826-VAP2	<2	1	1		06/27/12 01:36
10M96588	L12060264-03 B 826-VAP2	<2	1	1		06/27/12 02:07
10M96589	L12060435-01 B 826-SPE7	<2	1	1		06/27/12 02:38
10M96590	L12060435-02 B 826-SPE7	<2	1	1		06/27/12 03:09
10M96591	L12060435-03 B 826-SPE7	<2	1	1		06/27/12 03:40

Approved: June 27, 2012

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Instrument Run Log

Instrument: HPMS10 Dataset: 062612
 Analyst1: TMB Analyst2: ADC
 Method: 8260B SOP: MSV01 Rev: 14
 Method: OVAP SOP: NSV01 Rev: 0
 Method: 5030B/5030C/5035A SOP: PAT01 Rev: 13
 Maintenance Log ID: 42266

Internal Standard: STD52415 Surrogate Standard: STD51977
 CCV: STD52427 LCS: STD52408 MS/MSD: NA
 Column 1 ID: RTX502.2 Column 2 ID: NA
 Workgroups: WG401620; WG401726

Comments:

File ID	Sample Information	pH	Mat	Dil	Reference	Date/Time
10M96592	L12060649-04 A 2X 826-SPE7	<2	1	2		06/27/12 04:10
10M96593	L12060649-05 A 826-SPE7	3	1	1		06/27/12 04:41
10M96594	L12060649-06 A 826-SPE7	7	1	1		06/27/12 05:11
10M96595	L12060649-08 A 826-SPE7	7	1	1		06/27/12 05:42
10M96596	L12060649-07 A 826-SPE7	<2	1	1		06/27/12 06:13
10M96597	RINSE	NA	1	1		06/27/12 06:43

Comments

Seq.	Rerun	Dil.	Reason	Analytes
4	X			
File ID: 10M96560				
123-TCB didn't have a secondary, DNR.				
20				
File ID: 10M96577				
Not needed, DNR.				

Approved: June 27, 2012

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Microbac Laboratories Inc.

Instrument Run Log

Instrument: HPMS8 Dataset: 062812
 Analyst1: ADC Analyst2: NA
 Method: 8260B SOP: MSV01 Rev: 14
 Method: 5030C SOP: PAT01 Rev: 13
 Method: 624 SOP: MSV10 Rev: 8
 Maintenance Log ID: 42341

Internal Standard: STD51914 Surrogate Standard: STD52296
 CCV: STD51967 LCS: STD52181 MS/MSD: NA
 Column 1 ID: RTX502.2 Column 2 ID: NA
 Workgroups: WG401797 (ICAL)

Comments:

File ID	Sample Information	pH	Mat	Dil	Reference	Date/Time
8M380349	WG401879-02 50ug/L CCV 8260	NA	1	1	STD51824	06/28/12 08:10
8M380350	TEST 0.4 STD	NA	1	1	STD51824	06/28/12 13:25
8M380351	TEST 0.4 STD	NA	1	1	STD51824	06/28/12 13:56
8M380352	TEST 0.4 STD	NA	1	1	STD51824	06/28/12 16:02
8M380353	TEST 0.4 STD	NA	1	1	STD51824	06/28/12 16:33
8M380354	TEST 50.0 STD	NA	1	1	STD51824	06/28/12 17:04
8M380355	RINSE	NA	1	1	STD51824	06/28/12 17:35
8M380356	WG401797-01 BFB 50ng 8260	NA	1	1	STD51824	06/28/12 18:16
8M380357	WG401797-02 0.3ug/L STD 8260	NA	1	1	STD51967	06/28/12 18:40
8M380358	WG401797-03 0.4ug/L STD 8260	NA	1	1	STD51967	06/28/12 19:11
8M380359	WG401797-04 1.0ug/L STD 8260	NA	1	1	STD51967	06/28/12 19:41
8M380360	WG401797-05 2.0ug/L STD 8260	NA	1	1	STD51967	06/28/12 20:12
8M380361	WG401797-06 5.0ug/L STD 8260	NA	1	1	STD51967	06/28/12 20:42
8M380362	WG401797-07 20.0ug/L STD 8260	NA	1	1	STD51967	06/28/12 21:12
8M380363	WG401797-08 50.0ug/L STD 8260	NA	1	1	STD51967	06/28/12 21:42
8M380364	WG401797-09 100.0ug/L STD 8260	NA	1	1	STD51967	06/28/12 22:12
8M380365	WG401797-10 200.0ug/L STD 8260	NA	1	1	STD51967	06/28/12 22:43
8M380366	WG401797-11 300.0ug/L STD 8260	NA	1	1	STD51967	06/28/12 23:13
8M380367	RINSE	NA	1	1	STD51967	06/28/12 23:43
8M380368	WG401797-12 50.0ug/L ALTSRC 8260	NA	1	1	STD52408	06/29/12 00:14
8M380369	RINSE	NA	1	1	STD52408	06/29/12 10:24

Approved: July 03, 2012

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Microbac Laboratories Inc.

Instrument Run Log

Instrument: HPMS11 Dataset: 072012
 Analyst1: FJB Analyst2: NA
 Method: 8260B SOP: MSV01 Rev: 14
 Method: 624 SOP: MSV10 Rev: 8
 Method: 5030B/5030C/5035A SOP: PAT01 Rev: 13
 Maintenance Log ID: 42593

Internal Standard: STD52816 Surrogate Standard: STD52616
 CCV: STD52793 LCS: STD52879 MS/MSD: STD52879
 Column 1 ID: RTX502.2 Column 2 ID: NA
 Workgroups: WG404020

Comments:

File ID	Sample Information	pH	Mat	Dil	Reference	Date/Time
11M85441	WG404019-01 BFB 50ng 8260	NA	1	1	STD52401	07/20/12 15:30
11M85442	WG404019-02 50ug/L CCV 8260	NA	1	1	STD52793	07/20/12 15:54
11M85443	WG404019-02 50ug/L CCV 8260	NA	1	1	STD52793	07/20/12 16:28
11M85444	RINSE	NA	1	1		07/20/12 16:59
11M85445	WG404020-01 VBLK0720 BLANK 8260	NA	1	1		07/20/12 17:30
11M85446	WG404020-02 20ug/L LCS 8260	NA	1	1	STD52879	07/20/12 18:06
11M85447	RINSE	NA	1	1		07/20/12 18:37
11M85448	WG404020-01 VBLK0720 BLANK 8260	NA	1	1		07/20/12 19:08
11M85449	L12070459-01 2X B 826-LOW	5	1	2		07/20/12 19:39
11M85450	L12070459-02 B 826-LOW	5	1	1		07/20/12 20:09
11M85451	L12070401-01 B 8260	<2	1	1		07/20/12 20:40
11M85452	L12070401-03 B 8260	<2	1	1		07/20/12 21:11
11M85453	L12070401-13 B 8260	<2	1	1		07/20/12 21:41
11M85454	L12070658-05 A 826-LOW	<2	1	1		07/20/12 22:12
11M85455	L12070658-06 A 826-LOW	<2	1	1		07/20/12 22:43
11M85456	L12070658-01 A 826-LOW	<2	1	1		07/20/12 23:13
11M85457	WG404020-03 L12070658-02 R	<2	1	1		07/20/12 23:44
11M85458	WG404020-04 L12070658-03	<2	1	1	STD52879	07/21/12 00:14
11M85459	WG404020-05 L12070658-04 M	<2	1	1	STD52879	07/21/12 00:45
11M85460	RINSE	NA	1	1		07/21/12 01:16
11M85462	L12070658-07 A 826-LOW	<2	1	1		07/21/12 01:47
11M85463	L12070658-08 A 826-LOW	<2	1	1		07/21/12 02:17
11M85464	L12070658-09 A 826-LOW	<2	1	1		07/21/12 02:48
11M85465	L12070658-10 A 826-LOW	7	1	1		07/21/12 03:19
11M85466	RINSE	NA	1	1		07/21/12 03:49
11M85467	WG404020-06 624 BLANK	NA	1	1		07/21/12 04:20
11M85468	L12070655-01 A 624	<2	2	1		07/21/12 04:51
11M85469	L12070655-02 A 624	<2	2	1		07/21/12 05:21
11M85470	CCV	NA	1	1		07/21/12 05:52
11M85471	RINSE	NA	1	1		07/21/12 06:23

Comments

Seq.	Rerun	Dil.	Reason	Analytes
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Approved: July 25, 2012

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Microbac Laboratories Inc.

Instrument Run Log

Instrument: HPMS11 Dataset: 072012
 Analyst1: FJB Analyst2: NA
 Method: 8260B SOP: MSV01 Rev: 14
 Method: 624 SOP: MSV10 Rev: 8
 Method: 5030B/5030C/5035A SOP: PAT01 Rev: 13
 Maintenance Log ID: 42593

Internal Standard: STD52816 Surrogate Standard: STD52616
 CCV: STD52793 LCS: STD52879 MS/MSD: STD52879
 Column 1 ID: RTX502.2 Column 2 ID: NA
 Workgroups: WG404020

Comments:

Comments

Seq.	Rerun	Dil.	Reason	Analytes
2	X		Surrogate standard failure	
File ID: 11M85442				
VC was low, DNR.				
5	X	1	Surrogate standard failure	
File ID: 11M85445				
DNR.				
11	X	1	Carry-over contamination	
File ID: 11M85451				
DNR.				
13	X	1	Surrogate standard failure	
File ID: 11M85453				
DNR.				
24	X	1	Surrogate standard failure	
File ID: 11M85465				
DNR.				
27	X	100	Over Calibration Range	CIS12-DCE
File ID: 11M85468				
DNR.				
28	X	1	Carry-over contamination	
File ID: 11M85469				
CIS12-DCE carry over, DNR.				

Approved: July 25, 2012

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Microbac Laboratories Inc.

Instrument Run Log

Instrument: HPMS10 Dataset: 072112
 Analyst1: MES Analyst2: NA
 Method: 8260B SOP: MSV01 Rev: 14
 Method: 624 SOP: MSV10 Rev: 8
 Method: 5030B/5030C/5035A SOP: PAT01 Rev: 13
 Maintenance Log ID: 42577

Internal Standard: STD52415 Surrogate Standard: STD52911
 CCV: STD52670 LCS: STD52919 MS/MSD: NA
 Column 1 ID: RTX502.2 Column 2 ID: NA
 Workgroups: WG404058

Comments:

File ID	Sample Information	pH	Mat	Dil	Reference	Date/Time
10M97155	WG404057-01 50ng BFB STD 8260	NA	1	1	STD52401	07/21/12 15:10
10M97156	WG404057-02 50ug/L CCV STD 8260	NA	1	1	STD52670	07/21/12 15:41
10M97157	WG404057-02 50ug/L CCV STD 8260	NA	1	1	STD52670	07/21/12 16:11
10M97158	WG404XX-01 100ug/L A9 CCV STD 8260	NA	1	1	STD52538	07/21/12 16:40
10M97159	WG404058-01 BLANK 7/21	NA	1	1		07/21/12 17:09
10M97160	WG404058-02 20ug/L LCS 8260	NA	1	1	STD52919	07/21/12 17:38
10M97161	WG404058-03 20ug/L LCSDUP 8260	NA	1	1	STD52919	07/21/12 18:08
10M97162	L12070521-01 A 10X 826-TC	NA	17	10		07/21/12 18:39
10M97163	L12070658-13 A 826-LOW	<2	1	1		07/21/12 19:08
10M97164	L12070658-21 A 826-LOW	<2	1	1		07/21/12 19:38
10M97165	L12070401-01 C 8260	<2	1	1		07/21/12 20:07
10M97166	L12070401-13 C 8260	<2	1	1		07/21/12 20:36
10M97167	L12070658-10 B 826-LOW	<2	1	1		07/21/12 21:06
10M97168	L12070658-11 A 826-LOW	<2	1	1		07/21/12 21:35
10M97169	L12070658-12 A 826-LOW	<2	1	1		07/21/12 22:04
10M97170	L12070658-14 A 826-LOW	<2	1	1		07/21/12 22:34
10M97171	L12070658-15 A 826-LOW	<2	1	1		07/21/12 23:03
10M97172	L12070658-16 A 826-LOW	<2	1	1		07/21/12 23:32
10M97173	L12070658-17 A 826-LOW	<2	1	1		07/22/12 00:02
10M97174	L12070658-18 A 826-LOW	<2	1	1		07/22/12 00:31
10M97175	L12070658-19 A 826-LOW	<2	1	1		07/22/12 01:00
10M97176	L12070538-01 A 8260	<2	1	1		07/22/12 01:30
10M97177	L12070521-02 A 10X 826-TC	NA	17	10		07/22/12 01:59
10M97178	L12070521-03 A 10X 826-TC	NA	17	10		07/22/12 02:28
10M97179	RINSE	NA	1	1		07/22/12 02:58
10M97180	RINSE	NA	1	1		07/22/12 03:27
10M97181	WG403912-01 FBLK 7/19	NA	17	1		07/22/12 03:56
10M97182	RINSE	NA	1	1		07/22/12 04:25
10M97183	RINSE	NA	1	1		07/22/12 04:54
10M97184	RINSE	NA	1	1		07/22/12 05:24
10M97185	SYSTEM CHECK	NA	1	1		07/22/12 05:53

Comments

Approved: July 24, 2012

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Instrument Run Log

Instrument: HPMS10 Dataset: 072112
 Analyst1: MES Analyst2: NA
 Method: 8260B SOP: MSV01 Rev: 14
 Method: 624 SOP: MSV10 Rev: 8
 Method: 5030B/5030C/5035A SOP: PAT01 Rev: 13
 Maintenance Log ID: 42577

Internal Standard: STD52415 Surrogate Standard: STD52911
 CCV: STD52670 LCS: STD52919 MS/MSD: NA
 Column 1 ID: RTX502.2 Column 2 ID: NA
 Workgroups: WG404058

Comments:

Comments

Seq.	Rerun	Dil.	Reason	Analytes
2	X			
File ID: 10M97156				
Vc was high, DNR.				
4				
File ID: 10M97158				
Not needed, DNR.				
22	X	5	Internal standard failure	
File ID: 10M97176				

Approved: July 24, 2012

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Microbac Laboratories Inc.

Instrument Run Log

Instrument: HPMS11 Dataset: 072312
 Analyst1: FJB Analyst2: NA
 Method: 8260B SOP: MSV01 Rev: 14
 Method: 5030B/5030C/5035A SOP: PAT01 Rev: 13
 Method: 624 SOP: MSV10 Rev: 8
 Maintenance Log ID: 42607

Internal Standard: STD52816 Surrogate Standard: STD52616
 CCV: STD52670 LCS: STD52879 MS/MSD: STD52879
 Column 1 ID: RTX502.2 Column 2 ID: NA
 Workgroups: WG404130

Comments: Last IS started failing low at file 11M85508. Most samples are short list and can be reported. Long list samples not reported.

File ID	Sample Information	pH	Mat	Dil	Reference	Date/Time
11M85497	WG404129-01 BFB 50ng 8260	NA	1	1	STD52948	07/23/12 11:12
11M85498	WG404129-01 BFB 50ng 8260	NA	1	1	STD52948	07/23/12 11:38
11M85499	WG404129-01 BFB 50ng 8260	NA	1	1	STD52948	07/23/12 12:24
11M85500	WG404129-02 50ug/L CCV 8260	NA	1	1	STD52670	07/23/12 12:50
11M85501	WG404xxx-01 100ug/L CCV A9	NA	1	1	STDxxxxx	07/23/12 13:23
11M85502	WG404130-01 VBLK0723 BLANK 8260	NA	1	1		07/23/12 13:54
11M85503	WG404130-02 20ug/L LCS 8260	NA	1	1	STD52879	07/23/12 14:25
11M85504	WG404130-03 20ug/L LCS DUP 8260	NA	1	1	STD52879	07/23/12 14:56
11M85505	L12070468-01 10X 826-TC	NA	17	10		07/23/12 15:40
11M85506	L12070468-02 10X 826-TC	NA	17	10		07/23/12 16:10
11M85507	L12070658-22 A 826-LOW	<2	1	1		07/23/12 16:41
11M85508	L12070555-01 B 826-BETX	<2	1	1		07/23/12 17:12
11M85509	L12070550-01 A 826-BETX	<2	1	1		07/23/12 17:43
11M85510	L12070550-02 A 826-BETX	<2	1	1		07/23/12 18:14
11M85511	L12070549-01 A 826-BETX	<2	1	1		07/23/12 18:44
11M85512	L12070574-01 A 826-BETX	<2	1	1		07/23/12 19:15
11M85513	L12070575-01 A 826-BETX	<2	1	1		07/23/12 19:46
11M85514	L12070575-02 A 826-BETX	<2	1	1		07/23/12 20:17
11M85515	L12070576-01 A 826-BETX	<2	1	1		07/23/12 20:47
11M85516	L12070576-02 A 826-BETX	<2	1	1		07/23/12 21:18
11M85517	L12070577-01 A 826-BETX	<2	1	1		07/23/12 21:49
11M85518	L12070578-01 A 826-BETX	<2	1	1		07/23/12 22:19
11M85519	L12070579-01 A 826-BETX	<2	1	1		07/23/12 22:50
11M85520	L12070658-20 A 826-LOW	<2	1	1		07/23/12 23:21
11M85521	L12070658-23 A 826-LOW	<2	1	1		07/23/12 23:51
11M85522	L12070658-24 A 826-LOW	<2	1	1		07/24/12 00:22
11M85523	RINSE	NA	1	1		07/24/12 00:53
11M85524	WG404130-04 624 BLANK	NA	2	1		07/24/12 01:23
11M85525	L12070664-01 20X B 624-SPE D1	7	2	20		07/24/12 01:54
11M85526	L12070681-01 A 624-SPE1	<2	2	1		07/24/12 02:25
11M85527	CCV	NA	1	1		07/24/12 02:56
11M85528	RINSE	NA	1	1		07/24/12 03:26
11M85529	L12070544-01 1000X 826-SPE screen	NA	7	500		07/24/12 09:06

Approved: July 25, 2012

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Microbac Laboratories Inc.

Instrument Run Log

Instrument: HPMS11 Dataset: 072312
 Analyst1: FJB Analyst2: NA
 Method: 8260B SOP: MSV01 Rev: 14
 Method: 5030B/5030C/5035A SOP: PAT01 Rev: 13
 Method: 624 SOP: MSV10 Rev: 8
 Maintenance Log ID: 42607

Internal Standard: STD52816 Surrogate Standard: STD52616
 CCV: STD52670 LCS: STD52879 MS/MSD: STD52879
 Column 1 ID: RTX502.2 Column 2 ID: NA
 Workgroups: WG404130

Comments: Last IS started failing low at file 11M85508. Most samples are short list and can be reported. Long list samples not reported.

File ID	Sample Information	pH	Mat	Dil	Reference	Date/Time
11M85530	RINSE	NA	1	1		07/24/12 09:59

Comments

Seq.	Rerun	Dil.	Reason	Analytes
1	X			
File ID: 11M85497				
2	X			
File ID: 11M85498				
change septa				
16	X	1	Surrogate standard failure	
File ID: 11M85512				
21	X	1	Surrogate standard failure	
File ID: 11M85517				
24	X	1	Internal standard failure	
File ID: 11M85520				
25	X	1	Internal standard failure	
File ID: 11M85521				
26	X	1	Internal standard failure	
File ID: 11M85522				

Approved: July 25, 2012

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Microbac Laboratories Inc.

Instrument Run Log

Instrument: HPMS8 Dataset: 072512
 Analyst1: ADC Analyst2: NA
 Method: 8260B SOP: MSV01 Rev: 14
 Method: 5030C SOP: PAT01 Rev: 13
 Method: 624 SOP: MSV10 Rev: 8

Maintenance Log ID: _____

Internal Standard: STD52814 Surrogate Standard: STD52814
 CCV: STD52478 LCS: STD52539 MS/MSD: STD52539

Column 1 ID: RTX502.2 Column 2 ID: NA
 Workgroups: WG404417, WG404416

Comments:

File ID	Sample Information	pH	Mat	Dil	Reference	Date/Time
8M381036	WG404415-01 50ng BFB STD 8260	NA	1	1	STD52401	07/25/12 09:40
8M381037	WG404415-02 50ug/L CCV STD 8260	NA	1	1	STD52789	07/25/12 10:04
8M381038	WG404416-01 EXTBLK 07/23 8260	NA	10	50		07/25/12 10:34
8M381039	WG404417-01 VBLK 0725	NA	1	1		07/25/12 11:04
8M381040	WG404417-02 20ug/L LCS 8260	NA	1	1	STD52919	07/25/12 11:34
8M381041	WG404416-02 20ug/kg EXTLCS 07/23 826	NA	10	50		07/25/12 12:04
8M381042	L12070638-01 B 5000X 826-SPE	<2	1	5000		07/25/12 12:34
8M381043	L12070658-03 B MS 826-SPE	<2	1	1		07/25/12 13:04
8M381044	L12070658-04 B MSD 826-SPE	<2	1	1		07/25/12 13:34
8M381045	L12070544-01 C MS 100X 826-SPE	NA	7	50		07/25/12 14:04
8M381046	L12070544-01 C 100X MSD 826-SPE	NA	7	50		07/25/12 14:35
8M381047	L12070388-21 C 100,000X 826-SPE	NA	7	50000		07/25/12 15:05
8M381048	L12070544-01 C 100X 826-SPE	NA	7	50		07/25/12 15:35
8M381049	L12070604-01 C 100X 826-SPE	NA	10	50		07/25/12 16:05
8M381050	L12070614-01 C 100X 826-SPE	NA	10	50		07/25/12 16:35
8M381051	L12070656-01 C 100X 826-SPE	NA	10	50		07/25/12 17:05
8M381052	L12070658-02 B 826-SPE	<2	1	1		07/25/12 17:35
8M381053	L12070679-06 A 826-SPE	<2	2	1		07/25/12 18:04
8M381054	L12070679-07 A 826-SPE	<2	2	1		07/25/12 18:34
8M381055	L12070679-08 A 826-SPE	<2	2	1		07/25/12 19:05
8M381056	L12070679-09 A 826-SPE	<2	2	1		07/25/12 19:35
8M381057	L12070679-10 A 826-SPE	<2	2	1		07/25/12 20:05
8M381058	L12070679-11 A 826-SPE	<2	2	1		07/25/12 20:35
8M381059	L12070679-12 A 826-SPE	<2	2	1		07/25/12 21:05
8M381060	RINSE	NA	2	1		07/25/12 21:35
8M381061	L12070677-03 C 1000X	NA	7	500		07/25/12 22:05
8M381062	L12070704-05 C 1000X	NA	7	500		07/25/12 22:35
8M381063	L12070704-06 C 1000X	NA	7	500		07/25/12 23:05
8M381064	L12070704-07 C 1000X	NA	7	500		07/25/12 23:35
8M381065	RINSE	NA	7	500		07/26/12 00:05
8M381066	RINSE	NA	7	500		07/26/12 00:35

Comments

Approved: July 29, 2012

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Microbac Laboratories Inc.

Instrument Run Log

Instrument: HPMS8 Dataset: 072512
 Analyst1: ADC Analyst2: NA
 Method: 8260B SOP: MSV01 Rev: 14
 Method: 5030C SOP: PAT01 Rev: 13
 Method: 624 SOP: MSV10 Rev: 8
 Maintenance Log ID: _____

Internal Standard: STD52814 Surrogate Standard: STD52814
 CCV: STD52478 LCS: STD52539 MS/MSD: STD52539
 Column 1 ID: RTX502.2 Column 2 ID: NA
 Workgroups: WG404417, WG404416

Comments:

Comments

Seq.	Rerun	Dil.	Reason	Analytes
13				
File ID: 8M381048				
L12070544-01 DNR NOT NEEDED				

Approved: July 29, 2012

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Microbac Laboratories Inc.

Instrument Run Log

Instrument: HPMS8 Dataset: 073012
 Analyst1: ADC Analyst2: NA
 Method: 8260B SOP: MSV01 Rev: 15
 Method: 5030B/5030C/5035A SOP: PAT01 Rev: 13

Maintenance Log ID: 42697

Internal Standard: STD53084 Surrogate Standard: STD53084
 CCV: STD53053 LCS: STD52919 MS/MSD: NA
 Column 1 ID: RTX502.2 Column 2 ID: NA
 Workgroups: WG404914

Comments:

File ID	Sample Information	pH	Mat	Dil	Reference	Date/Time
8M381188	RINSE	NA	1	1		07/30/12 09:24
8M381189	WG404913-01 BFB 50ng 8260	NA	1	1	STD52948	07/30/12 10:53
8M381190	WG404913-02 50ug/L CCV 8260	NA	1	1	STD53053	07/30/12 11:15
8M381191	WG404XXX-01 100ug/L A9FOO QC	NA	1	1		07/30/12 11:45
8M381192	WG404914-01 VBLK0730 BLANK 8260	NA	1	1		07/30/12 12:16
8M381193	WG404914-02 20ug/L LCS 8260	NA	1	1	STD52919	07/30/12 12:46
8M381194	WG404914-03 20ug/L LCSDUP 8260	NA	1	1	STD52919	07/30/12 13:16
8M381195	L12070753-05 B 10X 826-SPE D1	<2	1	10		07/30/12 13:45
8M381196	L12070753-06 B 5X 826-SPE D1	<2	1	5		07/30/12 14:15
8M381197	L12070658-31 B 826-LOW	<2	1	1		07/30/12 14:45
8M381198	L12070658-20 C 826-LOW	<2	1	1		07/30/12 15:15
8M381199	L12070658-23 C 826-LOW	<2	1	1		07/30/12 15:45
8M381200	L12070658-24 C 826-LOW	<2	1	1		07/30/12 16:15
8M381201	L12070658-25 B 826-LOW	<2	1	1		07/30/12 16:45
8M381202	L12070658-26 B 826-LOW	<2	1	1		07/30/12 17:15
8M381203	L12070658-27 B 826-LOW	<2	1	1		07/30/12 17:45
8M381204	L12070658-28 B 826-LOW	<2	1	1		07/30/12 18:15
8M381205	L12070658-29 B 826-LOW	<2	1	1		07/30/12 18:45
8M381206	L12070658-30 B 826-LOW	<2	1	1		07/30/12 19:15
8M381207	L12070658-32 B 826-LOW	<2	1	1		07/30/12 19:44
8M381208	L12070658-33 B 826-LOW	<2	1	1		07/30/12 20:14
8M381209	L12070658-34 B 826-LOW	<2	1	1		07/30/12 20:44
8M381210	L12070658-35 B 826-LOW	<2	1	1		07/30/12 21:14
8M381211	L12070658-36 B 826-LOW	<2	1	1		07/30/12 21:43
8M381212	L12070658-37 B 826-LOW	<2	1	1		07/30/12 22:14
8M381213	RINSE	NA	1	1		07/30/12 22:44
8M381214	RINSE	NA	1	1		07/30/12 23:14
8M381215	RINSE	NA	1	1		07/30/12 23:44

Approved: July 31, 2012

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Microbac Laboratories Inc.

Data Checklist

Date: 11-JAN-2012
 Analyst: TMB
 Analyst: NA
 Method: 8260B/624
 Instrument: HPMS10
 Curve Workgroup: NA
 Runlog ID: 44657
 Analytical Workgroups: WG386652

System Performance Check	NA
BFB	X
Initial Calibration	X
Average RF	X
Linear Reg or Higher Order Curve	X
Second Source standard % Difference	X
Continuing Calibration /Check Standards	X
Project/Client Specific Requirements	X
Special Standards	X
Blanks	X
TCL's	X
Surrogates	X
LCS (Laboratory Control Sample)	X
Recoveries	X
Surrogates	X
MS/MSD/Duplicates	X
Samples	X
TCL Hits	X
Spectra of TCL Hits	TMB
Surrogates	X
Internal Standards Criteria	X
Library Searches	NA
Calculations & Correct Factors	X
Dilutions Run	NA
Reruns	X
Manual Integrations	NA
Case Narrative	X
Results Reporting/Data Qualifiers	X
KOBRA Workgroup Data	X
Check for Completeness	X
Primary Reviewer	TMB
Secondary Reviewer	MDA
Check for compliance with method and project specific requirements	X
Check the completeness of reported information	X
Check the information for the report narrative	X
Check the reasonableness of the results	X

Primary Reviewer:
12-JAN-2012

Tiffany Bailey

Secondary Reviewer:
13-JAN-2012

MDA



Microbac Laboratories Inc.

Data Checklist

Date: 25-JAN-2012
 Analyst: ADC
 Analyst: NA
 Method: 8260
 Instrument: HPMS8
 Curve Workgroup: WG387881
 Runlog ID: 44940
 Analytical Workgroups: WG387845

System Performance Check	NA
BFB	X
Initial Calibration	X
Average RF	X
Linear Reg or Higher Order Curve	X
Second Source standard % Difference	X
Continuing Calibration /Check Standards	X
Project/Client Specific Requirements	X
Special Standards	NA
Blanks	X
TCL's	X
Surrogates	X
LCS (Laboratory Control Sample)	X
Recoveries	X
Surrogates	X
MS/MSD/Duplicates	X
Samples	NA
TCL Hits	NA
Spectra of TCL Hits	NA
Surrogates	NA
Internal Standards Criteria	X
Library Searches	NA
Calculations & Correct Factors	X
Dilutions Run	NA
Reruns	NA
Manual Integrations	NA
Case Narrative	X
Results Reporting/Data Qualifiers	X
KOBRA Workgroup Data	X
Check for Completeness	X
Primary Reviewer	ADC
Secondary Reviewer	MDA
Check for compliance with method and project specific requirements	X
Check the completeness of reported information	X
Check the information for the report narrative	X
Check the reasonableness of the results	X

Primary Reviewer:
02-FEB-2012



Secondary Reviewer:
02-FEB-2012




Microbac Laboratories Inc.

Data Checklist

Date: 03-MAY-2012
 Analyst: ADC
 Analyst: NA
 Method: 8260
 Instrument: HPMS11
 Curve Workgroup: WG396851
 Runlog ID: 46590
 Analytical Workgroups: _____

System Performance Check	NA
BFB	X
Initial Calibration	X
Average RF	X
Linear Reg or Higher Order Curve	X
Second Source standard % Difference	X
Continuing Calibration /Check Standards	X
Project/Client Specific Requirements	X
Special Standards	NA
Blanks	X
TCL's	X
Surrogates	X
LCS (Laboratory Control Sample)	X
Recoveries	X
Surrogates	X
MS/MSD/Duplicates	NA
Samples	NA
TCL Hits	NA
Spectra of TCL Hits	NA
Surrogates	NA
Internal Standards Criteria	NA
Library Searches	NA
Calculations & Correct Factors	NA
Dilutions Run	NA
Reruns	NA
Manual Integrations	NA
Case Narrative	X
Results Reporting/Data Qualifiers	X
KOBRA Workgroup Data	X
Check for Completeness	X
Primary Reviewer	ADC
Secondary Reviewer	MDA
Check for compliance with method and project specific requirements	X
Check the completeness of reported information	X
Check the information for the report narrative	X
Check the reasonableness of the results	X

Primary Reviewer:
08-MAY-2012



Secondary Reviewer:
09-MAY-2012




Microbac Laboratories Inc.

Data Checklist

Date: 14-JUN-2012
 Analyst: FJB
 Analyst: NA
 Method: 6200
 Instrument: HPMS11
 Curve Workgroup: NA
 Runlog ID: 47642
 Analytical Workgroups: WG402310

System Performance Check	NA
BFB	X
Initial Calibration	X
Average RF	X
Linear Reg or Higher Order Curve	X
Second Source standard % Difference	X
Continuing Calibration /Check Standards	X
Project/Client Specific Requirements	X
Special Standards	X
Blanks	X
TCL's	X
Surrogates	X
LCS (Laboratory Control Sample)	NA
Recoveries	NA
Surrogates	NA
MS/MSD/Duplicates	NA
Samples	NA
TCL Hits	NA
Spectra of TCL Hits	NA
Surrogates	NA
Internal Standards Criteria	NA
Library Searches	NA
Calculations & Correct Factors	NA
Dilutions Run	NA
Reruns	NA
Manual Integrations	NA
Case Narrative	NA
Results Reporting/Data Qualifiers	NA
KOBRA Workgroup Data	X
Check for Completeness	X
Primary Reviewer	FJB
Secondary Reviewer	MDA
Check for compliance with method and project specific requirements	X
Check the completeness of reported information	X
Check the information for the report narrative	X
Check the reasonableness of the results	X

Primary Reviewer:
09-JUL-2012

Secondary Reviewer:
09-JUL-2012





Microbac Laboratories Inc.

Data Checklist

Date: 26-JUN-2012
 Analyst: TMB
 Analyst: ADC
 Method: 8260B/OVAP
 Instrument: HPMS10
 Curve Workgroup: NA
 Runlog ID: 47525
 Analytical Workgroups: WG401620; WG401726

System Performance Check	NA
BFB	X
Initial Calibration	X
Average RF	X
Linear Reg or Higher Order Curve	X
Second Source standard % Difference	X
Continuing Calibration /Check Standards	X
Project/Client Specific Requirements	X
Special Standards	NA
Blanks	X
TCL's	X
Surrogates	X
LCS (Laboratory Control Sample)	X
Recoveries	X
Surrogates	X
MS/MSD/Duplicates	NA
Samples	X
TCL Hits	X
Spectra of TCL Hits	TMB
Surrogates	X
Internal Standards Criteria	X
Library Searches	NA
Calculations & Correct Factors	X
Dilutions Run	NA
Reruns	X
Manual Integrations	NA
Case Narrative	X
Results Reporting/Data Qualifiers	X
KOBRA Workgroup Data	X
Check for Completeness	X
Primary Reviewer	TMB
Secondary Reviewer	MDA
Check for compliance with method and project specific requirements	X
Check the completeness of reported information	X
Check the information for the report narrative	X
Check the reasonableness of the results	X

Primary Reviewer:
27-JUN-2012

Tiffany Bailey

Secondary Reviewer:
27-JUN-2012

MDA



Microbac Laboratories Inc.

Data Checklist

Date: 28-JUN-2012
 Analyst: ADC
 Analyst: NA
 Method: 8260
 Instrument: HPMS8
 Curve Workgroup: NA
 Runlog ID: 47639
 Analytical Workgroups: WG401797

System Performance Check	NA
BFB	X
Initial Calibration	X
Average RF	X
Linear Reg or Higher Order Curve	X
Second Source standard % Difference	X
Continuing Calibration /Check Standards	X
Project/Client Specific Requirements	X
Special Standards	NA
Blanks	X
TCL's	X
Surrogates	X
LCS (Laboratory Control Sample)	NA
Recoveries	NA
Surrogates	NA
MS/MSD/Duplicates	NA
Samples	NA
TCL Hits	NA
Spectra of TCL Hits	NA
Surrogates	NA
Internal Standards Criteria	X
Library Searches	NA
Calculations & Correct Factors	NA
Dilutions Run	NA
Reruns	NA
Manual Integrations	NA
Case Narrative	X
Results Reporting/Data Qualifiers	X
KOBRA Workgroup Data	X
Check for Completeness	X
Primary Reviewer	ADC
Secondary Reviewer	MDA
Check for compliance with method and project specific requirements	X
Check the completeness of reported information	X
Check the information for the report narrative	X
Check the reasonableness of the results	X

Primary Reviewer:
03-JUL-2012



Secondary Reviewer:
03-JUL-2012




Microbac Laboratories Inc.

Data Checklist

Date: 20-JUL-2012
 Analyst: FJB
 Analyst: NA
 Method: 8260B
 Instrument: HPMS11
 Curve Workgroup: NA
 Runlog ID: 48020
 Analytical Workgroups: WG404020

System Performance Check	NA
BFB	X
Initial Calibration	X
Average RF	X
Linear Reg or Higher Order Curve	X
Second Source standard % Difference	X
Continuing Calibration /Check Standards	X
Project/Client Specific Requirements	X
Special Standards	NA
Blanks	X
TCL's	X
Surrogates	X
LCS (Laboratory Control Sample)	X
Recoveries	X
Surrogates	X
MS/MSD/Duplicates	WTD
Samples	X
TCL Hits	X
Spectra of TCL Hits	X
Surrogates	X
Internal Standards Criteria	X
Library Searches	NA
Calculations & Correct Factors	X
Dilutions Run	NA
Reruns	X
Manual Integrations	X
Case Narrative	X
Results Reporting/Data Qualifiers	X
KOBRA Workgroup Data	X
Check for Completeness	X
Primary Reviewer	TMB
Secondary Reviewer	MDA
Check for compliance with method and project specific requirements	X
Check the completeness of reported information	X
Check the information for the report narrative	X
Check the reasonableness of the results	X

Primary Reviewer:
24-JUL-2012



Secondary Reviewer:
25-JUL-2012




Microbac Laboratories Inc.

Data Checklist

Date: 21-JUL-2012
 Analyst: MES
 Analyst: NA
 Method: 8260B/OVAP/624
 Instrument: HPMS10
 Curve Workgroup: NA
 Runlog ID: 47998
 Analytical Workgroups: WG404058

System Performance Check	NA
BFB	X
Initial Calibration	X
Average RF	X
Linear Reg or Higher Order Curve	X
Second Source standard % Difference	X
Continuing Calibration /Check Standards	X
Project/Client Specific Requirements	X
Special Standards	NA
Blanks	X
TCL's	X
Surrogates	X
LCS (Laboratory Control Sample)	X
Recoveries	X
Surrogates	X
MS/MSD/Duplicates	NA
Samples	X
TCL Hits	X
Spectra of TCL Hits	TMB
Surrogates	X
Internal Standards Criteria	X
Library Searches	NA
Calculations & Correct Factors	X
Dilutions Run	NA
Reruns	X
Manual Integrations	NA
Case Narrative	X
Results Reporting/Data Qualifiers	X
KOBRA Workgroup Data	X
Check for Completeness	X
Primary Reviewer	TMB
Secondary Reviewer	MDA
Check for compliance with method and project specific requirements	X
Check the completeness of reported information	X
Check the information for the report narrative	X
Check the reasonableness of the results	X

Primary Reviewer:
23-JUL-2012

Tiffany Bailey

Secondary Reviewer:
24-JUL-2012

Non



Microbac Laboratories Inc.

Data Checklist

Date: 23-JUL-2012
 Analyst: FJB
 Analyst: NA
 Method: 8260B
 Instrument: HPMS11
 Curve Workgroup: NA
 Runlog ID: 48036
 Analytical Workgroups: WG404130

System Performance Check	X
BFB	X
Initial Calibration	X
Average RF	X
Linear Reg or Higher Order Curve	X
Second Source standard % Difference	X
Continuing Calibration /Check Standards	X
Project/Client Specific Requirements	X
Special Standards	NA
Blanks	X
TCL's	X
Surrogates	X
LCS (Laboratory Control Sample)	X
Recoveries	X
Surrogates	X
MS/MSD/Duplicates	NA
Samples	X
TCL Hits	X
Spectra of TCL Hits	FJB
Surrogates	X
Internal Standards Criteria	X
Library Searches	NA
Calculations & Correct Factors	X
Dilutions Run	X
Reruns	NA
Manual Integrations	NA
Case Narrative	X
Results Reporting/Data Qualifiers	X
KOBRA Workgroup Data	X
Check for Completeness	X
Primary Reviewer	FJB
Secondary Reviewer	MDA
Check for compliance with method and project specific requirements	X
Check the completeness of reported information	X
Check the information for the report narrative	X
Check the reasonableness of the results	X

Primary Reviewer:
25-JUL-2012

Secondary Reviewer:
25-JUL-2012





Microbac Laboratories Inc.

Data Checklist

Date: 25-JUL-2012
 Analyst: ADC
 Analyst: NA
 Method: 8260
 Instrument: HPMS8
 Curve Workgroup: NA
 Runlog ID: 48049
 Analytical Workgroups: WG404417, WG404416

System Performance Check	NA
BFB	X
Initial Calibration	X
Average RF	X
Linear Reg or Higher Order Curve	X
Second Source standard % Difference	X
Continuing Calibration /Check Standards	X
Project/Client Specific Requirements	X
Special Standards	NA
Blanks	X
TCL's	X
Surrogates	X
LCS (Laboratory Control Sample)	X
Recoveries	X
Surrogates	X
MS/MSD/Duplicates	X
Samples	X
TCL Hits	X
Spectra of TCL Hits	ADC
Surrogates	X
Internal Standards Criteria	X
Library Searches	NA
Calculations & Correct Factors	X
Dilutions Run	X
Reruns	X
Manual Integrations	NA
Case Narrative	X
Results Reporting/Data Qualifiers	X
KOBRA Workgroup Data	X
Check for Completeness	X
Primary Reviewer	ADC
Secondary Reviewer	MDA
Check for compliance with method and project specific requirements	X
Check the completeness of reported information	X
Check the information for the report narrative	X
Check the reasonableness of the results	X

Primary Reviewer:
29-JUL-2012



Secondary Reviewer:
29-JUL-2012




Microbac Laboratories Inc.

Data Checklist

Date: 30-JUL-2012
 Analyst: FJB
 Analyst: NA
 Method: 8260B
 Instrument: HPMS8
 Curve Workgroup: NA
 Runlog ID: 48168
 Analytical Workgroups: WG404914

System Performance Check	X
BFB	X
Initial Calibration	X
Average RF	X
Linear Reg or Higher Order Curve	X
Second Source standard % Difference	X
Continuing Calibration /Check Standards	X
Project/Client Specific Requirements	X
Special Standards	NA
Blanks	X
TCL's	X
Surrogates	X
LCS (Laboratory Control Sample)	X
Recoveries	X
Surrogates	X
MS/MSD/Duplicates	NA
Samples	X
TCL Hits	X
Spectra of TCL Hits	FJB
Surrogates	X
Internal Standards Criteria	X
Library Searches	NA
Calculations & Correct Factors	X
Dilutions Run	X
Reruns	NA
Manual Integrations	NA
Case Narrative	X
Results Reporting/Data Qualifiers	X
KOBRA Workgroup Data	X
Check for Completeness	X
Primary Reviewer	FJB
Secondary Reviewer	MDA
Check for compliance with method and project specific requirements	X
Check the completeness of reported information	X
Check the information for the report narrative	X
Check the reasonableness of the results	X

Primary Reviewer:
31-JUL-2012

Secondary Reviewer:
31-JUL-2012





Analytical Method:8260B
Login Number:L12070658

AAB#:WG404020

Client ID	ID	Date Collected	TCLP Date	Time Held	Max Hold	Q	Extract Date	Time Held	Max Hold	Q	Run Date	Time Held	Max Hold	Q
MW-3-1	01	07/15/12					07/20/2012	5.5	14		07/20/12	5.5	14	
TRIP BLANK 15JULY2012	05	07/15/12					07/20/2012	5.9	14		07/20/12	5.9	14	
FIELD BLANK 15JULY2012	06	07/15/12					07/20/2012	5.5	14		07/20/12	5.5	14	
MW-3-1-D	07	07/15/12					07/21/2012	5.6	14		07/21/12	5.6	14	
MW-58	08	07/15/12					07/21/2012	5.5	14		07/21/12	5.5	14	
WW-03	09	07/15/12					07/21/2012	5.5	14		07/21/12	5.5	14	

* = SEE PROJECT QAPP REQUIREMENTS

HOLD_TIMES - Modified 03/06/2008
PDF File ID: 2523864
Report generated 07/31/2012 15:41



Analytical Method:8260B
Login Number:L12070658

AAB#:WG404058

Client ID	ID	Date Collected	TCLP Date	Time Held	Max Hold	Q	Extract Date	Time Held	Max Hold	Q	Run Date	Time Held	Max Hold	Q
35B WW06	10	07/16/12					07/21/2012	5.5	14		07/21/12	5.5	14	
FIELD BLANK 16JULY2012	11	07/16/12					07/21/2012	5.5	14		07/21/12	5.5	14	
MW3-3	12	07/15/12					07/21/2012	6.4	14		07/21/12	6.4	14	
TRIP BLANK 16JULY2012	13	07/16/12					07/21/2012	5.8	14		07/21/12	5.8	14	
35B WW05	14	07/16/12					07/21/2012	5.5	14		07/21/12	5.5	14	
MW1-1	15	07/16/12					07/21/2012	5.5	14		07/21/12	5.5	14	
MW1-2	16	07/16/12					07/21/2012	5.4	14		07/21/12	5.4	14	
MW1-3	17	07/16/12					07/22/2012	5.4	14		07/22/12	5.4	14	
35B WW08	18	07/16/12					07/22/2012	5.4	14		07/22/12	5.4	14	
35B WW09	19	07/16/12					07/22/2012	5.4	14		07/22/12	5.4	14	
TRIP BLANK 17JULY2012	21	07/17/12					07/21/2012	4.8	14		07/21/12	4.8	14	

* = SEE PROJECT QAPP REQUIREMENTS



Analytical Method: 8260B
Login Number: L12070658

AAB#: WG404130

Client ID	ID	Date Collected	TCLP Date	Time Held	Max Hold	Q	Extract Date	Time Held	Max Hold	Q	Run Date	Time Held	Max Hold	Q
FIELD BLANK 17JULY2012	22	07/17/12					07/23/2012	6.3	14		07/23/12	6.3	14	

* = SEE PROJECT QAPP REQUIREMENTS

HOLD_TIMES - Modified 03/06/2008
PDF File ID: 2523864
Report generated 07/31/2012 15:41



Analytical Method:8260B
Login Number:L12070658

AAB#:WG404417

Client ID	ID	Date Collected	TCLP Date	Time Held	Max Hold	Q	Extract Date	Time Held	Max Hold	Q	Run Date	Time Held	Max Hold	Q
MW-3-2	02	07/15/12					07/25/2012	10.3	14		07/25/12	10.3	14	
MW-3-2MS	03	07/15/12					07/25/2012	10	14		07/25/12	10	14	
MW-3-2MSD	04	07/15/12					07/25/2012	10.1	14		07/25/12	10.1	14	

* = SEE PROJECT QAPP REQUIREMENTS

HOLD_TIMES - Modified 03/06/2008
PDF File ID: 2523864
Report generated 07/31/2012 15:41



Analytical Method:8260B

AAB#:WG404914

Login Number:L12070658

Client ID	ID	Date Collected	TCLP Date	Time Held	Max Hold	Q	Extract Date	Time Held	Max Hold	Q	Run Date	Time Held	Max Hold	Q
MW2-1	20	07/17/12					07/30/2012	13.3	14		07/30/12	13.3	14	
MW2-2	23	07/17/12					07/30/2012	13.3	14		07/30/12	13.3	14	
MW2-2D	24	07/17/12					07/30/2012	13.3	14		07/30/12	13.3	14	
MW2-3	25	07/17/12					07/30/2012	13.2	14		07/30/12	13.2	14	
35B WW01	26	07/17/12					07/30/2012	13.2	14		07/30/12	13.2	14	
35B WW04	27	07/17/12					07/30/2012	13.2	14		07/30/12	13.2	14	
35B SW-1	28	07/17/12					07/30/2012	13.2	14		07/30/12	13.2	14	
35B SW-2	29	07/17/12					07/30/2012	13.2	14		07/30/12	13.2	14	
35B WW-11	30	07/17/12					07/30/2012	13.2	14		07/30/12	13.2	14	
TRIP BLANK 18JULY2012	31	07/18/12					07/30/2012	12.6	14		07/30/12	12.6	14	
FIELD BLANK 18JULY2012	32	07/18/12					07/30/2012	12.5	14		07/30/12	12.5	14	
MW4-1	33	07/18/12					07/30/2012	12.5	14		07/30/12	12.5	14	
MW4-2	34	07/18/12					07/30/2012	12.4	14		07/30/12	12.4	14	
MW4-3	35	07/18/12					07/30/2012	12.3	14		07/30/12	12.3	14	
35B WW14	36	07/18/12					07/30/2012	12.3	14		07/30/12	12.3	14	
35B WW07	37	07/18/12					07/30/2012	12.3	14		07/30/12	12.3	14	

* = SEE PROJECT QAPP REQUIREMENTS



Login Number: L12070658
 Instrument Id: HPMS11
 Workgroup (AAB#): WG404020

Method: 8260
 CAL ID: HPMS11-03-MAY-12
 Matrix: Water

Sample Number	Dilution	Tag	1	2	3	4
L12070658-01	1.00	01	85.4	<u>85.3</u>	113	104
L12070658-05	1.00	01	86.1	87.8	111	104
L12070658-06	1.00	01	84.4	86.2	115	103
L12070658-07	1.00	01	86.4	86.8	112	104
L12070658-08	1.00	01	85.7	<u>84.9</u>	115	104
L12070658-09	1.00	01	87.9	86.2	<u>116</u>	105
WG404020-01	1.00	01	83.8	<u>83.4</u>	115	103
WG404020-02	1.00	01	81.4	89.5	98.1	100
WG404020-06	1.00	01	86.8	<u>85.2</u>	<u>117</u>	104

Surrogates	Surrogate Limits		
1 - 1,2-Dichloroethane-d4	80	-	120
2 - Dibromofluoromethane	86	-	118
3 - 4-Bromofluorobenzene	86	-	115
4 - Toluene-d8	88	-	110

Underline = Result out of surrogate limits

DL = surrogate diluted out

ND = surrogate not detected



Login Number: L12070658
 Instrument Id: HPMS10
 Workgroup (AAB#): WG404058

Method: 8260
 CAL ID: HPMS10-26-JUN-12
 Matrix: Water

Sample Number	Dilution	Tag	1	2	3	4
L12070658-10	1.00	01	99.0	98.8	105	101
L12070658-11	1.00	01	98.1	98.4	105	101
L12070658-12	1.00	01	99.3	99.5	102	100
L12070658-13	1.00	01	101	98.0	104	101
L12070658-14	1.00	01	96.1	98.7	105	101
L12070658-15	1.00	01	96.7	99.2	105	102
L12070658-16	1.00	01	98.4	99.7	105	103
L12070658-17	1.00	01	99.7	99.6	107	104
L12070658-18	1.00	01	97.4	97.5	104	102
L12070658-19	1.00	01	96.9	97.9	105	102
L12070658-21	1.00	01	98.1	98.1	107	101
WG404058-01	1.00	01	100	98.9	107	101
WG404058-02	1.00	01	99.1	99.3	97.8	99.8
WG404058-03	1.00	01	97.0	98.6	96.8	100

Surrogates	Surrogate Limits
1 - 1,2-Dichloroethane-d4	80 - 120
2 - Dibromofluoromethane	86 - 118
3 - 4-Bromofluorobenzene	86 - 115
4 - Toluene-d8	88 - 110

Underline = Result out of surrogate limits

DL = surrogate diluted out

ND = surrogate not detected



Login Number: L12070658
 Instrument Id: HPMS8
 Workgroup (AAB#): WG404417

Method: 8260
 CAL ID: HPMS8-28-JUN-12
 Matrix: Water

Sample Number	Dilution	Tag	1	2	3	4
L12070658-02	1.00	01	82.4	96.7	101	97.3
L12070658-03	1.00	01	82.1	99.4	102	98.2
L12070658-04	1.00	01	83.9	101	100	98.8
WG404417-01	1.00	01	83.7	97.5	100	98.4
WG404417-02	1.00	01	84.0	100	100	98.1

Surrogates	Surrogate Limits		
1 - 1,2-Dichloroethane-d4	80	-	120
2 - Dibromofluoromethane	86	-	118
3 - 4-Bromofluorobenzene	86	-	115
4 - Toluene-d8	88	-	110

Underline = Result out of surrogate limits

DL = surrogate diluted out

ND = surrogate not detected



Login Number: L12070658
Instrument Id: HPMS8
Workgroup (AAB#): WG404914

Method: 8260
CAL ID: HPMS8-28-JUN-12
Matrix: Water

Sample Number	Dilution	Tag	1	2	3	4
L12070658-20	1.00	02	83.0	97.2	102	102
L12070658-23	1.00	02	82.8	98.0	101	103
L12070658-24	1.00	02	82.7	98.8	101	102
L12070658-25	1.00	02	83.6	99.2	102	103
L12070658-26	1.00	02	84.0	98.7	102	104
L12070658-27	1.00	02	85.0	100	102	103
L12070658-28	1.00	02	85.2	99.7	101	102
L12070658-29	1.00	02	85.5	99.4	103	102
L12070658-30	1.00	02	87.6	100	103	102
L12070658-31	1.00	02	81.5	97.6	100	102
L12070658-32	1.00	02	87.0	102	102	102
L12070658-33	1.00	02	85.8	99.9	102	102
L12070658-34	1.00	02	88.3	100	102	103
L12070658-35	1.00	02	88.0	101	101	101
L12070658-36	1.00	02	86.1	100	103	103
L12070658-37	1.00	02	87.5	99.3	102	103
WG404914-01	1.00	01	82.0	97.9	103	103
WG404914-02	1.00	01	81.9	98.9	102	103
WG404914-03	1.00	01	83.4	98.8	102	102

Surrogates	Surrogate Limits
1 - 1,2-Dichloroethane-d4	80 - 120
2 - Dibromofluoromethane	86 - 118
3 - 4-Bromofluorobenzene	86 - 115
4 - Toluene-d8	88 - 110

Underline = Result out of surrogate limits

DL = surrogate diluted out

ND = surrogate not detected



Login Number: L12070658
 Instrument Id: HPMS11
 Workgroup (AAB#): WG404130

Method: 8260
 CAL ID: HPMS11-03-MAY-12
 Matrix: Water

Sample Number	Dilution	Tag	1	2	3	4
L12070658-22	1.00	01	83.2	86.7	114	103
WG404130-01	1.00	01	82.3	<u>81.6</u>	110	103
WG404130-02	1.00	01	81.1	89.7	107	101
WG404130-03	1.00	01	81.6	89.7	107	101
WG404130-04	1.00	01	83.8	<u>85.5</u>	113	102

Surrogates	Surrogate Limits		
1 - 1,2-Dichloroethane-d4	80	-	120
2 - Dibromofluoromethane	86	-	118
3 - 4-Bromofluorobenzene	86	-	115
4 - Toluene-d8	88	-	110

Underline = Result out of surrogate limits

DL = surrogate diluted out

ND = surrogate not detected



METHOD BLANK SUMMARY

Login Number: L12070658
 Blank File ID: 10M97159
 Prep Date: 07/21/12 17:09
 Analyzed Date: 07/21/12 17:09
 Analyst: MES

Work Group: WG404058
 Blank Sample ID: WG404058-01
 Instrument ID: HPMS10
 Method: 8260B

This Method Blank Applies To The Following Samples:

Client ID	Lab Sample ID	Lab File ID	Time Analyzed	TAG
LCS	WG404058-02	10M97160	07/21/12 17:38	01
LCS2	WG404058-03	10M97161	07/21/12 18:08	01
TRIP BLANK 16JULY2012	L12070658-13	10M97163	07/21/12 19:08	01
TRIP BLANK 17JULY2012	L12070658-21	10M97164	07/21/12 19:38	01
35B WW06	L12070658-10	10M97167	07/21/12 21:06	01
FIELD BLANK 16JULY2012	L12070658-11	10M97168	07/21/12 21:35	01
MW3-3	L12070658-12	10M97169	07/21/12 22:04	01
35B WW05	L12070658-14	10M97170	07/21/12 22:34	01
MW1-1	L12070658-15	10M97171	07/21/12 23:03	01
MW1-2	L12070658-16	10M97172	07/21/12 23:32	01
MW1-3	L12070658-17	10M97173	07/22/12 00:02	01
35B WW08	L12070658-18	10M97174	07/22/12 00:31	01
35B WW09	L12070658-19	10M97175	07/22/12 01:00	01

Report Name: BLANK_SUMMARY
 PDF File ID: 2523865
 Report generated 07/31/2012 15:41



METHOD BLANK SUMMARY

Login Number: L12070658 Work Group: WG404020
 Blank File ID: 11M85448 Blank Sample ID: WG404020-01
 Prep Date: 07/20/12 19:08 Instrument ID: HPMS11
 Analyzed Date: 07/20/12 19:08 Method: 8260B
 Analyst: FJB

This Method Blank Applies To The Following Samples:

Client ID	Lab Sample ID	Lab File ID	Time Analyzed	TAG
LCS	WG404020-02	11M85446	07/20/12 18:06	01
TRIP BLANK 15JULY2012	L12070658-05	11M85454	07/20/12 22:12	01
FIELD BLANK 15JULY2012	L12070658-06	11M85455	07/20/12 22:43	01
MW-3-1	L12070658-01	11M85456	07/20/12 23:13	01
MW-3-1-D	L12070658-07	11M85462	07/21/12 01:47	01
MW-58	L12070658-08	11M85463	07/21/12 02:17	01
WW-03	L12070658-09	11M85464	07/21/12 02:48	01

Report Name: BLANK_SUMMARY
 PDF File ID: 2523865
 Report generated 07/31/2012 15:41



METHOD BLANK SUMMARY

Login Number: L12070658 Work Group: WG404130
 Blank File ID: 11M85502 Blank Sample ID: WG404130-01
 Prep Date: 07/23/12 13:54 Instrument ID: HPMS11
 Analyzed Date: 07/23/12 13:54 Method: 8260B
 Analyst: FJB

This Method Blank Applies To The Following Samples:

Client ID	Lab Sample ID	Lab File ID	Time Analyzed	TAG
LCS	WG404130-02	11M85503	07/23/12 14:25	01
LCS2	WG404130-03	11M85504	07/23/12 14:56	01
FIELD BLANK 17JULY2012	L12070658-22	11M85507	07/23/12 16:41	01

Report Name: BLANK_SUMMARY
 PDF File ID: 2523865
 Report generated 07/31/2012 15:41



METHOD BLANK SUMMARY

Login Number: L12070658
 Blank File ID: 8M381039
 Prep Date: 07/25/12 11:04
 Analyzed Date: 07/25/12 11:04
 Analyst: ADC

Work Group: WG404417
 Blank Sample ID: WG404417-01
 Instrument ID: HPMS8
 Method: 8260B

This Method Blank Applies To The Following Samples:

Client ID	Lab Sample ID	Lab File ID	Time Analyzed	TAG
LCS	WG404417-02	8M381040	07/25/12 11:34	01
MW-3-2MS	L12070658-03	8M381043	07/25/12 13:04	01
MW-3-2MSD	L12070658-04	8M381044	07/25/12 13:34	01
MW-3-2	L12070658-02	8M381052	07/25/12 17:35	01

Report Name: BLANK_SUMMARY
 PDF File ID: 2523865
 Report generated 07/31/2012 15:41



METHOD BLANK SUMMARY

Login Number: L12070658 Work Group: WG404914
 Blank File ID: 8M381192 Blank Sample ID: WG404914-01
 Prep Date: 07/30/12 12:16 Instrument ID: HPMS8
 Analyzed Date: 07/30/12 12:16 Method: 8260B
 Analyst: ADC

This Method Blank Applies To The Following Samples:

Client ID	Lab Sample ID	Lab File ID	Time Analyzed	TAG
LCS	WG404914-02	8M381193	07/30/12 12:46	01
LCS2	WG404914-03	8M381194	07/30/12 13:16	01
TRIP BLANK 18JULY2012	L12070658-31	8M381197	07/30/12 14:45	02
MW2-1	L12070658-20	8M381198	07/30/12 15:15	02
MW2-2	L12070658-23	8M381199	07/30/12 15:45	02
MW2-2D	L12070658-24	8M381200	07/30/12 16:15	02
MW2-3	L12070658-25	8M381201	07/30/12 16:45	02
35B WW01	L12070658-26	8M381202	07/30/12 17:15	02
35B WW04	L12070658-27	8M381203	07/30/12 17:45	02
35B SW-1	L12070658-28	8M381204	07/30/12 18:15	02
35B SW-2	L12070658-29	8M381205	07/30/12 18:45	02
35B WW-11	L12070658-30	8M381206	07/30/12 19:15	02
FIELD BLANK 18JULY2012	L12070658-32	8M381207	07/30/12 19:44	02
MW4-1	L12070658-33	8M381208	07/30/12 20:14	02
MW4-2	L12070658-34	8M381209	07/30/12 20:44	02
MW4-3	L12070658-35	8M381210	07/30/12 21:14	02
35B WW14	L12070658-36	8M381211	07/30/12 21:43	02
35B WW07	L12070658-37	8M381212	07/30/12 22:14	02

Report Name: BLANK_SUMMARY
 PDF File ID: 2523865
 Report generated 07/31/2012 15:41



Login Number: L12070658 Prep Date: 07/21/12 17:09 Sample ID: WG404058-01
 Instrument ID: HPMS10 Run Date: 07/21/12 17:09 Prep Method: 5030B/5030C/503
 File ID: 10M97159 Analyst: MES Method: 8260B
 Workgroup (AAB#): WG404058 Matrix: Water Units: ug/L
 Contract #: _____ Cal ID: HPMS10-26-JUN-12

Analytes	MDL	RL	Concentration	Dilution	Qualifier
Acetone	2.50	10.0	2.50	1	U
Benzene	0.125	1.00	0.125	1	U
Bromobenzene	0.125	1.00	0.125	1	U
Bromochloromethane	0.200	1.00	0.200	1	U
Bromodichloromethane	0.250	1.00	0.250	1	U
Bromoform	0.500	1.00	0.500	1	U
Bromomethane	0.500	1.00	0.500	1	U
2-Butanone	2.50	10.0	2.50	1	U
n-Butylbenzene	0.250	1.00	0.250	1	U
sec-Butylbenzene	0.250	1.00	0.250	1	U
tert-Butylbenzene	0.250	1.00	0.250	1	U
Carbon disulfide	0.500	1.00	0.500	1	U
Carbon tetrachloride	0.250	1.00	0.250	1	U
Chlorobenzene	0.125	1.00	0.125	1	U
Chlorodibromomethane	0.250	1.00	0.250	1	U
Chloroethane	0.500	1.00	0.500	1	U
2-Chloroethyl vinyl ether	2.00	10.0	2.00	1	U
Chloroform	0.125	1.00	0.125	1	U
Chloromethane	0.500	1.00	0.500	1	U
2-Chlorotoluene	0.125	1.00	0.125	1	U
4-Chlorotoluene	0.250	1.00	0.250	1	U
1,2-Dibromo-3-chloropropane	1.00	5.00	1.00	1	U
1,2-Dibromoethane	0.250	1.00	0.250	1	U
Dibromomethane	0.250	1.00	0.250	1	U
1,2-Dichlorobenzene	0.125	1.00	0.125	1	U
1,3-Dichlorobenzene	0.250	1.00	0.250	1	U
1,4-Dichlorobenzene	0.125	1.00	0.125	1	U
Dichlorodifluoromethane	0.250	1.00	0.250	1	U
1,1-Dichloroethane	0.125	1.00	0.125	1	U
1,2-Dichloroethane	0.250	1.00	0.250	1	U
1,1-Dichloroethene	0.500	1.00	0.500	1	U
cis-1,2-Dichloroethene	0.250	1.00	0.250	1	U
trans-1,2-Dichloroethene	0.250	1.00	0.250	1	U
1,2-Dichloropropane	0.200	1.00	0.200	1	U
1,3-Dichloropropane	0.200	1.00	0.200	1	U
2,2-Dichloropropane	0.250	1.00	0.250	1	U
cis-1,3-Dichloropropene	0.250	1.00	0.250	1	U
trans-1,3-Dichloropropene	0.500	1.00	0.500	1	U
1,1-Dichloropropene	0.250	1.00	0.250	1	U
Ethylbenzene	0.250	1.00	0.250	1	U
2-Hexanone	2.50	10.0	2.50	1	U
Hexachlorobutadiene	0.250	1.00	0.250	1	U

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Login Number: L12070658 Prep Date: 07/21/12 17:09 Sample ID: WG404058-01
 Instrument ID: HPMS10 Run Date: 07/21/12 17:09 Prep Method: 5030B/5030C/503
 File ID: 10M97159 Analyst: MES Method: 8260B
 Workgroup (AAB#): WG404058 Matrix: Water Units: ug/L
 Contract #: _____ Cal ID: HPMS10-26-JUN-12

Analytes	MDL	RL	Concentration	Dilution	Qualifier
Isopropylbenzene	0.250	1.00	0.250	1	U
p-Isopropyltoluene	0.250	1.00	0.250	1	U
4-Methyl-2-pentanone	2.50	10.0	2.50	1	U
Methylene chloride	0.250	5.00	0.250	1	U
Naphthalene	0.200	1.00	0.200	1	U
n-Propylbenzene	0.125	1.00	0.125	1	U
Styrene	0.125	1.00	0.125	1	U
1,1,1,2-Tetrachloroethane	0.250	1.00	0.250	1	U
1,1,2,2-Tetrachloroethane	0.200	1.00	0.200	1	U
Tetrachloroethene	0.250	1.00	0.250	1	U
Toluene	0.250	1.00	0.250	1	U
1,2,3-Trichlorobenzene	0.150	1.00	0.150	1	U
1,2,4-Trichlorobenzene	0.200	1.00	0.200	1	U
1,1,1-Trichloroethane	0.250	1.00	0.250	1	U
1,1,2-Trichloroethane	0.250	1.00	0.250	1	U
Trichloroethene	0.250	1.00	0.250	1	U
Trichlorofluoromethane	0.250	1.00	0.250	1	U
1,2,3-Trichloropropane	0.500	1.00	0.500	1	U
1,2,4-Trimethylbenzene	0.250	1.00	0.250	1	U
1,3,5-Trimethylbenzene	0.250	1.00	0.250	1	U
Vinyl acetate	2.50	10.0	2.50	1	U
Vinyl chloride	0.250	1.00	0.250	1	U
o-Xylene	0.250	1.00	0.250	1	U
m-,p-Xylene	0.500	1.00	0.500	1	U

Surrogates	% Recovery	Surrogate Limits	Qualifier
Dibromofluoromethane	98.9	86 - 118	PASS
1,2-Dichloroethane-d4	100	80 - 120	PASS
Toluene-d8	101	88 - 110	PASS
4-Bromofluorobenzene	107	86 - 115	PASS

MDL Method Detection Limit
 RL Reporting/Practical Quantitation Limit
 ND Analyte Not detected at or above reporting limit
 * |Analyte concentration| > RL

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Login Number: L12070658 Prep Date: 07/20/12 19:08 Sample ID: WG404020-01
 Instrument ID: HPMS11 Run Date: 07/20/12 19:08 Prep Method: 5030B/5030C/503
 File ID: 11M85448 Analyst: FJB Method: 8260B
 Workgroup (AAB#): WG404020 Matrix: Water Units: ug/L
 Contract #: _____ Cal ID: HPMS11-03-MAY-12

Analytes	MDL	RL	Concentration	Dilution	Qualifier
Acetone	2.50	10.0	2.50	1	U
Benzene	0.125	1.00	0.125	1	U
Bromobenzene	0.125	1.00	0.125	1	U
Bromochloromethane	0.200	1.00	0.200	1	U
Bromodichloromethane	0.250	1.00	0.250	1	U
Bromoform	0.500	1.00	0.500	1	U
Bromomethane	0.500	1.00	0.500	1	U
2-Butanone	2.50	10.0	2.50	1	U
n-Butylbenzene	0.250	1.00	0.250	1	U
sec-Butylbenzene	0.250	1.00	0.250	1	U
tert-Butylbenzene	0.250	1.00	0.250	1	U
Carbon disulfide	0.500	1.00	0.500	1	U
Carbon tetrachloride	0.250	1.00	0.250	1	U
Chlorobenzene	0.125	1.00	0.125	1	U
Chlorodibromomethane	0.250	1.00	0.250	1	U
Chloroethane	0.500	1.00	0.500	1	U
2-Chloroethyl vinyl ether	2.00	10.0	2.00	1	U
Chloroform	0.125	1.00	0.125	1	U
Chloromethane	0.500	1.00	0.500	1	U
2-Chlorotoluene	0.125	1.00	0.125	1	U
4-Chlorotoluene	0.250	1.00	0.250	1	U
1,2-Dibromo-3-chloropropane	1.00	5.00	1.00	1	U
1,2-Dibromoethane	0.250	1.00	0.250	1	U
Dibromomethane	0.250	1.00	0.250	1	U
1,2-Dichlorobenzene	0.125	1.00	0.125	1	U
1,3-Dichlorobenzene	0.250	1.00	0.250	1	U
1,4-Dichlorobenzene	0.125	1.00	0.125	1	U
Dichlorodifluoromethane	0.250	1.00	0.250	1	U
1,1-Dichloroethane	0.125	1.00	0.125	1	U
1,2-Dichloroethane	0.250	1.00	0.250	1	U
1,1-Dichloroethene	0.500	1.00	0.500	1	U
cis-1,2-Dichloroethene	0.250	1.00	0.250	1	U
trans-1,2-Dichloroethene	0.250	1.00	0.250	1	U
1,2-Dichloropropane	0.200	1.00	0.200	1	U
1,3-Dichloropropane	0.200	1.00	0.200	1	U
2,2-Dichloropropane	0.250	1.00	0.250	1	U
cis-1,3-Dichloropropene	0.250	1.00	0.250	1	U
trans-1,3-Dichloropropene	0.500	1.00	0.500	1	U
1,1-Dichloropropene	0.250	1.00	0.250	1	U
Ethylbenzene	0.250	1.00	0.250	1	U
2-Hexanone	2.50	10.0	2.50	1	U
Hexachlorobutadiene	0.250	1.00	0.250	1	U

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Login Number: L12070658 Prep Date: 07/20/12 19:08 Sample ID: WG404020-01
 Instrument ID: HPMS11 Run Date: 07/20/12 19:08 Prep Method: 5030B/5030C/503
 File ID: 11M85448 Analyst: FJB Method: 8260B
 Workgroup (AAB#): WG404020 Matrix: Water Units: ug/L
 Contract #: _____ Cal ID: HPMS11-03-MAY-12

Analytes	MDL	RL	Concentration	Dilution	Qualifier
Isopropylbenzene	0.250	1.00	0.250	1	U
p-Isopropyltoluene	0.250	1.00	0.250	1	U
4-Methyl-2-pentanone	2.50	10.0	2.50	1	U
Methylene chloride	0.250	5.00	0.250	1	U
Naphthalene	0.200	1.00	0.200	1	U
n-Propylbenzene	0.125	1.00	0.125	1	U
Styrene	0.125	1.00	0.125	1	U
1,1,1,2-Tetrachloroethane	0.250	1.00	0.250	1	U
1,1,2,2-Tetrachloroethane	0.200	1.00	0.200	1	U
Tetrachloroethene	0.250	1.00	0.250	1	U
Toluene	0.250	1.00	0.250	1	U
1,2,3-Trichlorobenzene	0.150	1.00	0.150	1	U
1,2,4-Trichlorobenzene	0.200	1.00	0.200	1	U
1,1,1-Trichloroethane	0.250	1.00	0.250	1	U
1,1,2-Trichloroethane	0.250	1.00	0.250	1	U
Trichloroethene	0.250	1.00	0.250	1	U
Trichlorofluoromethane	0.250	1.00	0.250	1	U
1,2,3-Trichloropropane	0.500	1.00	0.500	1	U
1,2,4-Trimethylbenzene	0.250	1.00	0.250	1	U
1,3,5-Trimethylbenzene	0.250	1.00	0.250	1	U
Vinyl acetate	2.50	10.0	2.50	1	U
Vinyl chloride	0.250	1.00	0.250	1	U
o-Xylene	0.250	1.00	0.250	1	U
m-,p-Xylene	0.500	1.00	0.500	1	U

Surrogates	% Recovery	Surrogate Limits	Qualifier
Dibromofluoromethane	83.4	86 - 118	FAIL
1,2-Dichloroethane-d4	83.8	80 - 120	PASS
Toluene-d8	103	88 - 110	PASS
4-Bromofluorobenzene	115	86 - 115	PASS

MDL Method Detection Limit
 RL Reporting/Practical Quantitation Limit
 ND Analyte Not detected at or above reporting limit
 * |Analyte concentration| > RL

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Login Number: L12070658 Prep Date: 07/23/12 13:54 Sample ID: WG404130-01
 Instrument ID: HPMS11 Run Date: 07/23/12 13:54 Prep Method: 5030B/5030C/503
 File ID: 11M85502 Analyst: FJB Method: 8260B
 Workgroup (AAB#): WG404130 Matrix: Water Units: ug/L
 Contract #: _____ Cal ID: HPMS11-03-MAY-12

Analytes	MDL	RL	Concentration	Dilution	Qualifier
Acetone	2.50	10.0	2.50	1	U
Benzene	0.125	1.00	0.125	1	U
Bromobenzene	0.125	1.00	0.125	1	U
Bromochloromethane	0.200	1.00	0.200	1	U
Bromodichloromethane	0.250	1.00	0.250	1	U
Bromoform	0.500	1.00	0.500	1	U
Bromomethane	0.500	1.00	0.500	1	U
2-Butanone	2.50	10.0	2.50	1	U
n-Butylbenzene	0.250	1.00	0.250	1	U
sec-Butylbenzene	0.250	1.00	0.250	1	U
tert-Butylbenzene	0.250	1.00	0.250	1	U
Carbon disulfide	0.500	1.00	0.500	1	U
Carbon tetrachloride	0.250	1.00	0.250	1	U
Chlorobenzene	0.125	1.00	0.125	1	U
Chlorodibromomethane	0.250	1.00	0.250	1	U
Chloroethane	0.500	1.00	0.500	1	U
2-Chloroethyl vinyl ether	2.00	10.0	2.00	1	U
Chloroform	0.125	1.00	0.125	1	U
Chloromethane	0.500	1.00	0.500	1	U
2-Chlorotoluene	0.125	1.00	0.125	1	U
4-Chlorotoluene	0.250	1.00	0.250	1	U
1,2-Dibromo-3-chloropropane	1.00	5.00	1.00	1	U
1,2-Dibromoethane	0.250	1.00	0.250	1	U
Dibromomethane	0.250	1.00	0.250	1	U
1,2-Dichlorobenzene	0.125	1.00	0.125	1	U
1,3-Dichlorobenzene	0.250	1.00	0.250	1	U
1,4-Dichlorobenzene	0.125	1.00	0.125	1	U
Dichlorodifluoromethane	0.250	1.00	0.250	1	U
1,1-Dichloroethane	0.125	1.00	0.125	1	U
1,2-Dichloroethane	0.250	1.00	0.250	1	U
1,1-Dichloroethene	0.500	1.00	0.500	1	U
cis-1,2-Dichloroethene	0.250	1.00	0.250	1	U
trans-1,2-Dichloroethene	0.250	1.00	0.250	1	U
1,2-Dichloropropane	0.200	1.00	0.200	1	U
1,3-Dichloropropane	0.200	1.00	0.200	1	U
2,2-Dichloropropane	0.250	1.00	0.250	1	U
cis-1,3-Dichloropropene	0.250	1.00	0.250	1	U
trans-1,3-Dichloropropene	0.500	1.00	0.500	1	U
1,1-Dichloropropene	0.250	1.00	0.250	1	U
Ethylbenzene	0.250	1.00	0.250	1	U
2-Hexanone	2.50	10.0	2.50	1	U
Hexachlorobutadiene	0.250	1.00	0.250	1	U

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Login Number: L12070658 Prep Date: 07/23/12 13:54 Sample ID: WG404130-01
 Instrument ID: HPMS11 Run Date: 07/23/12 13:54 Prep Method: 5030B/5030C/503
 File ID: 11M85502 Analyst: FJB Method: 8260B
 Workgroup (AAB#): WG404130 Matrix: Water Units: ug/L
 Contract #: _____ Cal ID: HPMS11-03-MAY-12

Analytes	MDL	RL	Concentration	Dilution	Qualifier
Isopropylbenzene	0.250	1.00	0.250	1	U
p-Isopropyltoluene	0.250	1.00	0.250	1	U
4-Methyl-2-pentanone	2.50	10.0	2.50	1	U
Methylene chloride	0.250	5.00	0.250	1	U
Naphthalene	0.200	1.00	0.200	1	U
n-Propylbenzene	0.125	1.00	0.125	1	U
Styrene	0.125	1.00	0.125	1	U
1,1,1,2-Tetrachloroethane	0.250	1.00	0.250	1	U
1,1,2,2-Tetrachloroethane	0.200	1.00	0.200	1	U
Tetrachloroethene	0.250	1.00	0.250	1	U
Toluene	0.250	1.00	0.250	1	U
1,2,3-Trichlorobenzene	0.150	1.00	0.150	1	U
1,2,4-Trichlorobenzene	0.200	1.00	0.200	1	U
1,1,1-Trichloroethane	0.250	1.00	0.250	1	U
1,1,2-Trichloroethane	0.250	1.00	0.250	1	U
Trichloroethene	0.250	1.00	0.250	1	U
Trichlorofluoromethane	0.250	1.00	0.250	1	U
1,2,3-Trichloropropane	0.500	1.00	0.500	1	U
1,2,4-Trimethylbenzene	0.250	1.00	0.250	1	U
1,3,5-Trimethylbenzene	0.250	1.00	0.250	1	U
Vinyl acetate	2.50	10.0	2.50	1	U
Vinyl chloride	0.250	1.00	0.250	1	U
o-Xylene	0.250	1.00	0.250	1	U
m-,p-Xylene	0.500	1.00	0.500	1	U

Surrogates	% Recovery	Surrogate Limits	Qualifier
Dibromofluoromethane	81.6	86 - 118	FAIL
1,2-Dichloroethane-d4	82.3	80 - 120	PASS
Toluene-d8	103	88 - 110	PASS
4-Bromofluorobenzene	110	86 - 115	PASS

MDL Method Detection Limit
 RL Reporting/Practical Quantitation Limit
 ND Analyte Not detected at or above reporting limit
 * |Analyte concentration| > RL

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Login Number: L12070658 Prep Date: 07/25/12 11:04 Sample ID: WG404417-01
 Instrument ID: HPMS8 Run Date: 07/25/12 11:04 Prep Method: 5030B/5030C/503
 File ID: 8M381039 Analyst: ADC Method: 8260B
 Workgroup (AAB#): WG404417 Matrix: Water Units: ug/L
 Contract #: _____ Cal ID: HPMS8-28-JUN-12

Analytes	MDL	RL	Concentration	Dilution	Qualifier
Acetone	2.50	10.0	2.50	1	U
Benzene	0.125	1.00	0.125	1	U
Bromobenzene	0.125	1.00	0.125	1	U
Bromochloromethane	0.200	1.00	0.200	1	U
Bromodichloromethane	0.250	1.00	0.250	1	U
Bromoform	0.500	1.00	0.500	1	U
Bromomethane	0.500	1.00	0.500	1	U
2-Butanone	2.50	10.0	2.50	1	U
n-Butylbenzene	0.250	1.00	0.250	1	U
sec-Butylbenzene	0.250	1.00	0.250	1	U
tert-Butylbenzene	0.250	1.00	0.250	1	U
Carbon disulfide	0.500	1.00	0.500	1	U
Carbon tetrachloride	0.250	1.00	0.250	1	U
Chlorobenzene	0.125	1.00	0.125	1	U
Chlorodibromomethane	0.250	1.00	0.250	1	U
Chloroethane	0.500	1.00	0.500	1	U
2-Chloroethyl vinyl ether	2.00	10.0	2.00	1	U
Chloroform	0.125	1.00	0.125	1	U
Chloromethane	0.500	1.00	0.500	1	U
2-Chlorotoluene	0.125	1.00	0.125	1	U
4-Chlorotoluene	0.250	1.00	0.250	1	U
1,2-Dibromo-3-chloropropane	1.00	5.00	1.00	1	U
1,2-Dibromoethane	0.250	1.00	0.250	1	U
Dibromomethane	0.250	1.00	0.250	1	U
1,2-Dichlorobenzene	0.125	1.00	0.125	1	U
1,3-Dichlorobenzene	0.250	1.00	0.250	1	U
1,4-Dichlorobenzene	0.125	1.00	0.125	1	U
Dichlorodifluoromethane	0.250	1.00	0.250	1	U
1,1-Dichloroethane	0.125	1.00	0.125	1	U
1,2-Dichloroethane	0.250	1.00	0.250	1	U
1,1-Dichloroethene	0.500	1.00	0.500	1	U
cis-1,2-Dichloroethene	0.250	1.00	0.250	1	U
trans-1,2-Dichloroethene	0.250	1.00	0.250	1	U
1,2-Dichloropropane	0.200	1.00	0.200	1	U
1,3-Dichloropropane	0.200	1.00	0.200	1	U
2,2-Dichloropropane	0.250	1.00	0.250	1	U
cis-1,3-Dichloropropene	0.250	1.00	0.250	1	U
trans-1,3-Dichloropropene	0.500	1.00	0.500	1	U
1,1-Dichloropropene	0.250	1.00	0.250	1	U
Ethylbenzene	0.250	1.00	0.250	1	U
2-Hexanone	2.50	10.0	2.50	1	U
Hexachlorobutadiene	0.250	1.00	0.250	1	U

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Login Number: L12070658 Prep Date: 07/25/12 11:04 Sample ID: WG404417-01
 Instrument ID: HPMS8 Run Date: 07/25/12 11:04 Prep Method: 5030B/5030C/503
 File ID: 8M381039 Analyst: ADC Method: 8260B
 Workgroup (AAB#): WG404417 Matrix: Water Units: ug/L
 Contract #: _____ Cal ID: HPMS8-28-JUN-12

Analytes	MDL	RL	Concentration	Dilution	Qualifier
Isopropylbenzene	0.250	1.00	0.250	1	U
p-Isopropyltoluene	0.250	1.00	0.250	1	U
4-Methyl-2-pentanone	2.50	10.0	2.50	1	U
Methylene chloride	0.250	5.00	0.250	1	U
Naphthalene	0.200	1.00	0.200	1	U
n-Propylbenzene	0.125	1.00	0.125	1	U
Styrene	0.125	1.00	0.125	1	U
1,1,1,2-Tetrachloroethane	0.250	1.00	0.250	1	U
1,1,2,2-Tetrachloroethane	0.200	1.00	0.200	1	U
Tetrachloroethene	0.250	1.00	0.250	1	U
Toluene	0.250	1.00	0.250	1	U
1,2,3-Trichlorobenzene	0.150	1.00	0.150	1	U
1,2,4-Trichlorobenzene	0.200	1.00	0.200	1	U
1,1,1-Trichloroethane	0.250	1.00	0.250	1	U
1,1,2-Trichloroethane	0.250	1.00	0.250	1	U
Trichloroethene	0.250	1.00	0.250	1	U
Trichlorofluoromethane	0.250	1.00	0.250	1	U
1,2,3-Trichloropropane	0.500	1.00	0.500	1	U
1,2,4-Trimethylbenzene	0.250	1.00	0.250	1	U
1,3,5-Trimethylbenzene	0.250	1.00	0.250	1	U
Vinyl acetate	2.50	10.0	2.50	1	U
Vinyl chloride	0.250	1.00	0.250	1	U
o-Xylene	0.250	1.00	0.250	1	U
m-,p-Xylene	0.500	1.00	0.500	1	U

Surrogates	% Recovery	Surrogate Limits	Qualifier
Dibromofluoromethane	97.5	86 - 118	PASS
1,2-Dichloroethane-d4	83.7	80 - 120	PASS
Toluene-d8	98.4	88 - 110	PASS
4-Bromofluorobenzene	100	86 - 115	PASS

MDL Method Detection Limit
 RL Reporting/Practical Quantitation Limit
 ND Analyte Not detected at or above reporting limit
 * |Analyte concentration| > RL

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Login Number: L12070658 Prep Date: 07/30/12 12:16 Sample ID: WG404914-01
 Instrument ID: HPMS8 Run Date: 07/30/12 12:16 Prep Method: 5030B/5030C/503
 File ID: 8M381192 Analyst: ADC Method: 8260B
 Workgroup (AAB#): WG404914 Matrix: Water Units: ug/L
 Contract #: _____ Cal ID: HPMS8-28-JUN-12

Analytes	MDL	RL	Concentration	Dilution	Qualifier
Acetone	2.50	10.0	2.50	1	U
Benzene	0.125	1.00	0.125	1	U
Bromobenzene	0.125	1.00	0.125	1	U
Bromochloromethane	0.200	1.00	0.200	1	U
Bromodichloromethane	0.250	1.00	0.250	1	U
Bromoform	0.500	1.00	0.500	1	U
Bromomethane	0.500	1.00	0.500	1	U
2-Butanone	2.50	10.0	2.50	1	U
n-Butylbenzene	0.250	1.00	0.250	1	U
sec-Butylbenzene	0.250	1.00	0.250	1	U
tert-Butylbenzene	0.250	1.00	0.250	1	U
Carbon disulfide	0.500	1.00	0.500	1	U
Carbon tetrachloride	0.250	1.00	0.250	1	U
Chlorobenzene	0.125	1.00	0.125	1	U
Chlorodibromomethane	0.250	1.00	0.250	1	U
Chloroethane	0.500	1.00	0.500	1	U
2-Chloroethyl vinyl ether	2.00	10.0	2.00	1	U
Chloroform	0.125	1.00	0.125	1	U
Chloromethane	0.500	1.00	0.500	1	U
2-Chlorotoluene	0.125	1.00	0.125	1	U
4-Chlorotoluene	0.250	1.00	0.250	1	U
1,2-Dibromo-3-chloropropane	1.00	5.00	1.00	1	U
1,2-Dibromoethane	0.250	1.00	0.250	1	U
Dibromomethane	0.250	1.00	0.250	1	U
1,2-Dichlorobenzene	0.125	1.00	0.125	1	U
1,3-Dichlorobenzene	0.250	1.00	0.250	1	U
1,4-Dichlorobenzene	0.125	1.00	0.125	1	U
Dichlorodifluoromethane	0.250	1.00	0.250	1	U
1,1-Dichloroethane	0.125	1.00	0.125	1	U
1,2-Dichloroethane	0.250	1.00	0.250	1	U
1,1-Dichloroethene	0.500	1.00	0.500	1	U
cis-1,2-Dichloroethene	0.250	1.00	0.250	1	U
trans-1,2-Dichloroethene	0.250	1.00	0.250	1	U
1,2-Dichloropropane	0.200	1.00	0.200	1	U
1,3-Dichloropropane	0.200	1.00	0.200	1	U
2,2-Dichloropropane	0.250	1.00	0.250	1	U
cis-1,3-Dichloropropene	0.250	1.00	0.250	1	U
trans-1,3-Dichloropropene	0.500	1.00	0.500	1	U
1,1-Dichloropropene	0.250	1.00	0.250	1	U
Ethylbenzene	0.250	1.00	0.250	1	U
2-Hexanone	2.50	10.0	2.50	1	U
Hexachlorobutadiene	0.250	1.00	0.250	1	U

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Login Number: L12070658 Prep Date: 07/30/12 12:16 Sample ID: WG404914-01
 Instrument ID: HPMS8 Run Date: 07/30/12 12:16 Prep Method: 5030B/5030C/503
 File ID: 8M381192 Analyst: ADC Method: 8260B
 Workgroup (AAB#): WG404914 Matrix: Water Units: ug/L
 Contract #: _____ Cal ID: HPMS8-28-JUN-12

Analytes	MDL	RL	Concentration	Dilution	Qualifier
Isopropylbenzene	0.250	1.00	0.250	1	U
p-Isopropyltoluene	0.250	1.00	0.250	1	U
4-Methyl-2-pentanone	2.50	10.0	2.50	1	U
Methylene chloride	0.250	5.00	0.250	1	U
Naphthalene	0.200	1.00	0.200	1	U
n-Propylbenzene	0.125	1.00	0.125	1	U
Styrene	0.125	1.00	0.125	1	U
1,1,1,2-Tetrachloroethane	0.250	1.00	0.250	1	U
1,1,2,2-Tetrachloroethane	0.200	1.00	0.200	1	U
Tetrachloroethene	0.250	1.00	0.250	1	U
Toluene	0.250	1.00	0.250	1	U
1,2,3-Trichlorobenzene	0.150	1.00	0.150	1	U
1,2,4-Trichlorobenzene	0.200	1.00	0.200	1	U
1,1,1-Trichloroethane	0.250	1.00	0.250	1	U
1,1,2-Trichloroethane	0.250	1.00	0.250	1	U
Trichloroethene	0.250	1.00	0.250	1	U
Trichlorofluoromethane	0.250	1.00	0.250	1	U
1,2,3-Trichloropropane	0.500	1.00	0.500	1	U
1,2,4-Trimethylbenzene	0.250	1.00	0.250	1	U
1,3,5-Trimethylbenzene	0.250	1.00	0.250	1	U
Vinyl acetate	2.50	10.0	2.50	1	U
Vinyl chloride	0.250	1.00	0.250	1	U
o-Xylene	0.250	1.00	0.250	1	U
m-,p-Xylene	0.500	1.00	0.500	1	U

Surrogates	% Recovery	Surrogate Limits	Qualifier
Dibromofluoromethane	97.9	86 - 118	PASS
1,2-Dichloroethane-d4	82.0	80 - 120	PASS
Toluene-d8	103	88 - 110	PASS
4-Bromofluorobenzene	103	86 - 115	PASS

MDL Method Detection Limit
 RL Reporting/Practical Quantitation Limit
 ND Analyte Not detected at or above reporting limit
 * |Analyte concentration| > RL

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Login Number: L12070658 Run Date: 07/20/2012 Sample ID: WG404020-02
 Instrument ID: HPMS11 Run Time: 18:06 Prep Method: 5030B/5030C/503
 File ID: 11M85446 Analyst: FJB Method: 8260B
 Workgroup (AAB#): WG404020 Matrix: Water Units: ug/L
 QC Key: STD Lot#: STD52879 Cal ID: HPMS11-03-MAY-12

Analytes	Expected	Found	% Rec	LCS Limits	Q
Acetone	20.0	17.3	86.3	40 - 180	
Benzene	20.0	20.3	101	80 - 121	
Bromobenzene	20.0	20.4	102	80 - 120	
Bromochloromethane	20.0	19.9	99.3	65 - 130	
Bromodichloromethane	20.0	20.4	102	80 - 131	
Bromoform	20.0	19.8	98.9	70 - 130	
Bromomethane	20.0	19.9	99.4	30 - 145	
2-Butanone	20.0	16.7	83.6	10 - 170	
n-Butylbenzene	20.0	23.3	117	80 - 131	
sec-Butylbenzene	20.0	20.0	100	80 - 127	
tert-Butylbenzene	20.0	19.4	97.1	80 - 126	
Carbon disulfide	20.0	20.6	103	58 - 128	
Carbon tetrachloride	20.0	18.5	92.6	65 - 140	
Chlorobenzene	20.0	21.0	105	80 - 120	
Chlorodibromomethane	20.0	18.9	94.7	60 - 135	
Chloroethane	20.0	18.8	93.9	60 - 135	
2-Chloroethyl vinyl ether	20.0	15.6	77.8	45 - 160	
Chloroform	20.0	20.1	100	80 - 125	
Chloromethane	20.0	19.7	98.7	40 - 125	
2-Chlorotoluene	20.0	18.6	92.9	80 - 127	
4-Chlorotoluene	20.0	21.0	105	80 - 126	
1,2-Dibromo-3-chloropropane	20.0	13.1	65.7	50 - 130	
1,2-Dibromoethane	20.0	18.7	93.4	80 - 129	
Dibromomethane	20.0	17.5	87.6	75 - 125	
1,2-Dichlorobenzene	20.0	20.1	101	80 - 125	
1,3-Dichlorobenzene	20.0	19.9	99.4	80 - 120	
1,4-Dichlorobenzene	20.0	19.5	97.4	80 - 120	
Dichlorodifluoromethane	20.0	21.5	107	40 - 160	
1,1-Dichloroethane	20.0	20.3	101	80 - 125	
1,2-Dichloroethane	20.0	17.9	89.7	80 - 129	
1,1-Dichloroethene	20.0	19.7	98.7	80 - 132	
cis-1,2-Dichloroethene	20.0	21.0	105	70 - 125	
trans-1,2-Dichloroethene	20.0	20.5	102	80 - 127	
1,2-Dichloropropane	20.0	20.7	103	80 - 120	
1,3-Dichloropropane	20.0	19.8	98.9	80 - 120	
2,2-Dichloropropane	20.0	22.6	113	80 - 133	
cis-1,3-Dichloropropene	20.0	19.7	98.5	70 - 130	
trans-1,3-Dichloropropene	20.0	18.6	92.8	80 - 130	
1,1-Dichloropropene	20.0	20.1	100	75 - 130	
Ethylbenzene	20.0	20.6	103	80 - 122	
2-Hexanone	20.0	15.0	74.8	55 - 130	

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Login Number: L12070658 Run Date: 07/20/2012 Sample ID: WG404020-02
 Instrument ID: HPMS11 Run Time: 18:06 Prep Method: 5030B/5030C/503
 File ID: 11M85446 Analyst: FJB Method: 8260B
 Workgroup (AAB#): WG404020 Matrix: Water Units: ug/L
 QC Key: STD Lot#: STD52879 Cal ID: HPMS11-03-MAY-12

Analytes	Expected	Found	% Rec	LCS Limits	Q
Hexachlorobutadiene	20.0	22.4	112	72 - 132	
Isopropylbenzene	20.0	18.3	91.5	80 - 122	
p-Isopropyltoluene	20.0	20.9	104	80 - 122	
4-Methyl-2-pentanone	20.0	16.7	83.4	64 - 140	
Methylene chloride	20.0	19.7	98.5	80 - 123	
Naphthalene	20.0	15.1	75.6	59 - 149	
n-Propylbenzene	20.0	20.3	101	80 - 129	
Styrene	20.0	19.5	97.3	80 - 123	
1,1,1,2-Tetrachloroethane	20.0	20.9	105	80 - 130	
1,1,2,2-Tetrachloroethane	20.0	15.3	76.5	79 - 125	*
Tetrachloroethene	20.0	21.8	109	80 - 124	
Toluene	20.0	20.6	103	80 - 124	
1,2,3-Trichlorobenzene	20.0	19.5	97.7	55 - 140	
1,2,4-Trichlorobenzene	20.0	21.5	108	65 - 135	
1,1,1-Trichloroethane	20.0	19.6	98.2	80 - 134	
1,1,2-Trichloroethane	20.0	19.6	98.2	80 - 125	
Trichloroethene	20.0	20.3	101	80 - 122	
Trichlorofluoromethane	20.0	16.7	83.6	62 - 151	
1,2,3-Trichloropropane	20.0	19.5	97.7	75 - 125	
1,2,4-Trimethylbenzene	20.0	20.3	102	80 - 125	
1,3,5-Trimethylbenzene	20.0	19.3	96.6	80 - 127	
Vinyl acetate	20.0	23.8	119	10 - 190	
Vinyl chloride	20.0	17.3	86.7	50 - 170	
o-Xylene	20.0	19.4	97.1	80 - 122	
m-,p-Xylene	40.0	40.5	101	80 - 122	

Surrogates	% Recovery	Surrogate Limits	Qualifier
Dibromofluoromethane	89.5	86 - 118	PASS
1,2-Dichloroethane-d4	81.4	80 - 120	PASS
Toluene-d8	100	88 - 110	PASS
4-Bromofluorobenzene	98.1	86 - 115	PASS

* EXCEEDS %REC LIMIT

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Login Number: L12070658 Run Date: 07/25/2012 Sample ID: WG404417-02
 Instrument ID: HPMS8 Run Time: 11:34 Prep Method: 5030B/5030C/503
 File ID: 8M381040 Analyst: ADC Method: 8260B
 Workgroup (AAB#): WG404417 Matrix: Water Units: ug/L
 QC Key: STD Lot#: STD52879 Cal ID: HPMS8-28-JUN-12

Analytes	Expected	Found	% Rec	LCS Limits	Q
Acetone	20.0	19.8	98.8	40 - 180	
Benzene	20.0	20.2	101	80 - 121	
Bromobenzene	20.0	19.5	97.7	80 - 120	
Bromochloromethane	20.0	22.0	110	65 - 130	
Bromodichloromethane	20.0	19.9	99.6	80 - 131	
Bromoform	20.0	20.6	103	70 - 130	
Bromomethane	20.0	19.5	97.4	30 - 145	
2-Butanone	20.0	20.5	102	10 - 170	
n-Butylbenzene	20.0	15.4	77.0	80 - 131	*
sec-Butylbenzene	20.0	15.9	79.7	80 - 127	*
tert-Butylbenzene	20.0	16.2	81.0	80 - 126	
Carbon disulfide	20.0	21.2	106	58 - 128	
Carbon tetrachloride	20.0	19.0	95.0	65 - 140	
Chlorobenzene	20.0	18.6	93.2	80 - 120	
Chlorodibromomethane	20.0	20.2	101	60 - 135	
Chloroethane	20.0	19.7	98.3	60 - 135	
2-Chloroethyl vinyl ether	20.0	82.7	414	45 - 160	*
Chloroform	20.0	19.3	96.5	80 - 125	
Chloromethane	20.0	15.0	75.0	40 - 125	
2-Chlorotoluene	20.0	18.4	91.9	80 - 127	
4-Chlorotoluene	20.0	17.0	85.1	80 - 126	
1,2-Dibromo-3-chloropropane	20.0	19.8	99.2	50 - 130	
1,2-Dibromoethane	20.0	21.0	105	80 - 129	
Dibromomethane	20.0	20.8	104	75 - 125	
1,2-Dichlorobenzene	20.0	18.1	90.6	80 - 125	
1,3-Dichlorobenzene	20.0	18.0	90.1	80 - 120	
1,4-Dichlorobenzene	20.0	17.5	87.6	80 - 120	
Dichlorodifluoromethane	20.0	23.1	116	40 - 160	
1,1-Dichloroethane	20.0	20.0	99.8	80 - 125	
1,2-Dichloroethane	20.0	17.4	86.9	80 - 129	
1,1-Dichloroethene	20.0	19.1	95.3	80 - 132	
cis-1,2-Dichloroethene	20.0	21.6	108	70 - 125	
trans-1,2-Dichloroethene	20.0	19.5	97.7	80 - 127	
1,2-Dichloropropane	20.0	20.1	100	80 - 120	
1,3-Dichloropropane	20.0	20.6	103	80 - 120	
2,2-Dichloropropane	20.0	18.4	91.8	80 - 133	
cis-1,3-Dichloropropene	20.0	22.0	110	70 - 130	
trans-1,3-Dichloropropene	20.0	18.8	94.0	80 - 130	
1,1-Dichloropropene	20.0	19.4	97.1	75 - 130	
Ethylbenzene	20.0	18.2	91.2	80 - 122	
2-Hexanone	20.0	20.5	103	55 - 130	

LCS - Modified 03/06/2008
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Login Number: L12070658 Run Date: 07/25/2012 Sample ID: WG404417-02
 Instrument ID: HPMS8 Run Time: 11:34 Prep Method: 5030B/5030C/503
 File ID: 8M381040 Analyst: ADC Method: 8260B
 Workgroup (AAB#): WG404417 Matrix: Water Units: ug/L
 QC Key: STD Lot#: STD52879 Cal ID: HPMS8-28-JUN-12

Analytes	Expected	Found	% Rec	LCS Limits	Q
Hexachlorobutadiene	20.0	14.3	71.4	72 - 132	*
Isopropylbenzene	20.0	15.5	77.4	80 - 122	*
p-Isopropyltoluene	20.0	16.2	81.0	80 - 122	
4-Methyl-2-pentanone	20.0	21.4	107	64 - 140	
Methylene chloride	20.0	18.6	93.1	80 - 123	
Naphthalene	20.0	20.4	102	59 - 149	
n-Propylbenzene	20.0	17.7	88.6	80 - 129	
Styrene	20.0	19.1	95.5	80 - 123	
1,1,1,2-Tetrachloroethane	20.0	19.1	95.6	80 - 130	
1,1,2,2-Tetrachloroethane	20.0	21.4	107	79 - 125	
Tetrachloroethene	20.0	18.3	91.6	80 - 124	
Toluene	20.0	18.7	93.5	80 - 124	
1,2,3-Trichlorobenzene	20.0	16.6	83.1	55 - 140	
1,2,4-Trichlorobenzene	20.0	16.6	83.0	65 - 135	
1,1,1-Trichloroethane	20.0	18.7	93.5	80 - 134	
1,1,2-Trichloroethane	20.0	21.1	106	80 - 125	
Trichloroethene	20.0	20.1	100	80 - 122	
Trichlorofluoromethane	20.0	18.1	90.7	62 - 151	
1,2,3-Trichloropropane	20.0	21.7	109	75 - 125	
1,2,4-Trimethylbenzene	20.0	18.1	90.6	80 - 125	
1,3,5-Trimethylbenzene	20.0	17.4	87.0	80 - 127	
Vinyl acetate	20.0	33.1	165	10 - 190	
Vinyl chloride	20.0	19.0	94.9	50 - 170	
o-Xylene	20.0	18.6	93.1	80 - 122	
m-,p-Xylene	40.0	36.5	91.1	80 - 122	

Surrogates	% Recovery	Surrogate Limits	Qualifier
Dibromofluoromethane	100	86 - 118	PASS
1,2-Dichloroethane-d4	84.0	80 - 120	PASS
Toluene-d8	98.1	88 - 110	PASS
4-Bromofluorobenzene	100	86 - 115	PASS

* EXCEEDS %REC LIMIT

LCS - Modified 03/06/2008
 PDF File ID: 2513568
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Login Number: L12070658 Analyst: FJB Prep Method: 5030B/5030C/503
 Instrument ID: HPMS11 Matrix: Water Method: 8260B
 Workgroup (AAB#): WG404130 Units: ug/L
 QC Key: STD Lot #: STD52879

Sample ID: WG404130-02 LCS File ID: 11M85503 Run Date: 07/23/2012 14:25
 Sample ID: WG404130-03 LCS2 File ID: 11M85504 Run Date: 07/23/2012 14:56

Analytes	LCS			LCS2			%RPD	%Rec Limits	RPD Lmt	Q
	Known	Found	% REC	Known	Found	% REC				
Acetone	20.0	22.3	111	20.0	30.6	153	31.4	40 - 180	20	#
Benzene	20.0	21.5	108	20.0	21.0	105	2.42	80 - 121	20	
Bromobenzene	20.0	22.1	110	20.0	21.8	109	0.999	80 - 120	20	
Bromochloromethane	20.0	20.0	99.9	20.0	20.0	100	0.0780	65 - 130	20	
Bromodichloromethane	20.0	21.0	105	20.0	20.6	103	1.75	80 - 131	20	
Bromoform	20.0	17.6	88.1	20.0	17.7	88.5	0.363	70 - 130	20	
Bromomethane	20.0	23.8	119	20.0	24.0	120	0.763	30 - 145	20	
2-Butanone	20.0	17.5	87.4	20.0	17.5	87.4	0.0556	10 - 170	20	
n-Butylbenzene	20.0	23.6	118	20.0	23.1	116	1.88	80 - 131	20	
sec-Butylbenzene	20.0	20.7	103	20.0	20.2	101	2.42	80 - 127	20	
tert-Butylbenzene	20.0	20.4	102	20.0	20.2	101	0.928	80 - 126	20	
Carbon disulfide	20.0	19.3	96.4	20.0	19.3	96.3	0.153	58 - 128	20	
Carbon tetrachloride	20.0	18.0	90.0	20.0	17.6	87.8	2.41	65 - 140	20	
Chlorobenzene	20.0	21.9	109	20.0	21.5	107	1.67	80 - 120	20	
Chlorodibromomethane	20.0	18.0	90.2	20.0	18.0	89.9	0.337	60 - 135	20	
Chloroethane	20.0	19.9	99.7	20.0	19.9	99.4	0.294	60 - 135	20	
2-Chloroethyl vinyl ether	20.0	9.28	46.4	20.0	8.76	43.8	5.79	45 - 160	20	*
Chloroform	20.0	21.0	105	20.0	20.5	102	2.69	80 - 125	20	
Chloromethane	20.0	21.8	109	20.0	21.3	106	2.29	40 - 125	20	
2-Chlorotoluene	20.0	20.8	104	20.0	20.3	102	2.24	80 - 127	20	
4-Chlorotoluene	20.0	21.5	107	20.0	21.3	106	1.05	80 - 126	20	
1,2-Dibromo-3-chloropropane	20.0	15.0	75.1	20.0	14.3	71.4	4.96	50 - 130	20	
1,2-Dibromoethane	20.0	19.0	94.8	20.0	18.8	93.8	0.971	80 - 129	20	
Dibromomethane	20.0	18.1	90.7	20.0	18.0	90.1	0.704	75 - 125	20	
1,2-Dichlorobenzene	20.0	20.3	101	20.0	19.9	99.4	1.94	80 - 125	20	
1,3-Dichlorobenzene	20.0	20.5	103	20.0	20.0	100	2.51	80 - 120	20	
1,4-Dichlorobenzene	20.0	20.1	101	20.0	19.8	98.9	1.77	80 - 120	20	
Dichlorodifluoromethane	20.0	25.8	129	20.0	25.7	128	0.603	40 - 160	20	
1,1-Dichloroethane	20.0	21.5	107	20.0	20.9	104	2.97	80 - 125	20	
1,2-Dichloroethane	20.0	18.3	91.7	20.0	18.3	91.3	0.387	80 - 129	20	
1,1-Dichloroethene	20.0	22.3	111	20.0	21.7	109	2.44	80 - 132	20	
cis-1,2-Dichloroethene	20.0	21.5	107	20.0	21.2	106	1.45	70 - 125	20	
trans-1,2-Dichloroethene	20.0	21.5	107	20.0	20.9	104	2.85	80 - 127	20	
1,2-Dichloropropane	20.0	22.1	110	20.0	21.5	107	2.67	80 - 120	20	
1,3-Dichloropropane	20.0	20.2	101	20.0	20.3	102	0.481	80 - 120	20	
2,2-Dichloropropane	20.0	13.7	68.4	20.0	12.9	64.4	6.11	80 - 133	20	*
cis-1,3-Dichloropropene	20.0	17.4	86.8	20.0	16.7	83.7	3.53	70 - 130	20	
trans-1,3-Dichloropropene	20.0	12.9	64.7	20.0	12.9	64.3	0.706	80 - 130	20	*
1,1-Dichloropropene	20.0	21.6	108	20.0	21.1	105	2.46	75 - 130	20	
Ethylbenzene	20.0	21.5	107	20.0	21.0	105	2.28	80 - 122	20	

LCS_LCS2 - Modified 03/06/2008
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Login Number: L12070658 Analyst: FJB Prep Method: 5030B/5030C/503
 Instrument ID: HPMS11 Matrix: Water Method: 8260B
 Workgroup (AAB#): WG404130 Units: ug/L
 QC Key: STD Lot #: STD52879

Sample ID: WG404130-02 LCS File ID: 11M85503 Run Date: 07/23/2012 14:25
 Sample ID: WG404130-03 LCS2 File ID: 11M85504 Run Date: 07/23/2012 14:56

Analytes	LCS			LCS2			%RPD	%Rec Limits	RPD Lmt	Q
	Known	Found	% REC	Known	Found	% REC				
2-Hexanone	20.0	16.1	80.7	20.0	15.9	79.5	1.55	55 - 130	20	
Hexachlorobutadiene	20.0	21.0	105	20.0	20.5	103	2.08	72 - 132	20	
Isopropylbenzene	20.0	19.0	95.0	20.0	18.6	93.0	2.13	80 - 122	20	
p-Isopropyltoluene	20.0	21.2	106	20.0	20.8	104	1.83	80 - 122	20	
4-Methyl-2-pentanone	20.0	18.2	91.0	20.0	17.8	88.8	2.48	64 - 140	20	
Methylene chloride	20.0	21.2	106	20.0	20.6	103	2.76	80 - 123	20	
Naphthalene	20.0	18.2	91.0	20.0	18.4	91.8	0.868	59 - 149	20	
n-Propylbenzene	20.0	21.8	109	20.0	21.2	106	2.65	80 - 129	20	
Styrene	20.0	20.4	102	20.0	20.0	100	2.15	80 - 123	20	
1,1,1,2-Tetrachloroethane	20.0	21.0	105	20.0	20.5	103	2.16	80 - 130	20	
1,1,2,2-Tetrachloroethane	20.0	18.3	91.3	20.0	18.4	92.1	0.887	79 - 125	20	
Tetrachloroethene	20.0	22.5	113	20.0	22.1	110	2.01	80 - 124	20	
Toluene	20.0	21.7	108	20.0	21.2	106	2.01	80 - 124	20	
1,2,3-Trichlorobenzene	20.0	21.6	108	20.0	21.5	108	0.248	55 - 140	20	
1,2,4-Trichlorobenzene	20.0	23.5	118	20.0	23.2	116	1.21	65 - 135	20	
1,1,1-Trichloroethane	20.0	20.0	100	20.0	19.7	98.7	1.32	80 - 134	20	
1,1,2-Trichloroethane	20.0	20.3	102	20.0	20.2	101	0.612	80 - 125	20	
Trichloroethene	20.0	20.6	103	20.0	20.0	100	2.71	80 - 122	20	
Trichlorofluoromethane	20.0	17.7	88.3	20.0	17.6	88.1	0.230	62 - 151	20	
1,2,3-Trichloropropane	20.0	21.7	108	20.0	21.3	106	1.98	75 - 125	20	
1,2,4-Trimethylbenzene	20.0	21.7	108	20.0	21.0	105	2.99	80 - 125	20	
1,3,5-Trimethylbenzene	20.0	20.8	104	20.0	20.4	102	1.72	80 - 127	20	
Vinyl acetate	20.0	16.5	82.3	20.0	15.3	76.4	7.51	10 - 190	20	
Vinyl chloride	20.0	20.4	102	20.0	19.9	99.4	2.70	50 - 170	20	
o-Xylene	20.0	20.2	101	20.0	19.6	98.0	2.76	80 - 122	20	
m-,p-Xylene	40.0	42.0	105	40.0	41.0	102	2.38	80 - 122	20	

Surogates	LCS	LCS2	Surrogate Limits	Qualifier
	% Recovery	% Recovery		
1,2-Dichloroethane-d4	81.1	81.6	80 - 120	PASS
Dibromofluoromethane	89.7	89.7	86 - 118	PASS
4-Bromofluorobenzene	107	107	86 - 115	PASS
Toluene-d8	101	101	88 - 110	PASS

* EXCEEDS %REC LIMIT
 # EXCEEDS RPD LIMIT

LCS_LCS2 - Modified 03/06/2008
 PDF File ID: 2511920
 Report generated: 07/31/2012 15:42



Login Number: L12070658 Analyst: MES Prep Method: 5030B/5030C/503
 Instrument ID: HPMS10 Matrix: Water Method: 8260B
 Workgroup (AAB#): WG404058 Units: ug/L
 QC Key: STD Lot #: STD52919

Sample ID: WG404058-02 LCS File ID: 10M97160 Run Date: 07/21/2012 17:38
 Sample ID: WG404058-03 LCS2 File ID: 10M97161 Run Date: 07/21/2012 18:08

Analytes	LCS			LCS2			%RPD	%Rec Limits	RPD Lmt	Q
	Known	Found	% REC	Known	Found	% REC				
Acetone	20.0	19.2	96.1	20.0	18.7	93.7	2.58	40 - 180	20	
Benzene	20.0	21.3	107	20.0	20.9	105	1.92	80 - 121	20	
Bromobenzene	20.0	19.9	99.5	20.0	19.8	98.8	0.741	80 - 120	20	
Bromochloromethane	20.0	21.0	105	20.0	21.0	105	0.229	65 - 130	20	
Bromodichloromethane	20.0	21.0	105	20.0	20.9	105	0.431	80 - 131	20	
Bromoform	20.0	18.1	90.4	20.0	18.0	89.9	0.573	70 - 130	20	
Bromomethane	20.0	23.0	115	20.0	22.6	113	2.09	30 - 145	20	
2-Butanone	20.0	18.5	92.6	20.0	18.3	91.3	1.38	10 - 170	20	
n-Butylbenzene	20.0	21.2	106	20.0	20.7	103	2.35	80 - 131	20	
sec-Butylbenzene	20.0	20.5	103	20.0	20.3	101	1.16	80 - 127	20	
tert-Butylbenzene	20.0	19.5	97.3	20.0	19.4	96.8	0.525	80 - 126	20	
Carbon disulfide	20.0	23.4	117	20.0	23.1	116	1.22	58 - 128	20	
Carbon tetrachloride	20.0	22.7	114	20.0	22.5	113	0.857	65 - 140	20	
Chlorobenzene	20.0	19.6	98.1	20.0	19.6	97.9	0.233	80 - 120	20	
Chlorodibromomethane	20.0	19.4	97.0	20.0	19.4	97.0	0.0062	60 - 135	20	
Chloroethane	20.0	23.0	115	20.0	22.4	112	3.01	60 - 135	20	
2-Chloroethyl vinyl ether	20.0	14.1	70.6	20.0	14.5	72.6	2.78	45 - 160	20	
Chloroform	20.0	21.7	109	20.0	21.6	108	0.641	80 - 125	20	
Chloromethane	20.0	28.2	141	20.0	27.8	139	1.26	40 - 125	20	*
2-Chlorotoluene	20.0	21.4	107	20.0	20.8	104	2.83	80 - 127	20	
4-Chlorotoluene	20.0	19.1	95.4	20.0	19.5	97.6	2.28	80 - 126	20	
1,2-Dibromo-3-chloropropane	20.0	15.2	76.2	20.0	15.6	78.2	2.61	50 - 130	20	
1,2-Dibromoethane	20.0	19.2	96.0	20.0	19.1	95.6	0.394	80 - 129	20	
Dibromomethane	20.0	20.3	101	20.0	20.3	102	0.360	75 - 125	20	
1,2-Dichlorobenzene	20.0	19.5	97.6	20.0	19.3	96.5	1.08	80 - 125	20	
1,3-Dichlorobenzene	20.0	19.9	99.5	20.0	19.6	97.9	1.65	80 - 120	20	
1,4-Dichlorobenzene	20.0	19.6	98.2	20.0	19.3	96.5	1.74	80 - 120	20	
Dichlorodifluoromethane	20.0	37.5	188	20.0	36.4	182	3.04	40 - 160	20	*
1,1-Dichloroethane	20.0	21.6	108	20.0	21.3	106	1.79	80 - 125	20	
1,2-Dichloroethane	20.0	21.0	105	20.0	20.9	104	0.591	80 - 129	20	
1,1-Dichloroethene	20.0	22.0	110	20.0	21.4	107	2.79	80 - 132	20	
cis-1,2-Dichloroethene	20.0	21.5	107	20.0	21.3	106	0.837	70 - 125	20	
trans-1,2-Dichloroethene	20.0	21.4	107	20.0	20.9	105	2.02	80 - 127	20	
1,2-Dichloropropane	20.0	21.1	105	20.0	20.7	103	1.91	80 - 120	20	
1,3-Dichloropropane	20.0	18.9	94.3	20.0	19.0	95.1	0.784	80 - 120	20	
2,2-Dichloropropane	20.0	22.8	114	20.0	22.5	112	1.46	80 - 133	20	
cis-1,3-Dichloropropene	20.0	21.4	107	20.0	21.3	106	0.517	70 - 130	20	
trans-1,3-Dichloropropene	20.0	17.7	88.6	20.0	17.9	89.6	1.15	80 - 130	20	
1,1-Dichloropropene	20.0	21.5	107	20.0	21.2	106	1.33	75 - 130	20	
Ethylbenzene	20.0	19.8	98.9	20.0	19.3	96.3	2.75	80 - 122	20	

LCS_LCS2 - Modified 03/06/2008
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Login Number: L12070658 Analyst: MES Prep Method: 5030B/5030C/503
 Instrument ID: HPMS10 Matrix: Water Method: 8260B
 Workgroup (AAB#): WG404058 Units: ug/L
 QC Key: STD Lot #: STD52919

Sample ID: WG404058-02 LCS File ID: 10M97160 Run Date: 07/21/2012 17:38
 Sample ID: WG404058-03 LCS2 File ID: 10M97161 Run Date: 07/21/2012 18:08

Analytes	LCS			LCS2			%RPD	%Rec Limits	RPD Lmt	Q
	Known	Found	% REC	Known	Found	% REC				
2-Hexanone	20.0	16.8	84.2	20.0	16.5	82.7	1.74	55 - 130	20	
Hexachlorobutadiene	20.0	21.2	106	20.0	21.3	107	0.417	72 - 132	20	
Isopropylbenzene	20.0	18.0	90.2	20.0	17.8	88.8	1.47	80 - 122	20	
p-Isopropyltoluene	20.0	20.3	102	20.0	19.8	99.0	2.48	80 - 122	20	
4-Methyl-2-pentanone	20.0	17.2	86.1	20.0	17.7	88.5	2.78	64 - 140	20	
Methylene chloride	20.0	20.5	103	20.0	20.6	103	0.440	80 - 123	20	
Naphthalene	20.0	14.2	71.1	20.0	14.3	71.5	0.627	59 - 149	20	
n-Propylbenzene	20.0	21.0	105	20.0	20.7	104	1.29	80 - 129	20	
Styrene	20.0	20.1	101	20.0	19.9	99.4	1.20	80 - 123	20	
1,1,1,2-Tetrachloroethane	20.0	20.1	101	20.0	20.3	101	0.700	80 - 130	20	
1,1,2,2-Tetrachloroethane	20.0	18.5	92.7	20.0	18.3	91.3	1.52	79 - 125	20	
Tetrachloroethene	20.0	20.5	102	20.0	20.6	103	0.543	80 - 124	20	
Toluene	20.0	20.7	103	20.0	20.7	103	0.139	80 - 124	20	
1,2,3-Trichlorobenzene	20.0	16.6	83.0	20.0	16.7	83.4	0.480	55 - 140	20	
1,2,4-Trichlorobenzene	20.0	17.2	86.0	20.0	17.2	85.8	0.275	65 - 135	20	
1,1,1-Trichloroethane	20.0	21.9	109	20.0	21.6	108	1.38	80 - 134	20	
1,1,2-Trichloroethane	20.0	18.7	93.6	20.0	18.5	92.7	1.02	80 - 125	20	
Trichloroethene	20.0	21.0	105	20.0	20.7	104	1.36	80 - 122	20	
Trichlorofluoromethane	20.0	22.5	113	20.0	22.7	114	0.909	62 - 151	20	
1,2,3-Trichloropropane	20.0	17.8	88.8	20.0	17.5	87.6	1.33	75 - 125	20	
1,2,4-Trimethylbenzene	20.0	21.6	108	20.0	21.3	106	1.69	80 - 125	20	
1,3,5-Trimethylbenzene	20.0	21.0	105	20.0	20.8	104	0.735	80 - 127	20	
Vinyl acetate	20.0	27.9	140	20.0	27.4	137	1.88	10 - 190	20	
Vinyl chloride	20.0	29.0	145	20.0	27.9	139	3.96	50 - 170	20	
o-Xylene	20.0	19.5	97.5	20.0	19.1	95.6	2.00	80 - 122	20	
m-,p-Xylene	40.0	41.3	103	40.0	40.4	101	2.03	80 - 122	20	

Surogates	LCS	LCS2	Surrogate Limits	Qualifier
	% Recovery	% Recovery		
1,2-Dichloroethane-d4	99.1	97.0	80 - 120	PASS
Dibromofluoromethane	99.3	98.6	86 - 118	PASS
4-Bromofluorobenzene	97.8	96.8	86 - 115	PASS
Toluene-d8	99.8	100	88 - 110	PASS

* EXCEEDS %REC LIMIT
 # EXCEEDS RPD LIMIT

LCS_LCS2 - Modified 03/06/2008
 PDF File ID: 2511920
 Report generated: 07/31/2012 15:42



Login Number: L12070658 Analyst: ADC Prep Method: 5030B/5030C/503
 Instrument ID: HPMS8 Matrix: Water Method: 8260B
 Workgroup (AAB#): WG404914 Units: ug/L
 QC Key: STD Lot #: STD52919

Sample ID: WG404914-02 LCS File ID: 8M381193 Run Date: 07/30/2012 12:46
 Sample ID: WG404914-03 LCS2 File ID: 8M381194 Run Date: 07/30/2012 13:16

Analytes	LCS			LCS2			%RPD	%Rec Limits	RPD Lmt	Q
	Known	Found	% REC	Known	Found	% REC				
Acetone	20.0	14.5	72.6	20.0	15.7	78.4	7.69	40 - 180	20	
Benzene	20.0	19.2	96.0	20.0	18.8	94.1	1.94	80 - 121	20	
Bromobenzene	20.0	20.1	100	20.0	20.0	99.8	0.633	80 - 120	20	
Bromochloromethane	20.0	20.1	100	20.0	20.5	103	2.06	65 - 130	20	
Bromodichloromethane	20.0	18.7	93.6	20.0	18.6	93.2	0.435	80 - 131	20	
Bromoform	20.0	19.0	95.1	20.0	19.8	99.2	4.16	70 - 130	20	
Bromomethane	20.0	20.1	100	20.0	18.9	94.7	5.90	30 - 145	20	
2-Butanone	20.0	15.4	76.8	20.0	16.7	83.6	8.45	10 - 170	20	
n-Butylbenzene	20.0	17.2	86.2	20.0	16.5	82.7	4.09	80 - 131	20	
sec-Butylbenzene	20.0	17.6	88.0	20.0	16.8	84.2	4.41	80 - 127	20	
tert-Butylbenzene	20.0	18.0	90.2	20.0	17.1	85.5	5.30	80 - 126	20	
Carbon disulfide	20.0	20.4	102	20.0	19.6	98.2	4.01	58 - 128	20	
Carbon tetrachloride	20.0	19.0	95.1	20.0	18.3	91.4	3.89	65 - 140	20	
Chlorobenzene	20.0	19.1	95.5	20.0	18.9	94.6	0.989	80 - 120	20	
Chlorodibromomethane	20.0	20.0	100	20.0	19.8	98.8	1.17	60 - 135	20	
Chloroethane	20.0	18.3	91.4	20.0	17.9	89.5	2.07	60 - 135	20	
2-Chloroethyl vinyl ether	20.0	70.1	351	20.0	73.4	367	4.64	45 - 160	20	*
Chloroform	20.0	18.7	93.3	20.0	18.0	89.8	3.81	80 - 125	20	
Chloromethane	20.0	14.4	72.2	20.0	14.2	71.1	1.49	40 - 125	20	
2-Chlorotoluene	20.0	20.8	104	20.0	19.9	99.6	4.22	80 - 127	20	
4-Chlorotoluene	20.0	17.0	85.1	20.0	17.0	84.8	0.460	80 - 126	20	
1,2-Dibromo-3-chloropropane	20.0	17.2	86.1	20.0	19.2	96.1	11.0	50 - 130	20	
1,2-Dibromoethane	20.0	20.4	102	20.0	20.4	102	0.0286	80 - 129	20	
Dibromomethane	20.0	18.5	92.5	20.0	19.1	95.5	3.22	75 - 125	20	
1,2-Dichlorobenzene	20.0	18.6	92.8	20.0	18.4	92.2	0.716	80 - 125	20	
1,3-Dichlorobenzene	20.0	18.8	93.9	20.0	18.7	93.5	0.446	80 - 120	20	
1,4-Dichlorobenzene	20.0	18.1	90.3	20.0	17.9	89.3	1.15	80 - 120	20	
Dichlorodifluoromethane	20.0	21.3	107	20.0	20.9	104	2.23	40 - 160	20	
1,1-Dichloroethane	20.0	19.2	96.1	20.0	18.8	94.2	2.04	80 - 125	20	
1,2-Dichloroethane	20.0	16.1	80.6	20.0	16.1	80.7	0.0730	80 - 129	20	
1,1-Dichloroethene	20.0	18.9	94.4	20.0	18.0	90.2	4.64	80 - 132	20	
cis-1,2-Dichloroethene	20.0	20.8	104	20.0	20.3	101	2.77	70 - 125	20	
trans-1,2-Dichloroethene	20.0	19.1	95.5	20.0	18.3	91.4	4.38	80 - 127	20	
1,2-Dichloropropane	20.0	19.0	95.0	20.0	18.8	94.1	0.933	80 - 120	20	
1,3-Dichloropropane	20.0	19.8	98.8	20.0	20.0	99.9	1.08	80 - 120	20	
2,2-Dichloropropane	20.0	18.2	90.9	20.0	17.5	87.5	3.79	80 - 133	20	
cis-1,3-Dichloropropene	20.0	20.2	101	20.0	20.2	101	0.208	70 - 130	20	
trans-1,3-Dichloropropene	20.0	18.6	93.0	20.0	18.3	91.5	1.67	80 - 130	20	
1,1-Dichloropropene	20.0	18.7	93.7	20.0	18.2	90.8	3.12	75 - 130	20	
Ethylbenzene	20.0	18.7	93.3	20.0	18.3	91.3	2.08	80 - 122	20	

LCS_LCS2 - Modified 03/06/2008
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Login Number: L12070658 Analyst: ADC Prep Method: 5030B/5030C/503
 Instrument ID: HPMS8 Matrix: Water Method: 8260B
 Workgroup (AAB#): WG404914 Units: ug/L
 QC Key: STD Lot #: STD52919

Sample ID: WG404914-02 LCS File ID: 8M381193 Run Date: 07/30/2012 12:46
 Sample ID: WG404914-03 LCS2 File ID: 8M381194 Run Date: 07/30/2012 13:16

Analytes	LCS			LCS2			%RPD	%Rec Limits	RPD Lmt	Q
	Known	Found	% REC	Known	Found	% REC				
2-Hexanone	20.0	17.4	87.0	20.0	17.7	88.3	1.48	55 - 130	20	
Hexachlorobutadiene	20.0	16.4	82.1	20.0	15.7	78.6	4.34	72 - 132	20	
Isopropylbenzene	20.0	16.0	80.2	20.0	15.8	79.2	1.28	80 - 122	20	*
p-Isopropyltoluene	20.0	18.0	90.0	20.0	17.2	85.8	4.80	80 - 122	20	
4-Methyl-2-pentanone	20.0	16.4	82.0	20.0	18.0	90.2	9.58	64 - 140	20	
Methylene chloride	20.0	17.2	86.0	20.0	17.2	86.1	0.0715	80 - 123	20	
Naphthalene	20.0	18.9	94.5	20.0	19.4	96.8	2.37	59 - 149	20	
n-Propylbenzene	20.0	19.1	95.6	20.0	18.4	92.1	3.70	80 - 129	20	
Styrene	20.0	19.3	96.4	20.0	18.8	94.0	2.51	80 - 123	20	
1,1,1,2-Tetrachloroethane	20.0	19.5	97.5	20.0	19.1	95.6	2.01	80 - 130	20	
1,1,2,2-Tetrachloroethane	20.0	20.7	104	20.0	21.0	105	1.54	79 - 125	20	
Tetrachloroethene	20.0	19.1	95.4	20.0	18.3	91.3	4.46	80 - 124	20	
Toluene	20.0	19.6	97.8	20.0	18.8	94.0	3.95	80 - 124	20	
1,2,3-Trichlorobenzene	20.0	16.2	80.8	20.0	16.4	82.1	1.55	55 - 140	20	
1,2,4-Trichlorobenzene	20.0	17.0	85.0	20.0	17.1	85.6	0.677	65 - 135	20	
1,1,1-Trichloroethane	20.0	18.3	91.6	20.0	17.9	89.3	2.59	80 - 134	20	
1,1,2-Trichloroethane	20.0	20.0	100	20.0	20.6	103	3.05	80 - 125	20	
Trichloroethene	20.0	19.1	95.3	20.0	18.5	92.4	3.09	80 - 122	20	
Trichlorofluoromethane	20.0	17.6	87.9	20.0	17.0	85.0	3.28	62 - 151	20	
1,2,3-Trichloropropane	20.0	20.4	102	20.0	20.4	102	0.192	75 - 125	20	
1,2,4-Trimethylbenzene	20.0	19.5	97.7	20.0	19.0	95.2	2.67	80 - 125	20	
1,3,5-Trimethylbenzene	20.0	18.8	94.0	20.0	18.3	91.3	2.89	80 - 127	20	
Vinyl acetate	20.0	27.0	135	20.0	27.8	139	2.92	10 - 190	20	
Vinyl chloride	20.0	18.4	92.1	20.0	17.2	86.2	6.63	50 - 170	20	
o-Xylene	20.0	18.6	92.8	20.0	18.3	91.4	1.51	80 - 122	20	
m-,p-Xylene	40.0	37.5	93.8	40.0	36.5	91.2	2.79	80 - 122	20	

Surogates	LCS	LCS2	Surrogate Limits	Qualifier
	% Recovery	% Recovery		
1,2-Dichloroethane-d4	81.9	83.4	80 - 120	PASS
Dibromofluoromethane	98.9	98.8	86 - 118	PASS
4-Bromofluorobenzene	102	102	86 - 115	PASS
Toluene-d8	103	102	88 - 110	PASS

* EXCEEDS %REC LIMIT
EXCEEDS RPD LIMIT

LCS_LCS2 - Modified 03/06/2008
PDF File ID: 2511920
Report generated: 07/31/2012 15:42



MS/MSD REPORT

Loginnum: L12070658 Cal ID: HPMS8- 28-JUN-12
 Instrument ID: HPMS8 Contract #: _____
 Parent ID: L12070658-02 File ID: 8M381052 Dil: 1
 Sample ID: L12070658-03 MS File ID: 8M381043 Dil: 1
 Sample ID: L12070658-04 MSD File ID: 8M381044 Dil: 1

Worknum: WG404417
 Prep Method: 5030B/5030C/
 Method: 5035A
 Matrix: 8260B
 Units: Water
ug/L

Analyte	Parent	MS Spiked	MS Found	MS %Rec	MSD Spiked	MSD Found	MSD %Rec	%RPD	%Rec Limits	RPD Limit	Q
Acetone	ND	20.0	18.6	93.1	20.0	18.5	92.4	0.781	40 - 180	20	
Benzene	ND	20.0	20.0	99.8	20.0	20.3	102	1.75	80 - 121	20	
Bromobenzene	ND	20.0	19.4	96.9	20.0	19.5	97.4	0.493	80 - 120	20	
Bromochloromethane	ND	20.0	21.4	107	20.0	21.7	109	1.38	65 - 130	20	
Bromodichloromethane	ND	20.0	19.4	97.1	20.0	19.8	98.8	1.79	80 - 131	20	
Bromoform	ND	20.0	19.5	97.3	20.0	19.6	98	0.737	70 - 130	20	
Bromomethane	ND	20.0	19.8	99	20.0	20.2	101	2.23	30 - 145	20	
2-Butanone	ND	20.0	17.8	88.9	20.0	17.5	87.7	1.31	30 - 170	20	
n-Butylbenzene	ND	20.0	15.8	79.1	20.0	15.9	79.6	0.650	80 - 131	20	*
sec-Butylbenzene	ND	20.0	16.2	80.9	20.0	16.4	82.1	1.57	80 - 127	20	
tert-Butylbenzene	ND	20.0	16.3	81.5	20.0	16.6	83	1.84	80 - 126	20	
Carbon disulfide	ND	20.0	21.3	106	20.0	21.3	106	0.0985	58 - 128	20	
Carbon tetrachloride	ND	20.0	18.9	94.7	20.0	19.3	96.5	1.96	65 - 140	20	
Chlorobenzene	ND	20.0	18.7	93.4	20.0	18.9	94.6	1.19	80 - 120	20	
Chlorodibromomethane	ND	20.0	19.6	97.9	20.0	19.7	98.5	0.620	60 - 135	20	
Chloroethane	ND	20.0	18.7	93.3	20.0	19.0	94.8	1.56	60 - 135	20	
2-Chloroethyl vinyl ether	ND	20.0	0	0	20.0	0	0	NA	58 - 160	20	**
Chloroform	ND	20.0	19.0	95.1	20.0	19.6	97.9	2.92	80 - 125	20	
Chloromethane	ND	20.0	14.5	72.4	20.0	14.6	73.1	0.915	40 - 125	20	
2-Chlorotoluene	ND	20.0	18.4	92.1	20.0	19.2	96.1	4.18	80 - 127	20	
4-Chlorotoluene	ND	20.0	17.3	86.6	20.0	17.5	87.5	0.982	80 - 126	20	
1,2-Dibromo-3-chloropropane	ND	20.0	18.1	90.6	20.0	19.5	97.6	7.39	50 - 130	20	
1,2-Dibromoethane	ND	20.0	20.6	103	20.0	20.8	104	1.24	80 - 129	20	
Dibromomethane	ND	20.0	19.9	99.5	20.0	20.2	101	1.75	75 - 125	20	
1,2-Dichlorobenzene	ND	20.0	18.1	90.7	20.0	18.3	91.5	0.953	80 - 125	20	
1,3-Dichlorobenzene	ND	20.0	18.1	90.7	20.0	18.3	91.3	0.624	80 - 120	20	
1,4-Dichlorobenzene	ND	20.0	17.3	86.5	20.0	17.6	88.1	1.82	80 - 120	20	
Dichlorodifluoromethane	ND	20.0	22.1	110	20.0	22.5	113	1.94	50 - 160	20	
1,1-Dichloroethane	0.246	20.0	19.8	98	20.0	20.2	99.8	1.82	80 - 125	20	
1,2-Dichloroethane	ND	20.0	17.0	84.8	20.0	17.3	86.5	2.02	80 - 129	20	
1,1-Dichloroethene	1.01	20.0	19.8	93.9	20.0	19.8	93.9	0.0530	80 - 132	20	
cis-1,2-Dichloroethene	0.271	20.0	21.3	105	20.0	21.9	108	2.79	70 - 125	20	
trans-1,2-Dichloroethene	ND	20.0	19.2	95.8	20.0	19.8	98.9	3.24	80 - 127	20	
1,2-Dichloropropane	ND	20.0	19.5	97.3	20.0	20.2	101	3.91	80 - 120	20	
1,3-Dichloropropane	ND	20.0	19.9	99.3	20.0	20.2	101	1.84	80 - 120	20	
2,2-Dichloropropane	ND	20.0	18.7	93.7	20.0	18.7	93.6	0.166	80 - 133	20	
cis-1,3-Dichloropropene	ND	20.0	21.1	105	20.0	21.8	109	3.36	70 - 130	20	
trans-1,3-Dichloropropene	ND	20.0	18.4	91.9	20.0	18.7	93.4	1.63	80 - 130	20	
1,1-Dichloropropene	ND	20.0	19.0	94.8	20.0	19.7	98.3	3.54	75 - 130	20	
Ethylbenzene	ND	20.0	18.3	91.6	20.0	18.5	92.7	1.26	80 - 122	20	
2-Hexanone	ND	20.0	20.0	99.9	20.0	19.2	95.8	4.14	55 - 130	20	

MS_MSD - Modified 03/06/2008
 PDF File ID: 2523861
 Report generated 07/31/2012 15:41



MS/MSD REPORT

Loginnum: L12070658 Cal ID: HPMS8 28-JUN-12
 Instrument ID: HPMS8 Contract #: _____
 Parent ID: L12070658-02 File ID: 8M381052 Dil: 1
 Sample ID: L12070658-03 MS File ID: 8M381043 Dil: 1
 Sample ID: L12070658-04 MSD File ID: 8M381044 Dil: 1

Worknum: WG404417
 Prep Method: 5030B/5030C/
 Method: 5035A
 Matrix: 8260B
 Units: Water
ug/L

Analyte	Parent	MS Spiked	MS Found	MS %Rec	MSD Spiked	MSD Found	MSD %Rec	%RPD	%Rec Limits	RPD Limit	Q
Hexachlorobutadiene	ND	20.0	15.2	76	20.0	15.2	76	0.0381	72 - 132	20	
Isopropylbenzene	ND	20.0	15.5	77.4	20.0	15.6	77.9	0.725	80 - 122	20	*
p-Isopropyltoluene	ND	20.0	16.5	82.6	20.0	16.8	83.8	1.41	80 - 122	20	
4-Methyl-2-pentanone	ND	20.0	18.3	91.7	20.0	18.3	91.3	0.491	64 - 140	20	
Methylene chloride	ND	20.0	18.7	93.5	20.0	18.7	93.7	0.219	80 - 123	20	
Naphthalene	ND	20.0	19.9	99.6	20.0	20.3	102	1.95	59 - 149	20	
n-Propylbenzene	ND	20.0	18.0	90	20.0	18.1	90.3	0.282	80 - 129	20	
Styrene	ND	20.0	19.1	95.4	20.0	19.2	95.8	0.459	80 - 123	20	
1,1,1,2-Tetrachloroethane	ND	20.0	19.2	95.9	20.0	19.4	96.8	0.847	80 - 130	20	
1,1,2,2-Tetrachloroethane	ND	20.0	21.4	107	20.0	21.4	107	0.259	79 - 125	20	
Tetrachloroethene	41.8	20.0	54.1	61.7	20.0	54.1	61.4	0.110	80 - 124	20	*
Toluene	0.290	20.0	18.9	92.8	20.0	19.1	93.9	1.12	80 - 124	20	
1,2,3-Trichlorobenzene	ND	20.0	16.5	82.4	20.0	16.8	84	1.88	55 - 140	20	
1,2,4-Trichlorobenzene	ND	20.0	16.6	82.8	20.0	17.1	85.5	3.10	65 - 135	20	
1,1,1-Trichloroethane	ND	20.0	18.2	90.9	20.0	18.7	93.7	2.99	80 - 134	20	
1,1,2-Trichloroethane	ND	20.0	20.4	102	20.0	20.5	103	0.624	80 - 125	20	
Trichloroethene	3.07	20.0	21.8	93.6	20.0	22.2	95.6	1.79	80 - 122	20	
Trichlorofluoromethane	ND	20.0	17.6	88	20.0	17.9	89.6	1.82	62 - 151	20	
1,2,3-Trichloropropane	ND	20.0	20.5	103	20.0	20.7	103	0.542	75 - 125	20	
1,2,4-Trimethylbenzene	ND	20.0	18.2	90.9	20.0	18.5	92.7	2.01	80 - 125	20	
1,3,5-Trimethylbenzene	ND	20.0	17.5	87.6	20.0	17.9	89.3	1.92	80 - 127	20	
Vinyl acetate	ND	20.0	32.5	163	20.0	32.5	163	0.117	10 - 190	20	
Vinyl chloride	ND	20.0	18.3	91.7	20.0	19.0	94.8	3.38	50 - 170	20	
o-Xylene	ND	20.0	18.4	92.2	20.0	18.4	92	0.203	80 - 122	20	
m-,p-Xylene	ND	40.0	36.9	92.2	40.0	36.5	91.3	0.978	80 - 122	20	

* FAILS %REC LIMIT

FAILS RPD LIMIT



BFB

Login Number: L12070658 Tune ID: WG401620-01
 Instrument: HPMS10 Run Date: 06/26/2012
 Analyst: TMB Run Time: 09:43
 Workgroup: WG401620 File ID: 10M96559
 Cal ID: HPMS10-26-JUN-12

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50.0	95.0	15.0	40.0	20.6	5129	PASS
75.0	95.0	30.0	60.0	48.6	12121	PASS
95.0	95.0	100	100	100	24952	PASS
96.0	95.0	5.00	9.00	7.20	1797	PASS
173	174	0	2.00	1.09	245	PASS
174	95.0	50.0	100	90.1	22472	PASS
175	174	5.00	9.00	8.30	1866	PASS
176	174	95.0	101	101	22600	PASS
177	176	5.00	9.00	6.66	1506	PASS

This check relates to the following samples:

Lab ID	Client ID	Tag	Date Analyzed	Q
WG401620-03	STD	01	06/26/2012 10:38	
WG401620-03	STD	02	06/26/2012 11:09	
WG401620-04	STD	01	06/26/2012 11:39	
WG401620-05	STD	01	06/26/2012 12:09	
WG401620-06	STD	01	06/26/2012 12:39	
WG401620-07	STD	01	06/26/2012 13:10	
WG401620-08	STD-CCV	01	06/26/2012 13:40	
WG401620-09	STD	01	06/26/2012 14:10	
WG401620-10	STD	01	06/26/2012 14:41	
WG401620-11	STD	01	06/26/2012 15:11	
WG401620-12	SSCV	01	06/26/2012 16:55	

* Sample past 12 hour tune limit



BFB

Login Number: L12070658 Tune ID: WG404057-01
 Instrument: HPMS10 Run Date: 07/21/2012
 Analyst: MES Run Time: 15:10
 Workgroup: WG404057 File ID: 10M97155
 Cal ID: HPMS10-26-JUN-12

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50.0	95.0	15.0	40.0	23.7	4461	PASS
75.0	95.0	30.0	60.0	50.3	9457	PASS
95.0	95.0	100	100	100	18812	PASS
96.0	95.0	5.00	9.00	7.10	1336	PASS
173	174	0	2.00	0	0	PASS
174	95.0	50.0	100	85.4	16066	PASS
175	174	5.00	9.00	8.35	1342	PASS
176	174	95.0	101	97.2	15616	PASS
177	176	5.00	9.00	6.70	1046	PASS

This check relates to the following samples:

Lab ID	Client ID	Tag	Date Analyzed	Q
WG404057-02	CCV	01	07/21/2012 16:11	
WG404058-01	BLANK	01	07/21/2012 17:09	
WG404058-02	LCS	01	07/21/2012 17:38	
WG404058-03	LCS2	01	07/21/2012 18:08	
L12070658-13	TRIP BLANK 16JULY2012	01	07/21/2012 19:08	
L12070658-21	TRIP BLANK 17JULY2012	01	07/21/2012 19:38	
L12070658-10	35B WW06	01	07/21/2012 21:06	
L12070658-11	FIELD BLANK 16JULY2012	01	07/21/2012 21:35	
L12070658-12	MW3-3	01	07/21/2012 22:04	
L12070658-14	35B WW05	01	07/21/2012 22:34	
L12070658-15	MW1-1	01	07/21/2012 23:03	
L12070658-16	MW1-2	01	07/21/2012 23:32	
L12070658-17	MW1-3	01	07/22/2012 00:02	
L12070658-18	35B WW08	01	07/22/2012 00:31	
L12070658-19	35B WW09	01	07/22/2012 01:00	

* Sample past 12 hour tune limit



BFB

Login Number: L12070658 Tune ID: WG396851-01
 Instrument: HPMS11 Run Date: 05/03/2012
 Analyst: ADC Run Time: 16:30
 Workgroup: WG396851 File ID: 11M83329
 Cal ID: HPMS11-

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50.0	95.0	15.0	40.0	20.3	3670	PASS
75.0	95.0	30.0	60.0	51.8	9391	PASS
95.0	95.0	100	100	100	18119	PASS
96.0	95.0	5.00	9.00	7.25	1313	PASS
173	174	0	2.00	0	0	PASS
174	95.0	50.0	100	85.2	15443	PASS
175	174	5.00	9.00	8.49	1311	PASS
176	174	95.0	101	98.2	15168	PASS
177	176	5.00	9.00	6.63	1006	PASS

This check relates to the following samples:

Lab ID	Client ID	Tag	Date Analyzed	Q
WG396851-02	STD	01	05/03/2012 17:01	
WG396851-03	STD	01	05/03/2012 17:32	
WG396851-04	STD	01	05/03/2012 18:02	
WG396851-05	STD	01	05/03/2012 18:33	
WG396851-06	STD	01	05/03/2012 19:04	
WG396851-07	STD	01	05/03/2012 19:34	
WG396851-08	STD-CCV	01	05/03/2012 20:05	
WG396851-09	STD	01	05/03/2012 20:35	
WG396851-10	STD	01	05/03/2012 21:06	
WG396851-11	STD	01	05/03/2012 21:37	
WG396851-12	SSCV	01	05/03/2012 22:38	

* Sample past 12 hour tune limit



BFB

Login Number: L12070658 Tune ID: WG404019-01
 Instrument: HPMS11 Run Date: 07/20/2012
 Analyst: FJB Run Time: 15:30
 Workgroup: WG404019 File ID: 11M85441
 Cal ID: HPMS11-03-MAY-12

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50.0	95.0	15.0	40.0	16.8	1599	PASS
75.0	95.0	30.0	60.0	48.6	4618	PASS
95.0	95.0	100	100	100	9496	PASS
96.0	95.0	5.00	9.00	7.36	699	PASS
173	174	0	2.00	0	0	PASS
174	95.0	50.0	100	93.5	8883	PASS
175	174	5.00	9.00	7.41	658	PASS
176	174	95.0	101	95.2	8457	PASS
177	176	5.00	9.00	7.82	661	PASS

This check relates to the following samples:

Lab ID	Client ID	Tag	Date Analyzed	Q
WG404019-02	CCV	01	07/20/2012 16:28	
WG404020-02	LCS	01	07/20/2012 18:06	
WG404020-01	BLANK	01	07/20/2012 19:08	
L12070658-05	TRIP BLANK 15JULY2012	01	07/20/2012 22:12	
L12070658-06	FIELD BLANK 15JULY2012	01	07/20/2012 22:43	
L12070658-01	MW-3-1	01	07/20/2012 23:13	
L12070658-07	MW-3-1-D	01	07/21/2012 01:47	
L12070658-08	MW-58	01	07/21/2012 02:17	
L12070658-09	WW-03	01	07/21/2012 02:48	
WG404020-06	BLANK2	01	07/21/2012 04:20	*

* Sample past 12 hour tune limit



BFB

Login Number: L12070658 Tune ID: WG404129-01
 Instrument: HPMS11 Run Date: 07/23/2012
 Analyst: FJB Run Time: 12:24
 Workgroup: WG404129 File ID: 11M85499
 Cal ID: HPMS11-03-MAY-12

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50.0	95.0	15.0	40.0	20.3	3423	PASS
75.0	95.0	30.0	60.0	50.2	8456	PASS
95.0	95.0	100	100	100	16861	PASS
96.0	95.0	5.00	9.00	7.74	1305	PASS
173	174	0	2.00	0	0	PASS
174	95.0	50.0	100	81.9	13814	PASS
175	174	5.00	9.00	7.55	1043	PASS
176	174	95.0	101	97.9	13517	PASS
177	176	5.00	9.00	6.70	905	PASS

This check relates to the following samples:

Lab ID	Client ID	Tag	Date Analyzed	Q
WG404129-02	CCV	01	07/23/2012 12:50	
WG404130-01	BLANK	01	07/23/2012 13:54	
WG404130-02	LCS	01	07/23/2012 14:25	
WG404130-03	LCS2	01	07/23/2012 14:56	
L12070658-22	FIELD BLANK 17JULY2012	01	07/23/2012 16:41	
WG404130-04	BLANK2	01	07/24/2012 01:23	*

* Sample past 12 hour tune limit



BFB

Login Number: L12070658 _____ Tune ID: WG401797-01 _____
 Instrument: HPMS8 _____ Run Date: 06/28/2012 _____
 Analyst: ADC _____ Run Time: 18:16 _____
 Workgroup: WG401797 _____ File ID: 8M380356 _____
 Cal ID: HPMS8-28-JUN-12 _____

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50.0	95.0	15.0	40.0	20.7	6883	PASS
75.0	95.0	30.0	60.0	46.1	15343	PASS
95.0	95.0	100	100	100	33256	PASS
96.0	95.0	5.00	9.00	6.66	2216	PASS
173	174	0	2.00	0	0	PASS
174	95.0	50.0	100	91.7	30493	PASS
175	174	5.00	9.00	7.35	2241	PASS
176	174	95.0	101	98.2	29949	PASS
177	176	5.00	9.00	6.62	1983	PASS

This check relates to the following samples:

Lab ID	Client ID	Tag	Date Analyzed	Q
WG401797-02	STD	01	06/28/2012 18:40	
WG401797-03	STD	01	06/28/2012 19:11	
WG401797-04	STD	01	06/28/2012 19:41	
WG401797-05	STD	01	06/28/2012 20:12	
WG401797-06	STD	01	06/28/2012 20:42	
WG401797-07	STD	01	06/28/2012 21:12	
WG401797-08	STD-CCV	01	06/28/2012 21:42	
WG401797-09	STD	01	06/28/2012 22:12	
WG401797-10	STD	01	06/28/2012 22:43	
WG401797-11	STD	01	06/28/2012 23:13	
WG401797-12	SSCV	01	06/29/2012 00:14	

* Sample past 12 hour tune limit



BFB

Login Number: L12070658 Tune ID: WG404415-01
 Instrument: HPMS8 Run Date: 07/25/2012
 Analyst: ADC Run Time: 09:40
 Workgroup: WG404415 File ID: 8M381036
 Cal ID: HPMS8-28-JUN-12

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50.0	95.0	15.0	40.0	18.2	5287	PASS
75.0	95.0	30.0	60.0	42.3	12285	PASS
95.0	95.0	100	100	100	29010	PASS
96.0	95.0	5.00	9.00	6.89	1998	PASS
173	174	0	2.00	0	0	PASS
174	95.0	50.0	100	87.3	25327	PASS
175	174	5.00	9.00	7.26	1839	PASS
176	174	95.0	101	95.9	24298	PASS
177	176	5.00	9.00	6.19	1505	PASS

This check relates to the following samples:

Lab ID	Client ID	Tag	Date Analyzed	Q
WG404415-02	CCV	01	07/25/2012 10:04	
WG404417-01	BLANK	01	07/25/2012 11:04	
WG404417-02	LCS	01	07/25/2012 11:34	
L12070658-03	MW-3-2MS	01	07/25/2012 13:04	
L12070658-04	MW-3-2MSD	01	07/25/2012 13:34	
L12070658-02	MW-3-2	01	07/25/2012 17:35	

* Sample past 12 hour tune limit



BFB

Login Number: L12070658
Instrument: HPMS8
Analyst: ADC
Workgroup: WG404913

Tune ID: WG404913-01
Run Date: 07/30/2012
Run Time: 10:53
File ID: 8M381189

Cal ID: HPMS8-28-JUN-12

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50.0	95.0	15.0	40.0	17.8	6216	PASS
75.0	95.0	30.0	60.0	43.6	15212	PASS
95.0	95.0	100	100	100	34914	PASS
96.0	95.0	5.00	9.00	7.00	2443	PASS
173	174	0	2.00	0	0	PASS
174	95.0	50.0	100	92.4	32245	PASS
175	174	5.00	9.00	7.34	2366	PASS
176	174	95.0	101	97.8	31525	PASS
177	176	5.00	9.00	6.77	2134	PASS

This check relates to the following samples:

Lab ID	Client ID	Tag	Date Analyzed	Q
WG404913-02	CCV	01	07/30/2012 11:15	
WG404914-01	BLANK	01	07/30/2012 12:16	
WG404914-02	LCS	01	07/30/2012 12:46	
WG404914-03	LCS2	01	07/30/2012 13:16	
L12070658-31	TRIP BLANK 18JULY2012	02	07/30/2012 14:45	
L12070658-20	MW2-1	02	07/30/2012 15:15	
L12070658-23	MW2-2	02	07/30/2012 15:45	
L12070658-24	MW2-2D	02	07/30/2012 16:15	
L12070658-25	MW2-3	02	07/30/2012 16:45	
L12070658-26	35B WW01	02	07/30/2012 17:15	
L12070658-27	35B WW04	02	07/30/2012 17:45	
L12070658-28	35B SW-1	02	07/30/2012 18:15	
L12070658-29	35B SW-2	02	07/30/2012 18:45	
L12070658-30	35B WW-11	02	07/30/2012 19:15	
L12070658-32	FIELD BLANK 18JULY2012	02	07/30/2012 19:44	
L12070658-33	MW4-1	02	07/30/2012 20:14	
L12070658-34	MW4-2	02	07/30/2012 20:44	
L12070658-35	MW4-3	02	07/30/2012 21:14	
L12070658-36	35B WW14	02	07/30/2012 21:43	
L12070658-37	35B WW07	02	07/30/2012 22:14	

* Sample past 12 hour tune limit

TUNE - Modified 03/06/2008
PDF File ID: 2527899
Report generated 07/31/2012 15:41



Calibration Table Report

Method: A9FOOWT.M

Title: FOO/APPIX/BUTADIENE WT SOP: OVL MSV01 01/10/12

Last Calibration: Wed Jan 11 08:27:34 2012

Curve: WG386582

Calibration Files

Compound	10M924 10M924 10M924 10M924 10M924 10M924 10M924 10M924 10M924 10M92458.D									Avg	%RSD	Linear	Quad	
	5	20	50	100	200	300	400	500						
I Fluorobenzene	ISTD													
T Acetonitrile	0.019	0.021	0.022	0.024	0.025	0.025	0.026	0.026	0.023	10.986				
T 3-Chloro-1-propene	0.369	0.390	0.396	0.412	0.435	0.441	0.454	0.458	0.419	7.756				
T 2-Chloro-1,3-butadiene	0.412	0.410	0.427	0.454	0.477	0.488	0.509	0.511	0.461	8.996				
T Ethyl Acetate	0.134	0.151	0.164	0.170	0.179	0.184	0.191	0.192	0.171	12.015				
T Methacrylonitrile	0.063	0.077	0.085	0.089	0.094	0.100	0.105	0.108	0.090	16.558	0.996			
T Isobutyl Alcohol				0.016	0.017	0.019	0.021	0.022	0.019	12.625				
I Chlorobenzene-d5	ISTD													
T 1-Butanol		0.004	0.004	0.005	0.006	0.006	0.007	0.007	0.006	24.877	0.991			
T Methyl methacrylate	0.177	0.216	0.229	0.246	0.265	0.276	0.297	0.304	0.251	17.139	0.995			
T 2-Nitropropane		0.073	0.078	0.084	0.092	0.096	0.103	0.103	0.090	13.001				
I 1,4-Dichlorobenzene-d4	ISTD													
T Cyclohexanone	0.020	0.027	0.028	0.030	0.029	0.028	0.027	0.026	0.027	11.439				

Thu Jan 12 11:34:55 2012



T	Dimethyl Disulfide					0.165	0.197	0.212	0.232	0.253	0.254	0.2187	15.9247	0.998
I	Chlorobenzene-d5	ISTD												
S	Toluene-d8		1.061	1.111	1.12	1.07	1.12	1.092	1.086	0.881	1.0676		7.33318	
C	Toluene	1.41	1.318	1.338	1.39	1.332	1.413	1.388	1.327	1.307	1.3582		3.07109	
T	Ethyl Methacrylate		0.24	0.267	0.293	0.319	0.337	0.361			0.3028		14.8172	
T	Paraldehyde				0.005	0.005	0.005	0.005		0.004	0.0047		9.02777	
T	trans-1,3-Dichloropropene		0.39	0.428	0.453	0.46	0.486	0.476	0.476	0.482	0.4564		7.24174	
T	1,1,2-Trichloroethane	0.229	0.235	0.238	0.25	0.249	0.26	0.254	0.258	0.262	0.2482		4.74627	
T	2-Hexanone				0.141	0.15	0.161	0.164	0.167	0.166	0.1582		6.47442	
T	1,3-Dichloropropane	0.443	0.411	0.431	0.434	0.436	0.453	0.44	0.445	0.443	0.4375		2.70073	
T	Tetrachloroethene	0.271	0.271	0.275	0.291	0.276	0.289	0.29	0.285	0.303	0.2832		3.85987	
T	Dibromochloromethane	0.271	0.265	0.295	0.304	0.312	0.332	0.33	0.333	0.333	0.3084		8.66689	
T	1,2-Dibromoethane	0.175	0.216	0.232	0.245	0.248	0.261	0.256	0.259	0.259	0.239		11.7808	
T	1-Chlorohexane	0.375	0.391	0.385	0.423	0.425	0.422	0.465	0.445	0.464	0.4216		7.8006	
P	Chlorobenzene	0.891	0.876	0.884	0.908	0.882	0.948	0.966	0.96	0.912	0.914		3.84194	
T	1,1,1,2-Tetrachloroethane	0.306	0.299	0.328	0.345	0.346	0.373	0.387	0.384	0.366	0.3482		9.27943	
C	Ethylbenzene	0.49	0.465	0.465	0.493	0.483	0.51	0.555	0.542	0.528	0.5035		6.43399	
T	m-p-Xylene	0.552	0.554	0.56	0.583	0.58	0.619	0.636	0.607	0.552	0.5825		5.43627	
T	o-Xylene		0.527	0.538	0.571	0.568	0.606	0.627	0.626	0.62	0.5853		6.81754	
T	Styrene	0.788	0.805	0.843	0.926	0.973	1.065	1.089	1.059	1.001	0.9498		12.1709	
P	Bromoform		0.159	0.175	0.197	0.215	0.227	0.237	0.237	0.221	0.2084		13.911	
T	Isopropylbenzene	1.401	1.314	1.367	1.446	1.438	1.503	1.541	1.424	1.326	1.4177		5.3341	
I	1,4-Dichlorobenzene-d4	ISTD												
P	1,1,2,2-Tetrachloroethane	0.412	0.473	0.507	0.514	0.498	0.515	0.504	0.568	0.52	0.501		8.32968	
S	p-Bromofluorobenzene		0.682	0.793	0.79	0.748	0.776	0.768	0.827	0.605	0.7487		9.58403	
T	1,2,3-Trichloropropane		0.131	0.165	0.152	0.15	0.151	0.15	0.164	0.153	0.1521		6.83785	
T	trans-1,4-Dichloro-2-Butene		0.114	0.129	0.165	0.163	0.17	0.184	0.197	0.189	0.164		17.7335	0.998
T	n-Propylbenzene	3.018	2.968	3.034	3.176	3.031	3.09	3.142	2.98	2.692	3.0147		4.63083	
T	Bromobenzene	0.705	0.684	0.723	0.718	0.757	0.713	0.745	0.751	0.778	0.761	0.7335	4.01724	
T	1,3,5-Trimethylbenzene		2.09	1.995	2.087	2.193	2.112	2.199	2.242	2.216	2.076	2.1344	3.82713	
T	2-Chlorotoluene	2.151	1.955	2.221	2.091	1.962	2.048	2.032	2.115	1.826	2.0446		5.79357	
T	4-Chlorotoluene	1.812	1.776	1.692	1.89	1.82	1.847	1.903	1.783	1.84	1.8182		3.51851	
T	a-Methylstyrene				1.084	1.184	1.212	1.349	1.39	1.349	1.2614		9.50668	
T	tert-Butylbenzene		0.469	0.472	0.49	0.471	0.494	0.518	0.522	0.518	0.4944		4.61711	
T	1,2,4-Trimethylbenzene		2.116	2.203	2.292	2.243	2.33	2.361	2.298	2.122	2.2458		4.09437	
T	sec-Butylbenzene		2.464	2.494	2.677	2.554	2.629	2.697	2.556	2.395	2.5584		4.12615	
T	p-Isopropyltoluene		2.051	2.083	2.261	2.196	2.284	2.365	2.251	2.129	2.2024		4.89727	
T	1,3-Dichlorobenzene	1.313	1.302	1.355	1.38	1.338	1.392	1.407	1.417	1.384	1.3654		2.98727	
T	1,4-Dichlorobenzene	1.365	1.356	1.352	1.355	1.406	1.342	1.391	1.407	1.412	1.378	1.3763	1.87676	
T	n-Butylbenzene		1.757	1.878	2.026	1.963	2.016	2.111	1.98	1.919	1.9561		5.47225	
T	1,2-Dichlorobenzene	1.216	1.224	1.161	1.233	1.287	1.251	1.289	1.297	1.312	1.298	1.2568	3.82318	
T	1,2-Dibromo-3-Chloropropane			0.079	0.097	0.104	0.109	0.112	0.121	0.119	0.106		13.5564	
T	1,2,4-Trichlorobenzene	0.322	0.443	0.64	0.778	0.84	0.895	0.932	1.004	0.966	0.7577		31.7515	0.999
T	Hexachlorobutadiene	0.281	0.284	0.307	0.337	0.307	0.308	0.321	0.313	0.316	0.3083		5.60846	
T	Naphthalene		0.573	0.817	1.096	1.424	1.559	1.621	1.711	1.614	1.3019		32.5246	0.999
T	1,2,3-Trichlorobenzene		0.403	0.554	0.675	0.729	0.764	0.786	0.847	0.837	0.6993		21.8323	0.999

Tue Jun 26 16:11:45 2012

T	Dimethyl Disulfide		0.097	0.107	0.116	0.18	0.23	0.256	0.296	0.18306	43.5133	0.999	
I	Chlorobenzene-d5	ISTD											
S	Toluene-d8		1.539	1.306	1.259	1.191	1.261	1.301	1.374	1.31869	8.48083		
C	Toluene	1.494	1.412	1.423	1.376	1.454	1.518	1.597	1.756	1.5037	8.20773		
T	Ethyl Methacrylate		0.229	0.224	0.235	0.279	0.303	0.313	0.331	0.27352	16.0932	0.998	
T	Paraldehyde			0.001	0.002	0.003	0.004	0.004		0.004	0.00302	43.7361	0.990
T	trans-1,3-Dichloropropene	0.366	0.353	0.36	0.369	0.43	0.462	0.481		0.40316	13.3116		
T	1,1,2-Trichloroethane	0.217	0.262	0.241	0.238	0.251	0.253	0.257	0.268	0.24838	6.50556		
T	2-Hexanone		0.128	0.126	0.119	0.124	0.127	0.128	0.125	0.128	0.12559	2.53673	
T	1,3-Dichloropropane	0.385	0.408	0.422	0.403	0.418	0.423	0.431	0.447	0.41721	4.49361		
T	Tetrachloroethene	0.228	0.303	0.31	0.296	0.309	0.319	0.332	0.367	0.30808	12.7266		
T	Dibromochloromethane	0.231	0.241	0.263	0.277	0.328	0.357	0.378	0.404	0.30977	21.2848	1.000	
T	1,2-Dibromoethane	0.226	0.259	0.249	0.252	0.261	0.265	0.268	0.278	0.25721	6.0551		
T	1-Chlorohexane	0.344	0.418	0.387	0.403	0.441	0.457	0.476	0.523	0.4311	12.9061		
P	Chlorobenzene	0.907	0.96	0.932	0.946	0.999	1.073	1.19		1.00094	9.90877		
T	1,1,1,2-Tetrachloroethane	0.21	0.282	0.288	0.3	0.359	0.418	0.478	0.592	0.36596	34.0219	1.000	
C	Ethylbenzene	0.453	0.52	0.489	0.514	0.547	0.599	0.68		0.54317	13.8903		
T	m-,p-Xylene	0.627	0.618	0.602	0.608	0.668	0.74	0.832		0.67074	12.7659		
T	o-Xylene	0.592	0.59	0.577	0.586	0.632	0.672	0.724	0.854	0.65339	14.6374		
T	Styrene	0.94	0.95	0.936	0.953	1.055	1.156	1.289		1.03962	13.1528		
P	Bromoform	0.083	0.108	0.133	0.143	0.184	0.216	0.231		0.15684	35.2652	0.999	
T	Isopropylbenzene	1.332	1.485	1.423	1.433	1.573	1.698	1.824		1.53825	11.2018		
I	1,4-Dichlorobenzene-d4	ISTD											
P	1,1,2,2-Tetrachloroethane	0.409	0.406	0.416	0.452	0.467	0.47	0.469	0.471	0.44502	6.63947		
S	p-Bromofluorobenzene		0.959	0.82	0.789	0.765	0.791	0.811	0.85	0.82634	7.79135		
T	1,2,3-Trichloropropane		0.125	0.127	0.141	0.139	0.137	0.137	0.137	0.1347	4.53278		
T	trans-1,4-Dichloro-2-Butene			0.068	0.071	0.109	0.119	0.128	0.136	0.10505	27.7626	0.997	
T	n-Propylbenzene	3.012	3.211	3.053	3.098	3.22	3.304	3.441	3.684	3.25284	6.85924		
T	Bromobenzene	0.746	0.75	0.764	0.749	0.756	0.768	0.769	0.81	0.7771	5.62286		
T	1,3,5-Trimethylbenzene	2.167	2.356	2.258	2.245	2.361	2.44	2.6	2.897	2.41569	9.75123		
T	2-Chlorotoluene	2.105	2.156	2.069	2.046	2.128	2.191	2.3	2.506	2.18762	6.90226		
T	4-Chlorotoluene	1.745	1.924	1.732	1.744	1.843	1.928	2.043	2.357	1.91446	10.9638		
T	a-Methylstyrene		1.239	1.237	1.222	1.352	1.454	1.569		1.34534	10.5263		
T	tert-Butylbenzene	0.468	0.482	0.506	0.482	0.509	0.535	0.574	0.651	0.52573	11.5484		
T	1,2,4-Trimethylbenzene	2.174	2.259	2.243	2.29	2.449	2.647	2.869	3.177	2.5133	14.2017		
T	sec-Butylbenzene	2.399	2.782	2.567	2.646	2.79	2.932	3.071	3.379	2.8206	10.901		
T	p-Isopropyltoluene	2.003	2.269	2.088	2.249	2.415	2.551	2.727	3.059	2.4202	14.4534		
T	1,3-Dichlorobenzene	1.508	1.428	1.357	1.434	1.472	1.543	1.622	1.83	1.52412	9.65745		
T	1,4-Dichlorobenzene	1.567	1.467	1.467	1.436	1.471	1.489	1.562	1.644	1.55137	8.58086		
T	n-Butylbenzene	1.447	1.751	1.67	1.781	1.966	2.084	2.205		1.84356	14.0544		
T	1,2-Dichlorobenzene	1.291	1.327	1.316	1.278	1.315	1.375	1.413	1.481	1.38135	8.36434		
T	1,2-Dibromo-3-Chloropropane			0.1	0.029	0.052	0.067	0.074	0.082	0.06954	33.2561	0.994	
T	1,2,4-Trichlorobenzene	0.691	0.713	0.683	0.725	0.822	0.87	0.965		0.7812	13.6889		
T	Hexachlorobutadiene	0.141	0.275	0.285	0.258	0.292	0.29	0.302	0.322	0.27074	20.5111	0.998	
T	Naphthalene	1.072	1.322	1.298	1.38	1.591	1.714	1.887	1.927	1.52374	20.0108	0.999	
T	1,2,3-Trichlorobenzene	0.632	0.642	0.651	0.675	0.722	0.76	0.853	0.904	0.73004	13.9762		

Fri Jul 13 11:32:22 2012

p-Bromofluorobenzene	0.839	0.771	0.817	0.756	0.68	0.743	0.766	0.831	0.938	0.793388	9.23033	
1,2,3-Trichloropropane		0.05	0.07	0.088	0.081	0.092	0.086	0.087	0.09	0.080617	17.5342	
trans-1,4-Dichloro-2-Butene						0.073	0.096	0.077	0.082	0.089	0.083367	11.1372
n-Propylbenzene	4.56	4.109	4.447	4.306	4.448	4.483	4.657	5.13	5.46	4.6224	9.07664	
Bromobenzene	0.701	0.806	0.748	0.789	0.726	0.758	0.755	0.806	0.883	0.774562	6.93436	
1,3,5-Trimethylbenzene	2.87	2.86	2.754	2.827	2.91	3.002	3.187	3.539	4.019	3.10752	13.4318	
2-Chlorotoluene	2.59	2.557	2.657	2.618	2.662	2.748	2.813	3.042	3.37	2.78409	9.49665	
4-Chlorotoluene	2.045	2.205	2.179	2.229	2.149	2.254	2.408	2.658	2.924	2.33916	12.0317	
a-Methylstyrene		1.65	1.19	1.198	1.394	1.489	1.588	1.733	2.025	1.53323	18.2843	
tert-Butylbenzene	0.629	0.603	0.652	0.662	0.676	0.684	0.728	0.809	0.949	0.7101	15.174	
1,2,4-Trimethylbenzene	2.763	2.847	2.769	2.865	2.908	3.084	3.353	3.727	4.073	3.15434	14.853	
sec-Butylbenzene	3.614	3.553	3.682	3.635	3.756	3.85	4.158	4.628	5.044	3.99099	13.0605	
p-Isopropyltoluene	3.171	2.84	3.038	3.067	3.144	3.352	3.679	4.092	4.531	3.43477	16.2814	
1,3-Dichlorobenzene	1.531	1.558	1.585	1.588	1.542	1.61	1.672	1.765	1.907	1.63985	7.56252	
1,4-Dichlorobenzene	1.445	1.467	1.48	1.495	1.44	1.54	1.586	1.642	1.766	1.54028	7.0191	
n-Butylbenzene	2.762	2.648	2.606	2.658	2.852	2.959	3.262	3.517	3.89	3.01702	14.834	
1,2-Dichlorobenzene	1.274	1.236	1.226	1.191	1.168	1.256	1.262	1.306	1.377	1.255	4.95448	
1,2-Dibromo-3-Chloropropane				0.026	0.045	0.039	0.039	0.043	0.044	0.039358	18.0392	
1,2,4-Trichlorobenzene	0.597	0.63	0.678	0.755	0.707	0.821	0.804	0.872	0.945	0.756552	15.1533	
Hexachlorobutadiene	0.415	0.412	0.409	0.401	0.409	0.411	0.421	0.447	0.519	0.427059	8.65769	
Naphthalene		0.645	0.671	0.718	0.738	0.857	0.878	0.978	1.062	0.818315	18.3823	
1,2,3-Trichlorobenzene	0.516	0.499	0.505	0.582	0.554	0.602	0.589	0.654	0.68	0.575625	11.1283	

Tue Jul 10 09:10:57 2012

Calibration Table Report
 Method: A9FOOWT.M
 Title: A9-FOO Water - IC: 01/25/12- HPMS8
 Last Calibration: Wed Feb 01 15:35:09 2012
 Curve: WG387881
 Calibration Files

Compound	5	20	50	100	200	300	400	500	Linear	
	8M376558.D	8M376559.D	8M376560.D	8M376561.D	8M376562.D	8M376563.D	8M376564.D	8M367713.D	Avg	%RSD
Fluorobenzene	ISTD									
Acetonitrile	0.018	0.017	0.018	0.019	0.020	0.019	0.019		0.019	5.995
3-Chloro-1-propene	0.376	0.390	0.392	0.395	0.408	0.388	0.382		0.390	2.658
2-Chloro-1,3-butadiene	0.465	0.465	0.468	0.464	0.475	0.452	0.445		0.462	2.198
Ethyl Acetate	0.125	0.125	0.128	0.137	0.138	0.133	0.126		0.130	4.168
Methacrylonitrile	0.053	0.050	0.054	0.055	0.056	0.054	0.053		0.054	4.009
Isobutyl Alcohol		0.005	0.006	0.006	0.006	0.006	0.006		0.006	7.894
1-Butanol		0.001	0.002	0.003	0.003	0.003	0.003		0.003	23.485
Methyl methacrylate	0.141	0.155	0.162	0.167	0.172	0.164	0.159		0.160	6.259
2-Nitropropane	0.043	0.051	0.055	0.059	0.063	0.060	0.058		0.056	11.690
Chlorobenzene-d5	ISTD									
1,4-Dichlorobenzene-d4	ISTD									
Cyclohexanone		0.025	0.024	0.024	0.025	0.026	0.024		0.025	3.783

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1,2,3-Trichloropropane		0.104	0.115	0.118	0.118	0.124	0.126	0.119	0.11778	5.97828	
trans-1,4-Dichloro-2-Butene		0.042	0.071	0.083	0.102	0.124	0.129	0.123	0.09623	33.6869	0.998
n-Propylbenzene	3.508	3.763	3.593	3.425	3.344	3.304	3.21	2.84	3.3733	8.2144	
Bromobenzene	0.857	0.813	0.825	0.791	0.784	0.775	0.78	0.787	0.79453	4.26663	
1,3,5-Trimethylbenzene		2.69	2.764	2.659	2.584	2.554	2.552	2.529	2.57782	5.48446	
2-Chlorotoluene		2.205	2.387	2.25	2.139	2.156	2.12	2.062	2.16292	5.64303	
4-Chlorotoluene		2.424	2.42	2.299	2.284	2.187	2.169	2.2	2.21726	9.52101	
a-Methylstyrene			1.495	1.346	1.468	1.49	1.511	1.498	1.4629	3.93469	
tert-Butylbenzene		0.577	0.624	0.575	0.552	0.562	0.573	0.593	0.57817	3.78181	
1,2,4-Trimethylbenzene		2.84	2.807	2.689	2.662	2.622	2.606	2.6	2.64331	5.98174	
sec-Butylbenzene		3.171	3.203	3.102	3.004	2.962	2.946	2.958	2.99982	5.75658	
p-Isopropyltoluene		2.858	2.736	2.685	2.587	2.588	2.588	2.622	2.62738	5.51134	
1,3-Dichlorobenzene		1.622	1.687	1.634	1.587	1.561	1.569	1.594	1.59063	3.976	
1,4-Dichlorobenzene	2.055	1.692	1.784	1.613	1.579	1.569	1.562	1.593	1.65642	10.5287	
n-Butylbenzene		2.362	2.44	2.261	2.244	2.187	2.189	2.212	2.23987	5.55126	
1,2-Dichlorobenzene	1.589	1.444	1.516	1.477	1.382	1.377	1.382	1.413	1.43104	6.03584	
1,2-Dibromo-3-Chloropropane				0.054	0.061	0.068	0.074	0.075	0.06749	12.3969	
1,2,4-Trichlorobenzene		1.045	1.051	1.025	0.958	0.948	0.959	0.992	0.98838	4.7458	
Hexachlorobutadiene		0.435	0.465	0.421	0.415	0.404	0.412	0.44	0.42858	4.58355	
Naphthalene		1.561	1.611	1.591	1.522	1.52	1.52	1.519	1.52966	4.32463	
1,2,3-Trichlorobenzene	1.055	0.828	0.948	0.854	0.806	0.792	0.808	0.823	0.85368	10.6612	

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Login Number: L12070658 Run Date: 06/26/2012 Sample ID: WG401620-12
 Instrument ID: HPMS10 Run Time: 16:55 Method: 8260B
 File ID: 10M96573 Analyst: TMB QC Key: STD
 ICal Workgroup: WG401620 Cal ID: HPMS10 - 26-JUN-12

Analyte		Expected	Found	Units	RF	%D	UCL	Q
Chloroform	CCC	20.0	20.1	ug/L	0.438	0.300	30	
1,1-Dichloroethene	CCC	20.0	19.3	ug/L	0.202	3.30	30	
1,2-Dichloropropane	CCC	20.0	19.6	ug/L	0.249	2.20	30	
Ethylbenzene	CCC	20.0	19.1	ug/L	0.482	4.40	30	
Toluene	CCC	20.0	21.4	ug/L	1.45	6.80	30	
Vinyl Chloride	CCC	20.0	17.8	ug/L	0.253	10.8	30	
Bromoform	SPCC	20.0	19.2	ug/L	0.200	4.00	30	
Chlorobenzene	SPCC	20.0	19.6	ug/L	0.896	2.00	30	
Chloromethane	SPCC	20.0	18.2	ug/L	0.340	9.10	30	
1,1-Dichloroethane	SPCC	20.0	19.6	ug/L	0.449	2.20	30	
1,1,2,2-Tetrachloroethane	SPCC	20.0	17.3	ug/L	0.433	13.6	30	
Acetone		20.0	19.1	ug/L	0.0562	4.30	30	
Benzene		20.0	19.8	ug/L	0.945	1.20	30	
Bromobenzene		20.0	18.7	ug/L	0.686	6.50	30	
Bromochloromethane		20.0	20.7	ug/L	0.121	3.40	30	
Bromodichloromethane		20.0	19.8	ug/L	0.329	0.800	30	
Bromomethane		20.0	24.7	ug/L	0.177	23.3	30	
2-Butanone		20.0	18.0	ug/L	0.0738	10.1	30	
n-Butylbenzene		20.0	20.9	ug/L	2.05	4.70	30	
sec-Butylbenzene		20.0	19.2	ug/L	2.46	3.90	30	
tert-Butylbenzene		20.0	18.6	ug/L	0.460	6.90	30	
Carbon Disulfide		20.0	22.5	ug/L	0.701	12.3	30	
Carbon Tetrachloride		20.0	19.0	ug/L	0.320	5.00	30	
Dibromochloromethane		20.0	19.5	ug/L	0.301	2.50	30	
Chloroethane		20.0	19.9	ug/L	0.172	0.600	30	
2-Chloroethyl Vinyl Ether		20.0	18.1	ug/L	0.117	9.30	30	
2-Chlorotoluene		20.0	18.9	ug/L	1.93	5.40	30	
4-Chlorotoluene		20.0	17.3	ug/L	1.57	13.4	30	
1,2-Dibromo-3-Chloropropane		20.0	18.0	ug/L	0.0953	10.1	30	
1,2-Dibromoethane		20.0	20.4	ug/L	0.244	1.90	30	
Dibromomethane		20.0	19.6	ug/L	0.131	2.20	30	
1,2-Dichlorobenzene		20.0	20.4	ug/L	1.28	1.90	30	
1,3-Dichlorobenzene		20.0	20.4	ug/L	1.39	1.90	30	
1,4-Dichlorobenzene		20.0	20.3	ug/L	1.40	1.60	30	
Dichlorodifluoromethane		20.0	26.7	ug/L	0.286	33.4	30	*
1,2-Dichloroethane		20.0	19.3	ug/L	0.309	3.30	30	
cis-1,2-Dichloroethene		20.0	20.5	ug/L	0.269	2.30	30	
trans-1,2-Dichloroethene		20.0	19.6	ug/L	0.234	2.00	30	
1,3-Dichloropropane		20.0	20.5	ug/L	0.448	2.40	30	
2,2-Dichloropropane		20.0	19.7	ug/L	0.353	1.60	30	
cis-1,3-Dichloropropene		20.0	20.7	ug/L	0.375	3.30	30	
trans-1,3-Dichloropropene		20.0	19.6	ug/L	0.447	2.00	30	

ALT - Modified 09/06/2007
 Version 1.5 PDF File ID: 2511921
 Report generated 07/31/2012 15:41



Login Number: L12070658 Run Date: 06/26/2012 Sample ID: WG401620-12
 Instrument ID: HPMS10 Run Time: 16:55 Method: 8260B
 File ID: 10M96573 Analyst: TMB QC Key: STD
 ICal Workgroup: WG401620 Cal ID: HPMS10 - 26-JUN-12

Analyte	Expected	Found	Units	RF	%D	UCL	Q
1,1-Dichloropropene	20.0	19.0	ug/L	0.312	5.00	30	
2-Hexanone	20.0	19.3	ug/L	0.153	3.50	30	
Hexachlorobutadiene	20.0	21.6	ug/L	0.333	8.00	30	
Isopropylbenzene	20.0	17.8	ug/L	1.26	11.0	30	
p-Isopropyltoluene	20.0	20.2	ug/L	2.22	0.800	30	
4-Methyl-2-Pentanone	20.0	18.4	ug/L	0.0586	8.10	30	
Methylene Chloride	20.0	19.9	ug/L	0.248	0.700	30	
Naphthalene	20.0	16.9	ug/L	1.31	15.5	30	
n-Propylbenzene	20.0	18.3	ug/L	2.77	8.30	30	
Styrene	20.0	20.3	ug/L	0.965	1.60	30	
1,1,1,2-Tetrachloroethane	20.0	20.0	ug/L	0.347	0.200	30	
Tetrachloroethene	20.0	19.8	ug/L	0.281	0.900	30	
1,2,3-Trichlorobenzene	20.0	16.9	ug/L	0.671	15.5	30	
1,2,4-Trichlorobenzene	20.0	19.2	ug/L	0.865	4.00	30	
1,1,1-Trichloroethane	20.0	19.1	ug/L	0.366	4.40	30	
1,1,2-Trichloroethane	20.0	21.7	ug/L	0.269	8.30	30	
Trichloroethene	20.0	19.7	ug/L	0.251	1.70	30	
Trichlorofluoromethane	20.0	18.8	ug/L	0.362	6.10	30	
1,2,3-Trichloropropane	20.0	17.2	ug/L	0.131	13.8	30	
1,2,4-Trimethylbenzene	20.0	20.4	ug/L	2.30	2.20	30	
1,3,5-Trimethylbenzene	20.0	18.7	ug/L	1.99	6.70	30	
Vinyl Acetate	20.0	23.0	ug/L	0.315	15.2	40	
o-Xylene	20.0	19.4	ug/L	0.566	3.20	30	
m-,p-Xylene	40.0	39.9	ug/L	0.581	0.300	30	

* Exceeds %D Limit

CCC Calibration Check Compounds
 SPCC System Performance Check Compounds



Login Number: L12070658 Run Date: 05/03/2012 Sample ID: WG396851-12
 Instrument ID: HPMS11 Run Time: 22:38 Method: 8260B
 File ID: 11M83341 Analyst: ADC QC Key: STD
 ICal Workgroup: WG396851 Cal ID: HPMS11 - 03-MAY-12

Analyte		Expected	Found	Units	RF	%D	UCL	Q
Chloroform	CCC	50.0	53.7	ug/L	0.516	7.50	30	
1,1-Dichloroethene	CCC	50.0	54.9	ug/L	0.417	9.80	30	
1,2-Dichloropropane	CCC	50.0	53.9	ug/L	0.259	7.70	30	
Ethylbenzene	CCC	50.0	58.1	ug/L	0.631	16.1	30	
Toluene	CCC	50.0	52.8	ug/L	1.59	5.60	30	
Vinyl Chloride	CCC	50.0	46.8	ug/L	0.517	6.40	30	
Bromoform	SPCC	50.0	56.4	ug/L	0.237	12.9	30	
Chlorobenzene	SPCC	50.0	55.9	ug/L	1.12	11.7	30	
Chloromethane	SPCC	50.0	63.6	ug/L	0.705	27.2	30	
1,1-Dichloroethane	SPCC	50.0	54.1	ug/L	0.491	8.20	30	
1,1,2,2-Tetrachloroethane	SPCC	50.0	53.9	ug/L	0.480	7.80	30	
Acetone		50.0	53.7	ug/L	0.0496	7.40	30	
Benzene		50.0	53.0	ug/L	1.11	6.00	30	
Bromobenzene		50.0	52.3	ug/L	0.813	4.70	30	
Bromochloromethane		50.0	55.4	ug/L	0.207	10.9	30	
Bromodichloromethane		50.0	59.6	ug/L	0.393	19.1	30	
Bromomethane		50.0	56.3	ug/L	0.200	12.5	30	
2-Butanone		50.0	52.0	ug/L	0.0670	4.10	30	
n-Butylbenzene		50.0	60.5	ug/L	2.23	21.1	30	
sec-Butylbenzene		50.0	52.5	ug/L	2.96	4.90	30	
tert-Butylbenzene		50.0	51.4	ug/L	0.541	2.90	30	
Carbon Disulfide		50.0	53.7	ug/L	0.831	7.40	30	
Carbon Tetrachloride		50.0	51.6	ug/L	0.495	3.30	30	
Dibromochloromethane		50.0	54.0	ug/L	0.383	8.10	30	
Chloroethane		50.0	53.7	ug/L	0.205	7.40	30	
2-Chloroethyl Vinyl Ether		50.0	56.8	ug/L	0.117	13.7	30	
2-Chlorotoluene		50.0	51.7	ug/L	2.26	3.50	30	
4-Chlorotoluene		50.0	50.9	ug/L	1.95	1.90	30	
1,2-Dibromo-3-Chloropropane		50.0	53.4	ug/L	0.0854	6.80	30	
1,2-Dibromoethane		50.0	54.2	ug/L	0.279	8.40	30	
Dibromomethane		50.0	51.1	ug/L	0.165	2.30	30	
1,2-Dichlorobenzene		50.0	53.0	ug/L	1.46	6.00	30	
1,3-Dichlorobenzene		50.0	51.9	ug/L	1.58	3.80	30	
1,4-Dichlorobenzene		50.0	52.0	ug/L	1.61	4.00	30	
Dichlorodifluoromethane		50.0	71.0	ug/L	0.458	41.9	30	*
1,2-Dichloroethane		50.0	54.1	ug/L	0.365	8.20	30	
cis-1,2-Dichloroethene		50.0	53.9	ug/L	0.317	7.80	30	
trans-1,2-Dichloroethene		50.0	53.4	ug/L	0.290	6.80	30	
1,3-Dichloropropane		50.0	54.3	ug/L	0.453	8.60	30	
2,2-Dichloropropane		50.0	51.7	ug/L	0.379	3.30	30	
cis-1,3-Dichloropropene		50.0	55.7	ug/L	0.423	11.4	30	
trans-1,3-Dichloropropene		50.0	54.0	ug/L	0.435	8.00	30	

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 Version 1.5 PDF File ID: 2511921
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Login Number: L12070658 Run Date: 05/03/2012 Sample ID: WG396851-12
 Instrument ID: HPMS11 Run Time: 22:38 Method: 8260B
 File ID: 11M83341 Analyst: ADC QC Key: STD
 ICal Workgroup: WG396851 Cal ID: HPMS11 - 03-MAY-12

Analyte	Expected	Found	Units	RF	%D	UCL	Q
1,1-Dichloropropene	50.0	54.0	ug/L	0.387	8.10	30	
2-Hexanone	50.0	50.8	ug/L	0.128	1.60	30	
Hexachlorobutadiene	50.0	48.3	ug/L	0.300	3.30	30	
Isopropylbenzene	50.0	49.7	ug/L	1.53	0.600	30	
p-Isopropyltoluene	50.0	55.2	ug/L	2.67	10.3	30	
4-Methyl-2-Pentanone	50.0	52.4	ug/L	0.0590	4.80	30	
Methylene Chloride	50.0	52.8	ug/L	0.285	5.60	30	
Naphthalene	50.0	53.4	ug/L	1.86	6.90	30	
n-Propylbenzene	50.0	52.4	ug/L	3.41	4.80	30	
Styrene	50.0	59.1	ug/L	1.23	18.1	30	
1,1,1,2-Tetrachloroethane	50.0	54.1	ug/L	0.451	8.20	30	
Tetrachloroethene	50.0	54.8	ug/L	0.338	9.60	30	
1,2,3-Trichlorobenzene	50.0	57.1	ug/L	0.833	14.2	30	
1,2,4-Trichlorobenzene	50.0	60.0	ug/L	0.937	20.0	30	
1,1,1-Trichloroethane	50.0	54.4	ug/L	0.490	8.90	30	
1,1,2-Trichloroethane	50.0	53.9	ug/L	0.268	7.70	30	
Trichloroethene	50.0	51.1	ug/L	0.351	2.30	30	
Trichlorofluoromethane	50.0	52.9	ug/L	0.571	5.80	30	
1,2,3-Trichloropropane	50.0	59.3	ug/L	0.160	18.6	30	
1,2,4-Trimethylbenzene	50.0	57.0	ug/L	2.87	14.0	30	
1,3,5-Trimethylbenzene	50.0	53.2	ug/L	2.57	6.40	30	
Vinyl Acetate	50.0	80.3	ug/L	0.261	60.6	40	*
o-Xylene	50.0	52.7	ug/L	0.689	5.50	30	
m-,p-Xylene	100	115	ug/L	0.769	14.6	30	

* Exceeds %D Limit

CCC Calibration Check Compounds
 SPCC System Performance Check Compounds



Login Number: L12070658 Run Date: 06/29/2012 Sample ID: WG401797-12
 Instrument ID: HPMS8 Run Time: 00:14 Method: 8260B
 File ID: 8M380368 Analyst: ADC QC Key: STD
 ICal Workgroup: WG401797 Cal ID: HPMS8 - 28-JUN-12

Analyte		Expected	Found	Units	RF	%D	UCL	Q
Chloroform	CCC	50.0	52.1	ug/L	0.500	4.30	30	
1,1-Dichloroethene	CCC	50.0	50.7	ug/L	0.455	1.40	30	
1,2-Dichloropropane	CCC	50.0	51.5	ug/L	0.303	3.10	30	
Ethylbenzene	CCC	50.0	51.4	ug/L	0.596	2.80	30	
Toluene	CCC	50.0	51.0	ug/L	1.48	2.00	30	
Vinyl Chloride	CCC	50.0	62.5	ug/L	0.319	24.9	30	
Bromoform	SPCC	50.0	55.5	ug/L	0.211	11.1	30	
Chlorobenzene	SPCC	50.0	50.8	ug/L	1.02	1.60	30	
Chloromethane	SPCC	50.0	47.0	ug/L	0.447	6.00	30	
1,1-Dichloroethane	SPCC	50.0	52.5	ug/L	0.558	5.00	30	
1,1,2,2-Tetrachloroethane	SPCC	50.0	51.9	ug/L	0.389	3.80	30	
Acetone		50.0	56.7	ug/L	0.0486	13.3	30	
Benzene		50.0	50.8	ug/L	1.10	1.70	30	
Bromobenzene		50.0	50.8	ug/L	0.807	1.60	30	
Bromochloromethane		50.0	53.3	ug/L	0.182	6.60	30	
Bromodichloromethane		50.0	53.2	ug/L	0.364	6.50	30	
Bromomethane		50.0	48.5	ug/L	0.214	3.10	30	
2-Butanone		50.0	55.1	ug/L	0.0707	10.3	30	
n-Butylbenzene		50.0	50.6	ug/L	2.27	1.30	30	
sec-Butylbenzene		50.0	50.1	ug/L	3.01	0.200	30	
tert-Butylbenzene		50.0	50.7	ug/L	0.586	1.30	30	
Carbon Disulfide		50.0	55.9	ug/L	0.854	11.9	30	
Carbon Tetrachloride		50.0	52.8	ug/L	0.464	5.60	30	
Dibromochloromethane		50.0	55.6	ug/L	0.340	11.3	30	
Chloroethane		50.0	51.0	ug/L	0.230	1.90	30	
2-Chloroethyl Vinyl Ether		50.0	212	ug/L	0.126	325	30	*
2-Chlorotoluene		50.0	51.1	ug/L	2.21	2.30	30	
4-Chlorotoluene		50.0	48.3	ug/L	2.14	3.40	30	
1,2-Dibromo-3-Chloropropane		50.0	56.0	ug/L	0.0755	11.9	30	
1,2-Dibromoethane		50.0	55.4	ug/L	0.242	10.7	30	
Dibromomethane		50.0	53.6	ug/L	0.139	7.10	30	
1,2-Dichlorobenzene		50.0	49.4	ug/L	1.41	1.10	30	
1,3-Dichlorobenzene		50.0	50.4	ug/L	1.60	0.800	30	
1,4-Dichlorobenzene		50.0	48.0	ug/L	1.59	3.90	30	
Dichlorodifluoromethane		50.0	56.9	ug/L	0.404	13.9	30	
1,2-Dichloroethane		50.0	51.5	ug/L	0.346	3.10	30	
cis-1,2-Dichloroethene		50.0	53.3	ug/L	0.308	6.60	30	
trans-1,2-Dichloroethene		50.0	52.3	ug/L	0.441	4.60	30	
1,3-Dichloropropane		50.0	55.7	ug/L	0.406	11.4	30	
2,2-Dichloropropane		50.0	49.0	ug/L	0.430	1.90	30	
cis-1,3-Dichloropropene		50.0	55.7	ug/L	0.416	11.4	30	
trans-1,3-Dichloropropene		50.0	53.0	ug/L	0.406	5.90	30	

ALT - Modified 09/06/2007
 Version 1.5 PDF File ID: 2511921
 Report generated 07/31/2012 15:41



Login Number: L12070658 Run Date: 06/29/2012 Sample ID: WG401797-12
 Instrument ID: HPMS8 Run Time: 00:14 Method: 8260B
 File ID: 8M380368 Analyst: ADC QC Key: STD
 ICal Workgroup: WG401797 Cal ID: HPMS8 - 28-JUN-12

Analyte	Expected	Found	Units	RF	%D	UCL	Q
1,1-Dichloropropene	50.0	52.0	ug/L	0.398	4.00	30	
2-Hexanone	50.0	55.7	ug/L	0.0654	11.4	30	
Hexachlorobutadiene	50.0	48.2	ug/L	0.413	3.70	30	
Isopropylbenzene	50.0	45.6	ug/L	1.58	8.80	30	
p-Isopropyltoluene	50.0	50.9	ug/L	2.67	1.80	30	
4-Methyl-2-Pentanone	50.0	52.5	ug/L	0.0579	4.90	30	
Methylene Chloride	50.0	48.7	ug/L	0.271	2.60	30	
Naphthalene	50.0	52.1	ug/L	1.59	4.20	30	
n-Propylbenzene	50.0	50.6	ug/L	3.42	1.30	30	
Styrene	50.0	52.7	ug/L	1.19	5.40	30	
1,1,1,2-Tetrachloroethane	50.0	54.5	ug/L	0.414	9.00	30	
Tetrachloroethene	50.0	52.0	ug/L	0.368	3.90	30	
1,2,3-Trichlorobenzene	50.0	49.0	ug/L	0.836	2.00	30	
1,2,4-Trichlorobenzene	50.0	50.4	ug/L	0.995	0.700	30	
1,1,1-Trichloroethane	50.0	51.4	ug/L	0.474	2.90	30	
1,1,2-Trichloroethane	50.0	55.2	ug/L	0.228	10.4	30	
Trichloroethene	50.0	51.5	ug/L	0.346	2.90	30	
Trichlorofluoromethane	50.0	48.4	ug/L	0.509	3.20	30	
1,2,3-Trichloropropane	50.0	56.0	ug/L	0.132	11.9	30	
1,2,4-Trimethylbenzene	50.0	52.7	ug/L	2.79	5.40	30	
1,3,5-Trimethylbenzene	50.0	50.6	ug/L	2.61	1.20	30	
Vinyl Acetate	50.0	62.5	ug/L	0.253	25.0	40	
o-Xylene	50.0	51.7	ug/L	0.718	3.50	30	
m-,p-Xylene	100	103	ug/L	0.727	3.20	30	

* Exceeds %D Limit

CCC Calibration Check Compounds
 SPCC System Performance Check Compounds



Login Number: L12070658 Run Date: 07/20/2012 Sample ID: WG404019-02
Instrument ID: HPMS11 Run Time: 16:28 Method: 8260B
File ID: 11M85443 Analyst: FJB QC Key: STD
Workgroup (AAB#): WG404020 Cal ID: HPMS11 - 03-MAY-12
Matrix: WATER

Analyte		Expected	Found	UNITS	RF	%D	UCL	Q
Chloroform	CCC	50.0	50.4	ug/L	0.484	0.809	20	
1,1-Dichloroethene	CCC	50.0	52.2	ug/L	0.396	4.41	20	
1,2-Dichloropropane	CCC	50.0	53.8	ug/L	0.259	7.51	20	
Ethylbenzene	CCC	50.0	56.3	ug/L	0.611	12.5	20	
Toluene	CCC	50.0	53.8	ug/L	1.62	7.66	20	
Vinyl Chloride	CCC	50.0	41.0	ug/L	0.464	18.1	20	
Bromoform	SPCC	50.0	52.4	ug/L	0.218	4.77	40	
Chlorobenzene	SPCC	50.0	57.4	ug/L	1.15	14.7	40	
Chloromethane	SPCC	50.0	42.0	ug/L	0.465	16.1	40	
1,1-Dichloroethane	SPCC	50.0	52.4	ug/L	0.476	4.83	40	
1,1,2,2-Tetrachloroethane	SPCC	50.0	45.1	ug/L	0.401	9.87	40	
Acetone		50.0	41.9	ug/L	0.0389	16.2	40	
Benzene		50.0	52.1	ug/L	1.09	4.18	40	
Bromobenzene		50.0	54.5	ug/L	0.847	8.99	40	
Bromochloromethane		50.0	49.9	ug/L	0.186	0.263	40	
Bromodichloromethane		50.0	53.2	ug/L	0.351	6.43	40	
Bromomethane		50.0	57.7	ug/L	0.205	15.5	40	
2-Butanone		50.0	40.6	ug/L	0.0522	18.8	40	
n-Butylbenzene		50.0	60.2	ug/L	2.22	20.4	40	
sec-Butylbenzene		50.0	52.5	ug/L	2.96	4.99	40	
tert-Butylbenzene		50.0	53.3	ug/L	0.561	6.63	40	
Carbon Disulfide		100	97.4	ug/L	1.51	2.63	40	
Carbon Tetrachloride		50.0	47.5	ug/L	0.455	5.06	40	
Dibromochloromethane		50.0	50.9	ug/L	0.360	1.70	40	
Chloroethane		50.0	46.7	ug/L	0.178	6.68	40	
2-Chloroethyl Vinyl Ether		50.0	44.4	ug/L	0.0913	11.2	40	
2-Chlorotoluene		50.0	49.9	ug/L	2.18	0.188	40	
4-Chlorotoluene		50.0	58.4	ug/L	2.24	16.8	40	
1,2-Dibromo-3-Chloropropane		50.0	39.0	ug/L	0.0620	22.1	40	
1,2-Dibromoethane		50.0	49.6	ug/L	0.255	0.800	40	
Dibromomethane		50.0	44.2	ug/L	0.142	11.6	40	
1,2-Dichlorobenzene		50.0	53.5	ug/L	1.48	7.00	40	
1,3-Dichlorobenzene		50.0	53.4	ug/L	1.63	6.73	40	
1,4-Dichlorobenzene		50.0	52.5	ug/L	1.63	4.98	40	
Dichlorodifluoromethane		50.0	45.8	ug/L	0.296	8.34	40	
1,2-Dichloroethane		50.0	45.4	ug/L	0.307	9.14	40	
cis-1,2-Dichloroethene		50.0	53.6	ug/L	0.315	7.14	40	
trans-1,2-Dichloroethene		50.0	54.2	ug/L	0.294	8.44	40	
1,3-Dichloropropane		50.0	49.9	ug/L	0.417	0.161	40	
2,2-Dichloropropane		50.0	58.8	ug/L	0.432	17.6	40	
cis-1,3-Dichloropropene		50.0	54.7	ug/L	0.415	9.39	40	
trans-1,3-Dichloropropene		50.0	56.3	ug/L	0.454	12.5	40	

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Login Number: L12070658 Run Date: 07/20/2012 Sample ID: WG404019-02
Instrument ID: HPMS11 Run Time: 16:28 Method: 8260B
File ID: 11M85443 Analyst: FJB QC Key: STD
Workgroup (AAB#): WG404020 Cal ID: HPMS11 - 03-MAY-12
Matrix: WATER

Analyte	Expected	Found	UNITS	RF	%D	UCL	Q
1,1-Dichloropropene	50.0	53.6	ug/L	0.384	7.26	40	
2-Hexanone	50.0	38.4	ug/L	0.0965	23.1	40	
Hexachlorobutadiene	50.0	57.5	ug/L	0.357	15.1	40	
Isopropylbenzene	50.0	56.2	ug/L	1.73	12.5	40	
p-Isopropyltoluene	50.0	55.0	ug/L	2.66	9.93	40	
4-Methyl-2-Pentanone	50.0	41.9	ug/L	0.0471	16.2	40	
Methylene Chloride	50.0	51.4	ug/L	0.277	2.83	40	
Naphthalene	50.0	44.6	ug/L	1.54	10.8	40	
n-Propylbenzene	50.0	53.9	ug/L	3.51	7.89	40	
Styrene	50.0	55.5	ug/L	1.15	11.0	40	
1,1,1,2-Tetrachloroethane	50.0	52.4	ug/L	0.436	4.89	40	
Tetrachloroethene	50.0	56.6	ug/L	0.349	13.3	40	
1,2,3-Trichlorobenzene	50.0	55.8	ug/L	0.814	11.5	40	
1,2,4-Trichlorobenzene	50.0	59.3	ug/L	0.926	18.5	40	
1,1,1-Trichloroethane	50.0	52.1	ug/L	0.469	4.19	40	
1,1,2-Trichloroethane	50.0	49.8	ug/L	0.247	0.414	40	
Trichloroethene	50.0	50.3	ug/L	0.345	0.642	40	
Trichlorofluoromethane	50.0	43.9	ug/L	0.474	12.1	40	
1,2,3-Trichloropropane	50.0	52.1	ug/L	0.140	4.22	40	
1,2,4-Trimethylbenzene	50.0	52.6	ug/L	2.64	5.11	40	
1,3,5-Trimethylbenzene	50.0	52.4	ug/L	2.53	4.89	40	
Vinyl Acetate	50.0	37.1	ug/L	0.116	25.7	40	
o-Xylene	50.0	52.6	ug/L	0.687	5.16	40	
m-,p-Xylene	100	112	ug/L	0.748	11.6	40	
1,2-Dichloroethene	100	108	ug/L	0.304	7.79	40	
Xylenes	150	164	ug/L	0.718	9.43	40	

* Exceeds %D Criteria

CCC Calibration Check Compounds
SPCC System Performance Check Compounds

CCV - Modified 03/05/2008
PDF File ID: 2511922
Report generated 07/31/2012 15:41



Login Number: L12070658 Run Date: 07/21/2012 Sample ID: WG404057-02
Instrument ID: HPMS10 Run Time: 16:11 Method: 8260B
File ID: 10M97157 Analyst: MES QC Key: STD
Workgroup (AAB#): WG404058 Cal ID: HPMS10 - 26-JUN-12
Matrix: WATER

Analyte		Expected	Found	UNITS	RF	%D	UCL	Q
Chloroform	CCC	50.0	52.8	ug/L	0.461	5.55	20	
1,1-Dichloroethene	CCC	50.0	53.5	ug/L	0.224	7.04	20	
1,2-Dichloropropane	CCC	50.0	51.6	ug/L	0.263	3.19	20	
Ethylbenzene	CCC	50.0	50.4	ug/L	0.507	0.758	20	
Toluene	CCC	50.0	50.8	ug/L	1.38	1.67	20	
Vinyl Chloride	CCC	50.0	55.1	ug/L	0.312	10.3	20	
Bromoform	SPCC	50.0	50.5	ug/L	0.210	0.907	40	
Chlorobenzene	SPCC	50.0	51.0	ug/L	0.933	2.07	40	
Chloromethane	SPCC	50.0	53.1	ug/L	0.397	6.25	40	
1,1-Dichloroethane	SPCC	50.0	52.6	ug/L	0.482	5.13	40	
1,1,2,2-Tetrachloroethane	SPCC	50.0	49.5	ug/L	0.496	1.05	40	
Acetone		50.0	47.2	ug/L	0.0554	5.52	40	
Benzene		50.0	51.5	ug/L	0.985	2.90	40	
Bromobenzene		50.0	49.7	ug/L	0.729	0.678	40	
Bromochloromethane		50.0	53.0	ug/L	0.124	5.97	40	
Bromodichloromethane		50.0	52.7	ug/L	0.350	5.44	40	
Bromomethane		50.0	56.0	ug/L	0.161	12.1	40	
2-Butanone		50.0	46.9	ug/L	0.0770	6.18	40	
n-Butylbenzene		50.0	51.7	ug/L	2.02	3.39	40	
sec-Butylbenzene		50.0	51.1	ug/L	2.62	2.29	40	
tert-Butylbenzene		50.0	49.2	ug/L	0.487	1.55	40	
Carbon Disulfide		50.0	54.4	ug/L	0.679	8.75	40	
Carbon Tetrachloride		50.0	55.7	ug/L	0.376	11.4	40	
Dibromochloromethane		50.0	51.9	ug/L	0.320	3.78	40	
Chloroethane		50.0	52.1	ug/L	0.180	4.11	40	
2-Chloroethyl Vinyl Ether		50.0	38.5	ug/L	0.0991	23.0	40	
2-Chlorotoluene		50.0	46.3	ug/L	1.89	7.36	40	
4-Chlorotoluene		50.0	56.4	ug/L	2.05	12.7	40	
1,2-Dibromo-3-Chloropropane		50.0	44.3	ug/L	0.0938	11.5	40	
1,2-Dibromoethane		50.0	50.6	ug/L	0.242	1.19	40	
Dibromomethane		50.0	52.5	ug/L	0.141	4.92	40	
1,2-Dichlorobenzene		50.0	50.4	ug/L	1.27	0.829	40	
1,3-Dichlorobenzene		50.0	50.4	ug/L	1.38	0.782	40	
1,4-Dichlorobenzene		50.0	50.5	ug/L	1.39	0.953	40	
Dichlorodifluoromethane		50.0	62.5	ug/L	0.268	24.9	40	
1,2-Dichloroethane		50.0	53.5	ug/L	0.342	6.97	40	
cis-1,2-Dichloroethene		50.0	52.7	ug/L	0.277	5.49	40	
trans-1,2-Dichloroethene		50.0	52.4	ug/L	0.251	4.82	40	
1,3-Dichloropropane		50.0	47.8	ug/L	0.419	4.32	40	
2,2-Dichloropropane		50.0	55.3	ug/L	0.396	10.5	40	
cis-1,3-Dichloropropene		50.0	56.6	ug/L	0.410	13.2	40	
trans-1,3-Dichloropropene		50.0	51.2	ug/L	0.467	2.37	40	

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Login Number: L12070658 Run Date: 07/21/2012 Sample ID: WG404057-02
Instrument ID: HPMS10 Run Time: 16:11 Method: 8260B
File ID: 10M97157 Analyst: MES QC Key: STD
Workgroup (AAB#): WG404058 Cal ID: HPMS10 - 26-JUN-12
Matrix: WATER

Analyte	Expected	Found	UNITS	RF	%D	UCL	Q
1,1-Dichloropropene	50.0	53.8	ug/L	0.353	7.64	40	
2-Hexanone	50.0	44.6	ug/L	0.141	10.7	40	
Hexachlorobutadiene	50.0	49.9	ug/L	0.308	0.151	40	
Isopropylbenzene	50.0	51.8	ug/L	1.47	3.70	40	
p-Isopropyltoluene	50.0	49.6	ug/L	2.19	0.710	40	
4-Methyl-2-Pentanone	50.0	46.0	ug/L	0.0586	8.03	40	
Methylene Chloride	50.0	51.4	ug/L	0.257	2.80	40	
Naphthalene	50.0	42.9	ug/L	1.38	14.2	40	
n-Propylbenzene	50.0	51.1	ug/L	3.08	2.29	40	
Styrene	50.0	53.3	ug/L	1.01	6.61	40	
1,1,1,2-Tetrachloroethane	50.0	53.3	ug/L	0.371	6.66	40	
Tetrachloroethene	50.0	50.2	ug/L	0.285	0.453	40	
1,2,3-Trichlorobenzene	50.0	43.7	ug/L	0.712	12.6	40	
1,2,4-Trichlorobenzene	50.0	44.8	ug/L	0.823	10.3	40	
1,1,1-Trichloroethane	50.0	54.2	ug/L	0.416	8.47	40	
1,1,2-Trichloroethane	50.0	48.0	ug/L	0.238	4.04	40	
Trichloroethene	50.0	50.6	ug/L	0.259	1.11	40	
Trichlorofluoromethane	50.0	54.6	ug/L	0.421	9.26	40	
1,2,3-Trichloropropane	50.0	46.2	ug/L	0.141	7.52	40	
1,2,4-Trimethylbenzene	50.0	51.3	ug/L	2.31	2.69	40	
1,3,5-Trimethylbenzene	50.0	51.9	ug/L	2.22	3.85	40	
Vinyl Acetate	50.0	53.5	ug/L	0.320	7.00	40	
o-Xylene	50.0	50.3	ug/L	0.589	0.689	40	
m-,p-Xylene	100	106	ug/L	0.620	6.37	40	
1,2-Dichloroethene	100	105	ug/L	0.264	5.16	40	
Xylenes	150	157	ug/L	0.605	4.48	40	

* Exceeds %D Criteria

CCC Calibration Check Compounds

SPCC System Performance Check Compounds

CCV - Modified 03/05/2008

PDF File ID: 2511922

Report generated 07/31/2012 15:41



Login Number: L12070658 Run Date: 07/23/2012 Sample ID: WG404129-02
Instrument ID: HPMS11 Run Time: 12:50 Method: 8260B
File ID: 11M85500 Analyst: FJB QC Key: STD
Workgroup (AAB#): WG404130 Cal ID: HPMS11 - 03-MAY-12
Matrix: WATER

Analyte		Expected	Found	UNITS	RF	%D	UCL	Q
Chloroform	CCC	50.0	50.3	ug/L	0.483	0.693	20	
1,1-Dichloroethene	CCC	50.0	54.4	ug/L	0.413	8.77	20	
1,2-Dichloropropane	CCC	50.0	52.7	ug/L	0.254	5.43	20	
Ethylbenzene	CCC	50.0	54.6	ug/L	0.593	9.14	20	
Toluene	CCC	50.0	52.3	ug/L	1.57	4.65	20	
Vinyl Chloride	CCC	50.0	43.0	ug/L	0.483	14.0	20	
Bromoform	SPCC	50.0	43.9	ug/L	0.178	12.3	40	
Chlorobenzene	SPCC	50.0	55.4	ug/L	1.11	10.8	40	
Chloromethane	SPCC	50.0	42.4	ug/L	0.470	15.2	40	
1,1-Dichloroethane	SPCC	50.0	53.2	ug/L	0.484	6.49	40	
1,1,2,2-Tetrachloroethane	SPCC	50.0	40.4	ug/L	0.359	19.2	40	
Acetone		50.0	60.0	ug/L	0.0553	20.1	40	
Benzene		50.0	52.4	ug/L	1.10	4.80	40	
Bromobenzene		50.0	43.7	ug/L	0.679	12.6	40	
Bromochloromethane		50.0	46.1	ug/L	0.172	7.75	40	
Bromodichloromethane		50.0	51.1	ug/L	0.337	2.11	40	
Bromomethane		50.0	54.9	ug/L	0.195	9.86	40	
2-Butanone		50.0	45.0	ug/L	0.0580	9.91	40	
n-Butylbenzene		50.0	53.4	ug/L	1.97	6.77	40	
sec-Butylbenzene		50.0	48.3	ug/L	2.72	3.49	40	
tert-Butylbenzene		50.0	42.2	ug/L	0.443	15.7	40	
Carbon Disulfide		50.0	46.5	ug/L	0.719	7.09	40	
Carbon Tetrachloride		50.0	45.6	ug/L	0.437	8.81	40	
Dibromochloromethane		50.0	45.8	ug/L	0.322	8.33	40	
Chloroethane		50.0	47.3	ug/L	0.181	5.34	40	
2-Chloroethyl Vinyl Ether		50.0	34.8	ug/L	0.0716	30.3	40	
2-Chlorotoluene		50.0	42.2	ug/L	1.85	15.6	40	
4-Chlorotoluene		50.0	46.7	ug/L	1.79	6.51	40	
1,2-Dibromo-3-Chloropropane		50.0	37.6	ug/L	0.0598	24.8	40	
1,2-Dibromoethane		50.0	43.9	ug/L	0.226	12.3	40	
Dibromomethane		50.0	40.9	ug/L	0.132	18.1	40	
1,2-Dichlorobenzene		50.0	45.7	ug/L	1.26	8.65	40	
1,3-Dichlorobenzene		50.0	48.7	ug/L	1.49	2.55	40	
1,4-Dichlorobenzene		50.0	47.1	ug/L	1.46	5.90	40	
Dichlorodifluoromethane		50.0	46.2	ug/L	0.298	7.67	40	
1,2-Dichloroethane		50.0	44.5	ug/L	0.301	11.0	40	
cis-1,2-Dichloroethene		50.0	52.6	ug/L	0.309	5.10	40	
trans-1,2-Dichloroethene		50.0	53.3	ug/L	0.289	6.64	40	
1,3-Dichloropropane		50.0	47.1	ug/L	0.393	5.76	40	
2,2-Dichloropropane		50.0	37.0	ug/L	0.271	26.0	40	
cis-1,3-Dichloropropene		50.0	48.8	ug/L	0.370	2.45	40	
trans-1,3-Dichloropropene		50.0	42.1	ug/L	0.339	15.9	40	

CCV - Modified 03/05/2008

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Login Number: L12070658 Run Date: 07/23/2012 Sample ID: WG404129-02
Instrument ID: HPMS11 Run Time: 12:50 Method: 8260B
File ID: 11M85500 Analyst: FJB QC Key: STD
Workgroup (AAB#): WG404130 Cal ID: HPMS11 - 03-MAY-12
Matrix: WATER

Analyte	Expected	Found	UNITS	RF	%D	UCL	Q
1,1-Dichloropropene	50.0	53.8	ug/L	0.385	7.56	40	
2-Hexanone	50.0	45.3	ug/L	0.114	9.44	40	
Hexachlorobutadiene	50.0	51.9	ug/L	0.322	3.75	40	
Isopropylbenzene	50.0	53.1	ug/L	1.63	6.23	40	
p-Isopropyltoluene	50.0	49.1	ug/L	2.38	1.86	40	
4-Methyl-2-Pentanone	50.0	49.7	ug/L	0.0559	0.575	40	
Methylene Chloride	50.0	49.9	ug/L	0.269	0.297	40	
Naphthalene	50.0	42.0	ug/L	1.45	15.9	40	
n-Propylbenzene	50.0	44.2	ug/L	2.87	11.7	40	
Styrene	50.0	51.5	ug/L	1.07	3.01	40	
1,1,1,2-Tetrachloroethane	50.0	49.3	ug/L	0.405	1.42	40	
Tetrachloroethene	50.0	54.2	ug/L	0.334	8.43	40	
1,2,3-Trichlorobenzene	50.0	48.0	ug/L	0.700	4.06	40	
1,2,4-Trichlorobenzene	50.0	53.7	ug/L	0.839	7.43	40	
1,1,1-Trichloroethane	50.0	50.2	ug/L	0.452	0.410	40	
1,1,2-Trichloroethane	50.0	45.5	ug/L	0.226	8.90	40	
Trichloroethene	50.0	47.1	ug/L	0.323	5.77	40	
Trichlorofluoromethane	50.0	43.3	ug/L	0.466	13.5	40	
1,2,3-Trichloropropane	50.0	39.4	ug/L	0.106	21.2	40	
1,2,4-Trimethylbenzene	50.0	42.8	ug/L	2.15	14.4	40	
1,3,5-Trimethylbenzene	50.0	42.9	ug/L	2.07	14.2	40	
Vinyl Acetate	50.0	36.6	ug/L	0.114	26.8	40	
o-Xylene	50.0	50.0	ug/L	0.653	0.0630	40	
m-,p-Xylene	100	107	ug/L	0.719	7.23	40	
1,2-Dichloroethene	100	106	ug/L	0.299	5.87	40	
Xylenes	150	157	ug/L	0.686	4.80	40	

* Exceeds %D Criteria

CCC Calibration Check Compounds

SPCC System Performance Check Compounds

CCV - Modified 03/05/2008

PDF File ID: 2511922

Report generated 07/31/2012 15:41



Login Number: L12070658 Run Date: 07/25/2012 Sample ID: WG404415-02
Instrument ID: HPMS8 Run Time: 10:04 Method: 8260B
File ID: 8M381037 Analyst: ADC QC Key: STD
Workgroup (AAB#): WG404417 Cal ID: HPMS8 - 28-JUN-12
Matrix: WATER

Analyte		Expected	Found	UNITS	RF	%D	UCL	Q
Chloroform	CCC	50.0	45.5	ug/L	0.436	9.07	20	
1,1-Dichloroethene	CCC	50.0	46.2	ug/L	0.415	7.69	20	
1,2-Dichloropropane	CCC	50.0	47.3	ug/L	0.278	5.45	20	
Ethylbenzene	CCC	50.0	43.1	ug/L	0.500	13.8	20	
Toluene	CCC	50.0	44.8	ug/L	1.30	10.4	20	
Vinyl Chloride	CCC	50.0	41.1	ug/L	0.211	17.8	20	
Bromoform	SPCC	50.0	48.4	ug/L	0.184	3.30	40	
Chlorobenzene	SPCC	50.0	45.2	ug/L	0.904	9.50	40	
Chloromethane	SPCC	50.0	31.4	ug/L	0.299	37.2	40	
1,1-Dichloroethane	SPCC	50.0	48.2	ug/L	0.512	3.58	40	
1,1,2,2-Tetrachloroethane	SPCC	50.0	50.2	ug/L	0.376	0.375	40	
Acetone		50.0	45.3	ug/L	0.0389	9.41	40	
Benzene		50.0	47.0	ug/L	1.02	5.95	40	
Bromobenzene		50.0	45.9	ug/L	0.729	8.26	40	
Bromochloromethane		50.0	50.3	ug/L	0.172	0.663	40	
Bromodichloromethane		50.0	46.7	ug/L	0.319	6.68	40	
Bromomethane		50.0	45.4	ug/L	0.201	9.11	40	
2-Butanone		50.0	44.4	ug/L	0.0570	11.1	40	
n-Butylbenzene		50.0	38.3	ug/L	1.72	23.4	40	
sec-Butylbenzene		50.0	40.1	ug/L	2.41	19.8	40	
tert-Butylbenzene		50.0	41.7	ug/L	0.483	16.5	40	
Carbon Disulfide		50.0	53.4	ug/L	0.816	6.89	40	
Carbon Tetrachloride		50.0	46.7	ug/L	0.410	6.63	40	
Dibromochloromethane		50.0	49.3	ug/L	0.301	1.36	40	
Chloroethane		50.0	46.5	ug/L	0.210	7.01	40	
2-Chloroethyl Vinyl Ether		50.0	197	ug/L	0.117	294	40	*
2-Chlorotoluene		50.0	46.2	ug/L	2.00	7.53	40	
4-Chlorotoluene		50.0	41.0	ug/L	1.82	18.0	40	
1,2-Dibromo-3-Chloropropane		50.0	45.9	ug/L	0.0619	8.29	40	
1,2-Dibromoethane		50.0	49.2	ug/L	0.216	1.52	40	
Dibromomethane		50.0	47.6	ug/L	0.123	4.82	40	
1,2-Dichlorobenzene		50.0	43.7	ug/L	1.25	12.5	40	
1,3-Dichlorobenzene		50.0	44.1	ug/L	1.40	11.7	40	
1,4-Dichlorobenzene		50.0	42.6	ug/L	1.41	14.9	40	
Dichlorodifluoromethane		50.0	39.9	ug/L	0.284	20.1	40	
1,2-Dichloroethane		50.0	40.5	ug/L	0.271	19.1	40	
cis-1,2-Dichloroethene		50.0	50.9	ug/L	0.295	1.80	40	
trans-1,2-Dichloroethene		50.0	47.5	ug/L	0.401	4.92	40	
1,3-Dichloropropane		50.0	47.5	ug/L	0.346	5.06	40	
2,2-Dichloropropane		50.0	47.1	ug/L	0.413	5.79	40	
cis-1,3-Dichloropropene		50.0	53.4	ug/L	0.398	6.79	40	
trans-1,3-Dichloropropene		50.0	48.7	ug/L	0.373	2.58	40	

CCV - Modified 03/05/2008
PDF File ID: 2511922
Report generated 07/31/2012 15:41



Login Number: L12070658 Run Date: 07/25/2012 Sample ID: WG404415-02
Instrument ID: HPMS8 Run Time: 10:04 Method: 8260B
File ID: 8M381037 Analyst: ADC QC Key: STD
Workgroup (AAB#): WG404417 Cal ID: HPMS8 - 28-JUN-12
Matrix: WATER

Analyte	Expected	Found	UNITS	RF	%D	UCL	Q
1,1-Dichloropropene	50.0	47.9	ug/L	0.367	4.14	40	
2-Hexanone	50.0	46.6	ug/L	0.0548	6.71	40	
Hexachlorobutadiene	50.0	37.7	ug/L	0.323	24.6	40	
Isopropylbenzene	50.0	42.0	ug/L	1.45	16.1	40	
p-Isopropyltoluene	50.0	40.3	ug/L	2.12	19.5	40	
4-Methyl-2-Pentanone	50.0	47.1	ug/L	0.0520	5.88	40	
Methylene Chloride	50.0	43.5	ug/L	0.241	13.1	40	
Naphthalene	50.0	45.4	ug/L	1.39	9.25	40	
n-Propylbenzene	50.0	42.6	ug/L	2.87	14.8	40	
Styrene	50.0	45.1	ug/L	1.02	9.87	40	
1,1,1,2-Tetrachloroethane	50.0	45.9	ug/L	0.349	8.22	40	
Tetrachloroethene	50.0	44.1	ug/L	0.313	11.8	40	
1,2,3-Trichlorobenzene	50.0	38.5	ug/L	0.657	23.0	40	
1,2,4-Trichlorobenzene	50.0	39.6	ug/L	0.783	20.8	40	
1,1,1-Trichloroethane	50.0	45.4	ug/L	0.419	9.11	40	
1,1,2-Trichloroethane	50.0	48.5	ug/L	0.200	3.09	40	
Trichloroethene	50.0	47.0	ug/L	0.316	6.04	40	
Trichlorofluoromethane	50.0	45.5	ug/L	0.478	8.99	40	
1,2,3-Trichloropropane	50.0	49.3	ug/L	0.116	1.36	40	
1,2,4-Trimethylbenzene	50.0	41.9	ug/L	2.21	16.3	40	
1,3,5-Trimethylbenzene	50.0	42.3	ug/L	2.18	15.3	40	
Vinyl Acetate	50.0	45.0	ug/L	0.182	9.95	40	
o-Xylene	50.0	44.8	ug/L	0.622	10.4	40	
m-,p-Xylene	100	86.8	ug/L	0.612	13.2	40	
1,2-Dichloroethene	100	98.4	ug/L	0.348	1.56	40	
Xylenes	150	132	ug/L	0.617	12.2	40	

* Exceeds %D Criteria

CCC Calibration Check Compounds

SPCC System Performance Check Compounds

CCV - Modified 03/05/2008

PDF File ID: 2511922

Report generated 07/31/2012 15:41



Login Number: L12070658 Run Date: 07/30/2012 Sample ID: WG404913-02
Instrument ID: HPMS8 Run Time: 11:15 Method: 8260B
File ID: 8M381190 Analyst: ADC QC Key: STD
Workgroup (AAB#): WG404914 Cal ID: HPMS8 - 28-JUN-12
Matrix: WATER

Analyte		Expected	Found	UNITS	RF	%D	UCL	Q
Chloroform	CCC	50.0	44.0	ug/L	0.422	12.0	20	
1,1-Dichloroethene	CCC	50.0	45.4	ug/L	0.408	9.24	20	
1,2-Dichloropropane	CCC	50.0	44.7	ug/L	0.263	10.6	20	
Ethylbenzene	CCC	50.0	44.8	ug/L	0.519	10.4	20	
Toluene	CCC	50.0	45.8	ug/L	1.33	8.42	20	
Vinyl Chloride	CCC	50.0	40.5	ug/L	0.208	19.0	20	
Bromoform	SPCC	50.0	45.9	ug/L	0.174	8.26	40	
Chlorobenzene	SPCC	50.0	45.7	ug/L	0.914	8.55	40	
Chloromethane	SPCC	50.0	32.6	ug/L	0.310	34.7	40	
1,1-Dichloroethane	SPCC	50.0	46.7	ug/L	0.497	6.53	40	
1,1,2,2-Tetrachloroethane	SPCC	50.0	48.9	ug/L	0.367	2.11	40	
Acetone		50.0	34.9	ug/L	0.0299	30.2	40	
Benzene		50.0	45.4	ug/L	0.984	9.24	40	
Bromobenzene		50.0	47.9	ug/L	0.761	4.18	40	
Bromochloromethane		50.0	47.6	ug/L	0.162	4.75	40	
Bromodichloromethane		50.0	43.9	ug/L	0.301	12.1	40	
Bromomethane		50.0	48.9	ug/L	0.216	2.15	40	
2-Butanone		50.0	37.6	ug/L	0.0483	24.7	40	
n-Butylbenzene		50.0	41.2	ug/L	1.85	17.6	40	
sec-Butylbenzene		50.0	43.0	ug/L	2.58	13.9	40	
tert-Butylbenzene		50.0	44.2	ug/L	0.511	11.6	40	
Carbon Disulfide		50.0	52.0	ug/L	0.793	3.90	40	
Carbon Tetrachloride		50.0	46.3	ug/L	0.407	7.47	40	
Dibromochloromethane		50.0	48.2	ug/L	0.294	3.63	40	
Chloroethane		50.0	45.2	ug/L	0.204	9.55	40	
2-Chloroethyl Vinyl Ether		50.0	179	ug/L	0.106	258	40	*
2-Chlorotoluene		50.0	46.3	ug/L	2.00	7.31	40	
4-Chlorotoluene		50.0	44.8	ug/L	1.99	10.3	40	
1,2-Dibromo-3-Chloropropane		50.0	42.5	ug/L	0.0574	14.9	40	
1,2-Dibromoethane		50.0	47.0	ug/L	0.206	6.04	40	
Dibromomethane		50.0	43.5	ug/L	0.112	13.1	40	
1,2-Dichlorobenzene		50.0	44.7	ug/L	1.28	10.6	40	
1,3-Dichlorobenzene		50.0	46.2	ug/L	1.47	7.62	40	
1,4-Dichlorobenzene		50.0	44.4	ug/L	1.47	11.3	40	
Dichlorodifluoromethane		50.0	41.6	ug/L	0.295	16.8	40	
1,2-Dichloroethane		50.0	37.8	ug/L	0.254	24.3	40	
cis-1,2-Dichloroethene		50.0	49.3	ug/L	0.285	1.48	40	
trans-1,2-Dichloroethene		50.0	47.4	ug/L	0.400	5.19	40	
1,3-Dichloropropane		50.0	45.8	ug/L	0.334	8.33	40	
2,2-Dichloropropane		50.0	46.1	ug/L	0.404	7.83	40	
cis-1,3-Dichloropropene		50.0	50.0	ug/L	0.373	0.00420	40	
trans-1,3-Dichloropropene		50.0	48.4	ug/L	0.370	3.29	40	

CCV - Modified 03/05/2008
PDF File ID: 2511922
Report generated 07/31/2012 15:41



Login Number: L12070658 Run Date: 07/30/2012 Sample ID: WG404913-02
Instrument ID: HPMS8 Run Time: 11:15 Method: 8260B
File ID: 8M381190 Analyst: ADC QC Key: STD
Workgroup (AAB#): WG404914 Cal ID: HPMS8 - 28-JUN-12
Matrix: WATER

Analyte	Expected	Found	UNITS	RF	%D	UCL	Q
1,1-Dichloropropene	50.0	46.4	ug/L	0.356	7.13	40	
2-Hexanone	50.0	42.6	ug/L	0.0500	14.9	40	
Hexachlorobutadiene	50.0	41.2	ug/L	0.354	17.5	40	
Isopropylbenzene	50.0	43.0	ug/L	1.49	14.0	40	
p-Isopropyltoluene	50.0	43.0	ug/L	2.26	13.9	40	
4-Methyl-2-Pentanone	50.0	40.3	ug/L	0.0445	19.4	40	
Methylene Chloride	50.0	41.8	ug/L	0.232	16.4	40	
Naphthalene	50.0	43.3	ug/L	1.33	13.4	40	
n-Propylbenzene	50.0	45.5	ug/L	3.07	8.94	40	
Styrene	50.0	45.1	ug/L	1.02	9.74	40	
1,1,1,2-Tetrachloroethane	50.0	45.7	ug/L	0.348	8.52	40	
Tetrachloroethene	50.0	45.5	ug/L	0.323	8.95	40	
1,2,3-Trichlorobenzene	50.0	38.1	ug/L	0.651	23.8	40	
1,2,4-Trichlorobenzene	50.0	40.6	ug/L	0.802	18.9	40	
1,1,1-Trichloroethane	50.0	44.6	ug/L	0.411	10.9	40	
1,1,2-Trichloroethane	50.0	46.8	ug/L	0.194	6.41	40	
Trichloroethene	50.0	45.0	ug/L	0.302	10.1	40	
Trichlorofluoromethane	50.0	45.1	ug/L	0.474	9.81	40	
1,2,3-Trichloropropane	50.0	47.8	ug/L	0.113	4.49	40	
1,2,4-Trimethylbenzene	50.0	44.7	ug/L	2.36	10.5	40	
1,3,5-Trimethylbenzene	50.0	45.0	ug/L	2.32	10.0	40	
Vinyl Acetate	50.0	36.1	ug/L	0.146	27.7	40	
o-Xylene	50.0	44.6	ug/L	0.620	10.8	40	
m-,p-Xylene	100	88.4	ug/L	0.624	11.6	40	
1,2-Dichloroethene	100	96.7	ug/L	0.342	3.34	40	
Xylenes	150	133	ug/L	0.622	11.3	40	

* Exceeds %D Criteria

CCC Calibration Check Compounds

SPCC System Performance Check Compounds

CCV - Modified 03/05/2008

PDF File ID: 2511922

Report generated 07/31/2012 15:41



Login Number: L12070658
Instrument ID: HPMS11
Workgroup (AAB#): WG404020

CCV Number: WG404019-02
CAL ID: HPMS11-03-MAY-12
Matrix: WATER

Sample Number	Dilution	Tag	IS-1	IS-2	IS-3
WG404019-02	NA	NA	241390	431328	572472
Upper Limit	NA	NA	482780	862656	1144944
Lower Limit	NA	NA	120695	215664	286236
<u>L12070658-01</u>	1.00	01	156700	322349	438431
L12070658-05	1.00	01	164708	331948	448604
L12070658-06	1.00	01	155124	329939	445707
L12070658-07	1.00	01	159591	327755	447195
L12070658-08	1.00	01	151726	322263	441334
L12070658-09	1.00	01	149071	316148	428561
WG404020-01	1.00	01	163548	352534	481342
WG404020-02	1.00	01	227524	399720	528919
WG404020-06	1.00	01	142687	307455	416911

IS-1 - 1,4-Dichlorobenzene-d4
IS-2 - Chlorobenzene-d5
IS-3 - Fluorobenzene

Underline = Response outside limits



Login Number: L12070658
Instrument ID: HPMS10
Workgroup (AAB#): WG404058

CCV Number: WG404057-02
CAL ID: HPMS10-26-JUN-12
Matrix: WATER

Sample Number	Dilution	Tag	IS-1	IS-2	IS-3
WG404057-02	NA	NA	218465	390931	509989
Upper Limit	NA	NA	436930	781862	1019978
Lower Limit	NA	NA	109233	195466	254995
<u>L12070658-10</u>	1.00	01	151449	311894	422286
L12070658-11	1.00	01	147909	307608	416440
L12070658-12	1.00	01	153270	307956	417268
L12070658-13	1.00	01	171550	345881	465168
L12070658-14	1.00	01	146563	304127	410299
L12070658-15	1.00	01	144868	298581	405715
L12070658-16	1.00	01	143407	295658	398490
L12070658-17	1.00	01	137643	285766	386158
L12070658-18	1.00	01	142137	292307	396601
L12070658-19	1.00	01	139063	290493	392998
L12070658-21	1.00	01	159080	333275	450179
WG404058-01	1.00	01	171213	354219	477439
WG404058-02	1.00	01	201790	365836	480348
WG404058-03	1.00	01	204126	372518	495005

IS-1 - 1,4-Dichlorobenzene-d4
IS-2 - Chlorobenzene-d5
IS-3 - Fluorobenzene

Underline = Response outside limits



Login Number: L12070658
Instrument ID: HPMS11
Workgroup (AAB#): WG404130

CCV Number: WG404129-02
CAL ID: HPMS11-03-MAY-12
Matrix: WATER

Sample Number	Dilution	Tag	IS-1	IS-2	IS-3
WG404129-02	NA	NA	340283	524654	682233
Upper Limit	NA	NA	680566	1049308	1364466
Lower Limit	NA	NA	170142	262327	341117
L12070658-22	1.00	01	171459	356030	477875
WG404130-01	1.00	01	216198	431925	580075
WG404130-02	1.00	01	236266	431684	568784
WG404130-03	1.00	01	233894	425513	562444
WG404130-04	1.00	01	<u>133975</u>	291859	389094

IS-1 - 1,4-Dichlorobenzene-d4
IS-2 - Chlorobenzene-d5
IS-3 - Fluorobenzene

Underline = Response outside limits



Login Number: L12070658
Instrument ID: HPMS8
Workgroup (AAB#): WG404417

CCV Number: WG404415-02
CAL ID: HPMS8-28-JUN-12
Matrix: WATER

Sample Number	Dilution	Tag	IS-1	IS-2	IS-3
WG404415-02	NA	NA	296584	531546	623691
Upper Limit	NA	NA	593168	1063092	1247382
Lower Limit	NA	NA	148292	265773	311846
<u>L12070658-02</u>	1.00	01	284534	506093	581212
L12070658-03	1.00	01	279125	499205	586583
L12070658-04	1.00	01	277062	497690	581508
WG404417-01	1.00	01	285248	509222	594290
WG404417-02	1.00	01	286324	507715	585883

IS-1 - 1,4-Dichlorobenzene-d4
IS-2 - Chlorobenzene-d5
IS-3 - Fluorobenzene

Underline = Response outside limits



Login Number: L12070658
Instrument ID: HPMS8
Workgroup (AAB#): WG404914

CCV Number: WG404913-02
CAL ID: HPMS8-28-JUN-12
Matrix: WATER

Sample Number	Dilution	Tag	IS-1	IS-2	IS-3
WG404913-02	NA	NA	266819	502461	629947
Upper Limit	NA	NA	533638	1004922	1259894
Lower Limit	NA	NA	133410	251231	314974
<u>L12070658-20</u>	1.00	02	<u>240333</u>	<u>443496</u>	<u>545610</u>
L12070658-23	1.00	02	240602	442809	551758
L12070658-24	1.00	02	240554	441187	546872
L12070658-25	1.00	02	239309	436485	543531
L12070658-26	1.00	02	237013	434509	538037
L12070658-27	1.00	02	236266	435107	537825
L12070658-28	1.00	02	236792	432392	536375
L12070658-29	1.00	02	235961	438047	538566
L12070658-30	1.00	02	237859	432876	532602
L12070658-31	1.00	02	244028	448381	554945
L12070658-32	1.00	02	234178	431075	526410
L12070658-33	1.00	02	232181	427916	530179
L12070658-34	1.00	02	235139	422848	522922
L12070658-35	1.00	02	233327	427097	516829
L12070658-36	1.00	02	231396	422678	524191
L12070658-37	1.00	02	231732	425711	518306
WG404914-01	1.00	01	255139	471336	585494
WG404914-02	1.00	01	251467	464910	585633
WG404914-03	1.00	01	253306	462510	572905

IS-1 - 1,4-Dichlorobenzene-d4
IS-2 - Chlorobenzene-d5
IS-3 - Fluorobenzene

Underline = Response outside limits



Login Number: L12070658
Instrument ID: HPMS11
Workgroup (AAB#): WG404020

CCV Number: WG404019-02
CAL ID: HPMS11-03-MAY-12
Matrix: WATER

Sample Number	Dilution	Tag	IS-1	IS-2	IS-3
WG404019-02	NA	NA	16.72	13.92	10.28
Upper Limit	NA	NA	17.22	14.42	10.78
Lower Limit	NA	NA	16.22	13.42	9.78
<u>L12070658-01</u>	1.00	01	16.72	13.92	10.28
L12070658-05	1.00	01	16.72	13.91	10.28
L12070658-06	1.00	01	16.72	13.91	10.28
L12070658-07	1.00	01	16.72	13.91	10.28
L12070658-08	1.00	01	16.72	13.91	10.28
L12070658-09	1.00	01	16.72	13.91	10.28
WG404020-01	1.00	01	16.72	13.92	10.29
WG404020-02	1.00	01	16.72	13.91	10.28
WG404020-06	1.00	01	16.72	13.91	10.28

IS-1 - 1,4-Dichlorobenzene-d4
IS-2 - Chlorobenzene-d5
IS-3 - Fluorobenzene

Underline = Response outside limits



Login Number: L12070658
Instrument ID: HPMS10
Workgroup (AAB#): WG404058

CCV Number: WG404057-02
CAL ID: HPMS10-26-JUN-12
Matrix: WATER

Sample Number	Dilution	Tag	IS-1	IS-2	IS-3
WG404057-02	NA	NA	16.51	13.71	10.1
Upper Limit	NA	NA	17.01	14.21	10.6
Lower Limit	NA	NA	16.01	13.21	9.6
L12070658-10	1.00	01	16.51	13.71	10.1
L12070658-11	1.00	01	16.51	13.72	10.1
L12070658-12	1.00	01	16.51	13.72	10.1
L12070658-13	1.00	01	16.51	13.71	10.1
L12070658-14	1.00	01	16.51	13.72	10.1
L12070658-15	1.00	01	16.51	13.72	10.1
L12070658-16	1.00	01	16.5	13.71	10.1
L12070658-17	1.00	01	16.51	13.71	10.1
L12070658-18	1.00	01	16.5	13.71	10.1
L12070658-19	1.00	01	16.51	13.71	10.1
L12070658-21	1.00	01	16.5	13.71	10.1
WG404058-01	1.00	01	16.51	13.72	10.1
WG404058-02	1.00	01	16.51	13.7	10.1
WG404058-03	1.00	01	16.5	13.71	10.1

IS-1 - 1,4-Dichlorobenzene-d4
IS-2 - Chlorobenzene-d5
IS-3 - Fluorobenzene

Underline = Response outside limits



Login Number: L12070658
Instrument ID: HPMS11
Workgroup (AAB#): WG404130

CCV Number: WG404129-02
CAL ID: HPMS11-03-MAY-12
Matrix: WATER

Sample Number	Dilution	Tag	IS-1	IS-2	IS-3
WG404129-02	NA	NA	16.72	13.91	10.28
Upper Limit	NA	NA	17.22	14.41	10.78
Lower Limit	NA	NA	16.22	13.41	9.78
<u>L12070658-22</u>	1.00	01	16.72	13.91	10.28
WG404130-01	1.00	01	16.72	13.91	10.28
WG404130-02	1.00	01	16.72	13.91	10.28
WG404130-03	1.00	01	16.72	13.91	10.28
WG404130-04	1.00	01	16.72	13.91	10.28

IS-1 - 1,4-Dichlorobenzene-d4
IS-2 - Chlorobenzene-d5
IS-3 - Fluorobenzene

Underline = Response outside limits



Login Number: L12070658
Instrument ID: HPMS8
Workgroup (AAB#): WG404417

CCV Number: WG404415-02
CAL ID: HPMS8 - 28-JUN-12
Matrix: WATER

Sample Number	Dilution	Tag	IS-1	IS-2	IS-3
WG404415-02	NA	NA	17.04	14.03	10.18
Upper Limit	NA	NA	17.54	14.53	10.68
Lower Limit	NA	NA	16.54	13.53	9.68
<u>L12070658-02</u>	1.00	01	17.04	14.03	10.17
L12070658-03	1.00	01	17.04	14.03	10.18
L12070658-04	1.00	01	17.04	14.03	10.18
WG404417-01	1.00	01	17.04	14.03	10.18
WG404417-02	1.00	01	17.04	14.03	10.18

IS-1 - 1,4-Dichlorobenzene-d4
IS-2 - Chlorobenzene-d5
IS-3 - Fluorobenzene

Underline = Response outside limits



Login Number: L12070658
Instrument ID: HPMS8
Workgroup (AAB#): WG404914

CCV Number: WG404913-02
CAL ID: HPMS8 - 28-JUN-12
Matrix: WATER

Sample Number	Dilution	Tag	IS-1	IS-2	IS-3
WG404913-02	NA	NA	17.04	14.03	10.18
Upper Limit	NA	NA	17.54	14.53	10.68
Lower Limit	NA	NA	16.54	13.53	9.68
<u>L12070658-20</u>	1.00	02	17.04	14.03	10.17
L12070658-23	1.00	02	17.04	14.03	10.18
L12070658-24	1.00	02	17.04	14.03	10.18
L12070658-25	1.00	02	17.04	14.03	10.18
L12070658-26	1.00	02	17.04	14.03	10.18
L12070658-27	1.00	02	17.04	14.03	10.18
L12070658-28	1.00	02	17.04	14.03	10.18
L12070658-29	1.00	02	17.04	14.03	10.18
L12070658-30	1.00	02	17.04	14.03	10.18
L12070658-31	1.00	02	17.04	14.03	10.18
L12070658-32	1.00	02	17.04	14.03	10.18
L12070658-33	1.00	02	17.04	14.03	10.18
L12070658-34	1.00	02	17.04	14.03	10.18
L12070658-35	1.00	02	17.04	14.03	10.18
L12070658-36	1.00	02	17.04	14.03	10.18
L12070658-37	1.00	02	17.04	14.03	10.18
WG404914-01	1.00	01	17.04	14.03	10.17
WG404914-02	1.00	01	17.04	14.03	10.18
WG404914-03	1.00	01	17.04	14.03	10.17

IS-1 - 1,4-Dichlorobenzene-d4
IS-2 - Chlorobenzene-d5
IS-3 - Fluorobenzene

Underline = Response outside limits



2.1.1.3 Sample Data

Data File : C:\MSDCHEM\1\DATA\072012\11M85456.D Vial: 16
 Acq On : 20 Jul 2012 23:13 Operator: FJB
 Sample : L12070658-01 A 826-LOW Inst : hpms11
 Misc : 1,1 Multiplr: 1.00
 MS Integration Params: rteint.p
 Quant Time: Jul 23 08:41:04 2012 Quant Results File: 8260WTR.RES

Quant Method : C:\MSDCHEM\1\METHODS\8260WTR.M (RTE Integrator)
 Title : 8260B/624 (SOP: OVL MSV01) Water 05/03/12 HPMS11
 Last Update : Fri Jul 13 11:24:02 2012
 Response via : Initial Calibration
 DataAcq Meth : 8260WTR

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene	10.28	96	438431	25.00	ug/L	-0.01
57) Chlorobenzene-d5	13.92	117	322349	25.00	ug/L	0.00
78) 1,4-Dichlorobenzene-d4	16.72	152	156700	25.00	ug/L	0.00
System Monitoring Compounds						
37) Dibromofluoromethane	9.30	111	113937	21.3262	ug/L	0.00
Spiked Amount	25.000	Range 86 - 118	Recovery	=	85.32%#	
43) 1,2-Dichloroethane-d4	9.90	65	109205	21.3612	ug/L	0.00
Spiked Amount	25.000	Range 80 - 120	Recovery	=	85.44%	
58) Toluene-d8	12.14	98	441615	25.9726	ug/L	-0.01
Spiked Amount	25.000	Range 88 - 110	Recovery	=	103.88%	
80) p-Bromofluorobenzene	15.30	95	146210	28.2286	ug/L	-0.01
Spiked Amount	25.000	Range 86 - 115	Recovery	=	112.92%	
Target Compounds						
						Qvalue
3) Chloromethane	3.48	50	1822	0.1875	ug/L	# 42
12) 1,1,2-Trichloro-1,2,2-Trif	5.94	101	77700	15.8517	ug/L	100
13) Acetone	6.02	43	2302	2.0342	ug/L	# 60
14) 1,1-Dichloroethene	6.22	61	2891	0.4344	ug/L	98
16) Dimethyl Sulfide	6.47	62	698	0.1281	ug/L	99
20) Carbon Disulfide	7.03	76	11472	0.8455	ug/L	96
27) 1,1-Dichloroethane	8.01	63	1227	0.1541	ug/L	# 50
32) cis-1,2-Dichloroethene	8.82	96	636	0.1235	ug/L	88
47) Trichloroethene	10.76	130	14582	2.4242	ug/L	94
66) Tetrachloroethene	13.01	164	119681	30.1284	ug/L	99
83) n-Propylbenzene	15.46	91	4903	0.2405	ug/L	# 70
92) p-Isopropyltoluene	16.45	119	59186	3.9016	ug/L	100

(#) = qualifier out of range (m) = manual integration
 11M85456.D 8260WTR.M Mon Jul 23 08:41:05 2012

Page 1

Data File : C:\MSDCHEM\1\DATA\072012\11M85456.D

Vial: 16

Acq On : 20 Jul 2012 23:13

Operator: FJB

Sample : L12070658-01 A 826-LOW

Inst : hpms11

Misc : 1,1

Multiplr: 1.00

MS Integration Params: rteint.p

Quant Time: Jul 23 8:41 2012

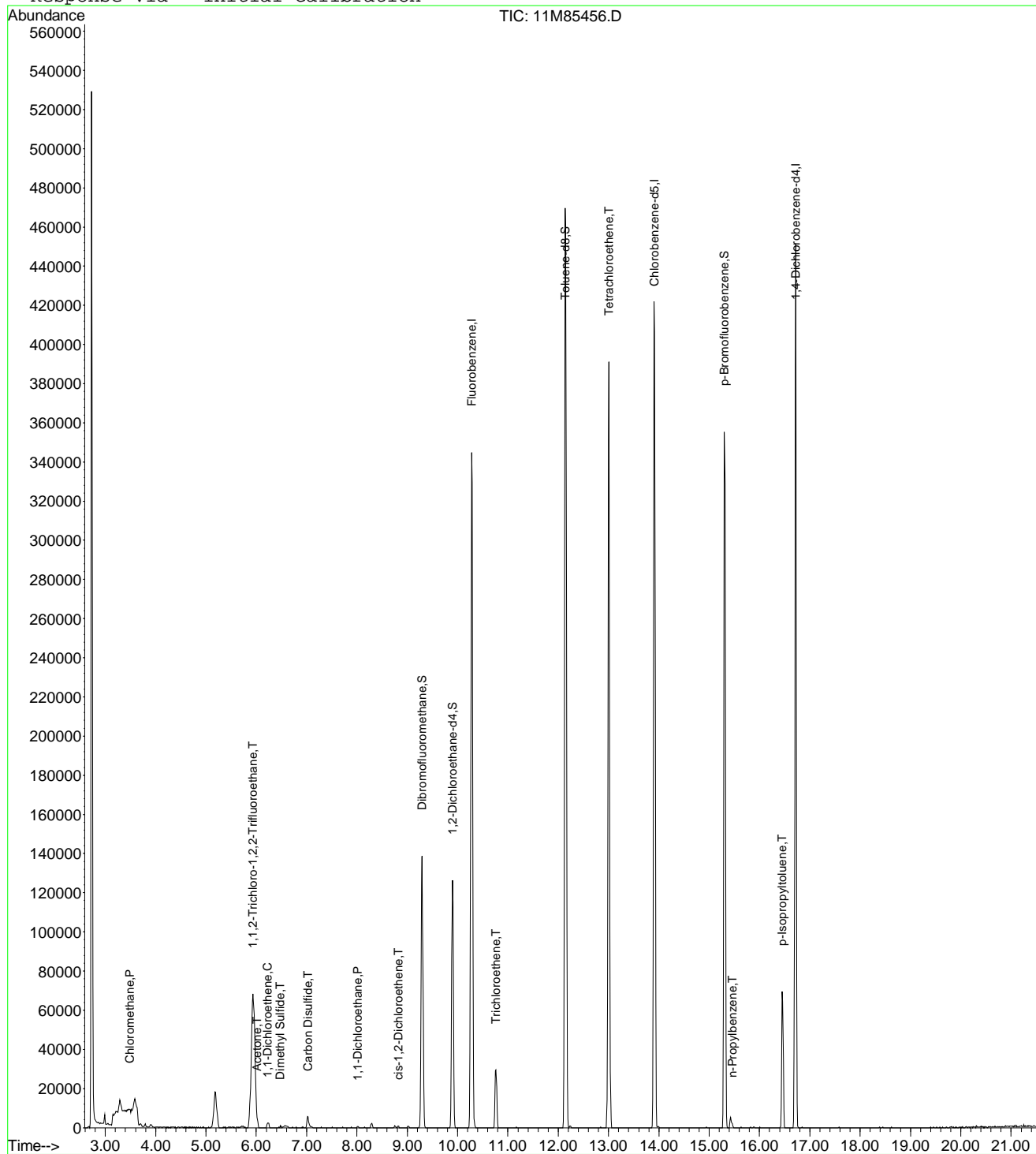
Quant Results File: 8260WTR.RES

Method : C:\MSDCHEM\1\METHODS\8260WTR.M (RTE Integrator)

Title : 8260B/624 (SOP: OVL MSV01) Water 05/03/12 HPMS11

Last Update : Fri Jul 13 11:24:02 2012

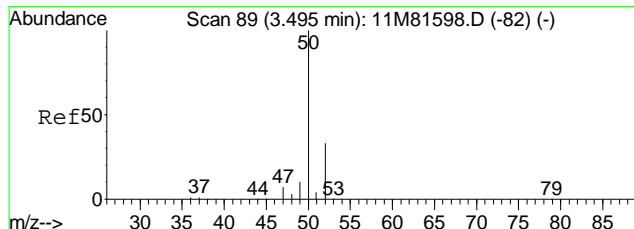
Response via : Initial Calibration



11M85456.D 8260WTR.M

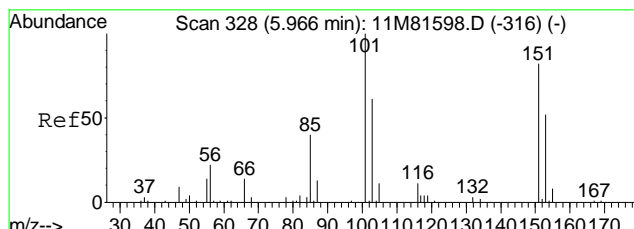
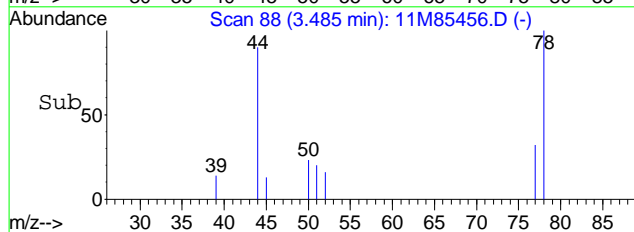
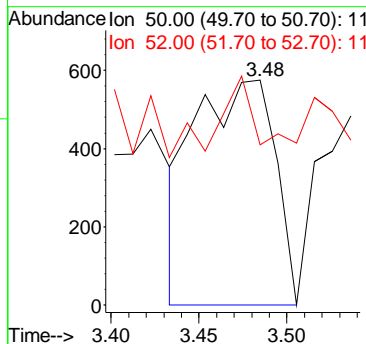
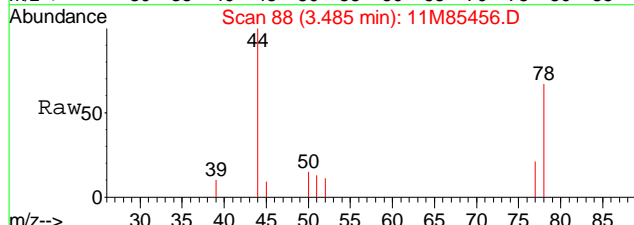
Mon Jul 23 08:41:05 2012

Page 2



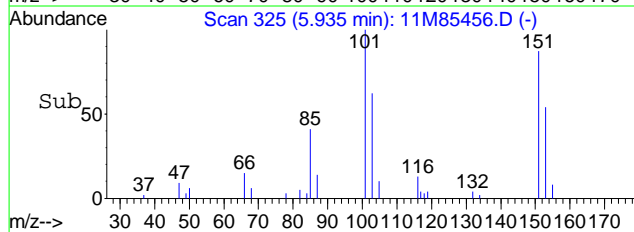
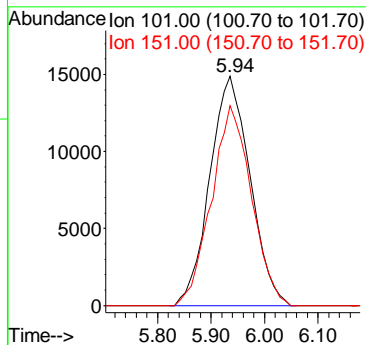
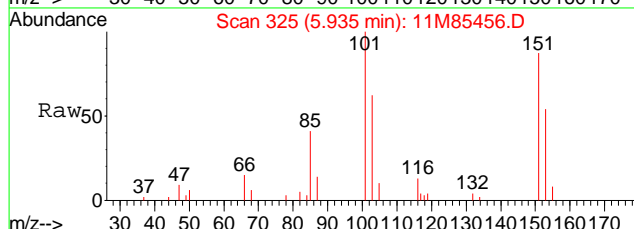
#3
 Chloromethane
 Concen: 0.19 ug/L
 RT: 3.48 min Scan# 88
 Delta R.T. 0.02 min
 Lab File: 11M85456.D
 Acq: 20 Jul 2012 23:13

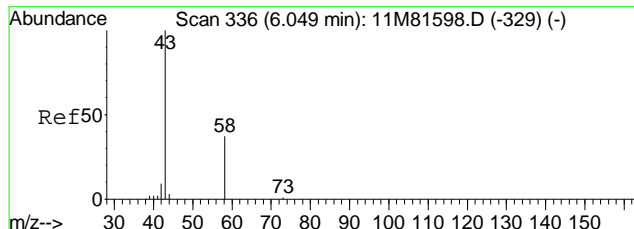
Tgt Ion	Ratio	Lower	Upper
50	100		
52	0.0	19.4	45.2#



#12
 1,1,2-Trichloro-1,2,2-Trifluoroethane
 Concen: 15.85 ug/L
 RT: 5.94 min Scan# 325
 Delta R.T. 0.01 min
 Lab File: 11M85456.D
 Acq: 20 Jul 2012 23:13

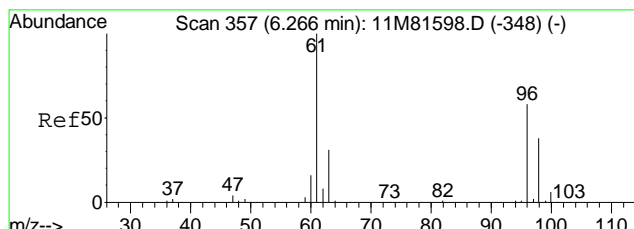
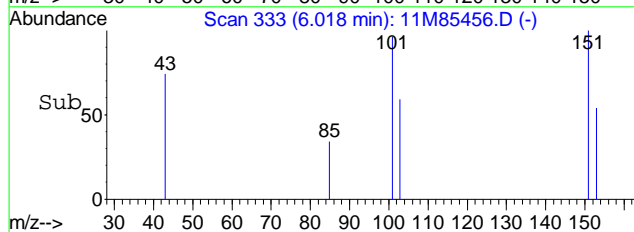
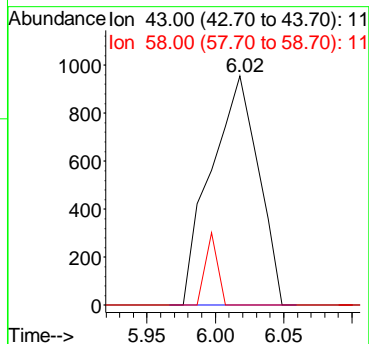
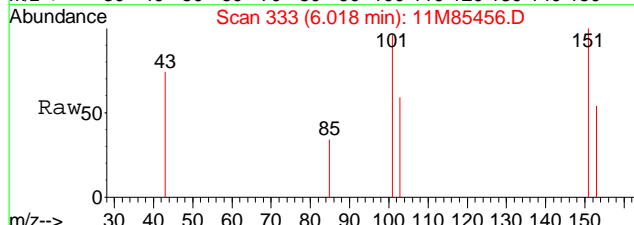
Tgt Ion	Ratio	Lower	Upper
101	100		
151	86.5	46.4	126.4





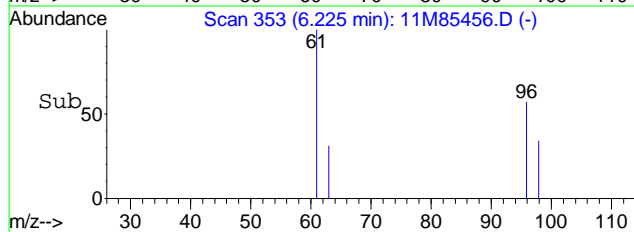
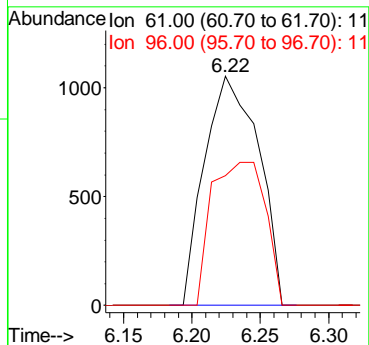
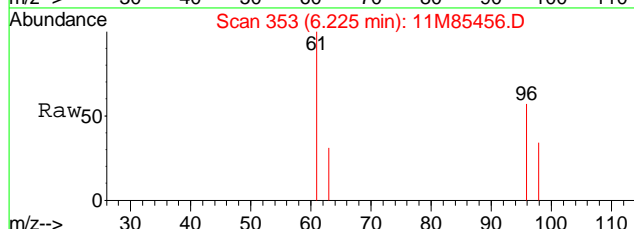
#13
 Acetone
 Concen: 2.03 ug/L
 RT: 6.02 min Scan# 333
 Delta R.T. -0.00 min
 Lab File: 11M85456.D
 Acq: 20 Jul 2012 23:13

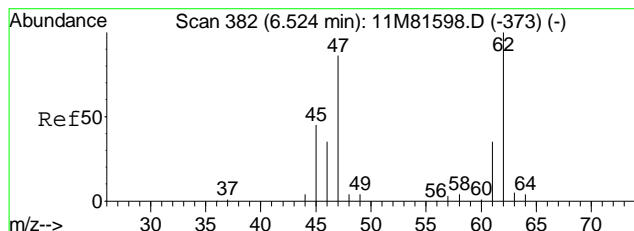
Tgt Ion	Ratio	Lower	Upper
43	100		
58	8.1	17.6	41.2#



#14
 1,1-Dichloroethene
 Concen: 0.43 ug/L
 RT: 6.22 min Scan# 353
 Delta R.T. -0.00 min
 Lab File: 11M85456.D
 Acq: 20 Jul 2012 23:13

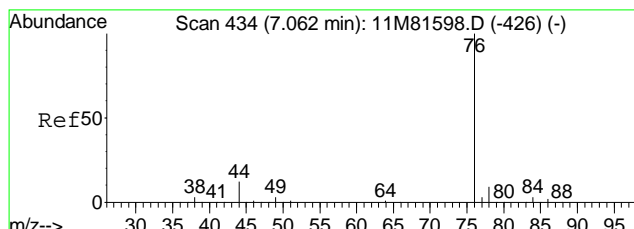
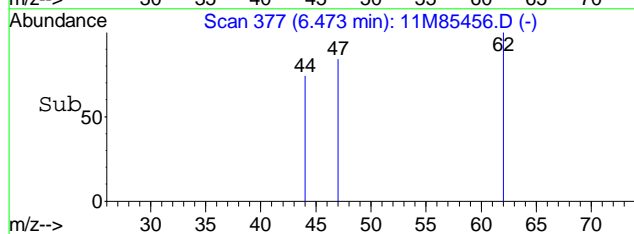
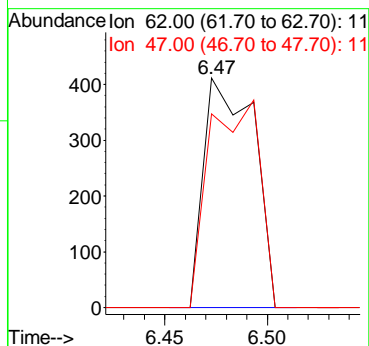
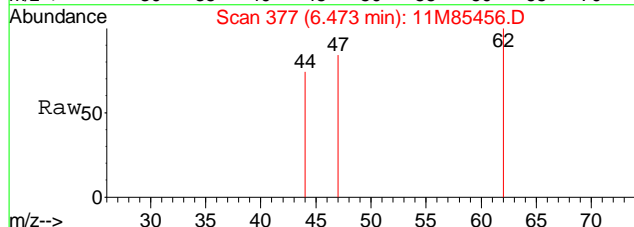
Tgt Ion	Ratio	Lower	Upper
61	100		
96	62.0	37.9	88.5





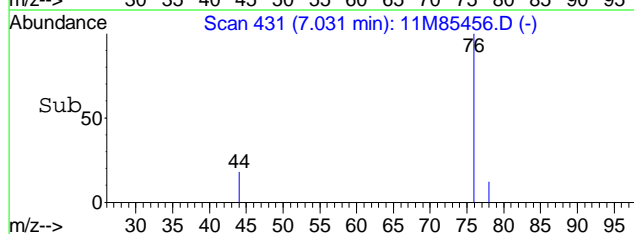
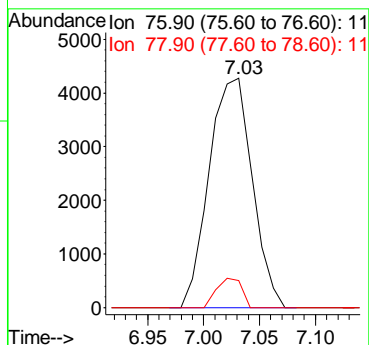
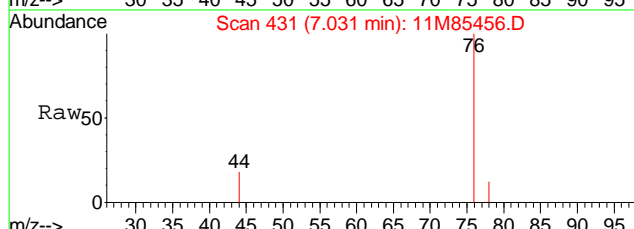
#16
 Dimethyl Sulfide
 Concen: 0.13 ug/L
 RT: 6.47 min Scan# 377
 Delta R.T. -0.01 min
 Lab File: 11M85456.D
 Acq: 20 Jul 2012 23:13

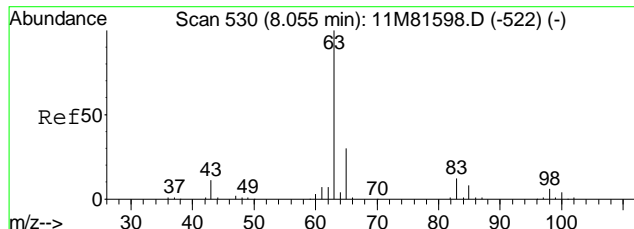
Tgt Ion	Resp	Lower	Upper
62	100		
47	91.8	55.7	129.9



#20
 Carbon Disulfide
 Concen: 0.85 ug/L
 RT: 7.03 min Scan# 431
 Delta R.T. 0.01 min
 Lab File: 11M85456.D
 Acq: 20 Jul 2012 23:13

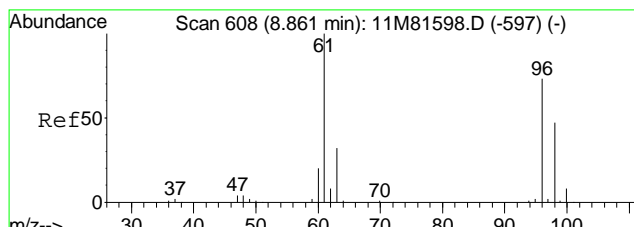
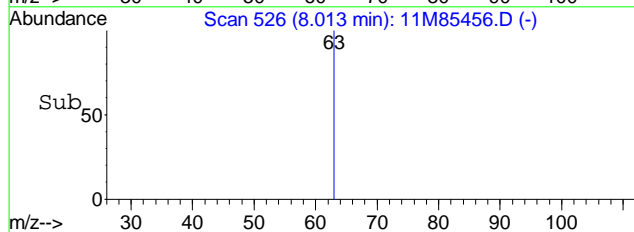
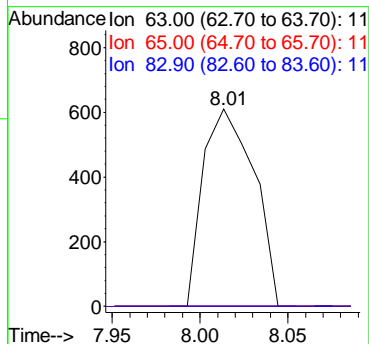
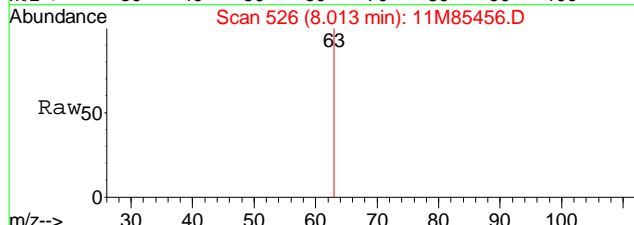
Tgt Ion	Resp	Lower	Upper
76	100		
78	7.4	5.3	12.5





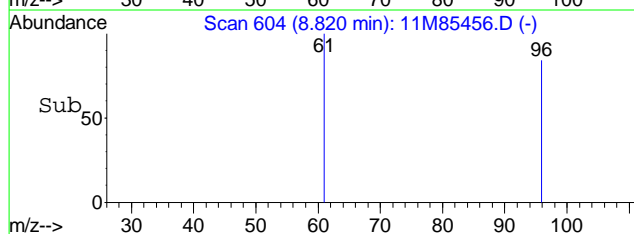
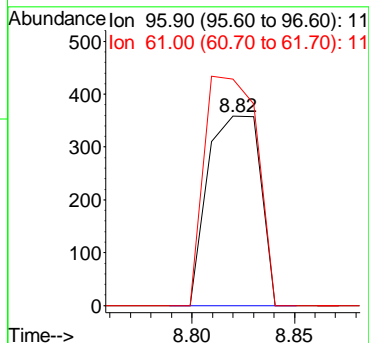
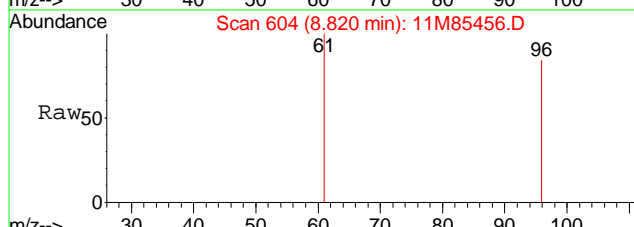
#27
 1,1-Dichloroethane
 Concen: 0.15 ug/L
 RT: 8.01 min Scan# 526
 Delta R.T. -0.00 min
 Lab File: 11M85456.D
 Acq: 20 Jul 2012 23:13

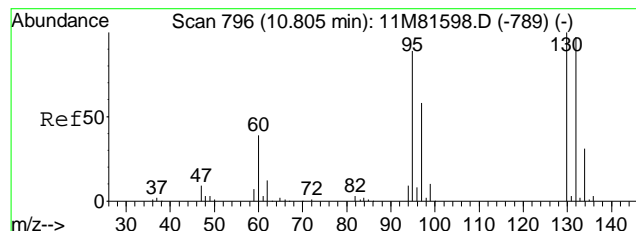
Tgt Ion	Resp	Lower	Upper
63	1227		
65	0.0	19.1	44.5#
83	0.0	8.6	20.2#



#32
 cis-1,2-Dichloroethene
 Concen: 0.12 ug/L
 RT: 8.82 min Scan# 604
 Delta R.T. -0.00 min
 Lab File: 11M85456.D
 Acq: 20 Jul 2012 23:13

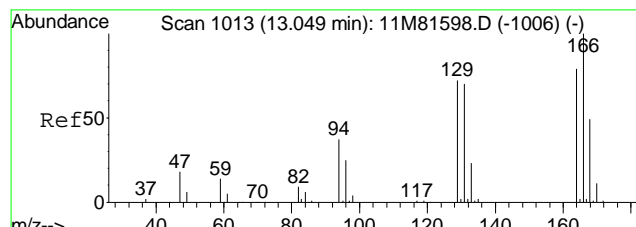
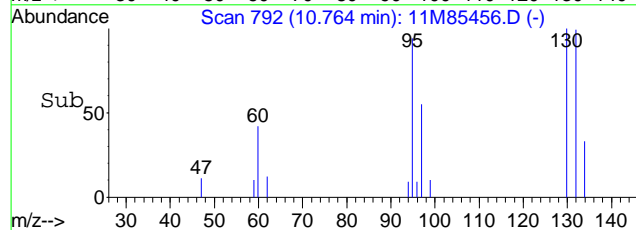
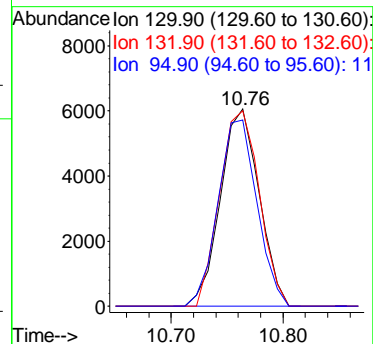
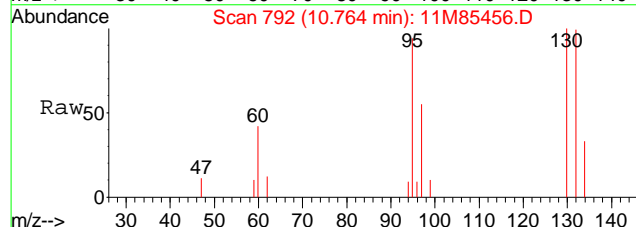
Tgt Ion	Resp	Lower	Upper
96	636		
96	100		
61	121.4	81.5	190.1





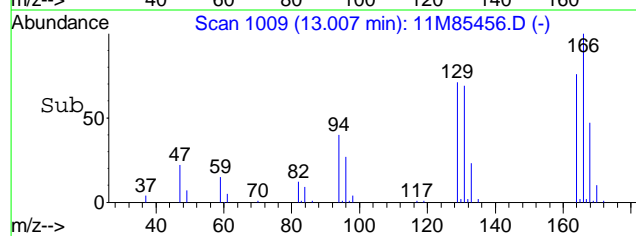
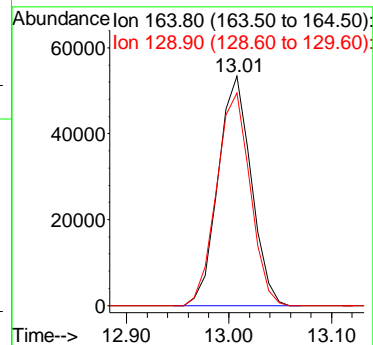
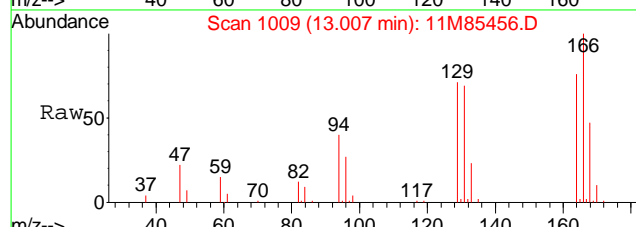
#47
 Trichloroethene
 Concen: 2.42 ug/L
 RT: 10.76 min Scan# 792
 Delta R.T. -0.00 min
 Lab File: 11M85456.D
 Acq: 20 Jul 2012 23:13

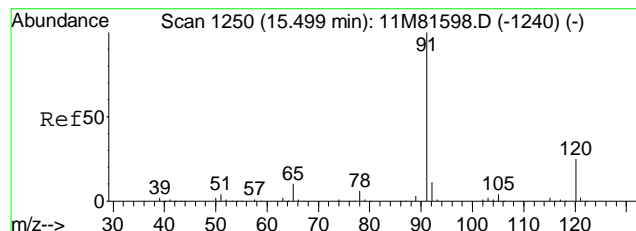
Tgt Ion	Resp	Lower	Upper
130	14582		
130	100		
132	101.5	58.1	135.7
95	95.1	53.2	124.0



#66
 Tetrachloroethene
 Concen: 30.13 ug/L
 RT: 13.01 min Scan# 1009
 Delta R.T. -0.00 min
 Lab File: 11M85456.D
 Acq: 20 Jul 2012 23:13

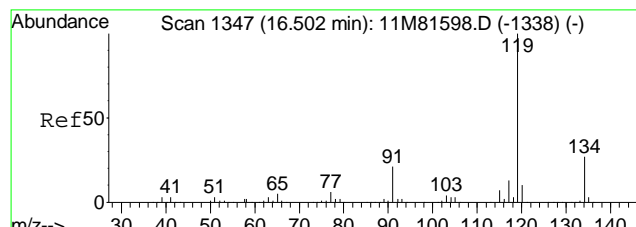
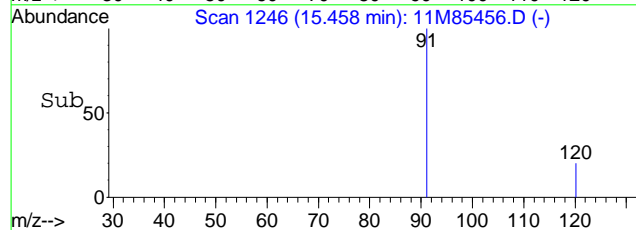
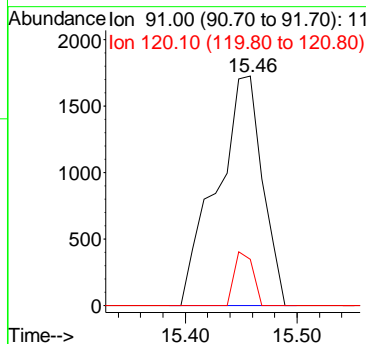
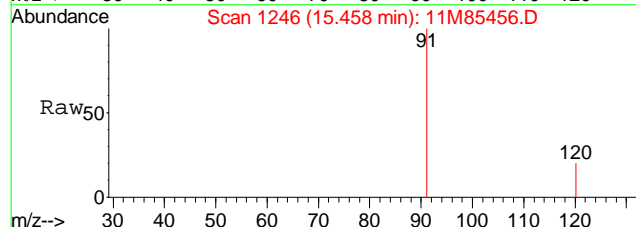
Tgt Ion	Resp	Lower	Upper
164	119681		
164	100		
129	94.0	56.8	132.4





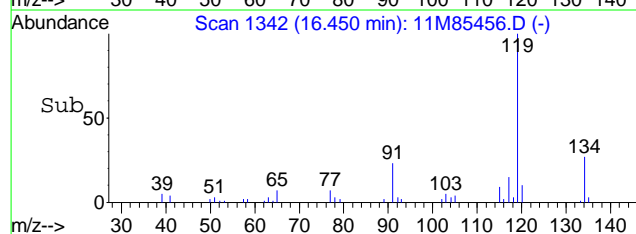
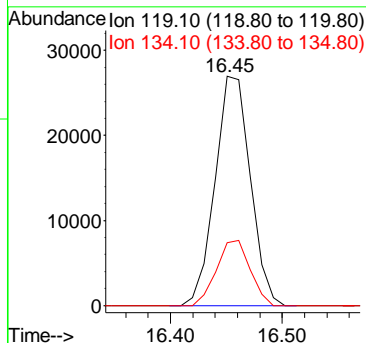
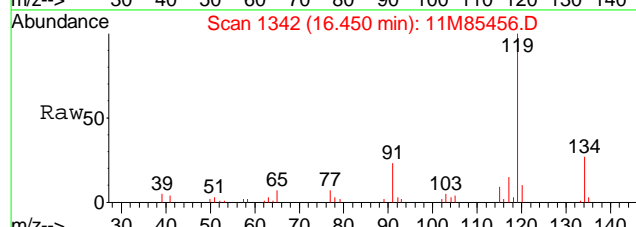
#83
 n-Propylbenzene
 Concen: 0.24 ug/L
 RT: 15.46 min Scan# 1246
 Delta R.T. -0.00 min
 Lab File: 11M85456.D
 Acq: 20 Jul 2012 23:13

Tgt Ion	Resp	Lower	Upper
91	4903	100	
120	9.5	14.7	34.3#



#92
 p-Isopropyltoluene
 Concen: 3.90 ug/L
 RT: 16.45 min Scan# 1342
 Delta R.T. -0.01 min
 Lab File: 11M85456.D
 Acq: 20 Jul 2012 23:13

Tgt Ion	Resp	Lower	Upper
119	59186	100	
134	27.0	16.1	37.7



Data File : C:\MSDCHEM\1\DATA\072512\8M381052.D Vial: 17
 Acq On : 25 Jul 2012 17:35 Operator: adc
 Sample : L12070658-02 B 826-SPE Inst : HPMS8
 Misc : 1,1 Multiplr: 1.00
 MS Integration Params: RTEINT.P
 Quant Time: Jul 29 19:09:18 2012 Quant Results File: 8260WTR.RES

Quant Method : C:\MSDCHEM\1\METHODS\8260WTR.M (RTE Integrator)
 Title : Method 8260B/624 WTR-SOP:OVLMSV01 06/28/12 HPMS 8
 Last Update : Fri Jun 29 09:29:43 2012
 Response via : Initial Calibration
 DataAcq Meth : 8260WTR

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene	10.17	96	581212	25.00	ug/L	0.00
57) Chlorobenzene-d5	14.03	117	506093	25.00	ug/L	0.00
78) 1,4-Dichlorobenzene-d4	17.04	152	284534	25.00	ug/L	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
37) Dibromofluoromethane	9.13	111	151091	24.1731	ug/L	0.00
Spiked Amount 25.000	Range	86 - 118	Recovery	=	96.68%	
43) 1,2-Dichloroethane-d4	9.76	65	119985	20.5987	ug/L	0.00
Spiked Amount 25.000	Range	80 - 120	Recovery	=	82.40%	
58) Toluene-d8	12.16	98	562603	24.3302	ug/L	0.00
Spiked Amount 25.000	Range	88 - 110	Recovery	=	97.32%	
80) p-Bromofluorobenzene	15.53	95	238903	25.2926	ug/L	0.00
Spiked Amount 25.000	Range	86 - 115	Recovery	=	101.16%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
12) 1,1,2-Trichloro-1,2,2-Trif	5.67	101	115584	18.3784	ug/L	99
14) 1,1-Dichloroethene	5.94	61	10537	1.0089	ug/L	89
20) Carbon Disulfide	6.73	76	2395	0.1350	ug/L #	75
27) 1,1-Dichloroethane	7.81	63	3038	0.2459	ug/L #	69
32) cis-1,2-Dichloroethene	8.63	96	1820	0.2705	ug/L	80
47) Trichloroethene	10.69	130	24011	3.0723	ug/L	98
56) Dimethyl Disulfide	12.16	94	15128	2.0514	ug/L #	27
59) Toluene	12.25	91	8545	0.2901	ug/L	89
66) Tetrachloroethene	13.08	164	299757	41.7904	ug/L	97

(#) = qualifier out of range (m) = manual integration
 8M381052.D 8260WTR.M Sun Jul 29 19:09:19 2012

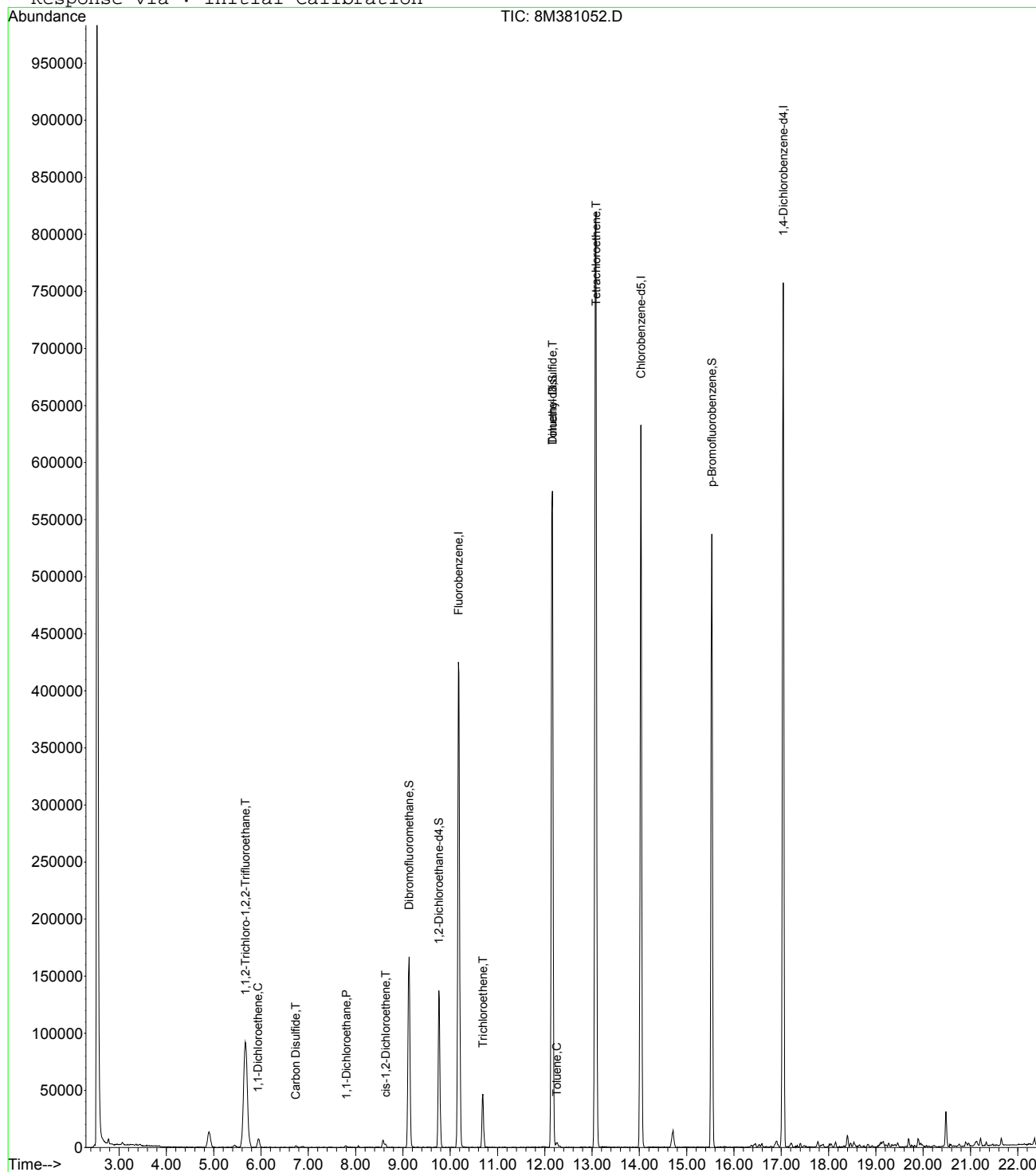
Page 1

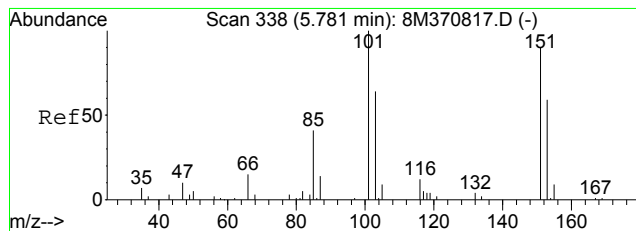
Data File : C:\MSDCHEM\1\DATA\072512\8M381052.D
 Acq On : 25 Jul 2012 17:35
 Sample : L12070658-02 B 826-SPE
 Misc : 1,1
 MS Integration Params: RTEINT.P
 Quant Time: Jul 29 19:09 2012

Vial: 17
 Operator: adc
 Inst : HPMS8
 Multiplr: 1.00

Quant Results File: 8260WTR.RES

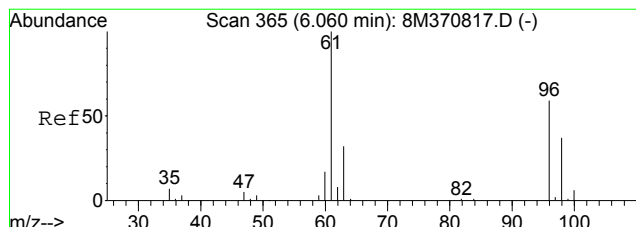
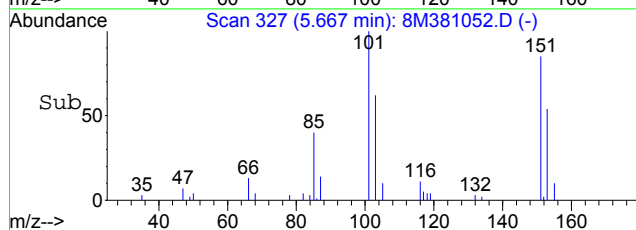
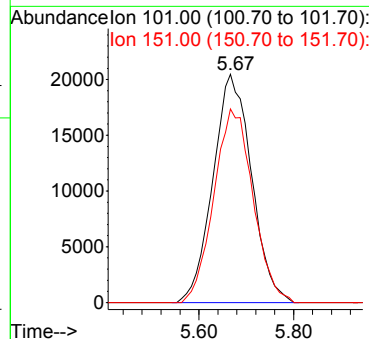
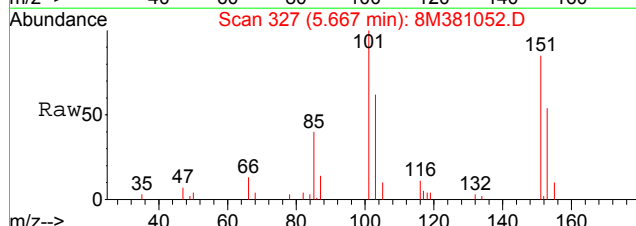
Method : C:\MSDCHEM\1\METHODS\8260WTR.M (RTE Integrator)
 Title : Method 8260B/624 WTR-SOP:OVLMSV01 06/28/12 HPMS 8
 Last Update : Fri Jun 29 09:29:43 2012
 Response via : Initial Calibration





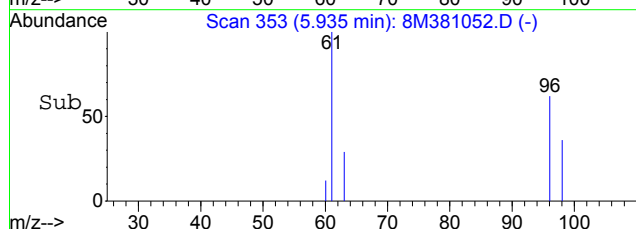
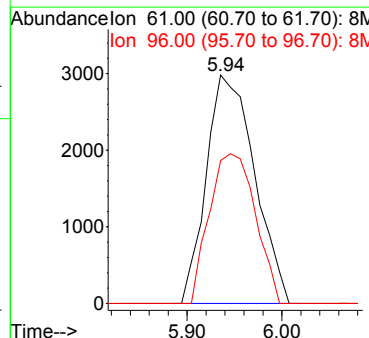
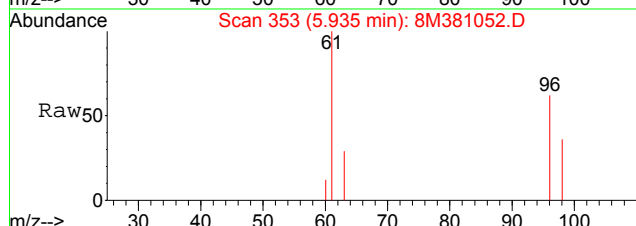
#12
 1,1,2-Trichloro-1,2,2-Trifluoroethane
 Concen: 18.38 ug/L
 RT: 5.67 min Scan# 327
 Delta R.T. 0.00 min
 Lab File: 8M381052.D
 Acq: 25 Jul 2012 17:35

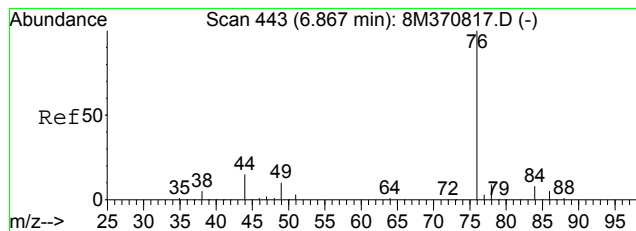
Tgt Ion:101 Resp: 115584
 Ion Ratio Lower Upper
 101 100
 151 85.8 46.3 126.3



#14
 1,1-Dichloroethene
 Concen: 1.01 ug/L
 RT: 5.94 min Scan# 353
 Delta R.T. -0.01 min
 Lab File: 8M381052.D
 Acq: 25 Jul 2012 17:35

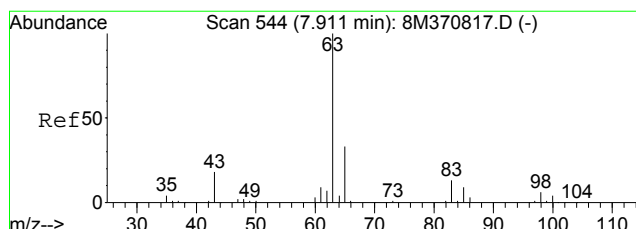
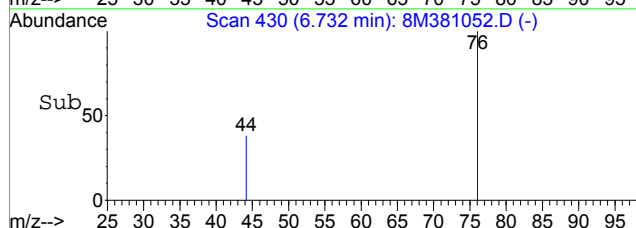
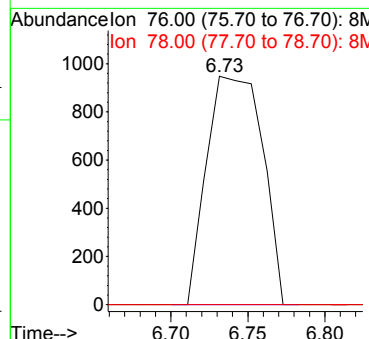
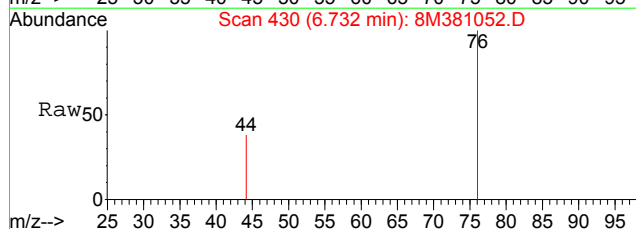
Tgt Ion: 61 Resp: 10537
 Ion Ratio Lower Upper
 61 100
 96 62.6 32.8 76.4





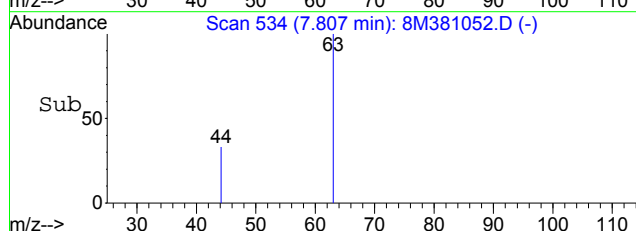
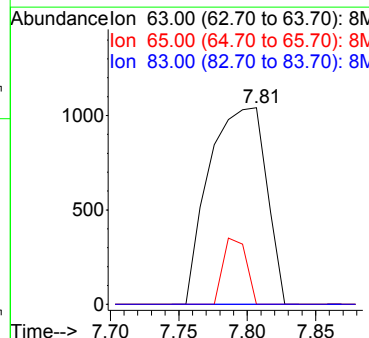
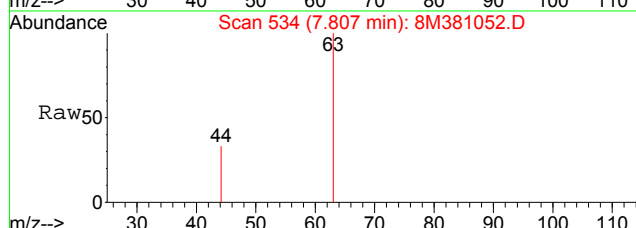
#20
Carbon Disulfide
Concen: 0.13 ug/L
RT: 6.73 min Scan# 430
Delta R.T. -0.01 min
Lab File: 8M381052.D
Acq: 25 Jul 2012 17:35

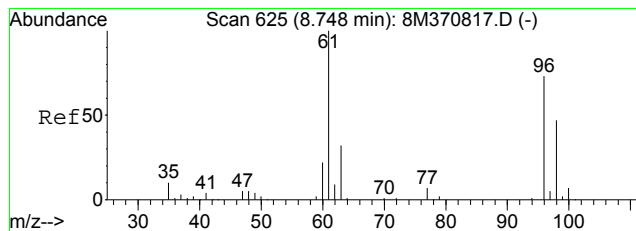
Tgt Ion: 76 Resp: 2395
Ion Ratio Lower Upper
76 100
78 0.0 5.5 12.9#



#27
1,1-Dichloroethane
Concen: 0.25 ug/L
RT: 7.81 min Scan# 534
Delta R.T. 0.01 min
Lab File: 8M381052.D
Acq: 25 Jul 2012 17:35

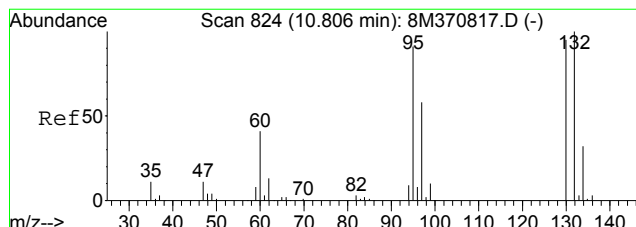
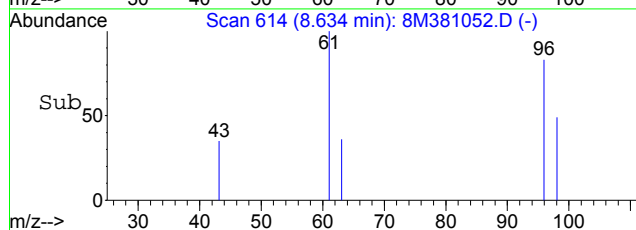
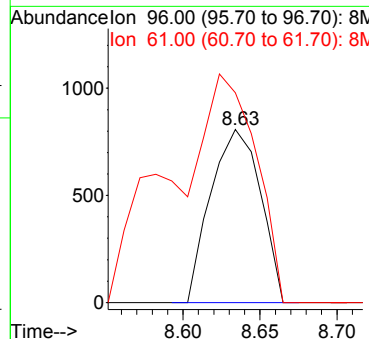
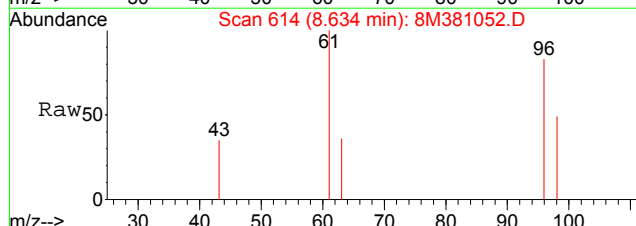
Tgt Ion: 63 Resp: 3038
Ion Ratio Lower Upper
63 100
65 13.7 18.1 42.3#
83 0.0 7.4 17.2#





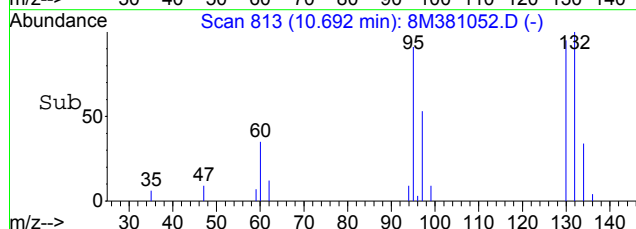
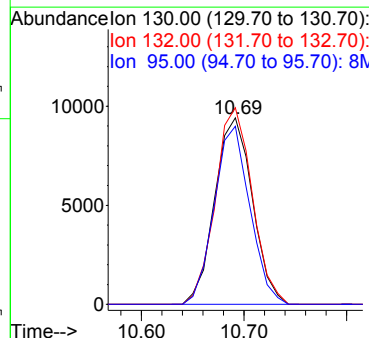
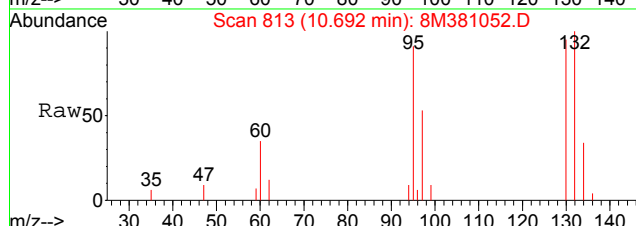
#32
 cis-1,2-Dichloroethene
 Concen: 0.27 ug/L
 RT: 8.63 min Scan# 614
 Delta R.T. 0.00 min
 Lab File: 8M381052.D
 Acq: 25 Jul 2012 17:35

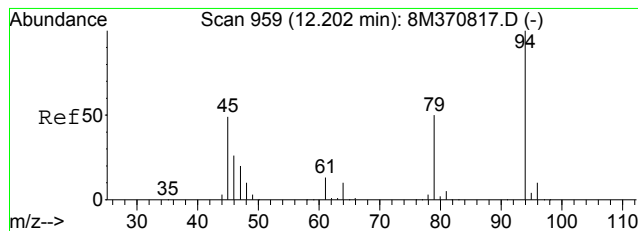
Tgt Ion: 96 Resp: 1820
 Ion Ratio Lower Upper
 96 100
 61 139.5 99.7 232.5



#47
 Trichloroethene
 Concen: 3.07 ug/L
 RT: 10.69 min Scan# 813
 Delta R.T. 0.00 min
 Lab File: 8M381052.D
 Acq: 25 Jul 2012 17:35

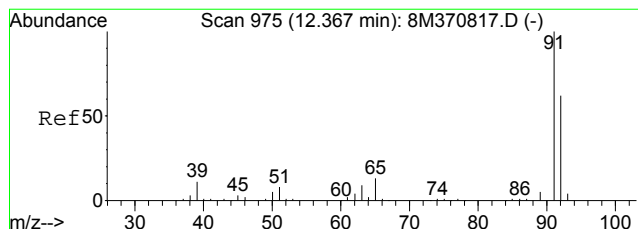
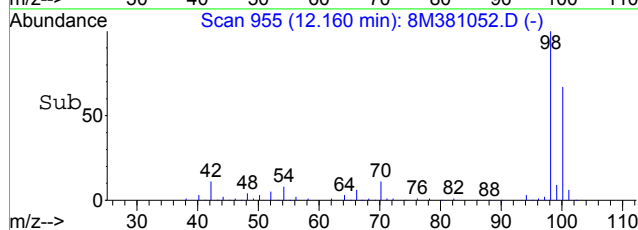
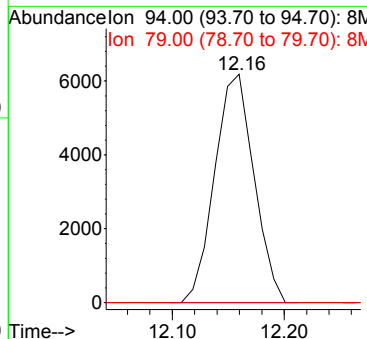
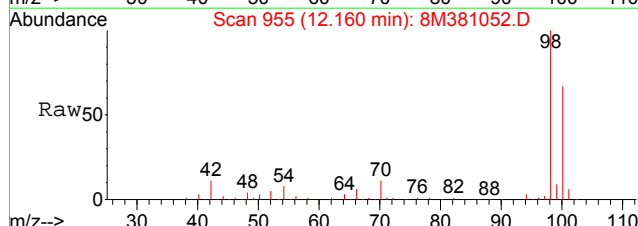
Tgt Ion: 130 Resp: 24011
 Ion Ratio Lower Upper
 130 100
 132 103.1 63.0 147.0
 95 90.3 55.1 128.5





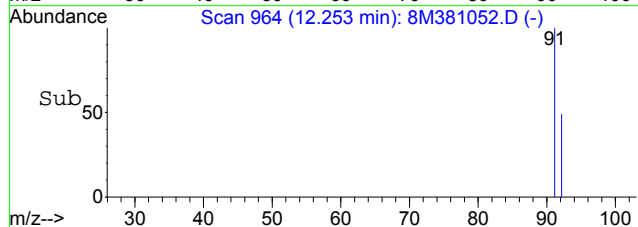
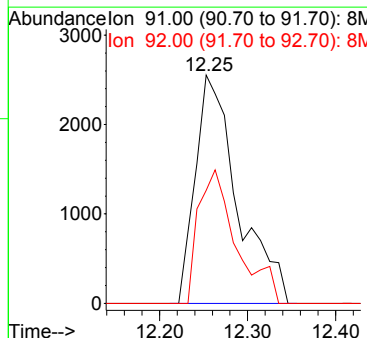
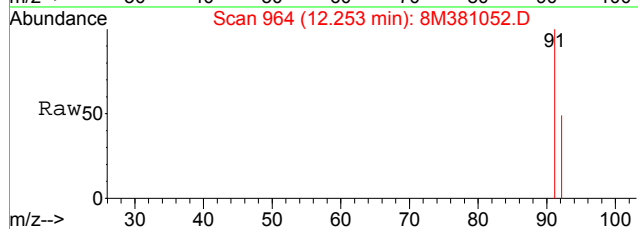
#56
 Dimethyl Disulfide
 Concen: 2.05 ug/L
 RT: 12.16 min Scan# 955
 Delta R.T. 0.07 min
 Lab File: 8M381052.D
 Acq: 25 Jul 2012 17:35

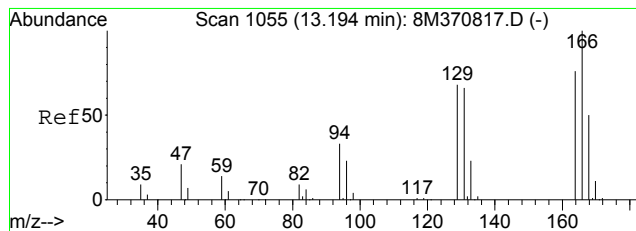
Tgt Ion: 94 Resp: 15128
 Ion Ratio Lower Upper
 94 100
 79 0.0 30.6 71.4#



#59
 Toluene
 Concen: 0.29 ug/L
 RT: 12.25 min Scan# 964
 Delta R.T. 0.00 min
 Lab File: 8M381052.D
 Acq: 25 Jul 2012 17:35

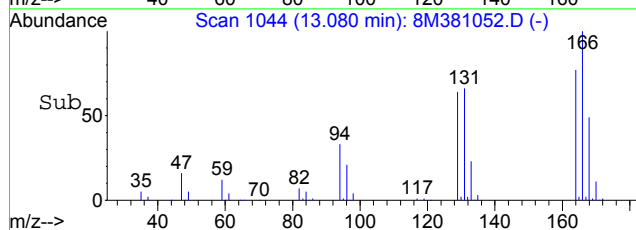
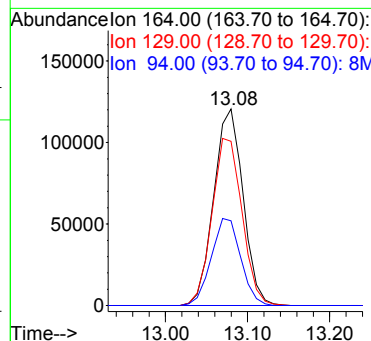
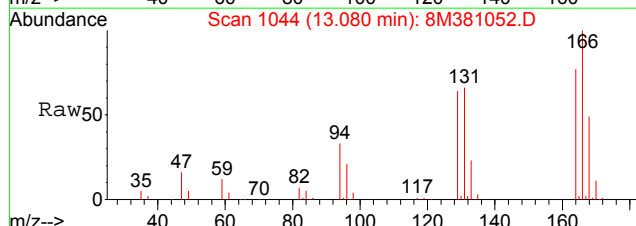
Tgt Ion: 91 Resp: 8545
 Ion Ratio Lower Upper
 91 100
 92 52.4 36.6 85.4





#66
 Tetrachloroethene
 Concen: 41.79 ug/L
 RT: 13.08 min Scan# 1044
 Delta R.T. 0.00 min
 Lab File: 8M381052.D
 Acq: 25 Jul 2012 17:35

Tgt Ion	Ratio	Lower	Upper
164	100		
129	87.0	51.8	121.0
94	44.5	29.9	69.9



Data File : C:\MSDCHEM\1\data\072512\8M381043.D Vial: 8
 Acq On : 25 Jul 2012 13:04 Operator: adc
 Sample : L12070658-03 B MS 826-SPE Inst : HPMS8
 Misc : 1,1 Multiplr: 1.00

MS Integration Params: RTEINT.P

Quant Time: Jul 25 13:27:25 2012

Quant Results File: 8260WTR.RES

Quant Method : C:\MSDCHEM\1\METHODS\8260WTR.M (RTE Integrator)
 Title : Method 8260B/624 WTR-SOP:OVLMSV01 06/28/12 HPMS 8
 Last Update : Fri Jun 29 09:29:43 2012
 Response via : Initial Calibration
 DataAcq Meth : 8260WTR

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene	10.18	96	586583	25.00	ug/L	0.00
57) Chlorobenzene-d5	14.03	117	499205	25.00	ug/L	0.00
78) 1,4-Dichlorobenzene-d4	17.04	152	279125	25.00	ug/L	0.00

System Monitoring Compounds

37) Dibromofluoromethane	9.13	111	156735	24.8464	ug/L	0.00
Spiked Amount	25.000	Range	86 - 118	Recovery	=	99.40%
43) 1,2-Dichloroethane-d4	9.77	65	120615	20.5172	ug/L	0.00
Spiked Amount	25.000	Range	80 - 120	Recovery	=	82.08%
58) Toluene-d8	12.16	98	560175	24.5595	ug/L	0.00
Spiked Amount	25.000	Range	88 - 110	Recovery	=	98.24%
80) p-Bromofluorobenzene	15.53	95	236441	25.5170	ug/L	0.00
Spiked Amount	25.000	Range	86 - 115	Recovery	=	102.08%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	2.82	85	183783	22.0700	ug/L	100
3) Chloromethane	3.22	50	161545	14.4898	ug/L	98
4) Vinyl Chloride	3.42	62	113784	18.3374	ug/L	100
5) 1,3-Butadiene	3.46	54	38751	6.8914	ug/L	99
6) Bromomethane	4.25	94	102661	19.8015	ug/L	99
7) Chloroethane	4.39	64	98851	18.6620	ug/L	95
8) Trichlorofluoromethane	4.89	101	217079	17.5991	ug/L	99
10) Isoprene	5.44	67	182398	19.7719	ug/L	92
12) 1,1,2-Trichloro-1,2,2-Trif	5.66	101	228755	36.0401	ug/L	100
13) Acetone	5.72	43	18755	18.6283	ug/L	86
14) 1,1-Dichloroethene	5.94	61	208571	19.7874	ug/L	91
16) Dimethyl Sulfide	6.20	62	147524	19.1272	ug/L	88
17) Iodomethane	6.44	142	157826	20.3488	ug/L	93
18) Methyl acetate	6.47	43	59693	14.4660	ug/L	95
19) Methylene Chloride	6.71	84	121780	18.6910	ug/L	84
20) Carbon Disulfide	6.74	76	381405	21.3000	ug/L	99
21) Acrylonitrile	6.88	53	27786	19.8908	ug/L	97
22) Methyl Tert Butyl Ether	6.96	73	231160	20.4638	ug/L	99
23) trans-1,2-Dichloroethene	7.18	61	189549	19.1562	ug/L	91
24) n-Hexane	7.30	57	147588	17.0932	ug/L	94
26) Vinyl Acetate	7.77	43	152934	32.5393	ug/L	96
27) 1,1-Dichloroethane	7.79	63	247440	19.8466	ug/L	100
29) 2-Butanone	8.35	43	26760	17.7767	ug/L	96
31) 2,2-Dichloropropane	8.58	77	192593	18.7492	ug/L	99
32) cis-1,2-Dichloroethene	8.63	96	144711	21.3126	ug/L	89
33) Chloroform	8.85	83	213948	19.0109	ug/L	99
34) 1-Bromopropane	8.98	122	34149	29.2481	ug/L	99
35) Bromochloromethane	9.07	130	85635	21.4134	ug/L	92
38) 1,1,1-Trichloroethane	9.39	97	196779	18.1836	ug/L	99
39) Cyclohexane	9.43	56	216195	18.8003	ug/L	98
40) 1,1-Dichloropropene	9.58	75	170518	18.9670	ug/L	95
42) Carbon Tetrachloride	9.73	117	195195	18.9330	ug/L	99
45) 1,2-Dichloroethane	9.88	62	133429	16.9613	ug/L	99
46) Benzene	9.92	78	507897	19.9602	ug/L	94
47) Trichloroethene	10.69	130	171876	21.7911	ug/L	99
48) Methylcyclohexane	10.79	83	156374	17.6754	ug/L	96
49) 1,2-Dichloropropane	10.90	63	134320	19.4601	ug/L	95
50) Bromodichloromethane	11.19	83	155799	19.4150	ug/L	100
52) Dibromomethane	11.26	93	60333	19.8919	ug/L	98
53) 2-Chloroethyl Vinyl Ether	11.51	63	395	0.5686	ug/L #	51
54) 4-Methyl-2-Pentanone	11.54	58	23766	18.3431	ug/L	99

(#) = qualifier out of range (m) = manual integration
 8M381043.D 8260WTR.M Wed Jul 25 13:27:54 2012

Page 1

Data File : C:\MSDCHEM\1\data\072512\8M381043.D Vial: 8
 Acq On : 25 Jul 2012 13:04 Operator: adc
 Sample : L12070658-03 B MS 826-SPE Inst : HPMS8
 Misc : 1,1 Multiplr: 1.00

MS Integration Params: RTEINT.P

Quant Time: Jul 25 13:27:25 2012

Quant Results File: 8260WTR.RES

Quant Method : C:\MSDCHEM\1\METHODS\8260WTR.M (RTE Integrator)
 Title : Method 8260B/624 WTR-SOP:OVLMSV01 06/28/12 HPMS 8
 Last Update : Fri Jun 29 09:29:43 2012
 Response via : Initial Calibration
 DataAcq Meth : 8260WTR

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
55) cis-1,3-Dichloropropene	11.83	75	184388	21.0803	ug/L	98
56) Dimethyl Disulfide	12.08	94	202559	18.2960	ug/L	97
59) Toluene	12.25	91	547594	18.8503	ug/L	100
60) Ethyl Methacrylate	12.37	69	100560	20.9182	ug/L	85
62) trans-1,3-Dichloropropene	12.43	75	140480	18.3797	ug/L	99
63) 1,1,2-Trichloroethane	12.64	97	84184	20.3852	ug/L	100
64) 2-Hexanone	12.60	58	23423	19.9754	ug/L	94
65) 1,3-Dichloropropane	12.94	76	144365	19.8599	ug/L	84
66) Tetrachloroethene	13.08	164	383009	54.1337	ug/L	97
67) Dibromochloromethane	13.32	129	119400	19.5702	ug/L	99
68) 1,2-Dibromoethane	13.56	107	90012	20.5879	ug/L	99
69) 1-Chlorohexane	13.70	91	166019	18.0397	ug/L	93
70) Chlorobenzene	14.08	112	372815	18.6870	ug/L	96
71) 1,1,1,2-Tetrachloroethane	14.12	131	145569	19.1880	ug/L	99
72) Ethylbenzene	14.12	106	211987	18.3150	ug/L	99
73) m-,p-Xylene	14.21	106	518897	36.8601	ug/L	99
74) o-Xylene	14.77	106	255557	18.4363	ug/L	98
75) Styrene	14.80	104	429296	19.0711	ug/L	94
76) Bromoform	15.26	173	73737	19.4553	ug/L	99
77) Isopropylbenzene	15.20	105	533914	15.4735	ug/L	99
79) 1,1,2,2-Tetrachloroethane	15.40	83	88938	21.3939	ug/L	96
81) 1,2,3-Trichloropropane	15.59	110	27013	20.5425	ug/L	95
82) trans-1,4-Dichloro-2-Buten	15.64	53	21075	16.0634	ug/L	75
83) n-Propylbenzene	15.70	91	678197	18.0070	ug/L	99
84) Bromobenzene	15.81	156	171946	19.3832	ug/L	95
85) 1,3,5-Trimethylbenzene	15.89	105	504016	17.5119	ug/L	99
86) 2-Chlorotoluene	15.96	91	445032	18.4286	ug/L	99
87) 4-Chlorotoluene	16.01	91	428851	17.3233	ug/L	99
88) a-Methylstyrene	16.28	118	317371	19.4309	ug/L	99
89) tert-Butylbenzene	16.35	134	105197	16.2964	ug/L	98
90) 1,2,4-Trimethylbenzene	16.41	105	536341	18.1733	ug/L	100
91) sec-Butylbenzene	16.62	105	541706	16.1737	ug/L	99
92) p-Isopropyltoluene	16.78	119	484856	16.5284	ug/L	99
93) 1,3-Dichlorobenzene	16.95	146	322250	18.1454	ug/L	98
94) 1,4-Dichlorobenzene	17.08	146	319824	17.2935	ug/L	99
95) n-Butylbenzene	17.31	91	395650	15.8208	ug/L	99
96) 1,2-Dichlorobenzene	17.56	146	289712	18.1324	ug/L	99
97) 1,2-Dibromo-3-Chloropropan	18.55	75	13656	18.1234	ug/L	81
98) 1,2,4-Trichlorobenzene	19.69	180	182854	16.5700	ug/L	100
99) Hexachlorobutadiene	19.86	225	72729	15.1992	ug/L	99
100) Naphthalene	20.05	128	340338	19.9277	ug/L	99
101) 1,2,3-Trichlorobenzene	20.37	180	157152	16.4880	ug/L	99

(#) = qualifier out of range (m) = manual integration
 8M381043.D 8260WTR.M Wed Jul 25 13:28:00 2012

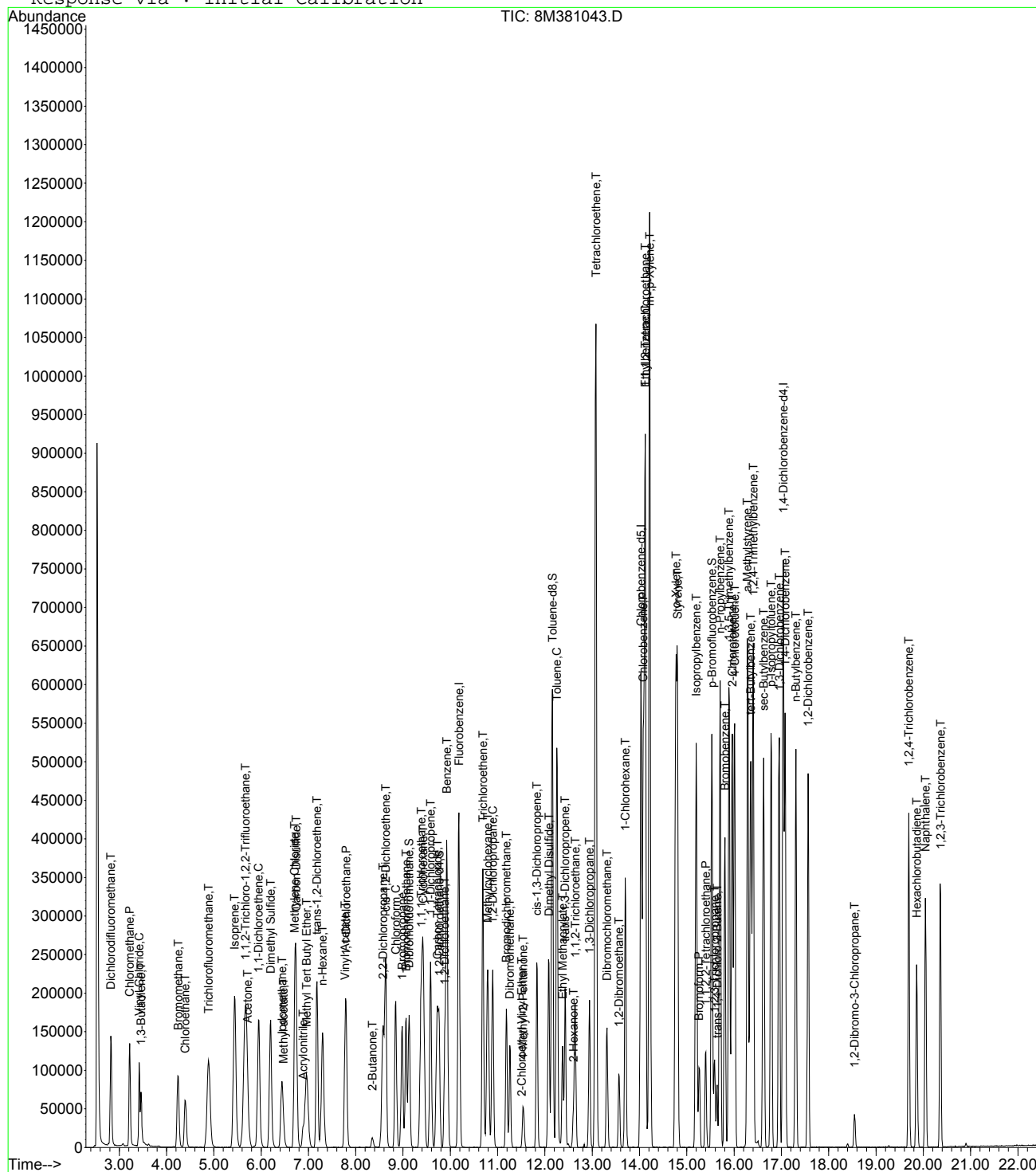
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Data File : C:\MSDchem\1\data\072512\8M381043.D
Acq On : 25 Jul 2012 13:04
Sample : L12070658-03 B MS 826-SPE
Misc : 1,1
MS Integration Params: RTEINT.P
Quant Time: Jul 25 13:27 2012

Vial: 8
Operator: adc
Inst : HPMS8
Multiplr: 1.00

Quant Results File: 8260WTR.RES

Method : C:\MSDCHEM\1\METHODS\8260WTR.M (RTE Integrator)
Title : Method 8260B/624 WTR-SOP:OVLMSV01 06/28/12 HPMS 8
Last Update : Fri Jun 29 09:29:43 2012
Response via : Initial Calibration



Data File : C:\MSDCHEM\1\data\072512\8M381044.D Vial: 9
 Acq On : 25 Jul 2012 13:34 Operator: adc
 Sample : L12070658-04 B MSD 826-SPE Inst : HPMS8
 Misc : 1,1 Multiplr: 1.00

MS Integration Params: RTEINT.P

Quant Time: Jul 25 13:57:25 2012

Quant Results File: 8260WTR.RES

Quant Method : C:\MSDCHEM\1\METHODS\8260WTR.M (RTE Integrator)
 Title : Method 8260B/624 WTR-SOP:OVLMSV01 06/28/12 HPMS 8
 Last Update : Fri Jun 29 09:29:43 2012
 Response via : Initial Calibration
 DataAcq Meth : 8260WTR

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene	10.18	96	581508	25.00	ug/L	0.00
57) Chlorobenzene-d5	14.03	117	497690	25.00	ug/L	0.00
78) 1,4-Dichlorobenzene-d4	17.04	152	277062	25.00	ug/L	0.00

System Monitoring Compounds

37) Dibromofluoromethane	9.13	111	157127	25.1260	ug/L	0.00
Spiked Amount	25.000	Range	86 - 118	Recovery	=	100.52%
43) 1,2-Dichloroethane-d4	9.76	65	122218	20.9714	ug/L	-0.01
Spiked Amount	25.000	Range	80 - 120	Recovery	=	83.88%
58) Toluene-d8	12.16	98	561872	24.7089	ug/L	0.00
Spiked Amount	25.000	Range	88 - 110	Recovery	=	98.84%
80) p-Bromofluorobenzene	15.53	95	230926	25.1074	ug/L	0.00
Spiked Amount	25.000	Range	86 - 115	Recovery	=	100.44%

Target Compounds

	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	2.82	85	185759	22.5020	ug/L	99
3) Chloromethane	3.23	50	161620	14.6230	ug/L	97
4) Vinyl Chloride	3.42	62	116474	18.9669	ug/L	99
5) 1,3-Butadiene	3.46	54	38248	6.7976	ug/L	99
6) Bromomethane	4.24	94	104067	20.2479	ug/L	99
7) Chloroethane	4.39	64	99540	18.9561	ug/L	96
8) Trichlorofluoromethane	4.89	101	219155	17.9225	ug/L	99
10) Isoprene	5.44	67	182098	19.9117	ug/L	90
12) 1,1,2-Trichloro-1,2,2-Trif	5.67	101	229182	36.4225	ug/L	100
13) Acetone	5.71	43	18448	18.4832	ug/L	87
14) 1,1-Dichloroethene	5.94	61	206876	19.7979	ug/L	89
16) Dimethyl Sulfide	6.19	62	143975	18.8300	ug/L	89
17) Iodomethane	6.43	142	157132	20.4312	ug/L	92
18) Methyl acetate	6.47	43	57726	14.1114	ug/L	93
19) Methylene Chloride	6.71	84	120991	18.7320	ug/L	86
20) Carbon Disulfide	6.74	76	377733	21.2790	ug/L	99
21) Acrylonitrile	6.89	53	27806	20.0788	ug/L	93
22) Methyl Tert Butyl Ether	6.96	73	225098	20.1010	ug/L	100
23) trans-1,2-Dichloroethene	7.18	61	194106	19.7879	ug/L	93
24) n-Hexane	7.30	57	147864	17.2746	ug/L	94
26) Vinyl Acetate	7.77	43	151424	32.5013	ug/L	97
27) 1,1-Dichloroethane	7.80	63	249798	20.2106	ug/L	100
29) 2-Butanone	8.35	43	26184	17.5458	ug/L	98
31) 2,2-Dichloropropane	8.57	77	190610	18.7181	ug/L	99
32) cis-1,2-Dichloroethene	8.63	96	147511	21.9146	ug/L	89
33) Chloroform	8.84	83	218375	19.5736	ug/L	99
34) 1-Bromopropane	8.98	122	33039	28.5500	ug/L	99
35) Bromochloromethane	9.07	130	86072	21.7105	ug/L	92
38) 1,1,1-Trichloroethane	9.39	97	200998	18.7356	ug/L	99
39) Cyclohexane	9.43	56	213390	18.7183	ug/L	97
40) 1,1-Dichloropropene	9.58	75	175142	19.6514	ug/L	95
42) Carbon Tetrachloride	9.72	117	197340	19.3081	ug/L	99
45) 1,2-Dichloroethane	9.88	62	134980	17.3082	ug/L	99
46) Benzene	9.93	78	512411	20.3134	ug/L	94
47) Trichloroethene	10.69	130	173468	22.1849	ug/L	99
48) Methylcyclohexane	10.79	83	155802	17.7645	ug/L	95
49) 1,2-Dichloropropane	10.90	63	138474	20.2370	ug/L	94
50) Bromodichloromethane	11.19	83	157248	19.7666	ug/L	100
52) Dibromomethane	11.26	93	60869	20.2438	ug/L	97
54) 4-Methyl-2-Pentanone	11.54	58	23445	18.2533	ug/L	97
55) cis-1,3-Dichloropropene	11.83	75	189043	21.8011	ug/L	99

(#) = qualifier out of range (m) = manual integration
 8M381044.D 8260WTR.M Wed Jul 25 13:57:54 2012

Page 1

Data File : C:\MSDCHEM\1\data\072512\8M381044.D Vial: 9
 Acq On : 25 Jul 2012 13:34 Operator: adc
 Sample : L12070658-04 B MSD 826-SPE Inst : HPMS8
 Misc : 1,1 Multiplr: 1.00
 MS Integration Params: RTEINT.P
 Quant Time: Jul 25 13:57:25 2012 Quant Results File: 8260WTR.RES

Quant Method : C:\MSDCHEM\1\METHODS\8260WTR.M (RTE Integrator)
 Title : Method 8260B/624 WTR-SOP:OVLMSV01 06/28/12 HPMS 8
 Last Update : Fri Jun 29 09:29:43 2012
 Response via : Initial Calibration
 DataAcq Meth : 8260WTR

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
56) Dimethyl Disulfide	12.08	94	195020	17.7897	ug/L	97
59) Toluene	12.25	91	552079	19.0625	ug/L	99
60) Ethyl Methacrylate	12.38	69	99664	20.7949	ug/L	83
62) trans-1,3-Dichloropropene	12.43	75	142362	18.6826	ug/L	100
63) 1,1,2-Trichloroethane	12.63	97	84454	20.5128	ug/L	100
64) 2-Hexanone	12.60	58	22404	19.1645	ug/L	90
65) 1,3-Dichloropropane	12.94	76	146594	20.2279	ug/L	85
66) Tetrachloroethene	13.08	164	381428	54.0743	ug/L	97
67) Dibromochloromethane	13.32	129	119778	19.6919	ug/L	99
68) 1,2-Dibromoethane	13.56	107	90858	20.8446	ug/L	100
69) 1-Chlorohexane	13.70	91	160876	17.5341	ug/L	92
70) Chlorobenzene	14.08	112	376151	18.9116	ug/L	95
71) 1,1,1,2-Tetrachloroethane	14.11	131	146361	19.3511	ug/L	100
72) Ethylbenzene	14.12	106	214013	18.5463	ug/L	99
73) m-,p-Xylene	14.22	106	512286	36.5013	ug/L	99
74) o-Xylene	14.76	106	254266	18.3990	ug/L	98
75) Styrene	14.81	104	429962	19.1588	ug/L	94
76) Bromoform	15.26	173	74057	19.5992	ug/L	100
77) Isopropylbenzene	15.20	105	536168	15.5861	ug/L	99
79) 1,1,2,2-Tetrachloroethane	15.39	83	88512	21.4494	ug/L	98
81) 1,2,3-Trichloropropane	15.59	110	26959	20.6540	ug/L	97
82) trans-1,4-Dichloro-2-Buten	15.64	53	21248	16.3019	ug/L	82
83) n-Propylbenzene	15.71	91	675084	18.0578	ug/L	100
84) Bromobenzene	15.81	156	171519	19.4790	ug/L	98
85) 1,3,5-Trimethylbenzene	15.89	105	509996	17.8516	ug/L	99
86) 2-Chlorotoluene	15.96	91	460594	19.2150	ug/L	100
87) 4-Chlorotoluene	16.00	91	429882	17.4942	ug/L	99
88) a-Methylstyrene	16.28	118	305699	18.8556	ug/L	100
89) tert-Butylbenzene	16.36	134	106360	16.5992	ug/L	97
90) 1,2,4-Trimethylbenzene	16.41	105	543213	18.5432	ug/L	100
91) sec-Butylbenzene	16.63	105	546185	16.4289	ug/L	98
92) p-Isopropyltoluene	16.78	119	488099	16.7629	ug/L	98
93) 1,3-Dichlorobenzene	16.96	146	321870	18.2589	ug/L	98
94) 1,4-Dichlorobenzene	17.08	146	323281	17.6106	ug/L	99
95) n-Butylbenzene	17.31	91	395285	15.9239	ug/L	99
96) 1,2-Dichlorobenzene	17.57	146	290324	18.3060	ug/L	98
97) 1,2-Dibromo-3-Chloropropan	18.55	75	14595	19.5138	ug/L	86
98) 1,2,4-Trichlorobenzene	19.70	180	187213	17.0913	ug/L	100
99) Hexachlorobutadiene	19.86	225	72219	15.2050	ug/L	98
100) Naphthalene	20.05	128	344472	20.3199	ug/L	99
101) 1,2,3-Trichlorobenzene	20.36	180	158954	16.8012	ug/L	99

(#) = qualifier out of range (m) = manual integration
 8M381044.D 8260WTR.M Wed Jul 25 13:58:00 2012

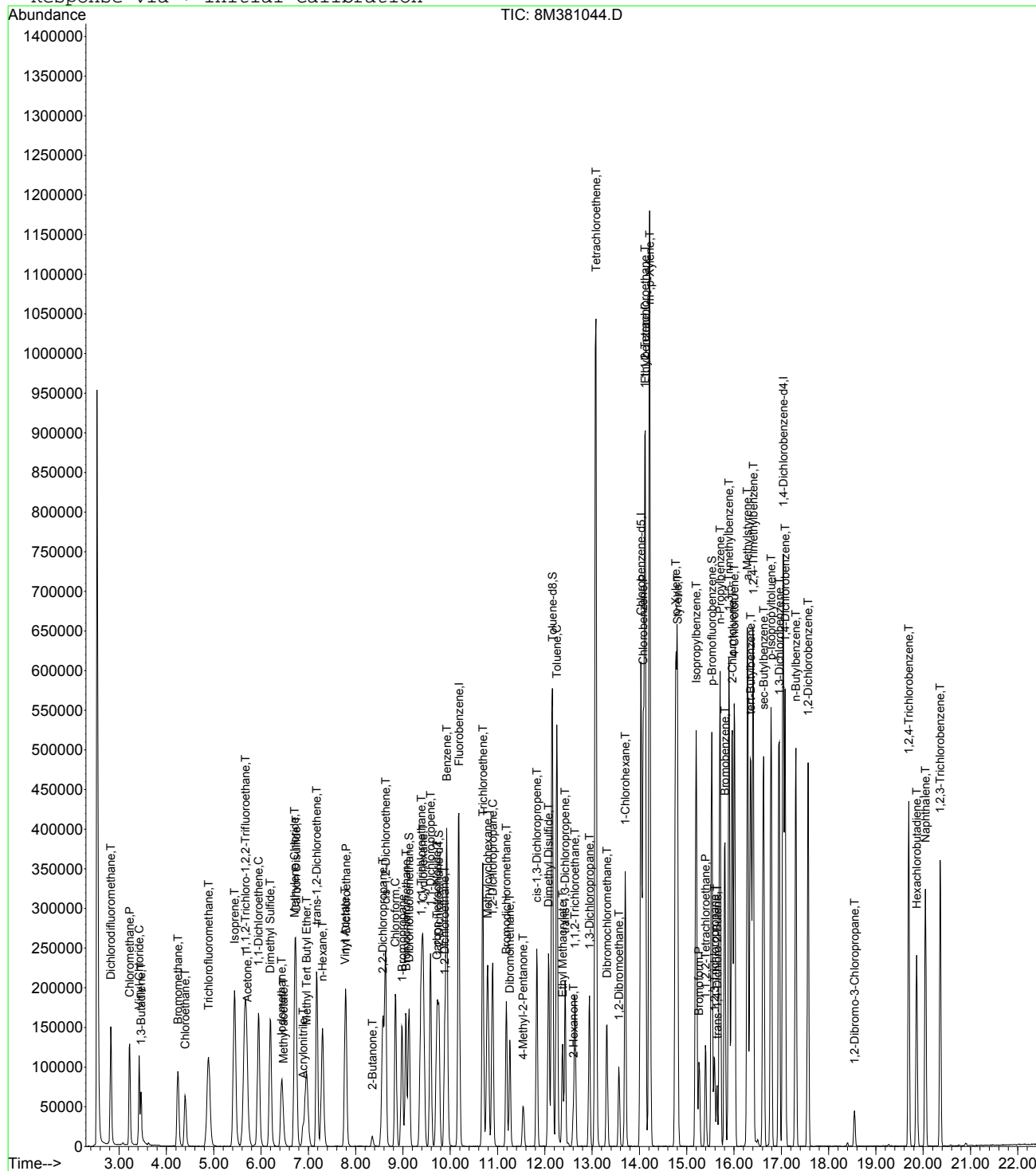
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Data File : C:\MSDchem\1\data\072512\8M381044.D
Acq On : 25 Jul 2012 13:34
Sample : L12070658-04 B MSD 826-SPE
Misc : 1,1
MS Integration Params: RTEINT.P
Quant Time: Jul 25 13:57 2012

Vial: 9
Operator: adc
Inst : HPMS8
Multiplr: 1.00

Quant Results File: 8260WTR.RES

Method : C:\MSDCHEM\1\METHODS\8260WTR.M (RTE Integrator)
Title : Method 8260B/624 WTR-SOP:OVLMSV01 06/28/12 HPMS 8
Last Update : Fri Jun 29 09:29:43 2012
Response via : Initial Calibration



Data File : C:\MSDCHEM\1\DATA\072012\11M85454.D Vial: 14
 Acq On : 20 Jul 2012 22:12 Operator: FJB
 Sample : L12070658-05 A 826-LOW Inst : hpms11
 Misc : 1,1 Multiplr: 1.00
 MS Integration Params: rteint.p
 Quant Time: Jul 23 08:41:01 2012 Quant Results File: 8260WTR.RES

Quant Method : C:\MSDCHEM\1\METHODS\8260WTR.M (RTE Integrator)
 Title : 8260B/624 (SOP: OVL MSV01) Water 05/03/12 HPMS11
 Last Update : Fri Jul 13 11:24:02 2012
 Response via : Initial Calibration
 DataAcq Meth : 8260WTR

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene	10.28	96	448604	25.00	ug/L	-0.01
57) Chlorobenzene-d5	13.91	117	331948	25.00	ug/L	-0.01
78) 1,4-Dichlorobenzene-d4	16.72	152	164708	25.00	ug/L	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
37) Dibromofluoromethane	9.30	111	119983	21.9486	ug/L	0.00
Spiked Amount	25.000	Range	86 - 118	Recovery	=	87.80%
43) 1,2-Dichloroethane-d4	9.90	65	112660	21.5373	ug/L	0.00
Spiked Amount	25.000	Range	80 - 120	Recovery	=	86.16%
58) Toluene-d8	12.14	98	456947	26.0972	ug/L	-0.01
Spiked Amount	25.000	Range	88 - 110	Recovery	=	104.40%
80) p-Bromofluorobenzene	15.30	95	150697	27.6803	ug/L	-0.01
Spiked Amount	25.000	Range	86 - 115	Recovery	=	110.72%

Target Compounds Qvalue

 (#) = qualifier out of range (m) = manual integration
 11M85454.D 8260WTR.M Mon Jul 23 08:41:02 2012

Page 1

Data File : C:\MSDCHEM\1\DATA\072012\11M85454.D

Vial: 14

Acq On : 20 Jul 2012 22:12

Operator: FJB

Sample : L12070658-05 A 826-LOW

Inst : hpms11

Misc : 1,1

Multiplr: 1.00

MS Integration Params: rteint.p

Quant Time: Jul 23 8:41 2012

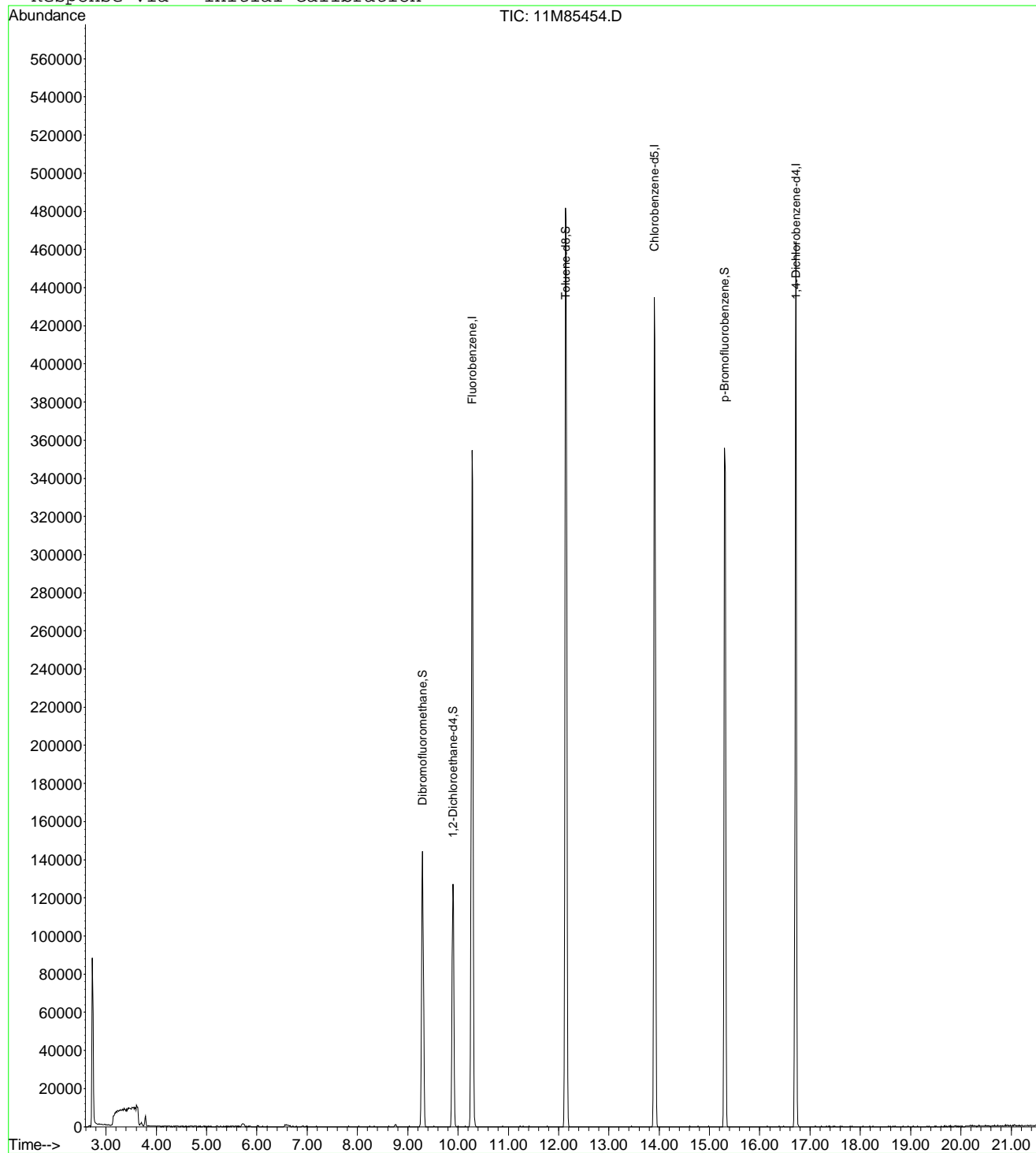
Quant Results File: 8260WTR.RES

Method : C:\MSDCHEM\1\METHODS\8260WTR.M (RTE Integrator)

Title : 8260B/624 (SOP: OVL MSV01) Water 05/03/12 HPMS11

Last Update : Fri Jul 13 11:24:02 2012

Response via : Initial Calibration



11M85454.D 8260WTR.M

Mon Jul 23 08:41:02 2012

Page 2

Data File : C:\MSDCHEM\1\DATA\072012\11M85455.D Vial: 15
 Acq On : 20 Jul 2012 22:43 Operator: FJB
 Sample : L12070658-06 A 826-LOW Inst : hpms11
 Misc : 1,1 Multiplr: 1.00
 MS Integration Params: rteint.p
 Quant Time: Jul 23 08:41:03 2012 Quant Results File: 8260WTR.RES

Quant Method : C:\MSDCHEM\1\METHODS\8260WTR.M (RTE Integrator)
 Title : 8260B/624 (SOP: OVL MSV01) Water 05/03/12 HPMS11
 Last Update : Fri Jul 13 11:24:02 2012
 Response via : Initial Calibration
 DataAcq Meth : 8260WTR

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene	10.28	96	445707	25.00	ug/L	-0.01
57) Chlorobenzene-d5	13.91	117	329939	25.00	ug/L	-0.01
78) 1,4-Dichlorobenzene-d4	16.72	152	155124	25.00	ug/L	0.00
System Monitoring Compounds						
37) Dibromofluoromethane	9.30	111	117081	21.5570	ug/L	0.00
Spiked Amount	25.000	Range	86 - 118	Recovery	=	86.24%
43) 1,2-Dichloroethane-d4	9.90	65	109640	21.0962	ug/L	0.00
Spiked Amount	25.000	Range	80 - 120	Recovery	=	84.40%
58) Toluene-d8	12.14	98	446816	25.6739	ug/L	-0.01
Spiked Amount	25.000	Range	88 - 110	Recovery	=	102.68%
80) p-Bromofluorobenzene	15.30	95	147021	28.6736	ug/L	-0.01
Spiked Amount	25.000	Range	86 - 115	Recovery	=	114.68%
Target Compounds						
						Qvalue
13) Acetone	6.01	43	2035	1.6574	ug/L	# 45
19) Methylene Chloride	6.98	84	1245	0.2589	ug/L	78
59) Toluene	12.23	91	4261	0.2147	ug/L	98

(#) = qualifier out of range (m) = manual integration
 11M85455.D 8260WTR.M Mon Jul 23 08:41:03 2012

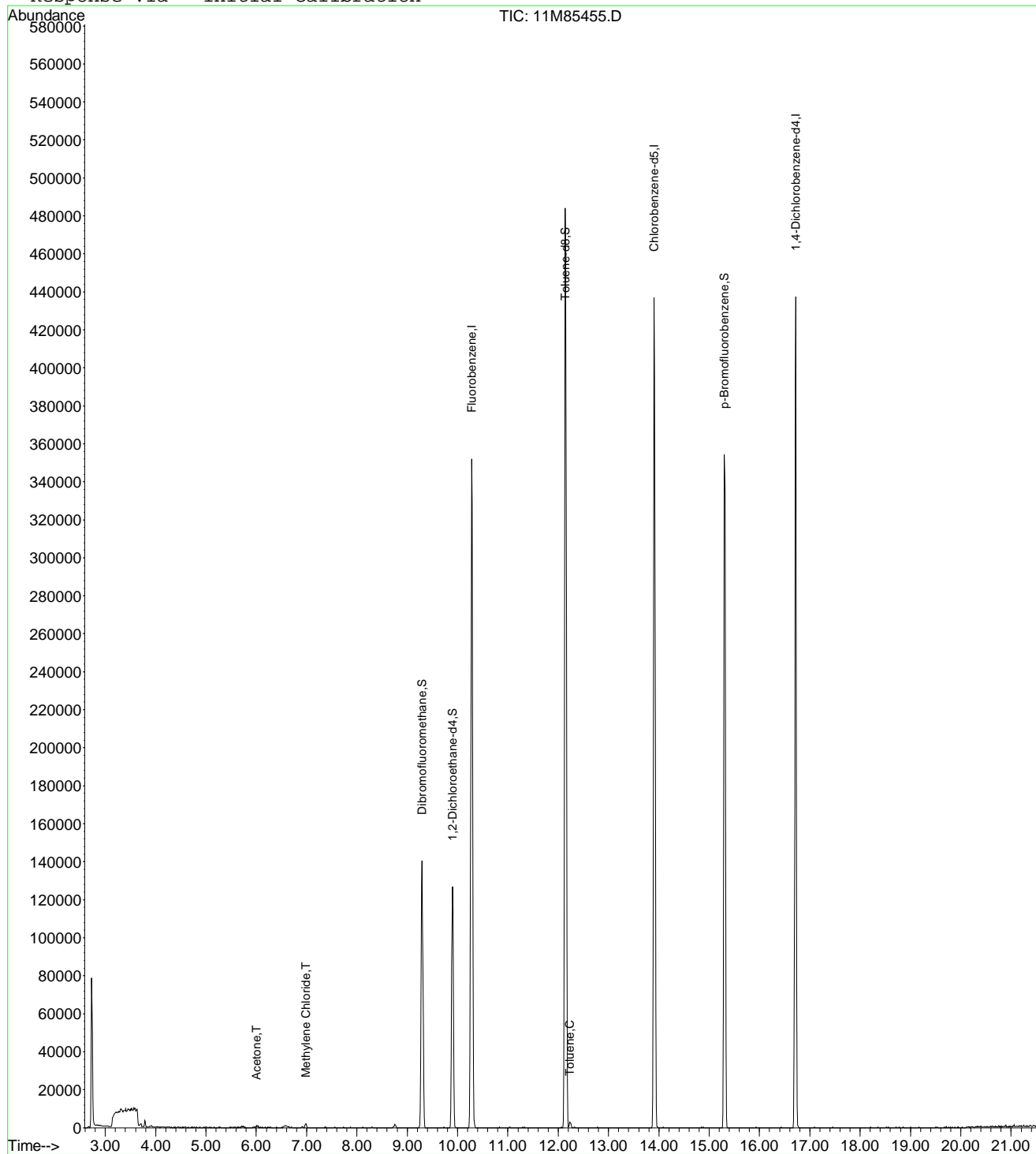
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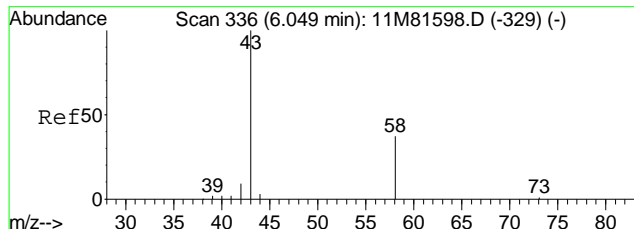
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 Acq On : 20 Jul 2012 22:43
 Sample : L12070658-06 A 826-LOW
 Misc : 1,1
 MS Integration Params: rteint.p
 Quant Time: Jul 23 8:41 2012

Vial: 15
 Operator: FJB
 Inst : hpms11
 Multiplr: 1.00

Quant Results File: 8260WTR.RES

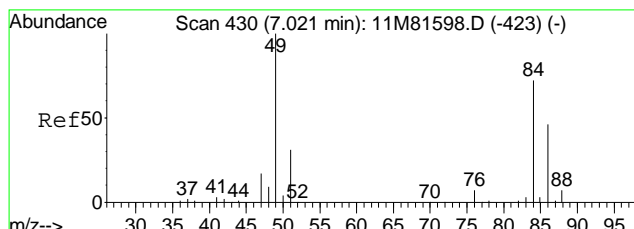
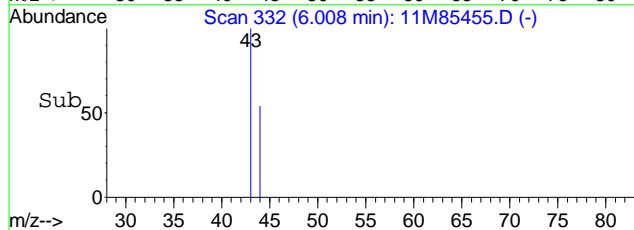
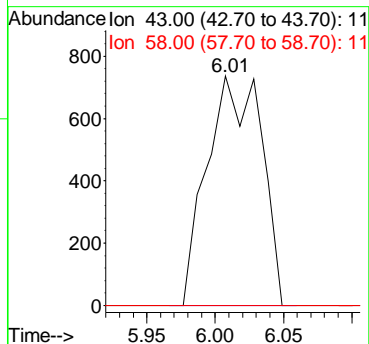
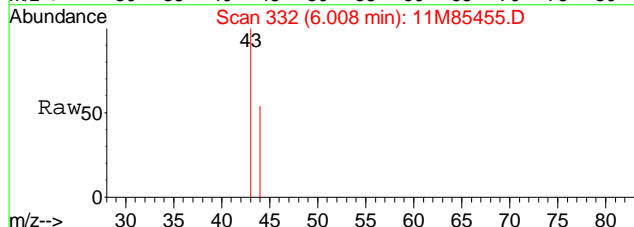
Method : C:\MSDCHEM\1\METHODS\8260WTR.M (RTE Integrator)
 Title : 8260B/624 (SOP: OVL MSV01) Water 05/03/12 HPMS11
 Last Update : Fri Jul 13 11:24:02 2012
 Response via : Initial Calibration





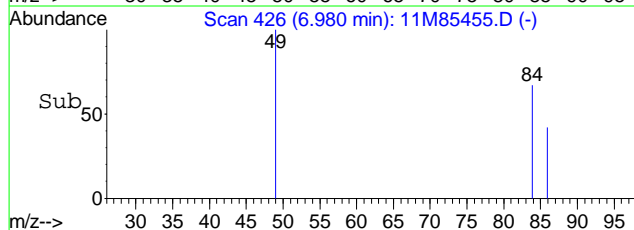
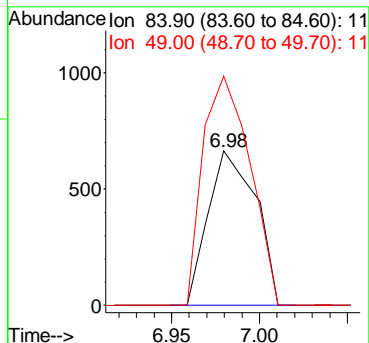
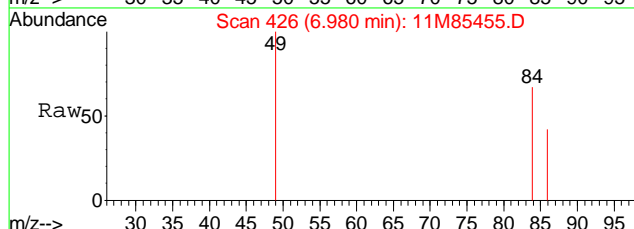
#13
 Acetone
 Concen: 1.66 ug/L
 RT: 6.01 min Scan# 332
 Delta R.T. -0.01 min
 Lab File: 11M85455.D
 Acq: 20 Jul 2012 22:43

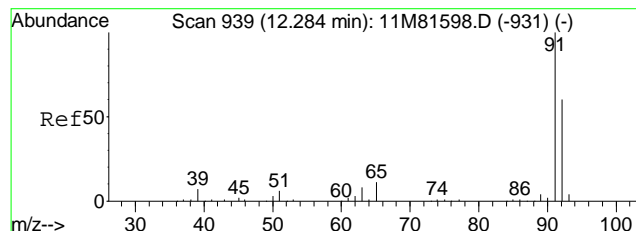
Tgt Ion	Ratio	Lower	Upper
43	100		
58	0.0	17.6	41.2#



#19
 Methylene Chloride
 Concen: 0.26 ug/L
 RT: 6.98 min Scan# 426
 Delta R.T. -0.00 min
 Lab File: 11M85455.D
 Acq: 20 Jul 2012 22:43

Tgt Ion	Ratio	Lower	Upper
84	100		
49	147.3	73.4	171.4

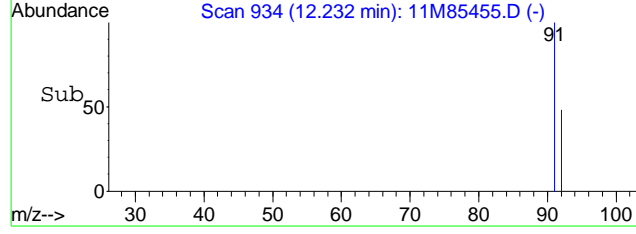
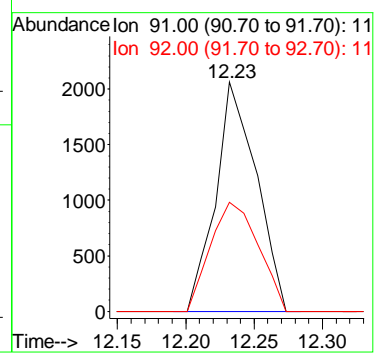
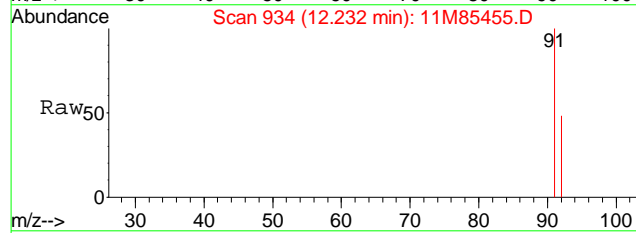




#59
 Toluene
 Concen: 0.21 ug/L
 RT: 12.23 min Scan# 934
 Delta R.T. -0.01 min
 Lab File: 11M85455.D
 Acq: 20 Jul 2012 22:43

Tgt Ion: 91 Resp: 4261

Ion	Ratio	Lower	Upper
91	100		
92	56.1	34.7	80.9



Data File : C:\MSDCHEM\1\DATA\072012\11M85462.D Vial: 21
 Acq On : 21 Jul 2012 1:47 Operator: FJB
 Sample : L12070658-07 A 826-LOW Inst : hpms11
 Misc : 1,1 Multiplr: 1.00
 MS Integration Params: rteint.p
 Quant Time: Jul 23 08:41:09 2012 Quant Results File: 8260WTR.RES

Quant Method : C:\MSDCHEM\1\METHODS\8260WTR.M (RTE Integrator)
 Title : 8260B/624 (SOP: OVL MSV01) Water 05/03/12 HPMS11
 Last Update : Fri Jul 13 11:24:02 2012
 Response via : Initial Calibration
 DataAcq Meth : 8260WTR

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene	10.28	96	447195	25.00	ug/L	-0.01
57) Chlorobenzene-d5	13.91	117	327755	25.00	ug/L	-0.01
78) 1,4-Dichlorobenzene-d4	16.72	152	159591	25.00	ug/L	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
37) Dibromofluoromethane	9.30	111	118300	21.7089	ug/L	0.00
Spiked Amount	25.000	Range 86 - 118	Recovery	=	86.84%	
43) 1,2-Dichloroethane-d4	9.90	65	112672	21.6075	ug/L	0.00
Spiked Amount	25.000	Range 80 - 120	Recovery	=	86.44%	
58) Toluene-d8	12.15	98	450190	26.0402	ug/L	0.00
Spiked Amount	25.000	Range 88 - 110	Recovery	=	104.16%	
80) p-Bromofluorobenzene	15.30	95	147624	27.9853	ug/L	-0.01
Spiked Amount	25.000	Range 86 - 115	Recovery	=	111.96%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
12) 1,1,2-Trichloro-1,2,2-Trif	5.94	101	80190	16.0390	ug/L	100
13) Acetone	6.01	43	2957	2.7834	ug/L #	62
14) 1,1-Dichloroethene	6.23	61	3178	0.4682	ug/L	95
16) Dimethyl Sulfide	6.47	62	755	0.1358	ug/L	73
20) Carbon Disulfide	7.02	76	11347	0.8199	ug/L	100
27) 1,1-Dichloroethane	8.02	63	1495	0.1841	ug/L #	50
33) Chloroform	9.03	83	1156	0.1346	ug/L	69
47) Trichloroethene	10.76	130	14553	2.3720	ug/L	96
66) Tetrachloroethene	13.01	164	121597	30.1058	ug/L	100
83) n-Propylbenzene	15.45	91	5430	0.2615	ug/L #	78
92) p-Isopropyltoluene	16.46	119	53659	3.4731	ug/L	100

(#) = qualifier out of range (m) = manual integration
 11M85462.D 8260WTR.M Mon Jul 23 08:41:09 2012

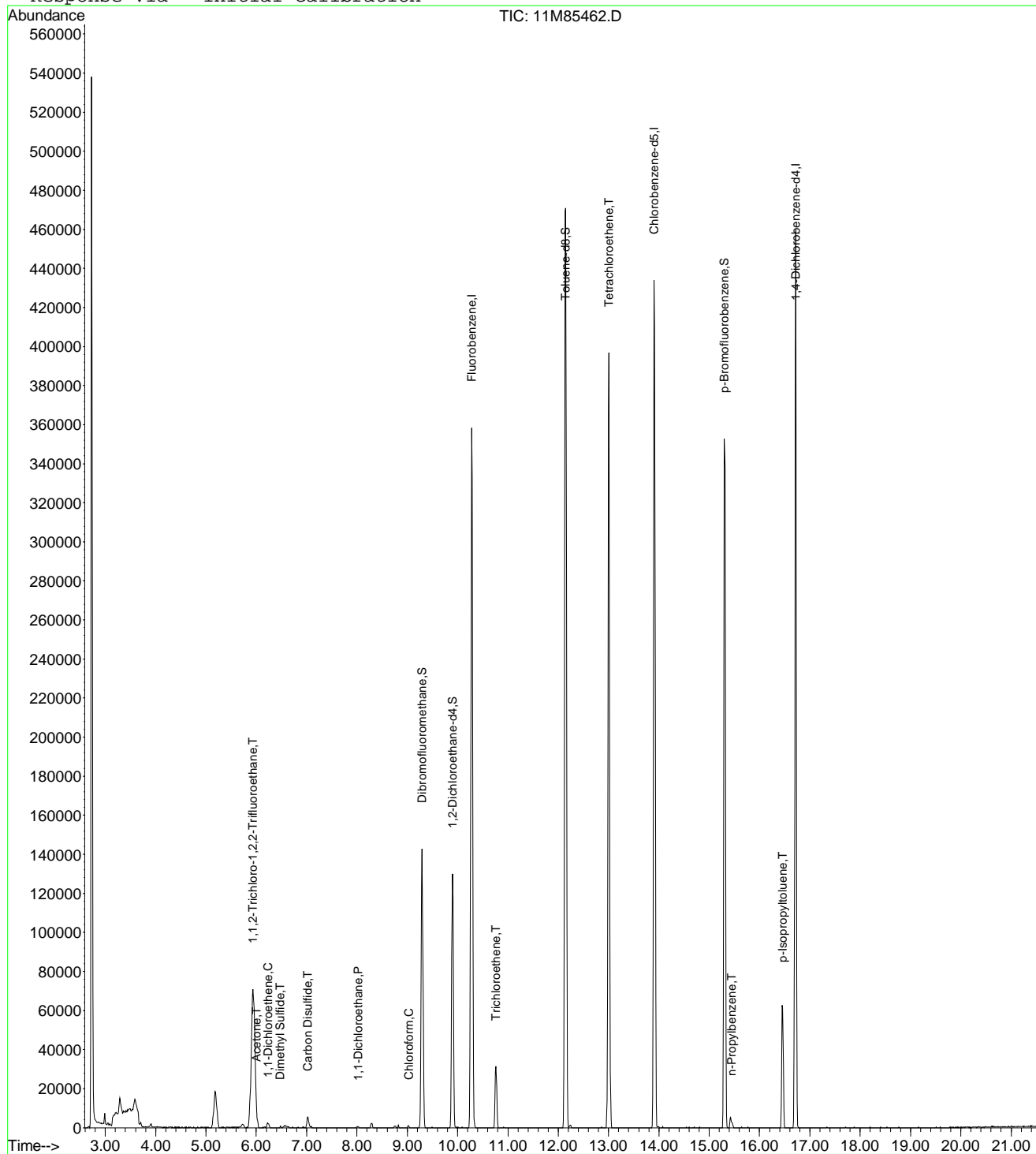
Page 1

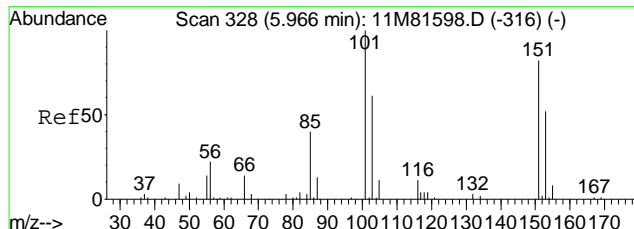
Data File : C:\MSDCHEM\1\DATA\072012\11M85462.D
 Acq On : 21 Jul 2012 1:47
 Sample : L12070658-07 A 826-LOW
 Misc : 1,1
 MS Integration Params: rteint.p
 Quant Time: Jul 23 8:41 2012

Vial: 21
 Operator: FJB
 Inst : hpms11
 Multiplr: 1.00

Quant Results File: 8260WTR.RES

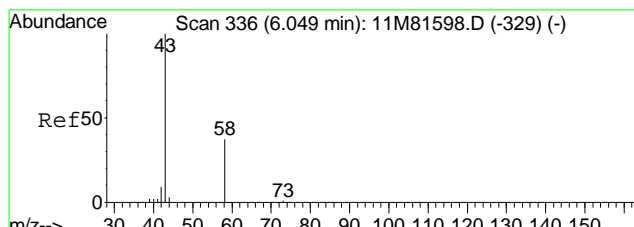
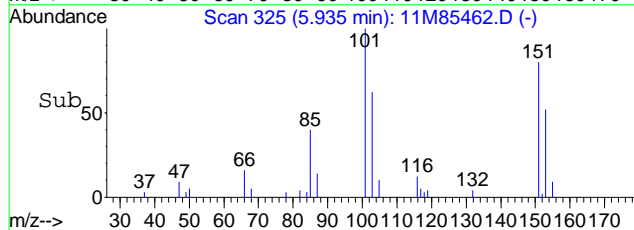
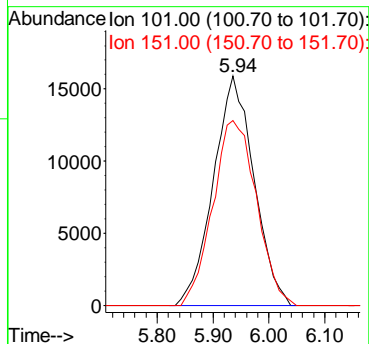
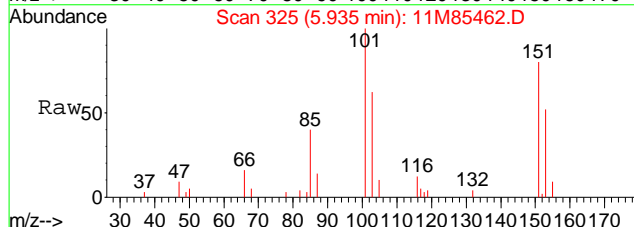
Method : C:\MSDCHEM\1\METHODS\8260WTR.M (RTE Integrator)
 Title : 8260B/624 (SOP: OVL MSV01) Water 05/03/12 HPMS11
 Last Update : Fri Jul 13 11:24:02 2012
 Response via : Initial Calibration





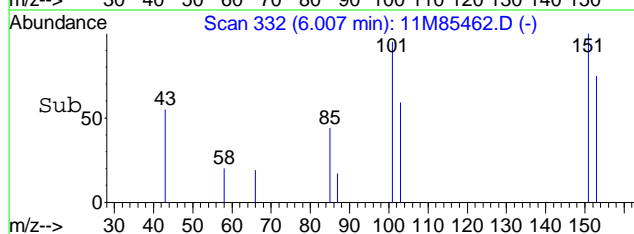
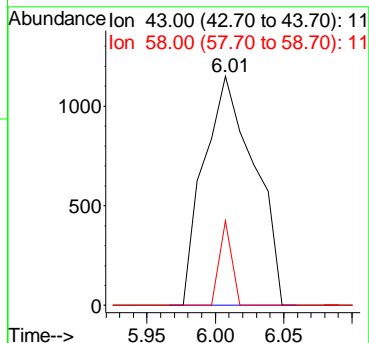
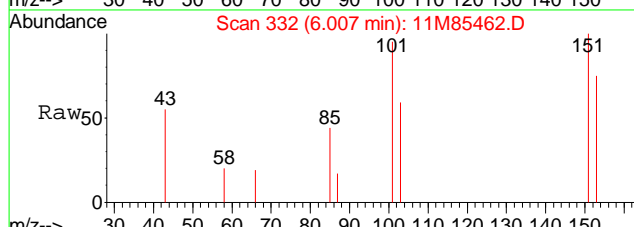
#12
 1,1,2-Trichloro-1,2,2-Trifluoroethane
 Concen: 16.04 ug/L
 RT: 5.94 min Scan# 325
 Delta R.T. 0.01 min
 Lab File: 11M85462.D
 Acq: 21 Jul 2012 1:47

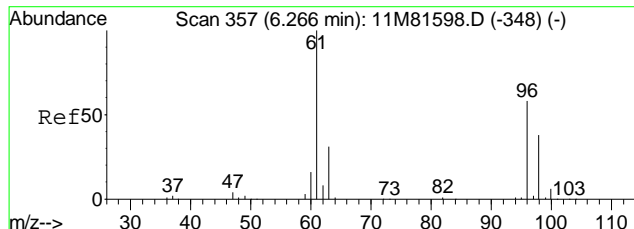
Tgt Ion	Resp	Lower	Upper
101	100		
151	86.4	46.4	126.4



#13
 Acetone
 Concen: 2.78 ug/L
 RT: 6.01 min Scan# 332
 Delta R.T. -0.01 min
 Lab File: 11M85462.D
 Acq: 21 Jul 2012 1:47

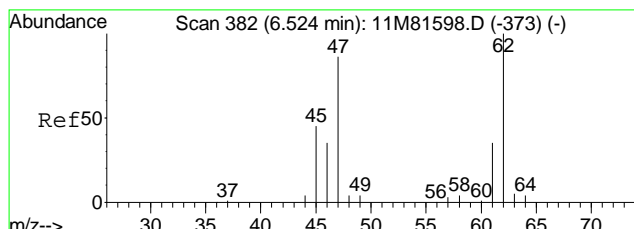
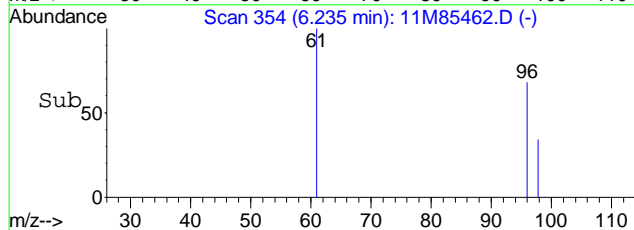
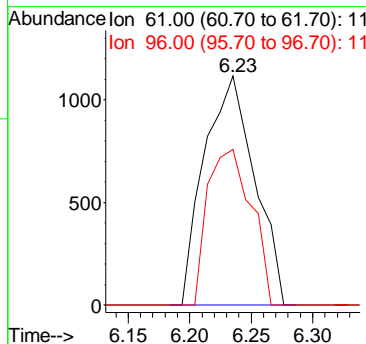
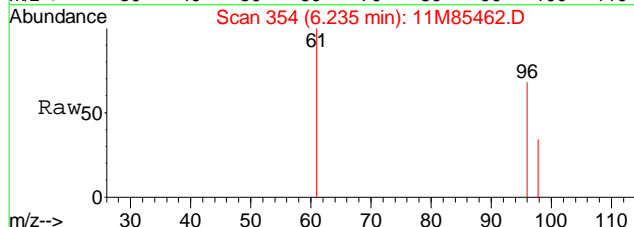
Tgt Ion	Resp	Lower	Upper
43	100		
58	8.9	17.6	41.2#





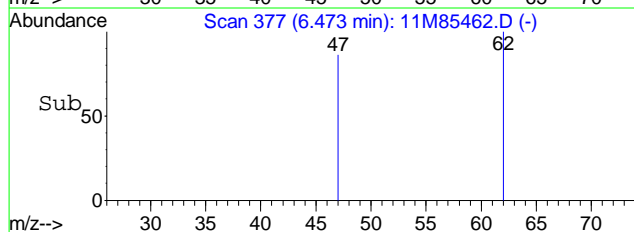
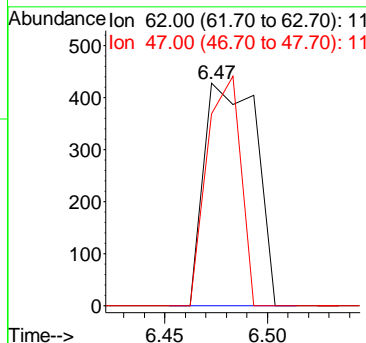
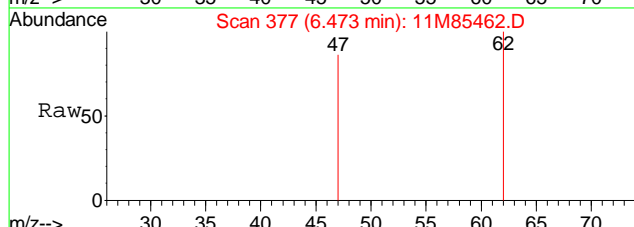
#14
 1,1-Dichloroethene
 Concen: 0.47 ug/L
 RT: 6.23 min Scan# 354
 Delta R.T. 0.01 min
 Lab File: 11M85462.D
 Acq: 21 Jul 2012 1:47

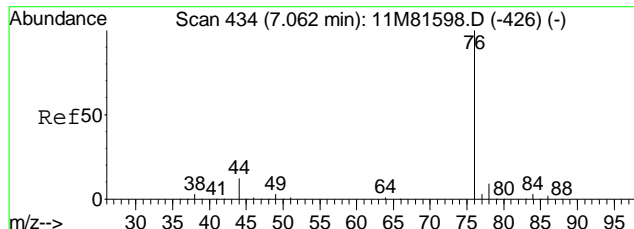
Tgt Ion	Resp	Lower	Upper
61	100		
96	59.2	37.9	88.5



#16
 Dimethyl Sulfide
 Concen: 0.14 ug/L
 RT: 6.47 min Scan# 377
 Delta R.T. -0.01 min
 Lab File: 11M85462.D
 Acq: 21 Jul 2012 1:47

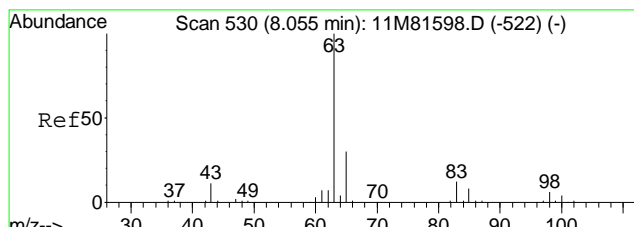
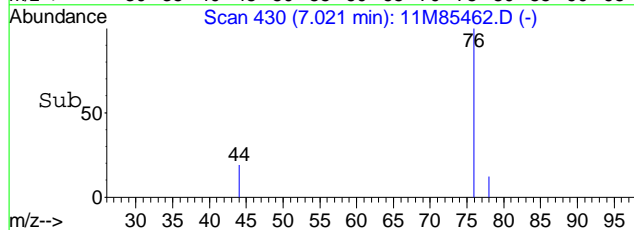
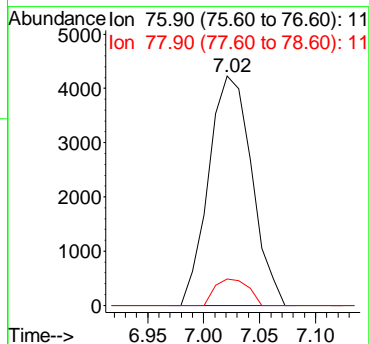
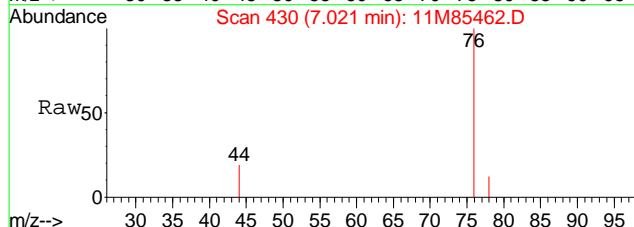
Tgt Ion	Resp	Lower	Upper
62	100		
47	66.6	55.7	129.9





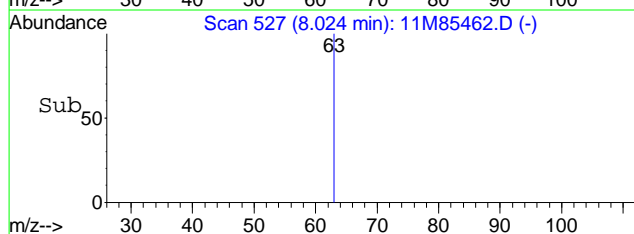
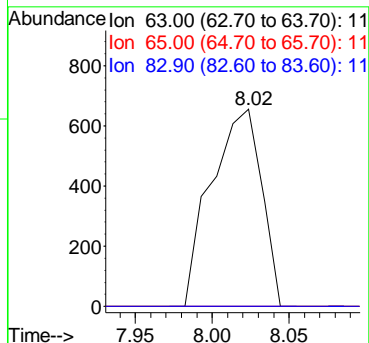
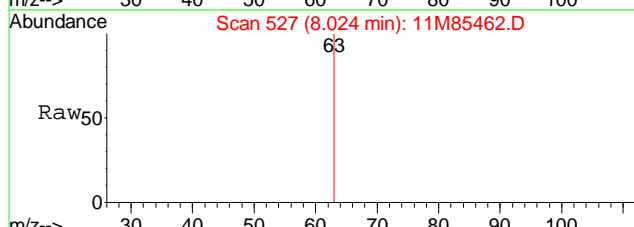
#20
Carbon Disulfide
Concen: 0.82 ug/L
RT: 7.02 min Scan# 430
Delta R.T. -0.00 min
Lab File: 11M85462.D
Acq: 21 Jul 2012 1:47

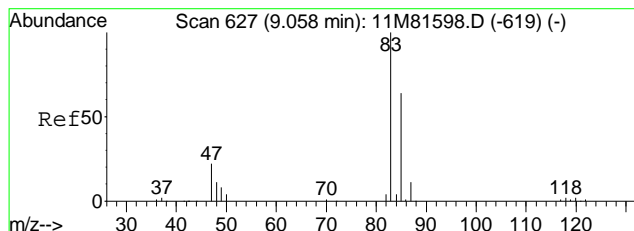
Tgt Ion	Ratio	Lower	Upper
76	100		
78	8.9	5.3	12.5



#27
1,1-Dichloroethane
Concen: 0.18 ug/L
RT: 8.02 min Scan# 527
Delta R.T. 0.01 min
Lab File: 11M85462.D
Acq: 21 Jul 2012 1:47

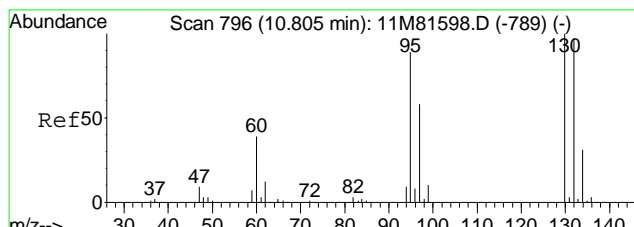
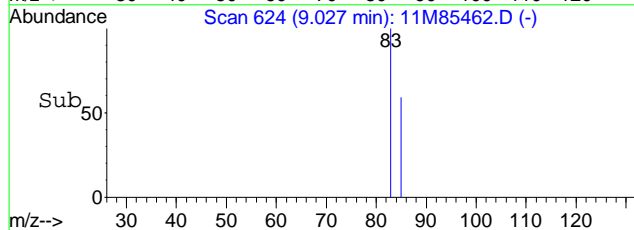
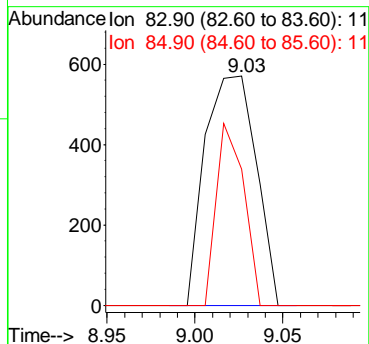
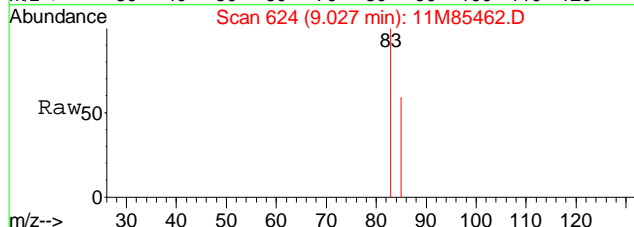
Tgt Ion	Ratio	Lower	Upper
63	100		
65	0.0	19.1	44.5#
83	0.0	8.6	20.2#





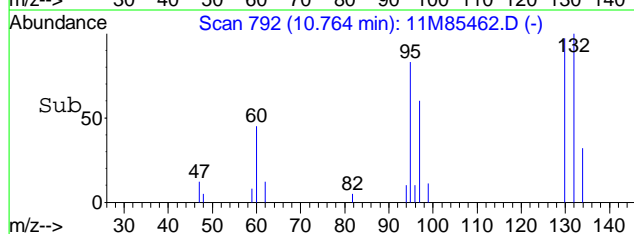
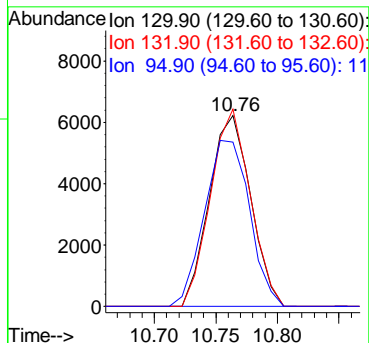
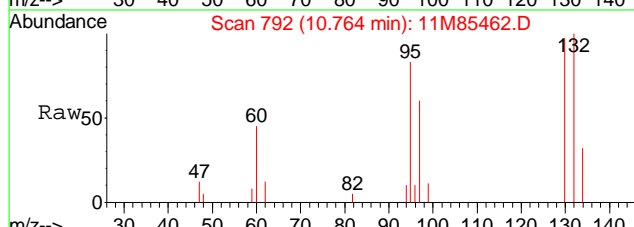
#33
 Chloroform
 Concen: 0.13 ug/L
 RT: 9.03 min Scan# 624
 Delta R.T. 0.01 min
 Lab File: 11M85462.D
 Acq: 21 Jul 2012 1:47

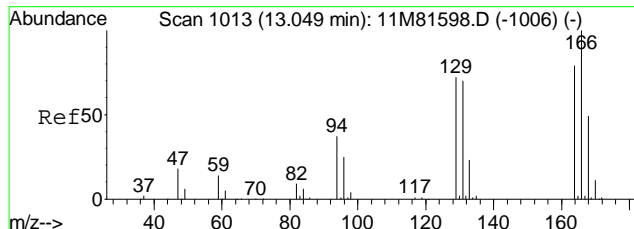
Tgt Ion	83	Resp	1156
Ion	Ratio	Lower	Upper
83	100		
85	42.5	40.7	94.9



#47
 Trichloroethene
 Concen: 2.37 ug/L
 RT: 10.76 min Scan# 792
 Delta R.T. -0.00 min
 Lab File: 11M85462.D
 Acq: 21 Jul 2012 1:47

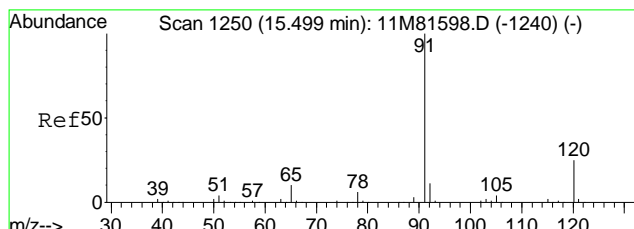
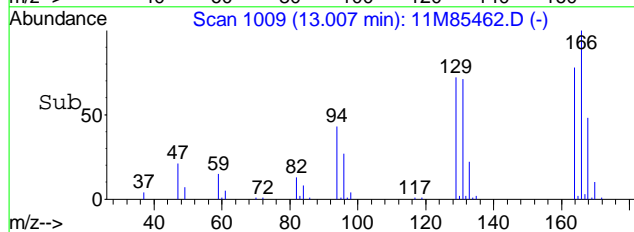
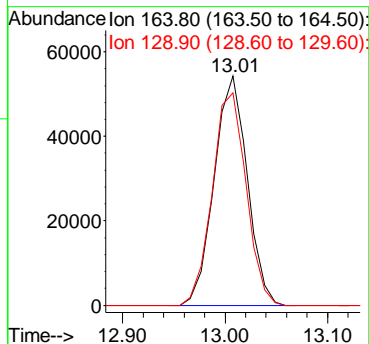
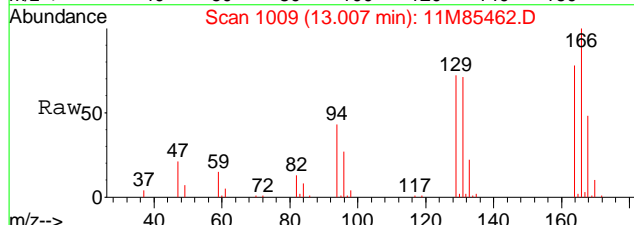
Tgt Ion	130	Resp	14553
Ion	Ratio	Lower	Upper
130	100		
132	99.5	58.1	135.7
95	94.7	53.2	124.0





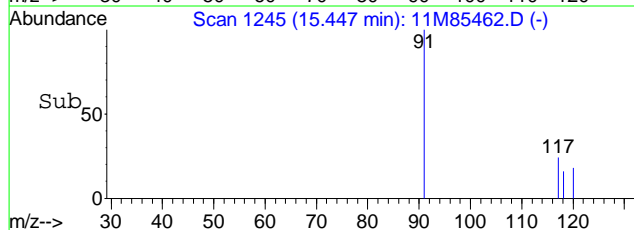
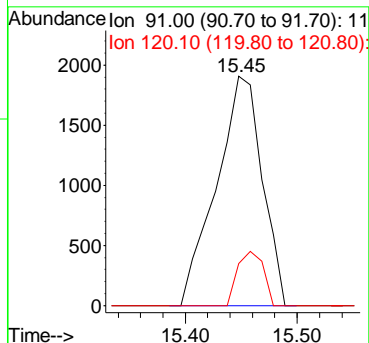
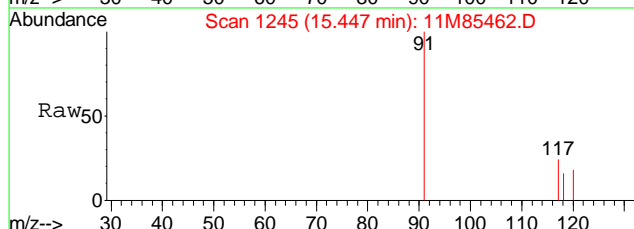
#66
 Tetrachloroethene
 Concen: 30.11 ug/L
 RT: 13.01 min Scan# 1009
 Delta R.T. -0.00 min
 Lab File: 11M85462.D
 Acq: 21 Jul 2012 1:47

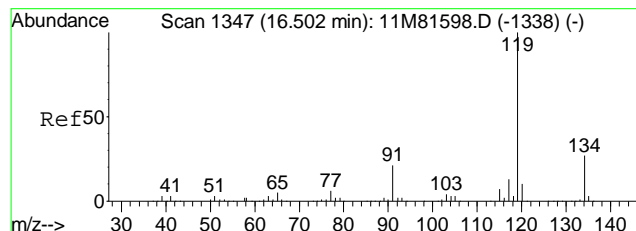
Tgt Ion	Ratio	Lower	Upper
164	100		
129	95.0	56.8	132.4



#83
 n-Propylbenzene
 Concen: 0.26 ug/L
 RT: 15.45 min Scan# 1245
 Delta R.T. -0.01 min
 Lab File: 11M85462.D
 Acq: 21 Jul 2012 1:47

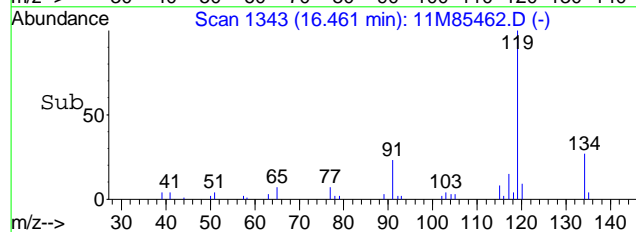
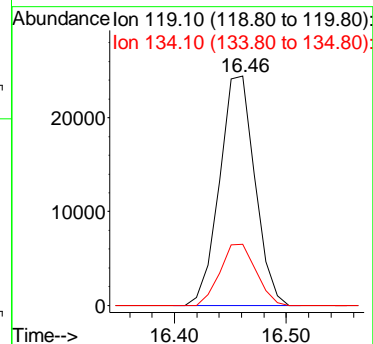
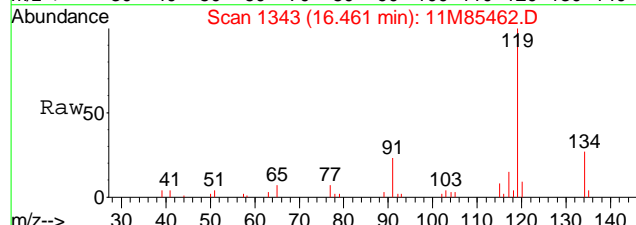
Tgt Ion	Ratio	Lower	Upper
91	100		
120	13.3	14.7	34.3#





#92
 p-Isopropyltoluene
 Concen: 3.47 ug/L
 RT: 16.46 min Scan# 1343
 Delta R.T. -0.00 min
 Lab File: 11M85462.D
 Acq: 21 Jul 2012 1:47

Tgt Ion	Ratio	Lower	Upper
119	100		
134	27.1	16.1	37.7



Data File : C:\MSDCHEM\1\DATA\072012\11M85463.D Vial: 22
 Acq On : 21 Jul 2012 2:17 Operator: FJB
 Sample : L12070658-08 A 826-LOW Inst : hpms11
 Misc : 1,1 Multiplr: 1.00
 MS Integration Params: rteint.p
 Quant Time: Jul 23 08:41:11 2012 Quant Results File: 8260WTR.RES

Quant Method : C:\MSDCHEM\1\METHODS\8260WTR.M (RTE Integrator)
 Title : 8260B/624 (SOP: OVL MSV01) Water 05/03/12 HPMS11
 Last Update : Fri Jul 13 11:24:02 2012
 Response via : Initial Calibration
 DataAcq Meth : 8260WTR

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene	10.28	96	441334	25.00	ug/L	-0.01
57) Chlorobenzene-d5	13.91	117	322263	25.00	ug/L	-0.01
78) 1,4-Dichlorobenzene-d4	16.72	152	151726	25.00	ug/L	0.00
System Monitoring Compounds						
37) Dibromofluoromethane	9.30	111	114102	21.2166	ug/L	0.00
Spiked Amount	25.000	Range 86 - 118	Recovery	=	84.88%#	
43) 1,2-Dichloroethane-d4	9.90	65	110320	21.4374	ug/L	0.00
Spiked Amount	25.000	Range 80 - 120	Recovery	=	85.76%	
58) Toluene-d8	12.14	98	440714	25.9265	ug/L	-0.01
Spiked Amount	25.000	Range 88 - 110	Recovery	=	103.72%	
80) p-Bromofluorobenzene	15.30	95	144741	28.8611	ug/L	-0.01
Spiked Amount	25.000	Range 86 - 115	Recovery	=	115.44%#	
Target Compounds						
12) 1,1,2-Trichloro-1,2,2-Trif	5.94	101	135658	27.4937	ug/L	99
13) Acetone	6.02	43	401	Below Cal	#	45
14) 1,1-Dichloroethene	6.24	61	4392	0.6556	ug/L	97
27) 1,1-Dichloroethane	8.00	63	1971	0.2459	ug/L	# 50
32) cis-1,2-Dichloroethene	8.82	96	646	0.1246	ug/L	60
47) Trichloroethene	10.76	130	31300	5.1693	ug/L	98
66) Tetrachloroethene	13.01	164	144167	36.3021	ug/L	98

(#) = qualifier out of range (m) = manual integration
 11M85463.D 8260WTR.M Mon Jul 23 08:41:12 2012

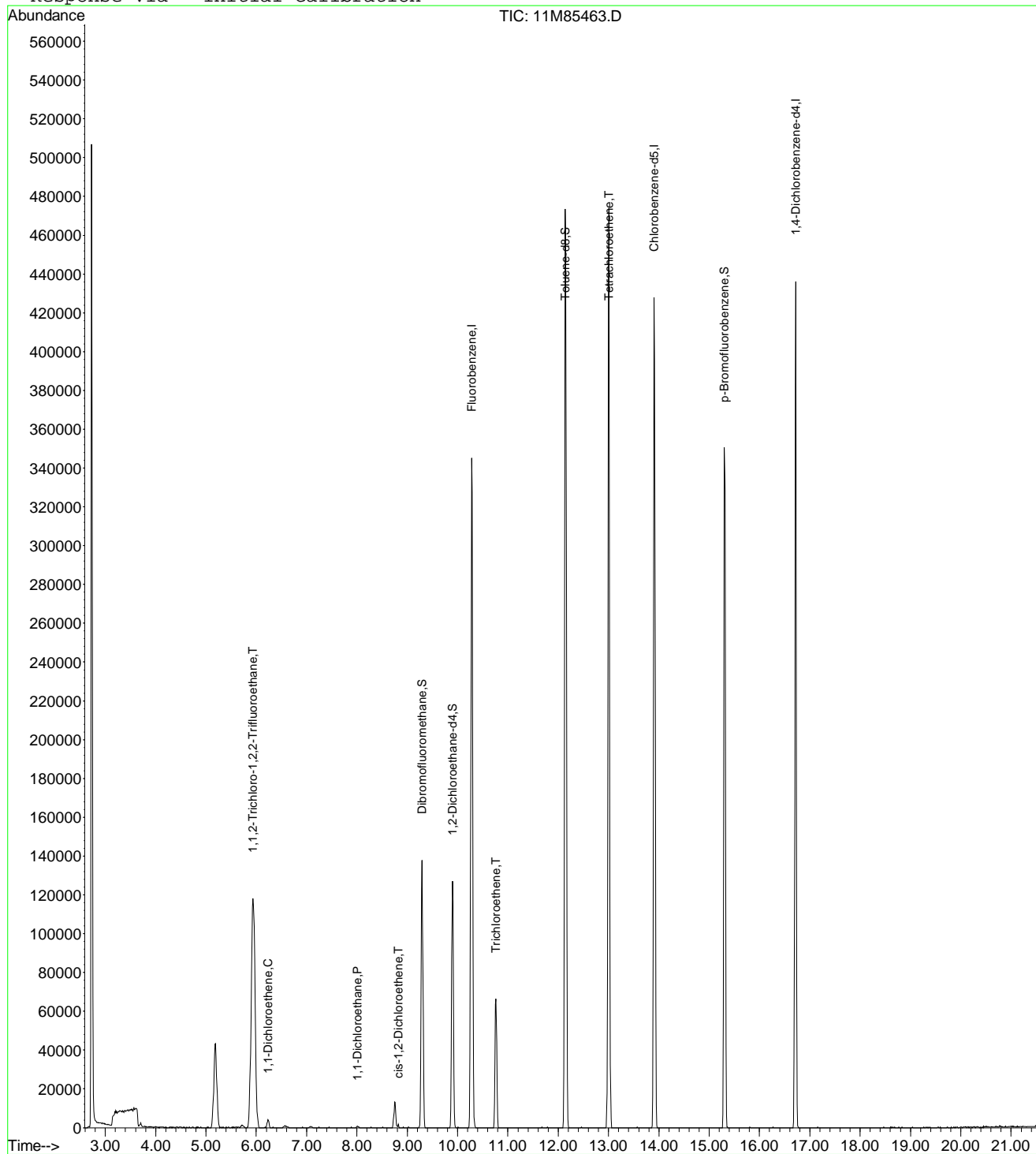
Page 1

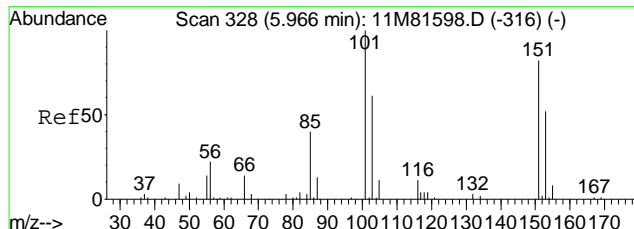
Data File : C:\MSDCHEM\1\DATA\072012\11M85463.D
 Acq On : 21 Jul 2012 2:17
 Sample : L12070658-08 A 826-LOW
 Misc : 1,1
 MS Integration Params: rteint.p
 Quant Time: Jul 23 8:41 2012

Vial: 22
 Operator: FJB
 Inst : hpms11
 Multiplr: 1.00

Quant Results File: 8260WTR.RES

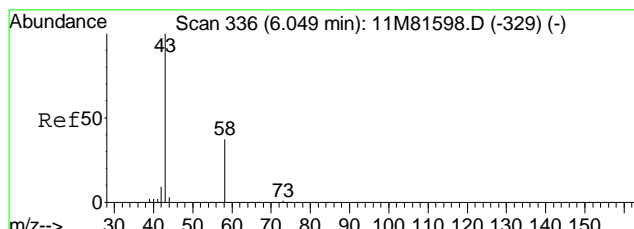
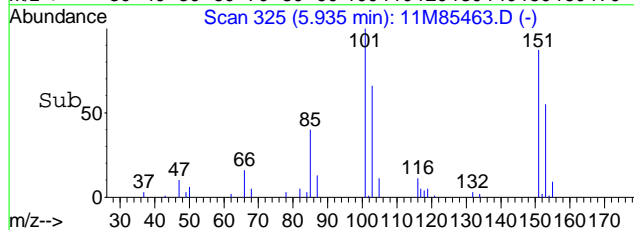
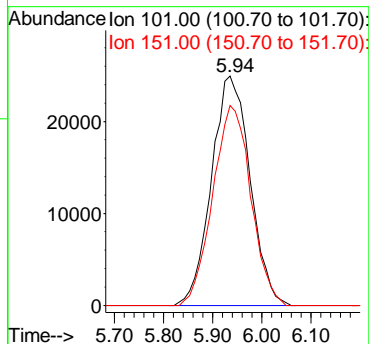
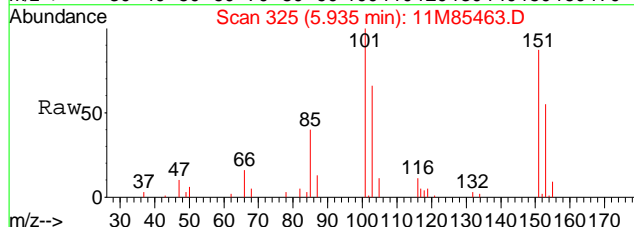
Method : C:\MSDCHEM\1\METHODS\8260WTR.M (RTE Integrator)
 Title : 8260B/624 (SOP: OVL MSV01) Water 05/03/12 HPMS11
 Last Update : Fri Jul 13 11:24:02 2012
 Response via : Initial Calibration





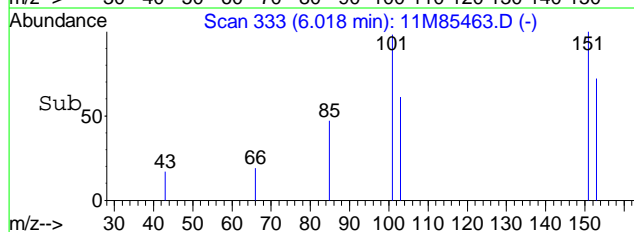
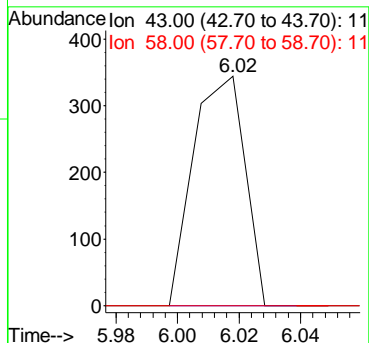
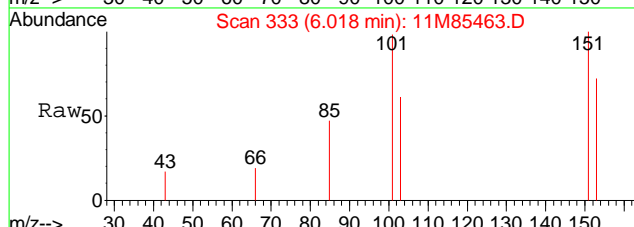
#12
 1,1,2-Trichloro-1,2,2-Trifluoroethane
 Concen: 27.49 ug/L
 RT: 5.94 min Scan# 325
 Delta R.T. 0.01 min
 Lab File: 11M85463.D
 Acq: 21 Jul 2012 2:17

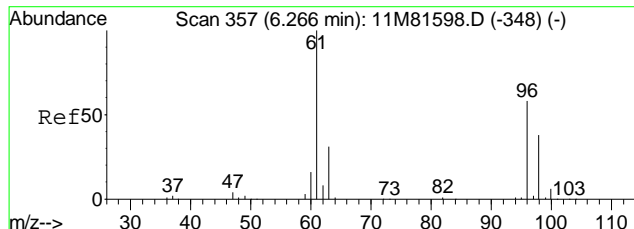
Tgt Ion	Resp	Lower	Upper
101	135658		
101	100		
151	85.9	46.4	126.4



#13
 Acetone
 Concen: Below Cal
 RT: 6.02 min Scan# 333
 Delta R.T. -0.00 min
 Lab File: 11M85463.D
 Acq: 21 Jul 2012 2:17

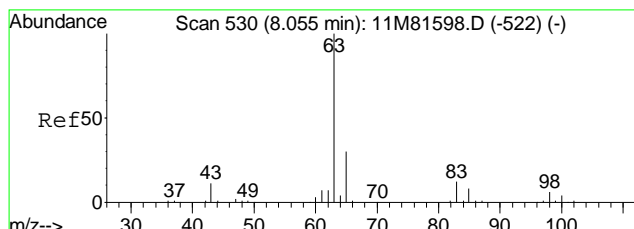
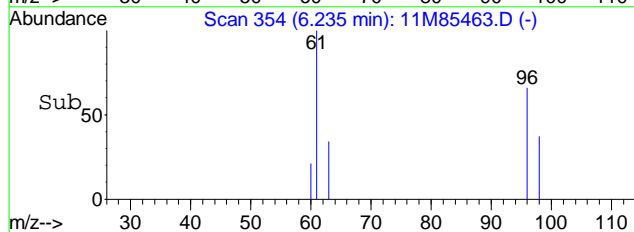
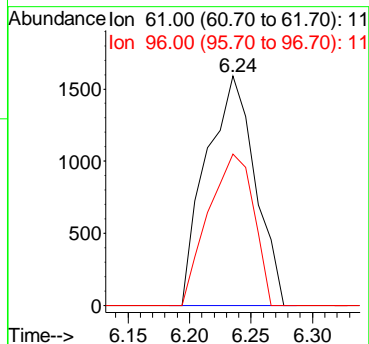
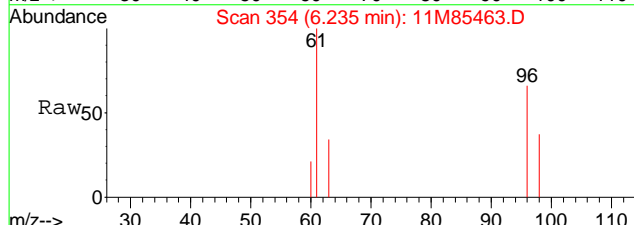
Tgt Ion	Resp	Lower	Upper
43	401		
43	100		
58	0.0	17.6	41.2#





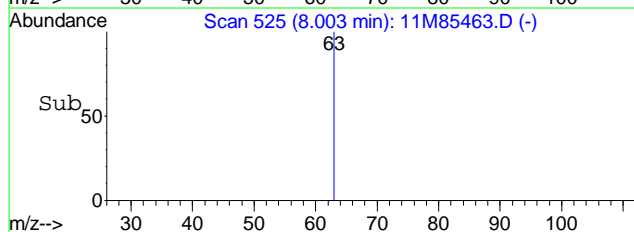
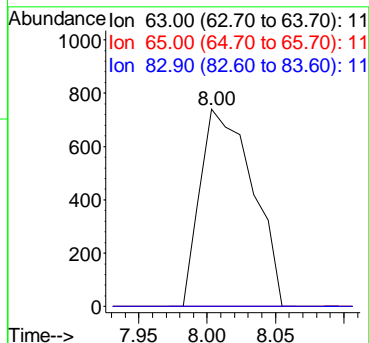
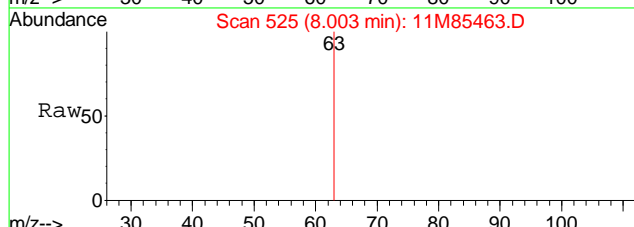
#14
 1,1-Dichloroethene
 Concen: 0.66 ug/L
 RT: 6.24 min Scan# 354
 Delta R.T. 0.01 min
 Lab File: 11M85463.D
 Acq: 21 Jul 2012 2:17

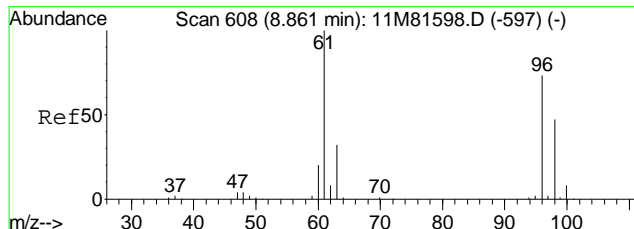
Tgt Ion	Resp	Lower	Upper
61	100		
96	61.1	37.9	88.5



#27
 1,1-Dichloroethane
 Concen: 0.25 ug/L
 RT: 8.00 min Scan# 525
 Delta R.T. -0.01 min
 Lab File: 11M85463.D
 Acq: 21 Jul 2012 2:17

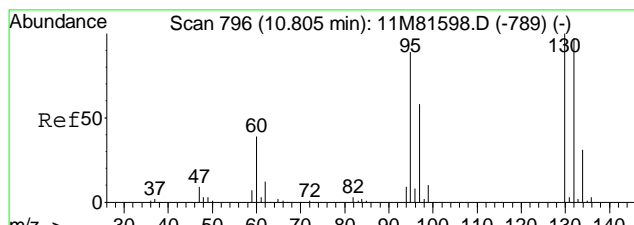
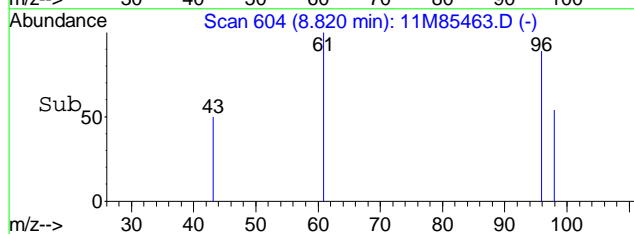
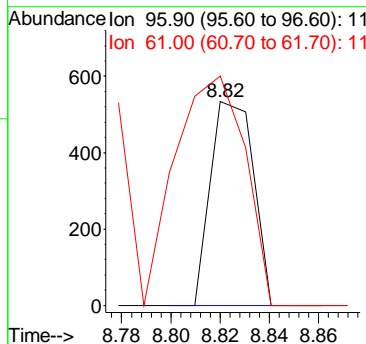
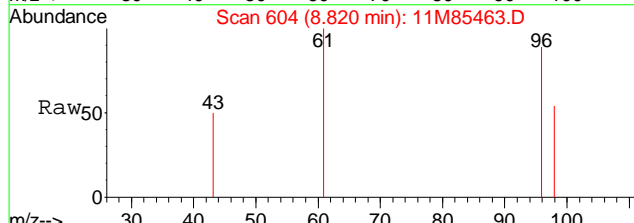
Tgt Ion	Resp	Lower	Upper
63	100		
65	0.0	19.1	44.5#
83	0.0	8.6	20.2#





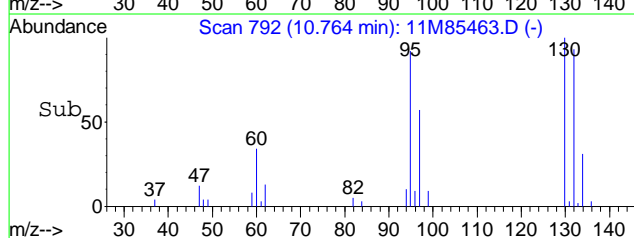
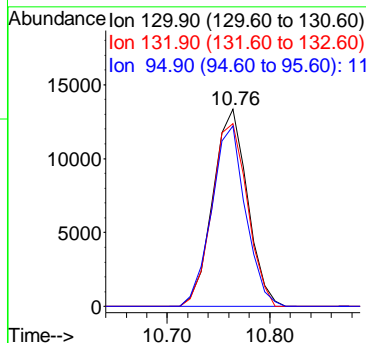
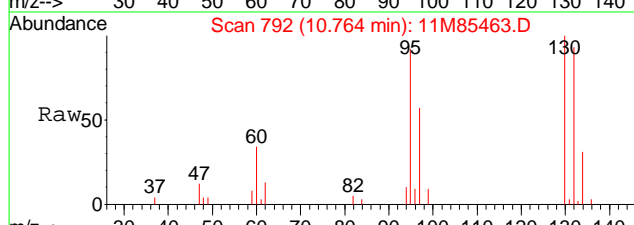
#32
 cis-1,2-Dichloroethene
 Concen: 0.12 ug/L
 RT: 8.82 min Scan# 604
 Delta R.T. -0.00 min
 Lab File: 11M85463.D
 Acq: 21 Jul 2012 2:17

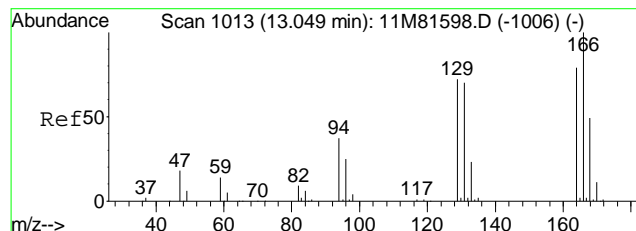
Tgt Ion	Resp	Lower	Upper
96	646		
96	100		
61	183.4	81.5	190.1



#47
 Trichloroethene
 Concen: 5.17 ug/L
 RT: 10.76 min Scan# 792
 Delta R.T. -0.00 min
 Lab File: 11M85463.D
 Acq: 21 Jul 2012 2:17

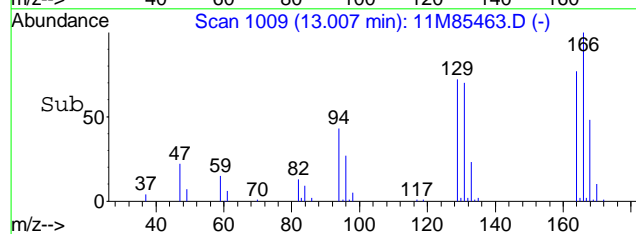
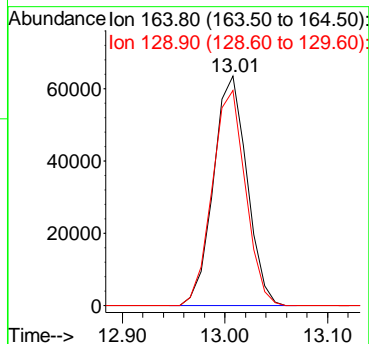
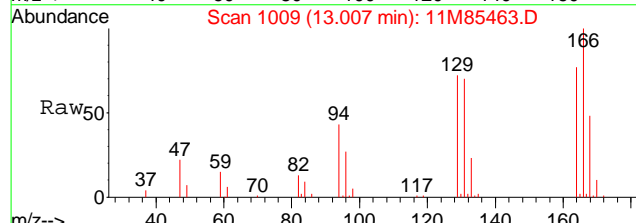
Tgt Ion	Resp	Lower	Upper
130	31300		
130	100		
132	94.9	58.1	135.7
95	89.8	53.2	124.0





#66
 Tetrachloroethene
 Concen: 36.30 ug/L
 RT: 13.01 min Scan# 1009
 Delta R.T. -0.00 min
 Lab File: 11M85463.D
 Acq: 21 Jul 2012 2:17

Tgt Ion	Ratio	Lower	Upper
164	100		
129	93.0	56.8	132.4



Data File : C:\MSDCHEM\1\DATA\072012\11M85464.D Vial: 23
 Acq On : 21 Jul 2012 2:48 Operator: FJB
 Sample : L12070658-09 A 826-LOW Inst : hpms11
 Misc : 1,1 Multiplr: 1.00
 MS Integration Params: rteint.p
 Quant Time: Jul 23 08:41:13 2012 Quant Results File: 8260WTR.RES

Quant Method : C:\MSDCHEM\1\METHODS\8260WTR.M (RTE Integrator)
 Title : 8260B/624 (SOP: OVL MSV01) Water 05/03/12 HPMS11
 Last Update : Fri Jul 13 11:24:02 2012
 Response via : Initial Calibration
 DataAcq Meth : 8260WTR

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene	10.28	96	428561	25.00	ug/L	-0.01
57) Chlorobenzene-d5	13.91	117	316148	25.00	ug/L	-0.01
78) 1,4-Dichlorobenzene-d4	16.72	152	149071	25.00	ug/L	0.00
System Monitoring Compounds						
37) Dibromofluoromethane	9.30	111	112528	21.5476	ug/L	0.00
Spiked Amount	25.000	Range	86 - 118	Recovery	=	86.20%
43) 1,2-Dichloroethane-d4	9.90	65	109793	21.9709	ug/L	0.00
Spiked Amount	25.000	Range	80 - 120	Recovery	=	87.88%
58) Toluene-d8	12.14	98	436239	26.1596	ug/L	-0.01
Spiked Amount	25.000	Range	88 - 110	Recovery	=	104.64%
80) p-Bromofluorobenzene	15.30	95	143231	29.0687	ug/L	-0.01
Spiked Amount	25.000	Range	86 - 115	Recovery	=	116.28%#
Target Compounds						
3) Chloromethane	3.47	50	2081	0.2191	ug/L	Qvalue # 70

(#) = qualifier out of range (m) = manual integration
 11M85464.D 8260WTR.M Mon Jul 23 08:41:14 2012

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Data File : C:\MSDCHEM\1\DATA\072012\11M85464.D

Vial: 23

Acq On : 21 Jul 2012 2:48

Operator: FJB

Sample : L12070658-09 A 826-LOW

Inst : hpms11

Misc : 1,1

Multiplr: 1.00

MS Integration Params: rteint.p

Quant Time: Jul 23 8:41 2012

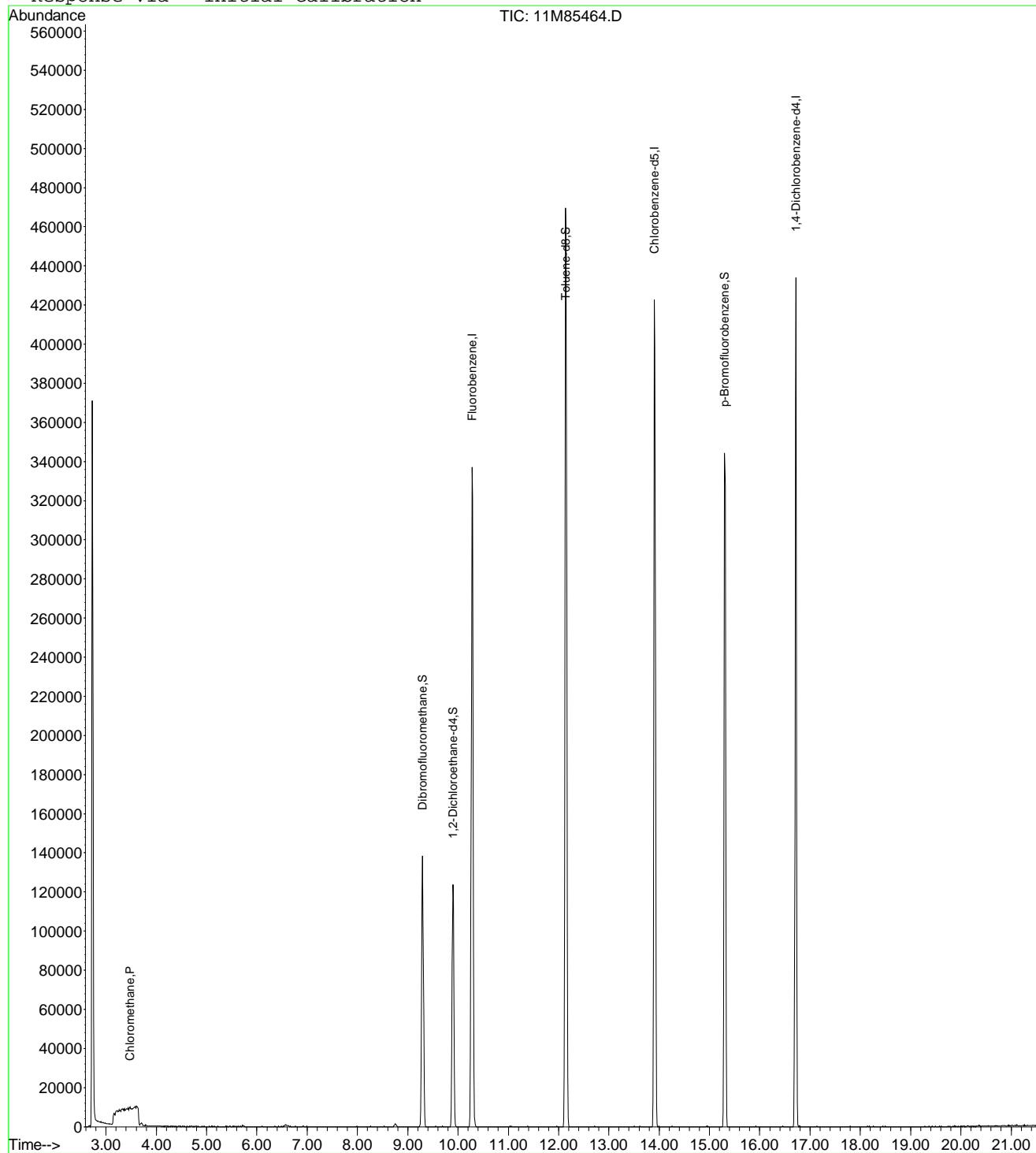
Quant Results File: 8260WTR.RES

Method : C:\MSDCHEM\1\METHODS\8260WTR.M (RTE Integrator)

Title : 8260B/624 (SOP: OVL MSV01) Water 05/03/12 HPMS11

Last Update : Fri Jul 13 11:24:02 2012

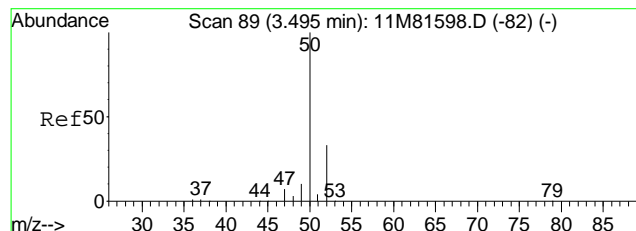
Response via : Initial Calibration



11M85464.D 8260WTR.M

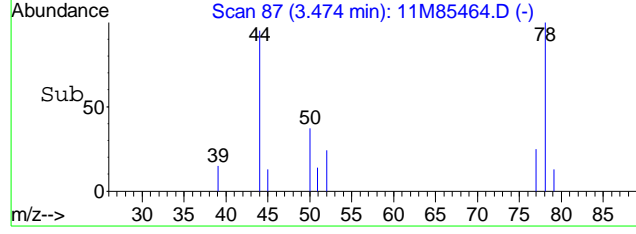
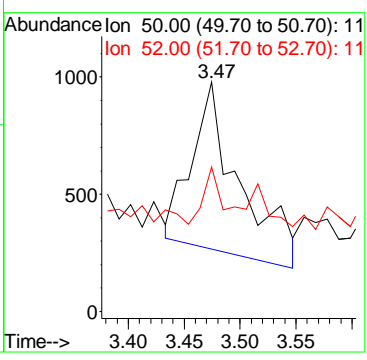
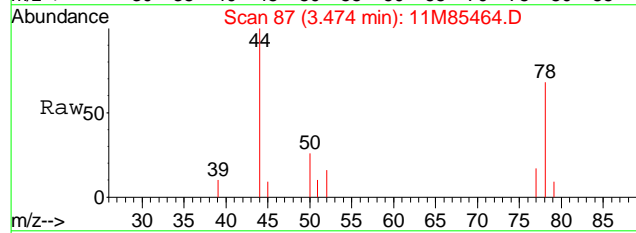
Mon Jul 23 08:41:14 2012

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#3
 Chloromethane
 Concen: 0.22 ug/L
 RT: 3.47 min Scan# 87
 Delta R.T. 0.01 min
 Lab File: 11M85464.D
 Acq: 21 Jul 2012 2:48

Tgt Ion	Ratio	Lower	Upper
50	100		
52	15.4	19.4	45.2#



Data File : C:\MSDCHEM\1\DATA\072112\10M97167.D Vial: 12
 Acq On : 21 Jul 2012 21:06 Operator: MES
 Sample : L12070658-10 B 826-LOW Inst : HPMS10
 Misc : 1,1 Multiplr: 1.00
 MS Integration Params: RTEINT.P
 Quant Time: Jul 23 15:51:27 2012 Quant Results File: 8260BWT.RES

Quant Method : C:\MSDCHEM\1\METHODS\8260BWT.M (RTE Integrator)
 Title : 8260B/624 WT (SOP: OVL MSV01) 06/26/12 HPMS10
 Last Update : Tue Jul 10 17:22:08 2012
 Response via : Initial Calibration
 DataAcq Meth : 8260BWT

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene	10.10	96	422286	25.00	ug/L	0.00
57) Chlorobenzene-d5	13.71	117	311894	25.00	ug/L	0.00
78) 1,4-Dichlorobenzene-d4	16.51	152	151449	25.00	ug/L	0.00
System Monitoring Compounds						
37) Dibromofluoromethane	9.12	111	95601	24.69	ug/L	0.01
Spiked Amount	25.000	Range 86 - 118	Recovery	=	98.76%	
43) 1,2-Dichloroethane-d4	9.72	65	100117	24.76	ug/L	0.00
Spiked Amount	25.000	Range 80 - 120	Recovery	=	99.04%	
58) Toluene-d8	11.95	98	335865	25.22	ug/L	0.00
Spiked Amount	25.000	Range 88 - 110	Recovery	=	100.88%	
80) p-Bromofluorobenzene	15.10	95	118822	26.20	ug/L	0.00
Spiked Amount	25.000	Range 86 - 115	Recovery	=	104.80%	
Target Compounds						
13) Acetone	5.83	43	1337	1.35	ug/L	Qvalue # 46

(#) = qualifier out of range (m) = manual integration
 10M97167.D 8260BWT.M Mon Jul 23 15:51:28 2012

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Data File : C:\MSDCHEM\1\DATA\072112\10M97167.D

Vial: 12

Acq On : 21 Jul 2012 21:06

Operator: MES

Sample : L12070658-10 B 826-LOW

Inst : HPMS10

Misc : 1,1

Multiplr: 1.00

MS Integration Params: RTEINT.P

Quant Time: Jul 23 15:51 2012

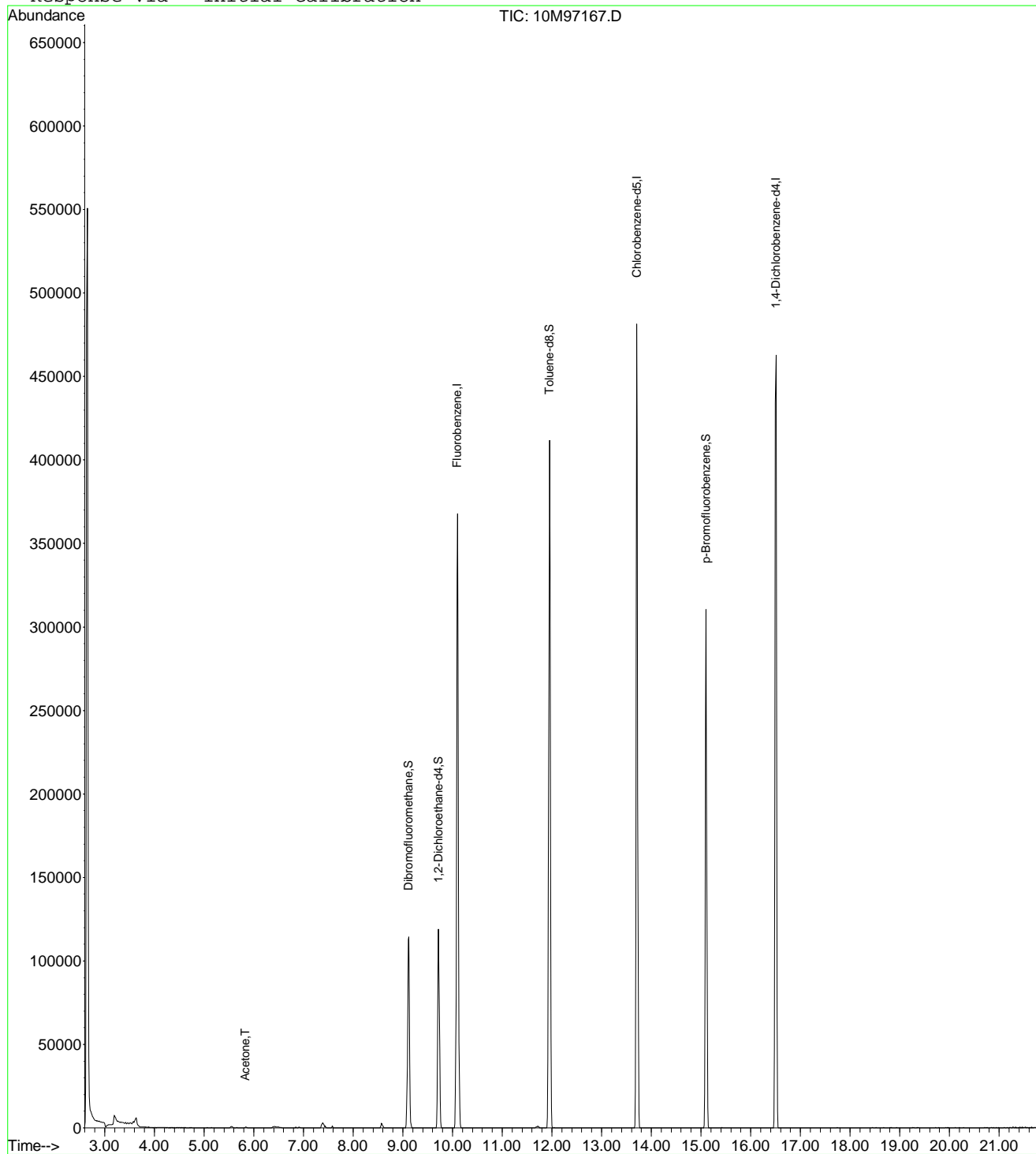
Quant Results File: 8260BWT.RES

Method : C:\MSDCHEM\1\METHODS\8260BWT.M (RTE Integrator)

Title : 8260B/624 WT (SOP: OVL MSV01) 06/26/12 HPMS10

Last Update : Tue Jul 10 17:22:08 2012

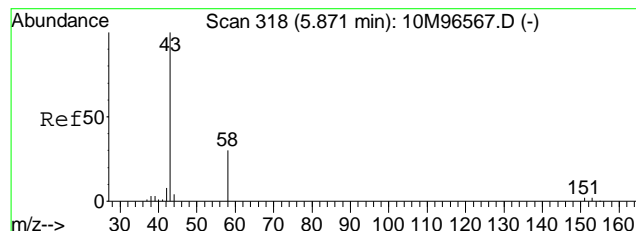
Response via : Initial Calibration



10M97167.D 8260BWT.M

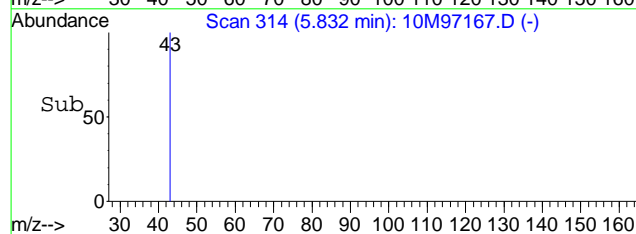
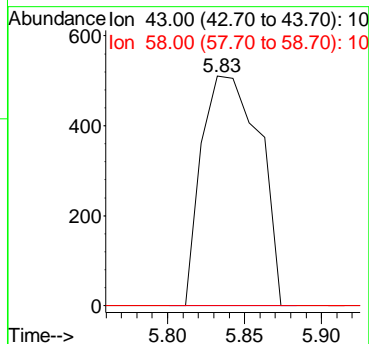
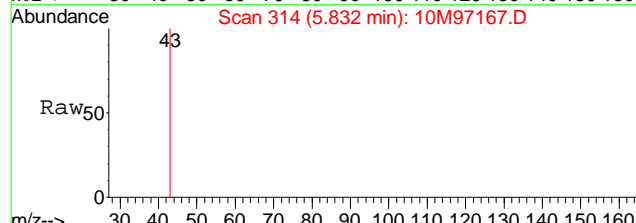
Mon Jul 23 15:51:28 2012

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#13
 Acetone
 Concen: 1.35 ug/L
 RT: 5.83 min Scan# 314
 Delta R.T. 0.02 min
 Lab File: 10M97167.D
 Acq: 21 Jul 2012 21:06

Tgt Ion	Ratio	Lower	Upper
43	100		
58	0.0	17.2	40.2#



Data File : C:\MSDCHEM\1\DATA\072112\10M97168.D Vial: 13
 Acq On : 21 Jul 2012 21:35 Operator: MES
 Sample : L12070658-11 A 826-LOW Inst : HPMS10
 Misc : 1,1 Multiplr: 1.00
 MS Integration Params: RTEINT.P
 Quant Time: Jul 23 15:51:28 2012 Quant Results File: 8260BWT.RES

Quant Method : C:\MSDCHEM\1\METHODS\8260BWT.M (RTE Integrator)
 Title : 8260B/624 WT (SOP: OVL MSV01) 06/26/12 HPMS10
 Last Update : Tue Jul 10 17:22:08 2012
 Response via : Initial Calibration
 DataAcq Meth : 8260BWT

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene	10.10	96	416440	25.00	ug/L	0.00
57) Chlorobenzene-d5	13.72	117	307608	25.00	ug/L	0.00
78) 1,4-Dichlorobenzene-d4	16.51	152	147909	25.00	ug/L	-0.01
System Monitoring Compounds						
37) Dibromofluoromethane	9.12	111	93921	24.60	ug/L	0.00
Spiked Amount	25.000	Range 86 - 118	Recovery	=	98.40%	
43) 1,2-Dichloroethane-d4	9.72	65	97856	24.54	ug/L	0.00
Spiked Amount	25.000	Range 80 - 120	Recovery	=	98.16%	
58) Toluene-d8	11.95	98	332028	25.28	ug/L	0.00
Spiked Amount	25.000	Range 88 - 110	Recovery	=	101.12%	
80) p-Bromofluorobenzene	15.10	95	116362	26.27	ug/L	0.00
Spiked Amount	25.000	Range 86 - 115	Recovery	=	105.08%	
Target Compounds						
13) Acetone	5.84	43	3014	3.08	ug/L	Qvalue # 46
59) Toluene	12.04	91	8562	0.51	ug/L	99

(#) = qualifier out of range (m) = manual integration
 10M97168.D 8260BWT.M Mon Jul 23 15:51:29 2012

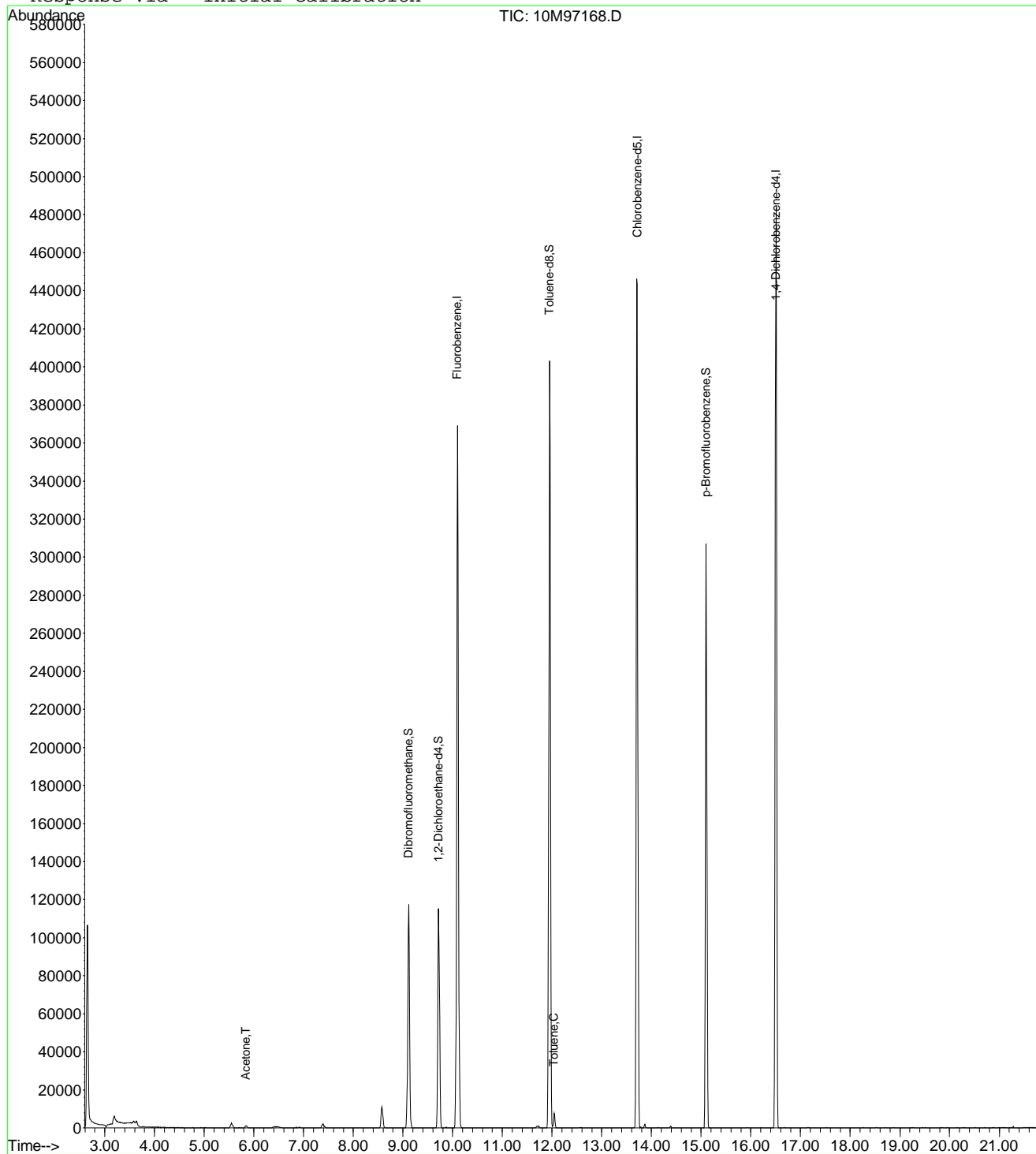
Page 1

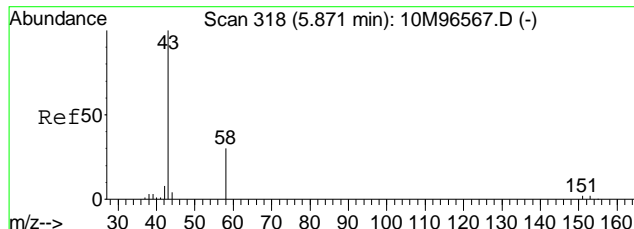
Data File : C:\MSDCHEM\1\DATA\072112\10M97168.D
 Acq On : 21 Jul 2012 21:35
 Sample : L12070658-11 A 826-LOW
 Misc : 1,1
 MS Integration Params: RTEINT.P
 Quant Time: Jul 23 15:51 2012

Vial: 13
 Operator: MES
 Inst : HPMS10
 Multiplr: 1.00

Quant Results File: 8260BWT.RES

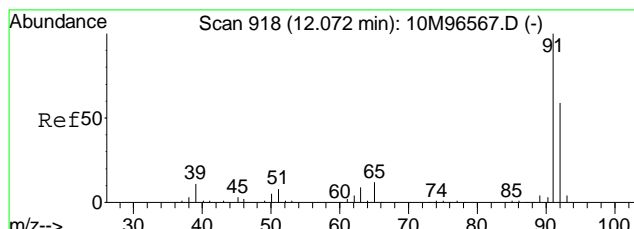
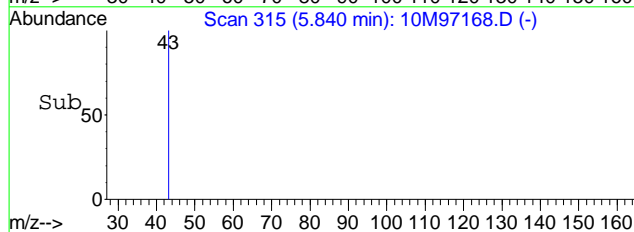
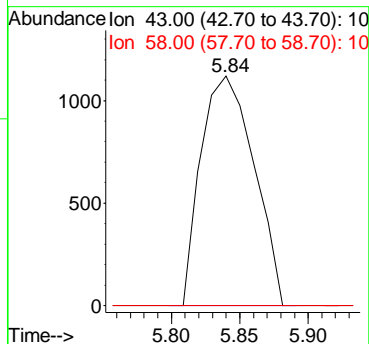
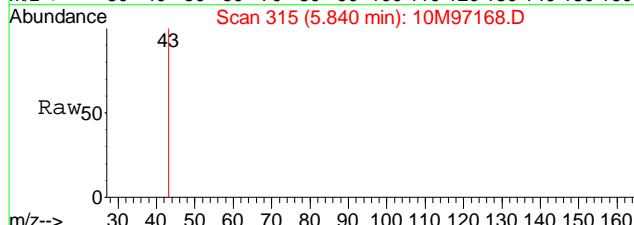
Method : C:\MSDCHEM\1\METHODS\8260BWT.M (RTE Integrator)
 Title : 8260B/624 WT (SOP: OVL MSV01) 06/26/12 HPMS10
 Last Update : Tue Jul 10 17:22:08 2012
 Response via : Initial Calibration





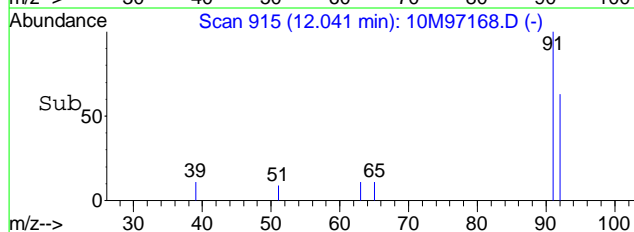
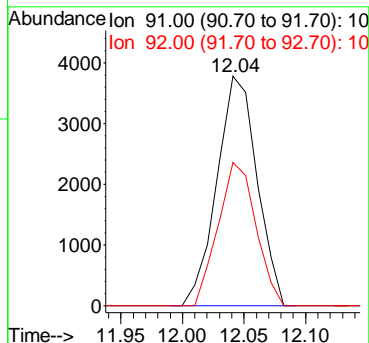
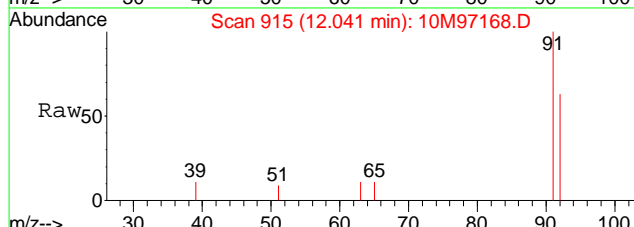
#13
 Acetone
 Concen: 3.08 ug/L
 RT: 5.84 min Scan# 315
 Delta R.T. 0.03 min
 Lab File: 10M97168.D
 Acq: 21 Jul 2012 21:35

Tgt Ion	Ratio	Lower	Upper
43	100		
58	0.0	17.2	40.2#



#59
 Toluene
 Concen: 0.51 ug/L
 RT: 12.04 min Scan# 915
 Delta R.T. -0.01 min
 Lab File: 10M97168.D
 Acq: 21 Jul 2012 21:35

Tgt Ion	Ratio	Lower	Upper
91	100		
92	58.8	35.8	83.4



Data File : C:\MSDCHEM\1\DATA\072112\10M97169.D Vial: 14
 Acq On : 21 Jul 2012 22:04 Operator: MES
 Sample : L12070658-12 A 826-LOW Inst : HPMS10
 Misc : 1,1 Multiplr: 1.00
 MS Integration Params: RTEINT.P
 Quant Time: Jul 23 15:51:29 2012 Quant Results File: 8260BWT.RES

Quant Method : C:\MSDCHEM\1\METHODS\8260BWT.M (RTE Integrator)
 Title : 8260B/624 WT (SOP: OVL MSV01) 06/26/12 HPMS10
 Last Update : Tue Jul 10 17:22:08 2012
 Response via : Initial Calibration
 DataAcq Meth : 8260BWT

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene	10.10	96	417268	25.00	ug/L	0.00
57) Chlorobenzene-d5	13.72	117	307956	25.00	ug/L	0.00
78) 1,4-Dichlorobenzene-d4	16.51	152	153270	25.00	ug/L	-0.01
System Monitoring Compounds						
37) Dibromofluoromethane	9.12	111	95131	24.87	ug/L	0.00
Spiked Amount	25.000	Range 86 - 118	Recovery	=	99.48%	
43) 1,2-Dichloroethane-d4	9.72	65	99216	24.83	ug/L	0.00
Spiked Amount	25.000	Range 80 - 120	Recovery	=	99.32%	
58) Toluene-d8	11.95	98	330245	25.11	ug/L	0.00
Spiked Amount	25.000	Range 88 - 110	Recovery	=	100.44%	
80) p-Bromofluorobenzene	15.10	95	117238	25.54	ug/L	0.00
Spiked Amount	25.000	Range 86 - 115	Recovery	=	102.16%	
Target Compounds						
12) 1,1,2-Trichloro-1,2,2-Trif	5.78	101	89201	24.42	ug/L	96
13) Acetone	5.84	43	2683	2.74	ug/L #	73
14) 1,1-Dichloroethene	6.07	96	4681	1.34	ug/L	88
16) Dimethyl Sulfide	6.30	62	5513	1.22	ug/L	83
20) Carbon Disulfide	6.85	76	32420	3.11	ug/L	97
27) 1,1-Dichloroethane	7.83	63	3403	0.44	ug/L #	77
32) cis-1,2-Dichloroethene	8.64	96	1365	0.31	ug/L	93
47) Trichloroethene	10.57	130	25552	5.99	ug/L	95
66) Tetrachloroethene	12.81	164	211227	60.54	ug/L	91
92) p-Isopropyltoluene	16.25	119	27317	2.02	ug/L	97
100) Naphthalene	19.31	128	387	0.97	ug/L #	67

(#) = qualifier out of range (m) = manual integration
 10M97169.D 8260BWT.M Mon Jul 23 15:51:30 2012

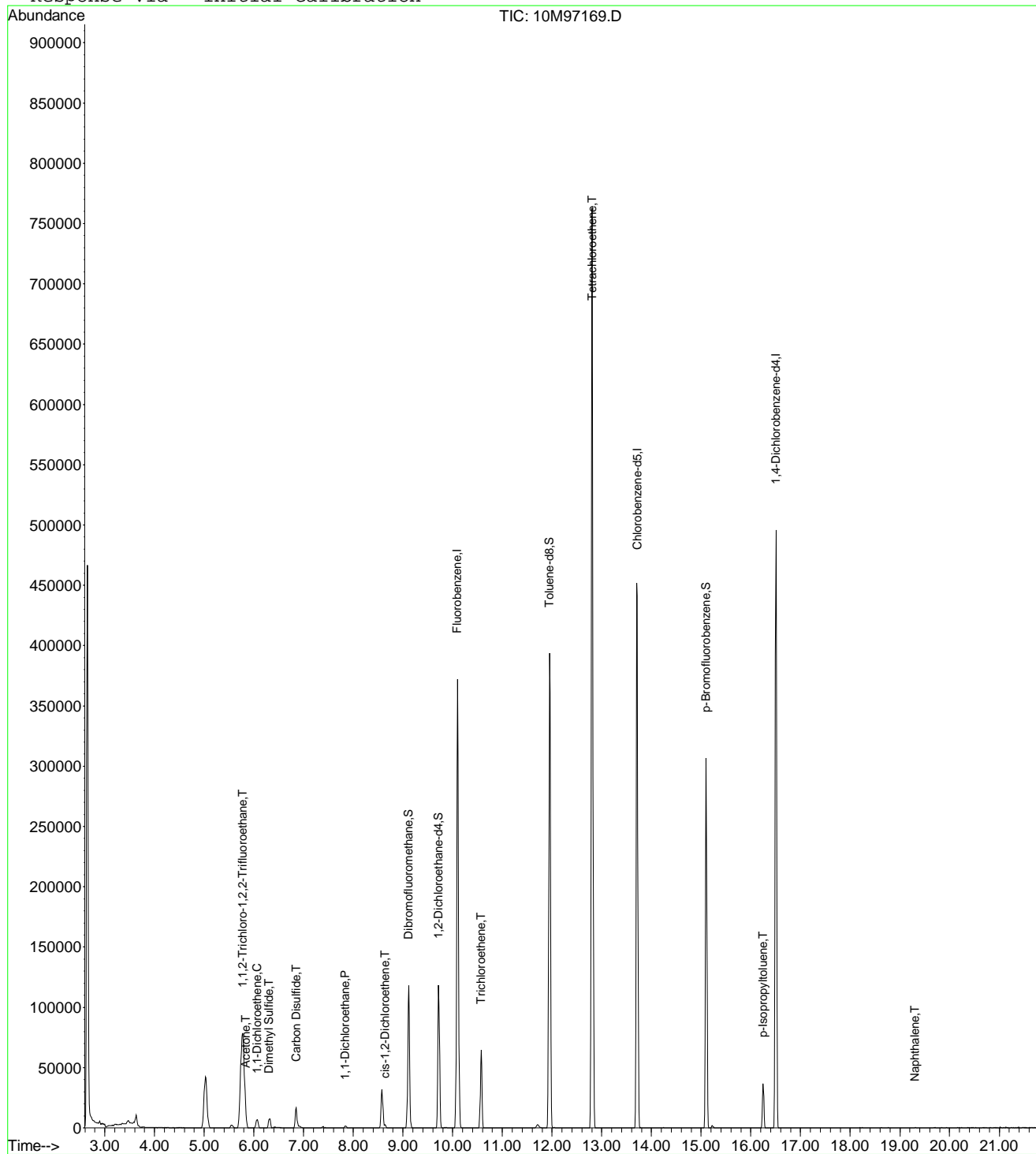
Page 1

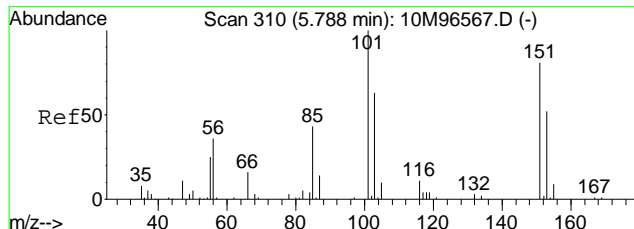
Data File : C:\MSDCHEM\1\DATA\072112\10M97169.D
 Acq On : 21 Jul 2012 22:04
 Sample : L12070658-12 A 826-LOW
 Misc : 1,1
 MS Integration Params: RTEINT.P
 Quant Time: Jul 23 15:51 2012

Vial: 14
 Operator: MES
 Inst : HPMS10
 Multiplr: 1.00

Quant Results File: 8260BWT.RES

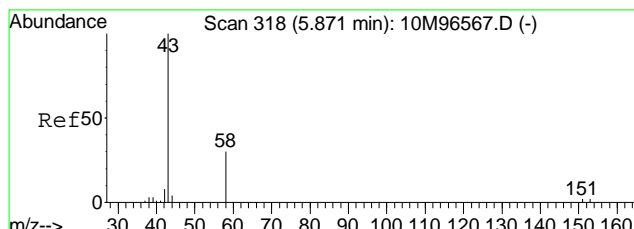
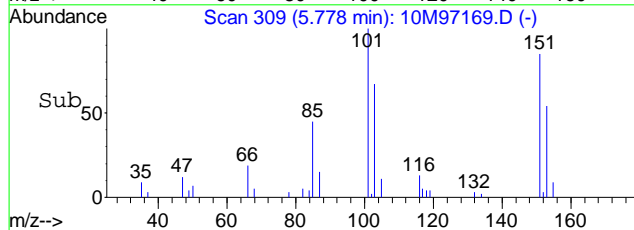
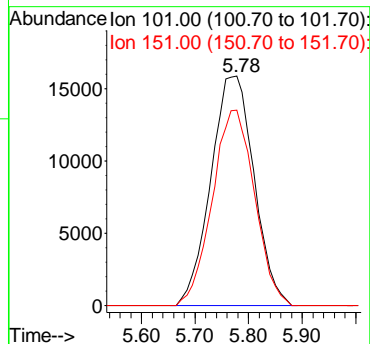
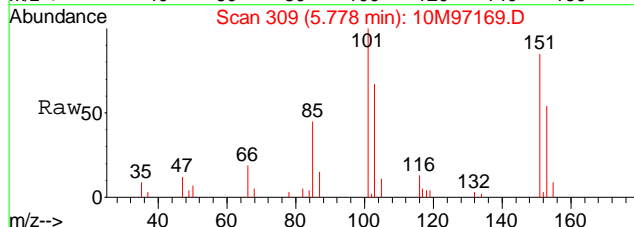
Method : C:\MSDCHEM\1\METHODS\8260BWT.M (RTE Integrator)
 Title : 8260B/624 WT (SOP: OVL MSV01) 06/26/12 HPMS10
 Last Update : Tue Jul 10 17:22:08 2012
 Response via : Initial Calibration





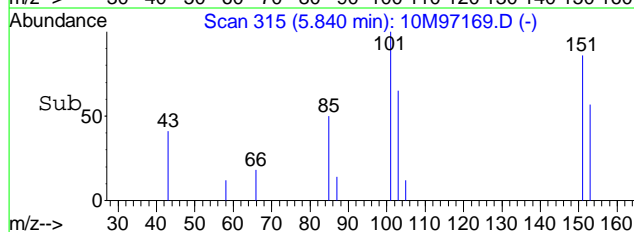
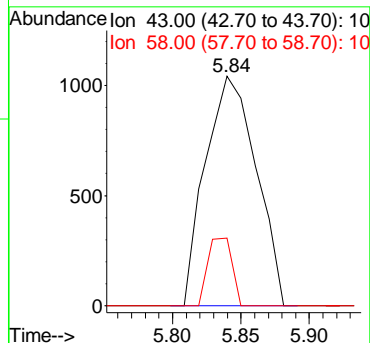
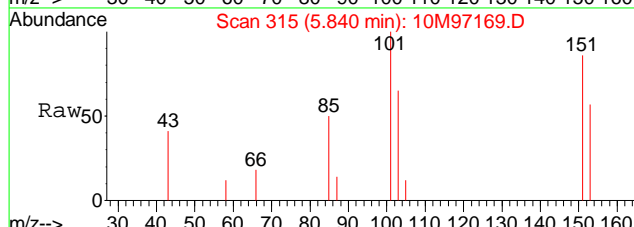
#12
 1,1,2-Trichloro-1,2,2-Trifluoroethane
 Concen: 24.42 ug/L
 RT: 5.78 min Scan# 309
 Delta R.T. 0.04 min
 Lab File: 10M97169.D
 Acq: 21 Jul 2012 22:04

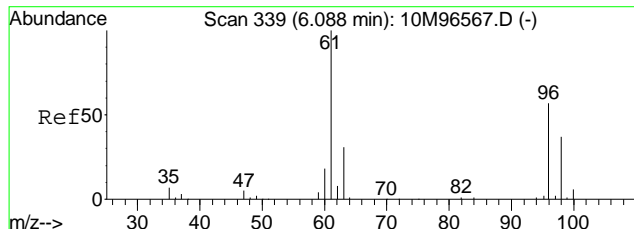
Tgt Ion	Resp	Lower	Upper
101	89201		
101	100		
151	83.1	39.6	119.6



#13
 Acetone
 Concen: 2.74 ug/L
 RT: 5.84 min Scan# 315
 Delta R.T. 0.03 min
 Lab File: 10M97169.D
 Acq: 21 Jul 2012 22:04

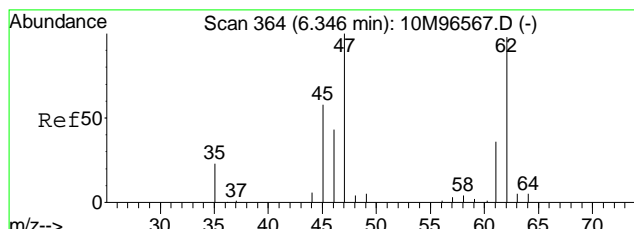
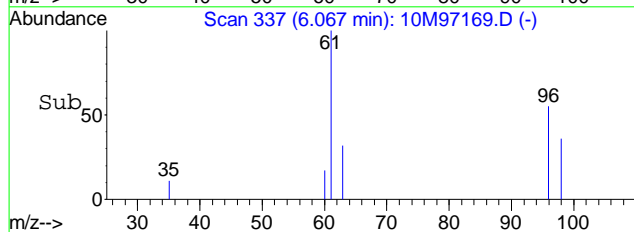
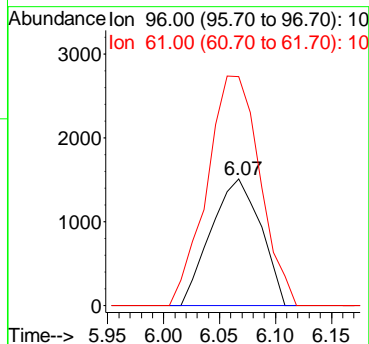
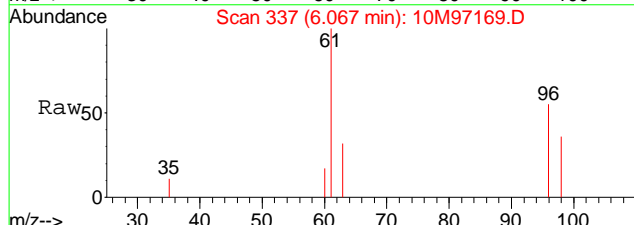
Tgt Ion	Resp	Lower	Upper
43	2683		
43	100		
58	14.1	17.2	40.2#





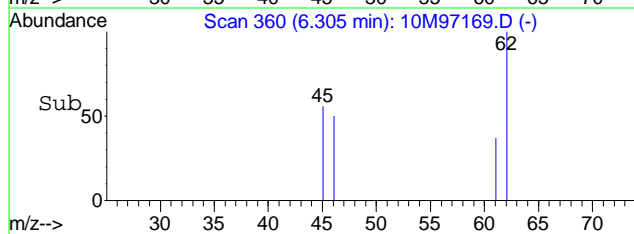
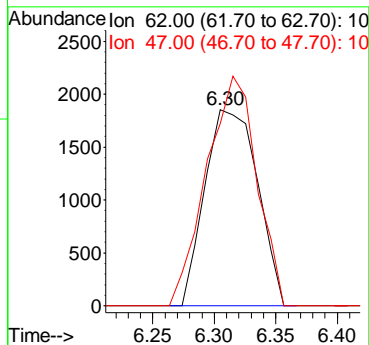
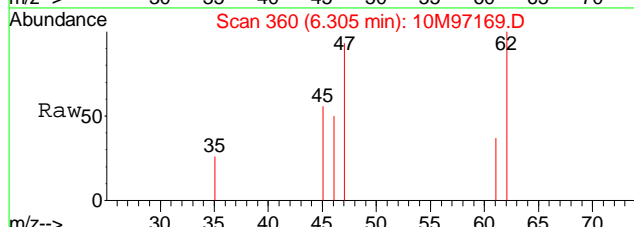
#14
 1,1-Dichloroethene
 Concen: 1.34 ug/L
 RT: 6.07 min Scan# 337
 Delta R.T. 0.03 min
 Lab File: 10M97169.D
 Acq: 21 Jul 2012 22:04

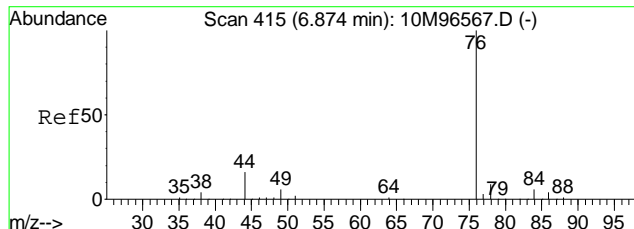
Tgt Ion: 96 Resp: 4681
 Ion Ratio Lower Upper
 96 100
 61 192.8 105.8 247.0



#16
 Dimethyl Sulfide
 Concen: 1.22 ug/L
 RT: 6.30 min Scan# 360
 Delta R.T. 0.02 min
 Lab File: 10M97169.D
 Acq: 21 Jul 2012 22:04

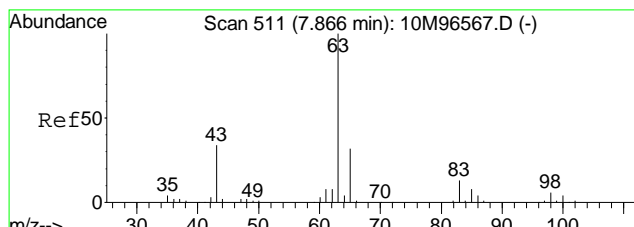
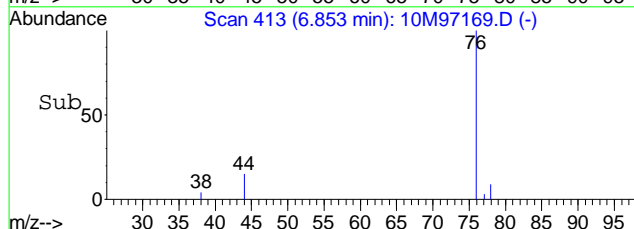
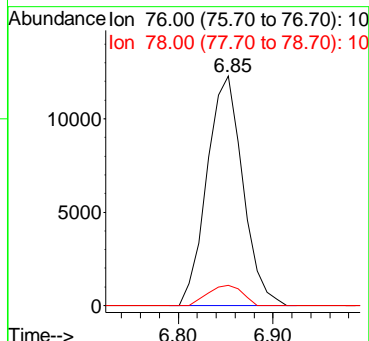
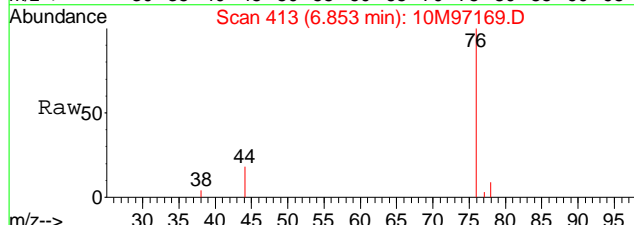
Tgt Ion: 62 Resp: 5513
 Ion Ratio Lower Upper
 62 100
 47 112.0 57.2 133.6





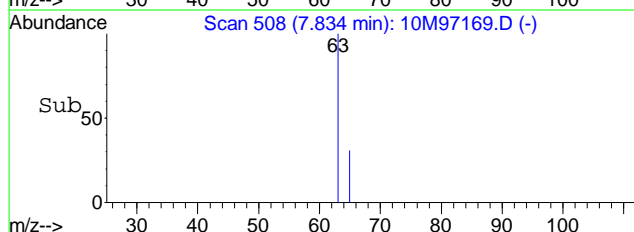
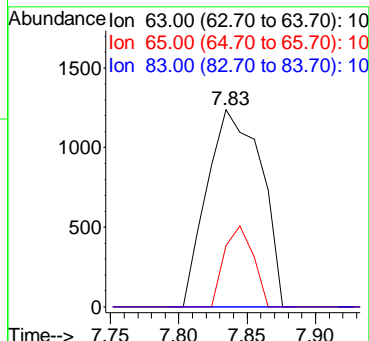
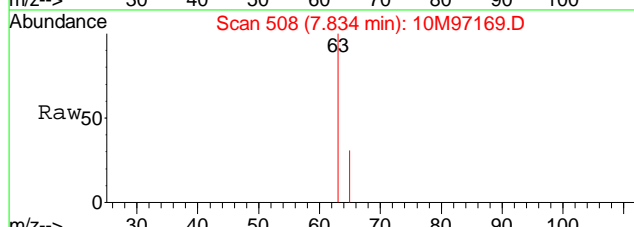
#20
 Carbon Disulfide
 Concen: 3.11 ug/L
 RT: 6.85 min Scan# 413
 Delta R.T. 0.03 min
 Lab File: 10M97169.D
 Acq: 21 Jul 2012 22:04

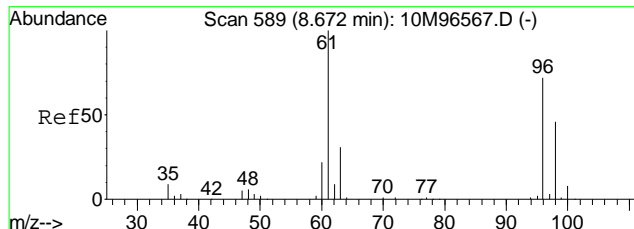
Tgt Ion	Ratio	Lower	Upper
76	100		
78	8.5	5.7	13.3



#27
 1,1-Dichloroethane
 Concen: 0.44 ug/L
 RT: 7.83 min Scan# 508
 Delta R.T. 0.01 min
 Lab File: 10M97169.D
 Acq: 21 Jul 2012 22:04

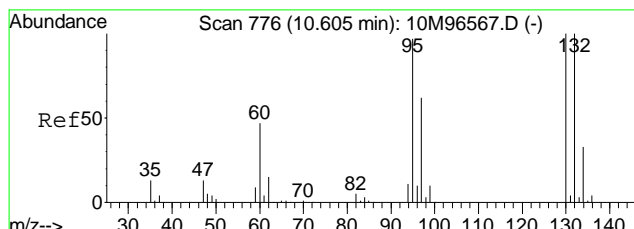
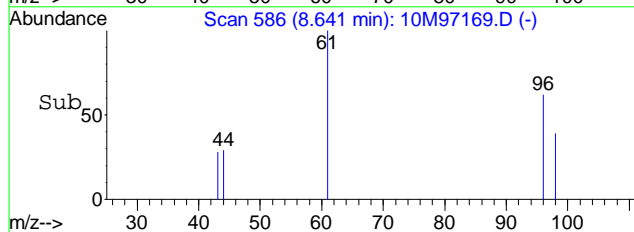
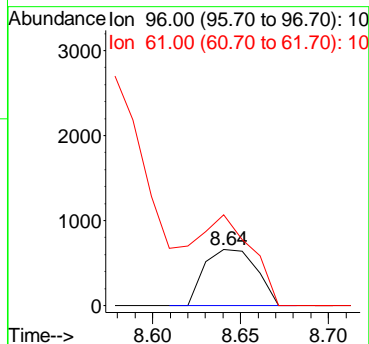
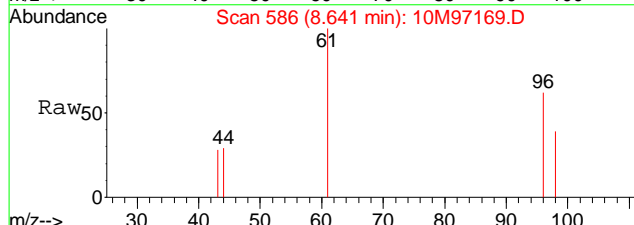
Tgt Ion	Ratio	Lower	Upper
63	100		
65	21.9	19.2	44.8
83	0.0	8.3	19.5#





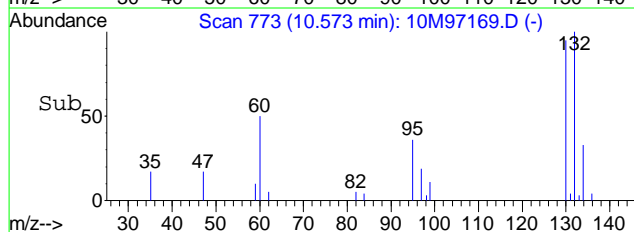
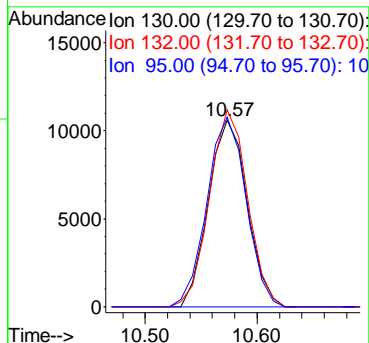
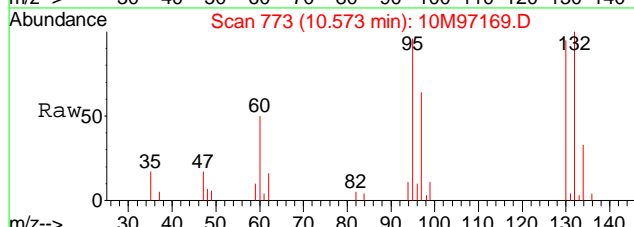
#32
 cis-1,2-Dichloroethene
 Concen: 0.31 ug/L
 RT: 8.64 min Scan# 586
 Delta R.T. 0.01 min
 Lab File: 10M97169.D
 Acq: 21 Jul 2012 22:04

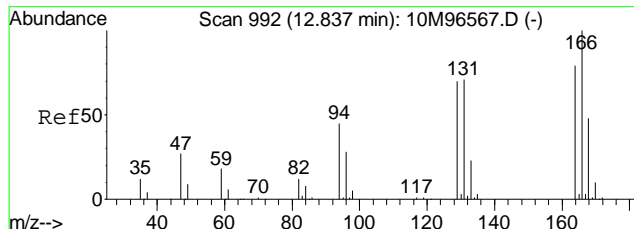
Tgt Ion	Resp	Lower	Upper
96	1365		
61	150.0	95.5	222.9



#47
 Trichloroethene
 Concen: 5.99 ug/L
 RT: 10.57 min Scan# 773
 Delta R.T. -0.00 min
 Lab File: 10M97169.D
 Acq: 21 Jul 2012 22:04

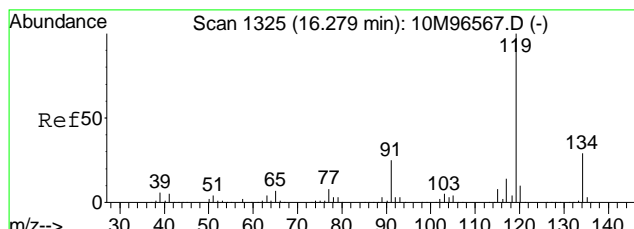
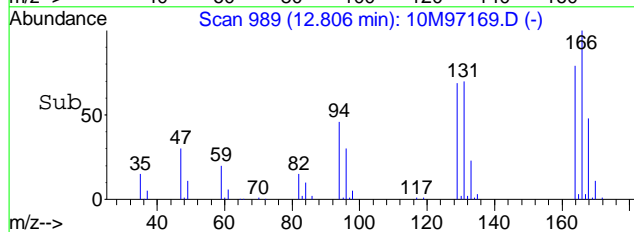
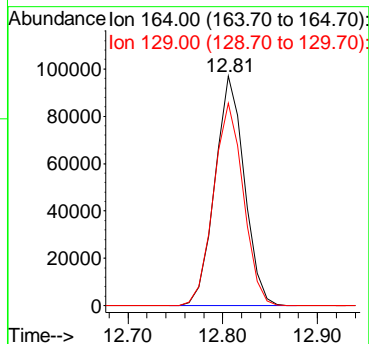
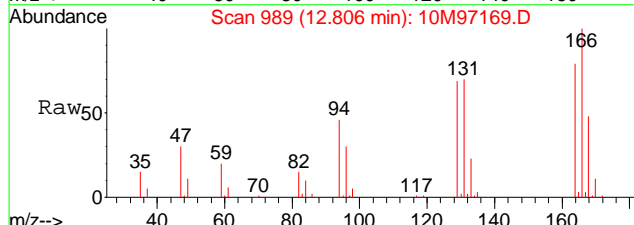
Tgt Ion	Resp	Lower	Upper
130	25552		
132	103.5	57.8	135.0
95	102.6	59.6	139.0





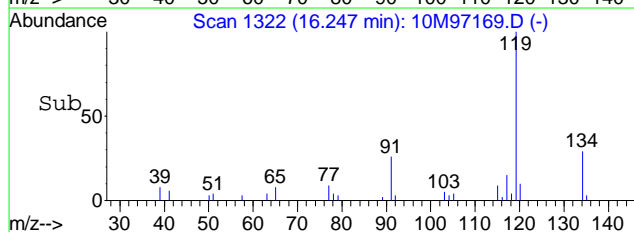
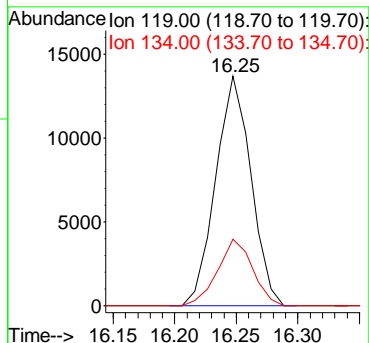
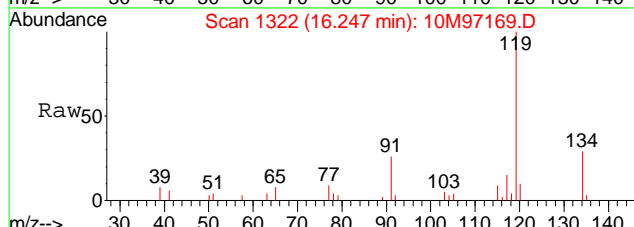
#66
 Tetrachloroethene
 Concen: 60.54 ug/L
 RT: 12.81 min Scan# 989
 Delta R.T. -0.00 min
 Lab File: 10M97169.D
 Acq: 21 Jul 2012 22:04

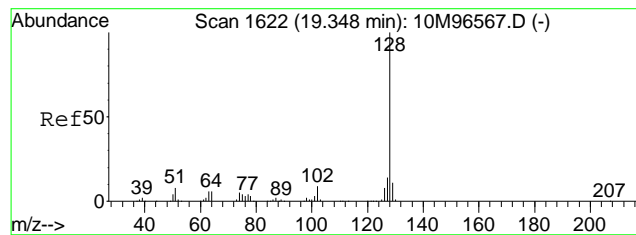
Tgt Ion	Ratio	Lower	Upper
164	100		
129	89.5	59.1	137.9



#92
 p-Isopropyltoluene
 Concen: 2.02 ug/L
 RT: 16.25 min Scan# 1322
 Delta R.T. -0.01 min
 Lab File: 10M97169.D
 Acq: 21 Jul 2012 22:04

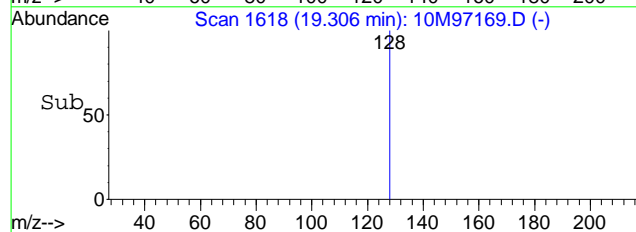
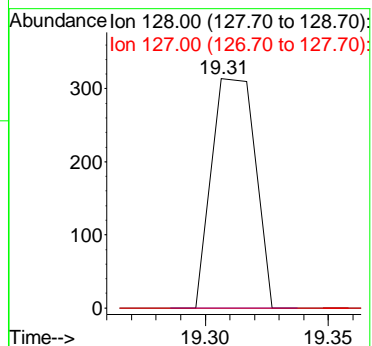
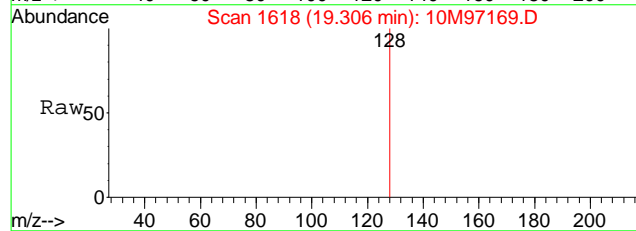
Tgt Ion	Ratio	Lower	Upper
119	100		
134	28.8	16.4	38.2





#100
Naphthalene
Concen: 0.97 ug/L
RT: 19.31 min Scan# 1618
Delta R.T. -0.01 min
Lab File: 10M97169.D
Acq: 21 Jul 2012 22:04

Tgt Ion	Ratio	Lower	Upper
128	100		
127	0.0	7.9	18.3#



Data File : C:\MSDCHEM\1\DATA\072112\10M97163.D Vial: 8
 Acq On : 21 Jul 2012 19:08 Operator: MES
 Sample : L12070658-13 A 826-LOW Inst : HPMS10
 Misc : 1,1 Multiplr: 1.00
 MS Integration Params: RTEINT.P
 Quant Time: Jul 23 15:51:22 2012 Quant Results File: 8260BWT.RES

Quant Method : C:\MSDCHEM\1\METHODS\8260BWT.M (RTE Integrator)
 Title : 8260B/624 WT (SOP: OVL MSV01) 06/26/12 HPMS10
 Last Update : Tue Jul 10 17:22:08 2012
 Response via : Initial Calibration
 DataAcq Meth : 8260BWT

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene	10.10	96	465168	25.00	ug/L	0.00
57) Chlorobenzene-d5	13.71	117	345881	25.00	ug/L	-0.01
78) 1,4-Dichlorobenzene-d4	16.51	152	171550	25.00	ug/L	-0.01
System Monitoring Compounds						
37) Dibromofluoromethane	9.12	111	104454	24.49	ug/L	0.00
Spiked Amount	25.000	Range 86 - 118	Recovery	=	97.96%	
43) 1,2-Dichloroethane-d4	9.72	65	112148	25.17	ug/L	0.00
Spiked Amount	25.000	Range 80 - 120	Recovery	=	100.68%	
58) Toluene-d8	11.95	98	373527	25.29	ug/L	0.00
Spiked Amount	25.000	Range 88 - 110	Recovery	=	101.16%	
80) p-Bromofluorobenzene	15.10	95	133647	26.01	ug/L	0.00
Spiked Amount	25.000	Range 86 - 115	Recovery	=	104.04%	
Target Compounds						
3) Chloromethane	3.36	50	1012	0.15	ug/L #	74
13) Acetone	5.85	43	2292	2.10	ug/L #	46
25) Diisopropyl ether	7.61	45	9109	0.56	ug/L #	27

 (#) = qualifier out of range (m) = manual integration
 10M97163.D 8260BWT.M Mon Jul 23 15:51:22 2012

Page 1

Data File : C:\MSDCHEM\1\DATA\072112\10M97163.D

Vial: 8

Acq On : 21 Jul 2012 19:08

Operator: MES

Sample : L12070658-13 A 826-LOW

Inst : HPMS10

Misc : 1,1

Multiplr: 1.00

MS Integration Params: RTEINT.P

Quant Time: Jul 23 15:51 2012

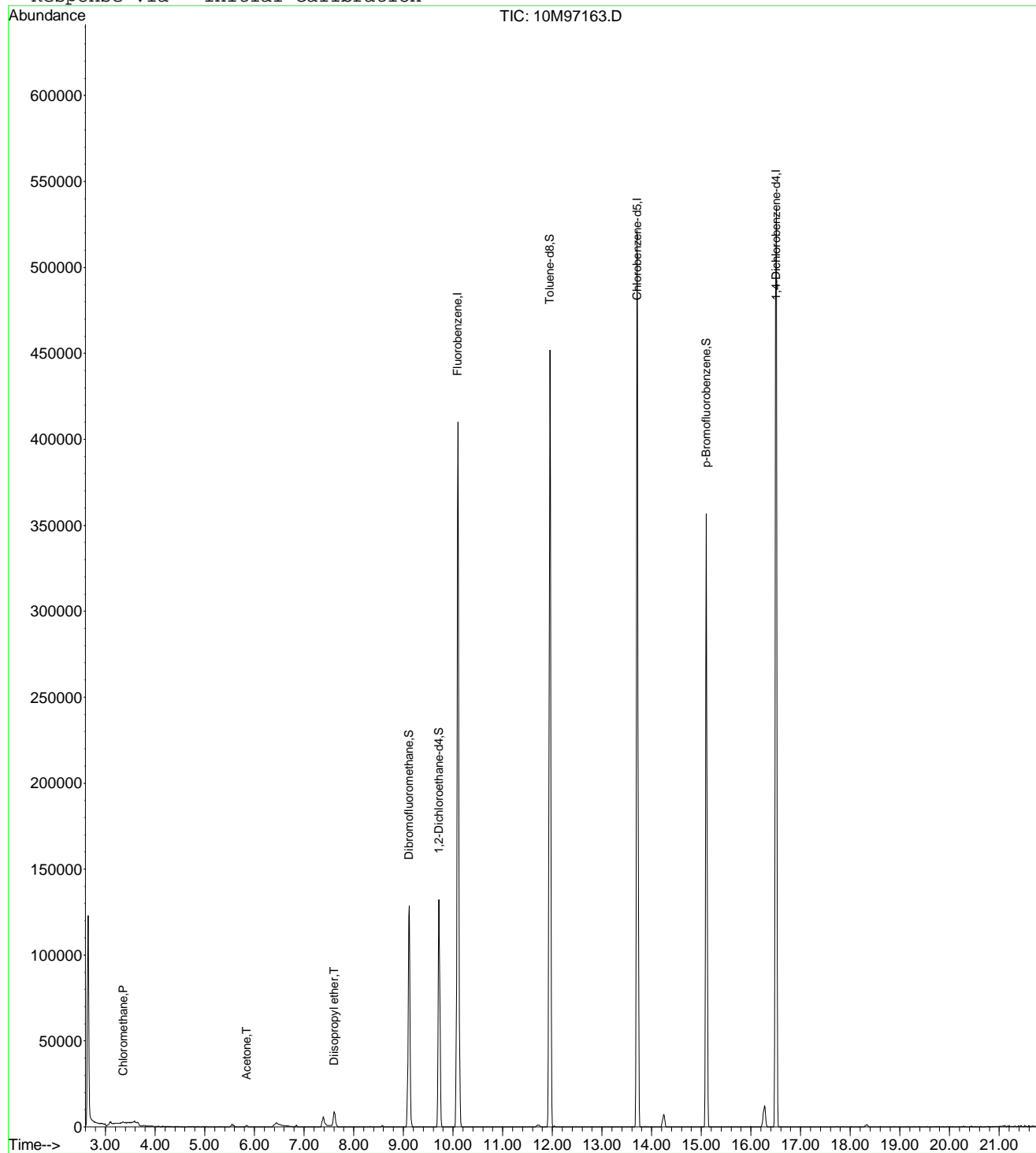
Quant Results File: 8260BWT.RES

Method : C:\MSDCHEM\1\METHODS\8260BWT.M (RTE Integrator)

Title : 8260B/624 WT (SOP: OVL MSV01) 06/26/12 HPMS10

Last Update : Tue Jul 10 17:22:08 2012

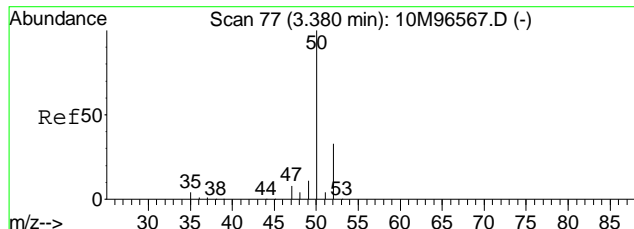
Response via : Initial Calibration



10M97163.D 8260BWT.M

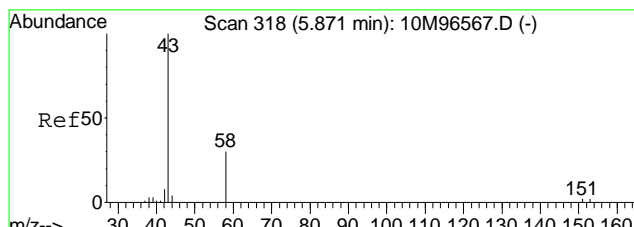
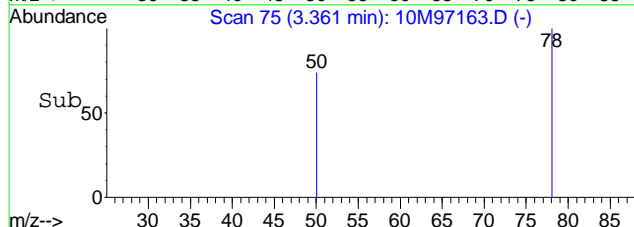
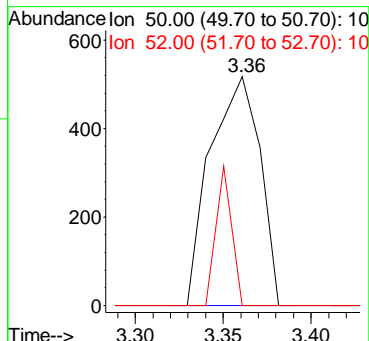
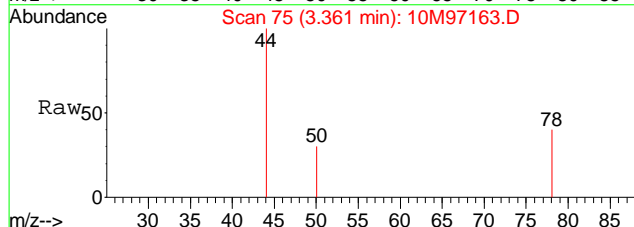
Mon Jul 23 15:51:23 2012

Page 2



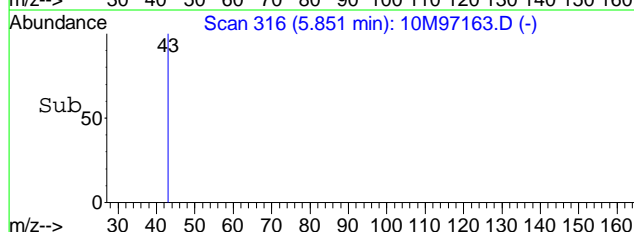
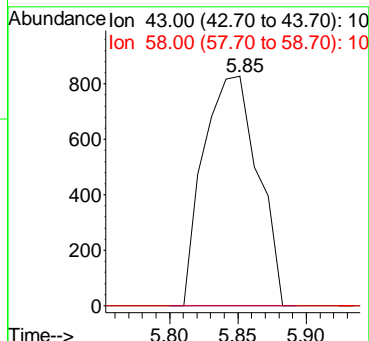
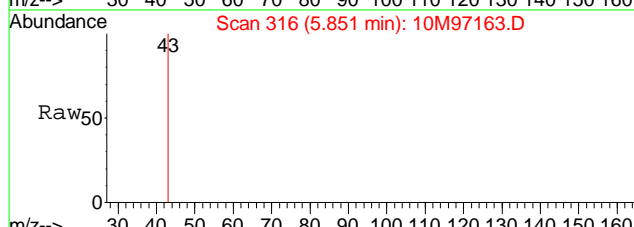
#3
 Chloromethane
 Concen: 0.15 ug/L
 RT: 3.36 min Scan# 75
 Delta R.T. 0.01 min
 Lab File: 10M97163.D
 Acq: 21 Jul 2012 19:08

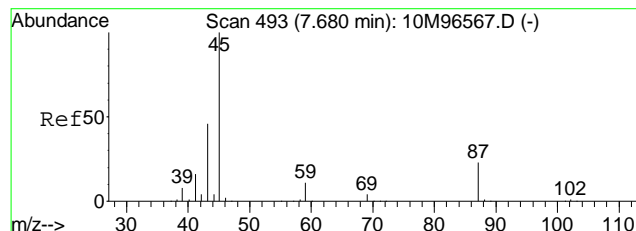
Tgt Ion: 50 Resp: 1012
 Ion Ratio Lower Upper
 50 100
 52 19.3 20.6 48.0#



#13
 Acetone
 Concen: 2.10 ug/L
 RT: 5.85 min Scan# 316
 Delta R.T. 0.04 min
 Lab File: 10M97163.D
 Acq: 21 Jul 2012 19:08

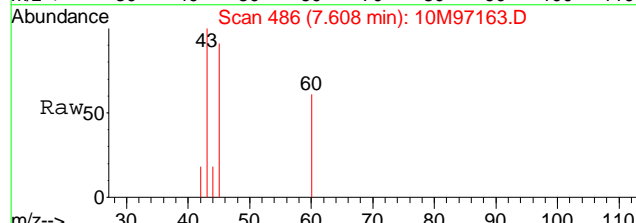
Tgt Ion: 43 Resp: 2292
 Ion Ratio Lower Upper
 43 100
 58 0.0 17.2 40.2#



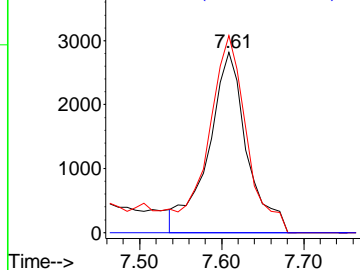
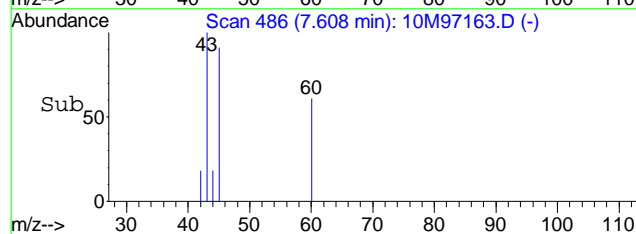


#25
 Diisopropyl ether
 Concen: 0.56 ug/L
 RT: 7.61 min Scan# 486
 Delta R.T. -0.03 min
 Lab File: 10M97163.D
 Acq: 21 Jul 2012 19:08

Tgt Ion	Ratio	Lower	Upper
45	100		
43	106.3	29.3	68.5#
87	0.0	16.1	37.5#



Abundance Ion 45.00 (44.70 to 45.70): 10
 Ion 43.00 (42.70 to 43.70): 10
 Ion 87.00 (86.70 to 87.70): 10



Data File : C:\MSDCHEM\1\DATA\072112\10M97170.D Vial: 15
 Acq On : 21 Jul 2012 22:34 Operator: MES
 Sample : L12070658-14 A 826-LOW Inst : HPMS10
 Misc : 1,1 Multiplr: 1.00
 MS Integration Params: RTEINT.P
 Quant Time: Jul 23 15:51:31 2012 Quant Results File: 8260BWT.RES

Quant Method : C:\MSDCHEM\1\METHODS\8260BWT.M (RTE Integrator)
 Title : 8260B/624 WT (SOP: OVL MSV01) 06/26/12 HPMS10
 Last Update : Tue Jul 10 17:22:08 2012
 Response via : Initial Calibration
 DataAcq Meth : 8260BWT

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene	10.10	96	410299	25.00	ug/L	0.00
57) Chlorobenzene-d5	13.72	117	304127	25.00	ug/L	0.00
78) 1,4-Dichlorobenzene-d4	16.51	152	146563	25.00	ug/L	-0.01
System Monitoring Compounds						
37) Dibromofluoromethane	9.12	111	92808	24.67	ug/L	0.00
Spiked Amount	25.000	Range 86 - 118	Recovery	=	98.68%	
43) 1,2-Dichloroethane-d4	9.72	65	94361	24.01	ug/L	0.00
Spiked Amount	25.000	Range 80 - 120	Recovery	=	96.04%	
58) Toluene-d8	11.95	98	328670	25.31	ug/L	0.00
Spiked Amount	25.000	Range 88 - 110	Recovery	=	101.24%	
80) p-Bromofluorobenzene	15.10	95	115049	26.21	ug/L	0.00
Spiked Amount	25.000	Range 86 - 115	Recovery	=	104.84%	
Target Compounds						
13) Acetone	5.84	43	1607	1.67	ug/L #	46
32) cis-1,2-Dichloroethene	8.63	96	838	0.19	ug/L #	1
47) Trichloroethene	10.57	130	56788	13.53	ug/L	97
66) Tetrachloroethene	12.81	164	3772	1.09	ug/L	85

(#) = qualifier out of range (m) = manual integration
 10M97170.D 8260BWT.M Mon Jul 23 15:51:32 2012

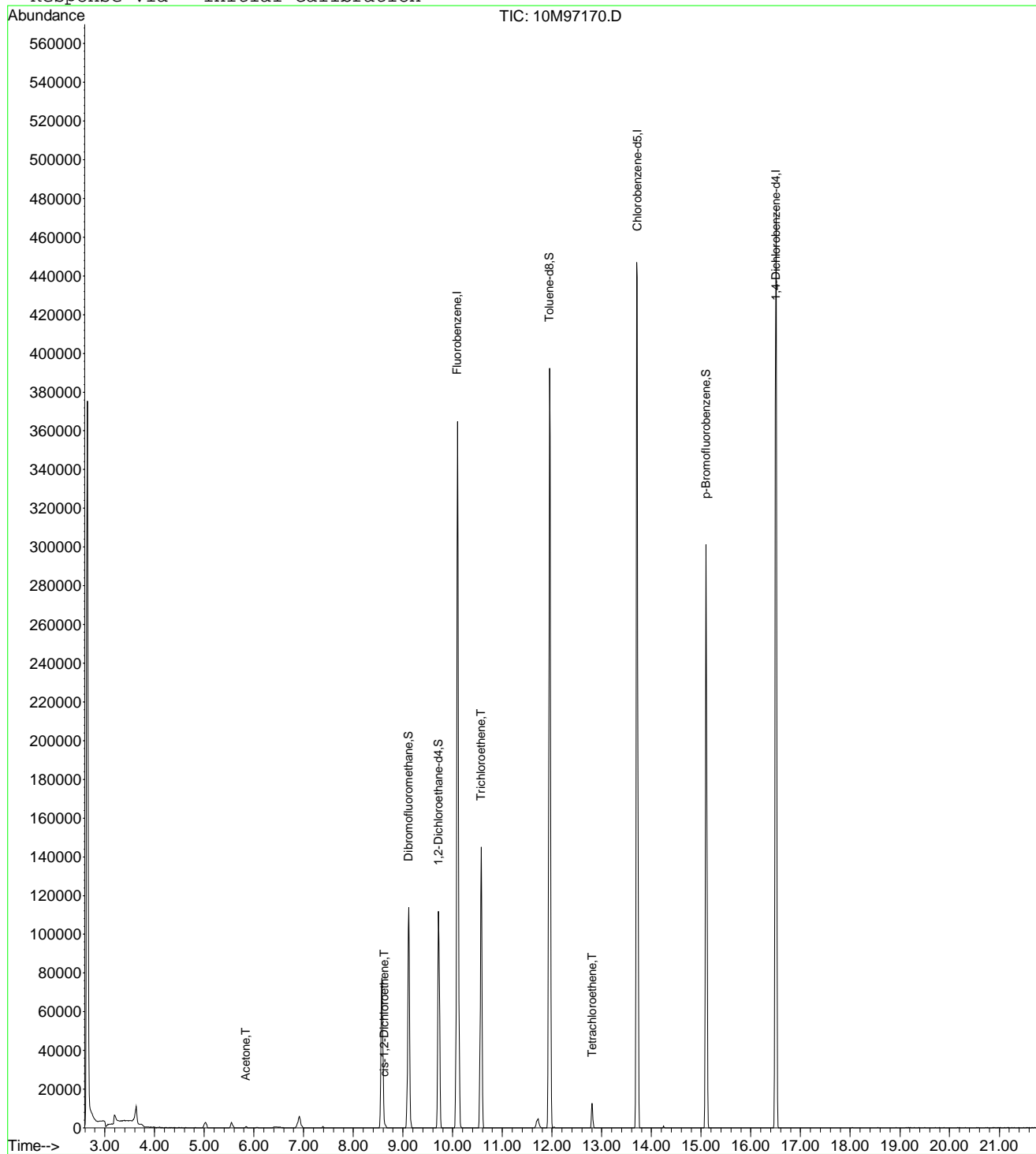
Page 1

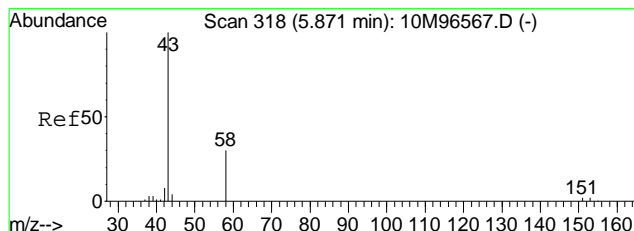
Data File : C:\MSDCHEM\1\DATA\072112\10M97170.D
 Acq On : 21 Jul 2012 22:34
 Sample : L12070658-14 A 826-LOW
 Misc : 1,1
 MS Integration Params: RTEINT.P
 Quant Time: Jul 23 15:51 2012

Vial: 15
 Operator: MES
 Inst : HPMS10
 Multiplr: 1.00

Quant Results File: 8260BWT.RES

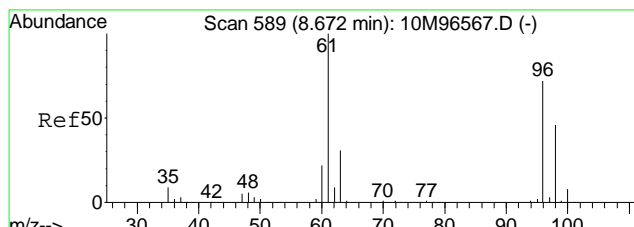
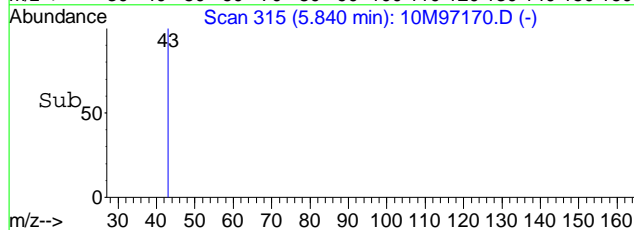
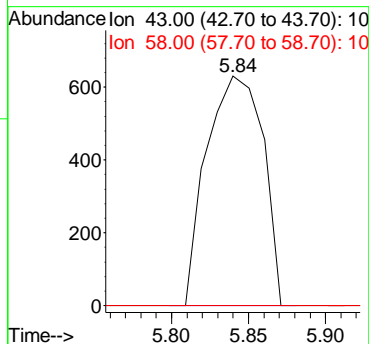
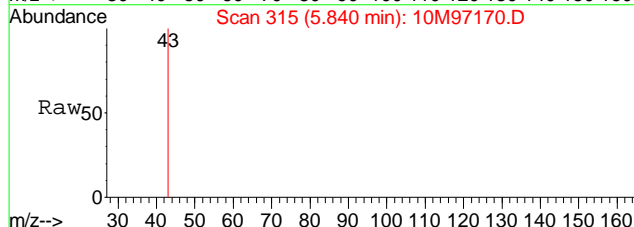
Method : C:\MSDCHEM\1\METHODS\8260BWT.M (RTE Integrator)
 Title : 8260B/624 WT (SOP: OVL MSV01) 06/26/12 HPMS10
 Last Update : Tue Jul 10 17:22:08 2012
 Response via : Initial Calibration





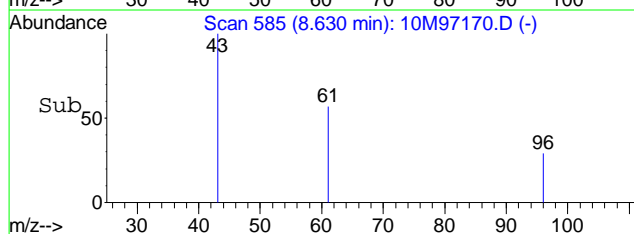
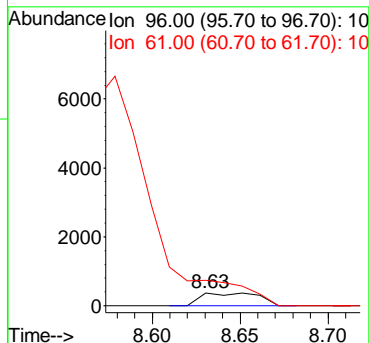
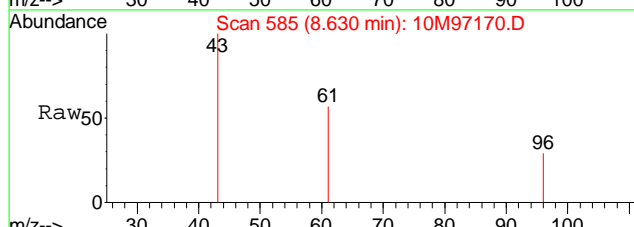
#13
 Acetone
 Concen: 1.67 ug/L
 RT: 5.84 min Scan# 315
 Delta R.T. 0.03 min
 Lab File: 10M97170.D
 Acq: 21 Jul 2012 22:34

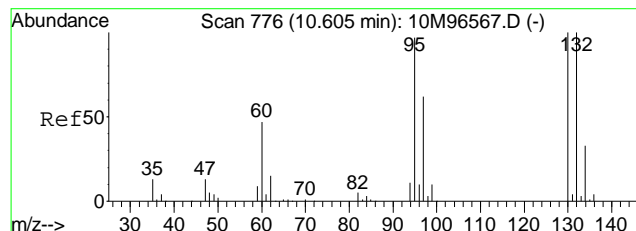
Tgt Ion	Ratio	Lower	Upper
43	100		
58	0.0	17.2	40.2#



#32
 cis-1,2-Dichloroethene
 Concen: 0.19 ug/L
 RT: 8.63 min Scan# 585
 Delta R.T. -0.00 min
 Lab File: 10M97170.D
 Acq: 21 Jul 2012 22:34

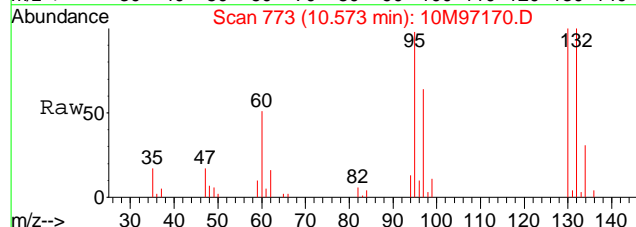
Tgt Ion	Ratio	Lower	Upper
96	100		
61	2269.2	95.5	222.9#



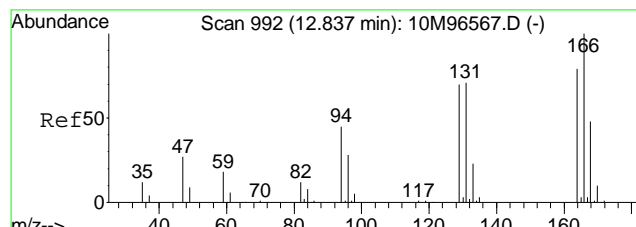
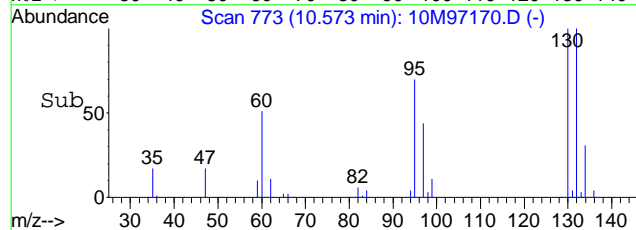
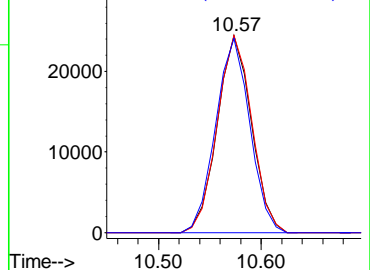


#47
 Trichloroethene
 Concen: 13.53 ug/L
 RT: 10.57 min Scan# 773
 Delta R.T. -0.00 min
 Lab File: 10M97170.D
 Acq: 21 Jul 2012 22:34

Tgt Ion	Resp	Lower	Upper
130	100		
132	100.8	57.8	135.0
95	98.6	59.6	139.0

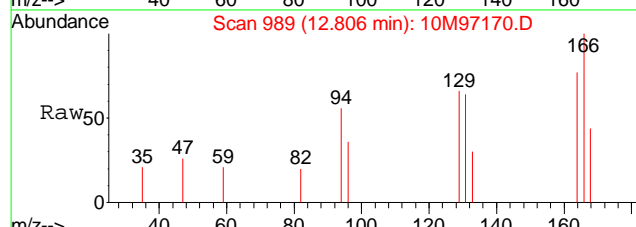


Abundance Ion 130.00 (129.70 to 130.70):
 Ion 132.00 (131.70 to 132.70):
 Ion 95.00 (94.70 to 95.70):

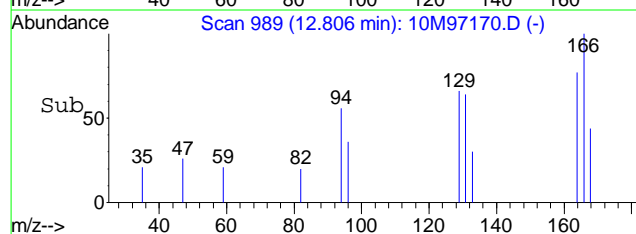
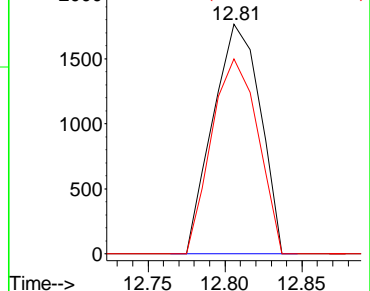


#66
 Tetrachloroethene
 Concen: 1.09 ug/L
 RT: 12.81 min Scan# 989
 Delta R.T. -0.00 min
 Lab File: 10M97170.D
 Acq: 21 Jul 2012 22:34

Tgt Ion	Resp	Lower	Upper
164	100		
129	83.4	59.1	137.9



Abundance Ion 164.00 (163.70 to 164.70):
 Ion 129.00 (128.70 to 129.70):



Data File : C:\MSDCHEM\1\DATA\072112\10M97171.D Vial: 16
 Acq On : 21 Jul 2012 23:03 Operator: MES
 Sample : L12070658-15 A 826-LOW Inst : HPMS10
 Misc : 1,1 Multiplr: 1.00
 MS Integration Params: RTEINT.P
 Quant Time: Jul 23 15:51:33 2012 Quant Results File: 8260BWT.RES

Quant Method : C:\MSDCHEM\1\METHODS\8260BWT.M (RTE Integrator)
 Title : 8260B/624 WT (SOP: OVL MSV01) 06/26/12 HPMS10
 Last Update : Tue Jul 10 17:22:08 2012
 Response via : Initial Calibration
 DataAcq Meth : 8260BWT

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene	10.10	96	405715	25.00	ug/L	0.00
57) Chlorobenzene-d5	13.72	117	298581	25.00	ug/L	0.00
78) 1,4-Dichlorobenzene-d4	16.51	152	144868	25.00	ug/L	-0.01
System Monitoring Compounds						
37) Dibromofluoromethane	9.12	111	92275	24.81	ug/L	0.00
Spiked Amount	25.000	Range 86 - 118	Recovery	=	99.24%	
43) 1,2-Dichloroethane-d4	9.72	65	93969	24.19	ug/L	0.00
Spiked Amount	25.000	Range 80 - 120	Recovery	=	96.76%	
58) Toluene-d8	11.95	98	324048	25.41	ug/L	0.00
Spiked Amount	25.000	Range 88 - 110	Recovery	=	101.64%	
80) p-Bromofluorobenzene	15.10	95	113361	26.13	ug/L	0.00
Spiked Amount	25.000	Range 86 - 115	Recovery	=	104.52%	
Target Compounds						
13) Acetone	5.84	43	1522	1.60	ug/L #	46
20) Carbon Disulfide	6.85	76	2037	0.20	ug/L #	74
47) Trichloroethene	10.57	130	69888	16.84	ug/L	97

 (#) = qualifier out of range (m) = manual integration
 10M97171.D 8260BWT.M Mon Jul 23 15:51:33 2012

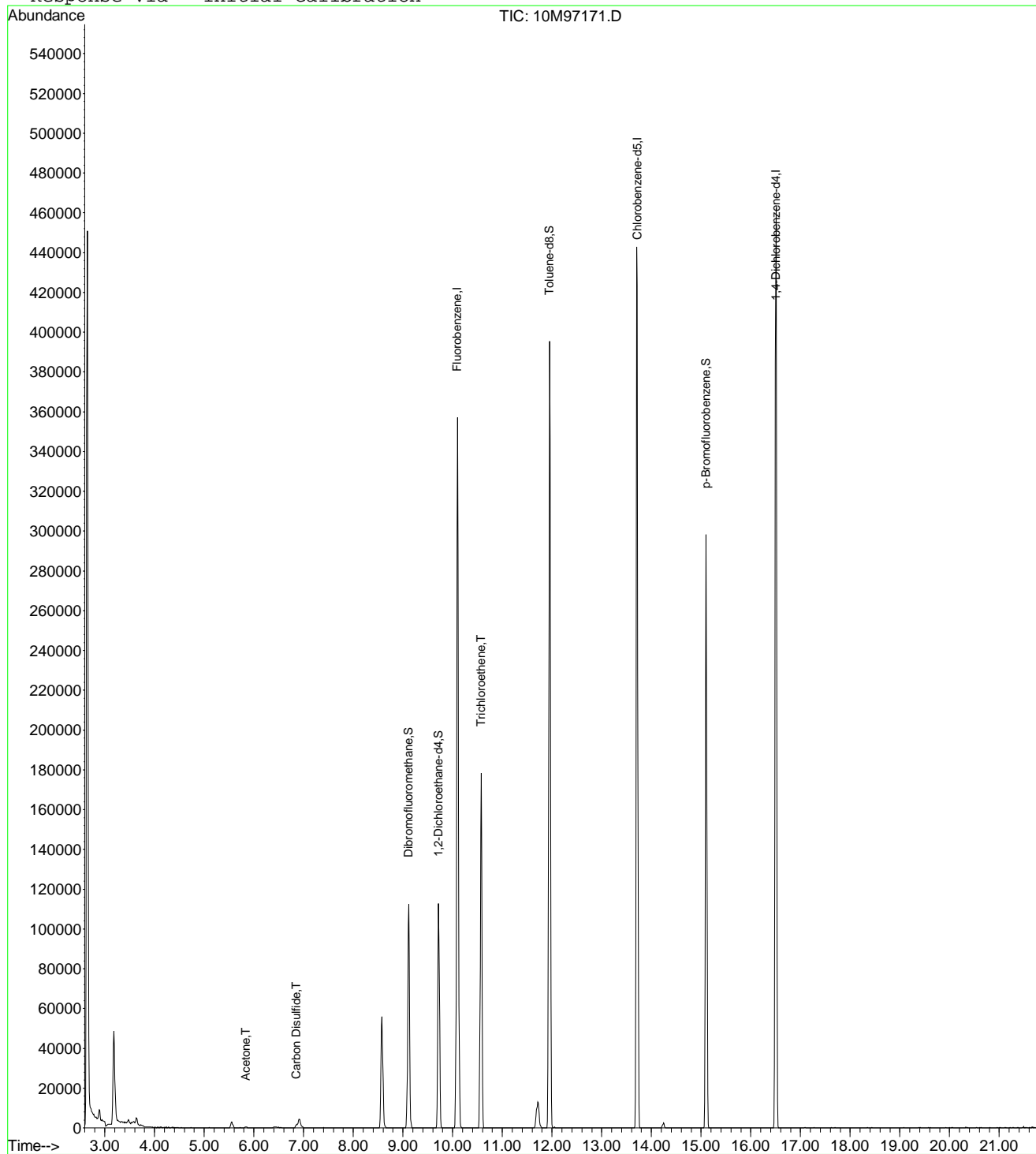
Page 1

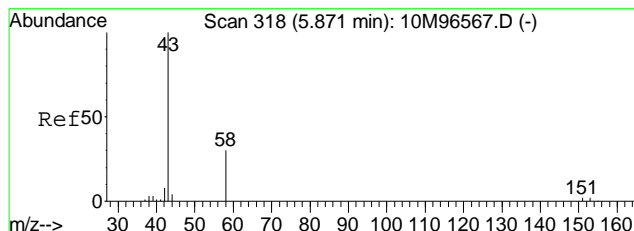
Data File : C:\MSDCHEM\1\DATA\072112\10M97171.D
 Acq On : 21 Jul 2012 23:03
 Sample : L12070658-15 A 826-LOW
 Misc : 1,1
 MS Integration Params: RTEINT.P
 Quant Time: Jul 23 15:51 2012

Vial: 16
 Operator: MES
 Inst : HPMS10
 Multiplr: 1.00

Quant Results File: 8260BWT.RES

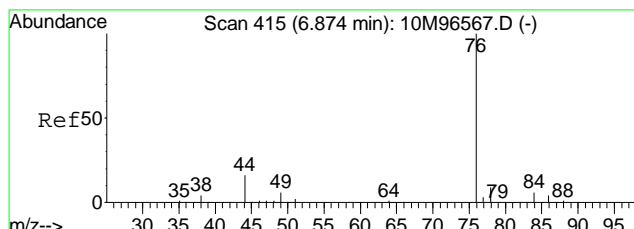
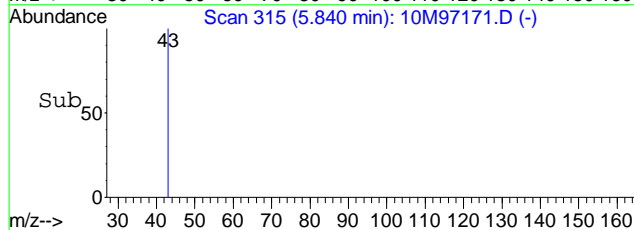
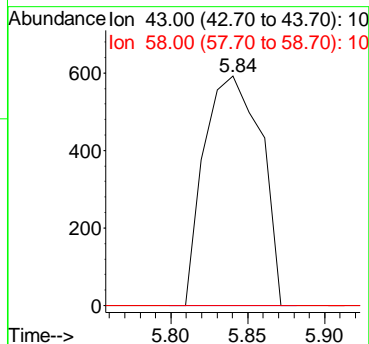
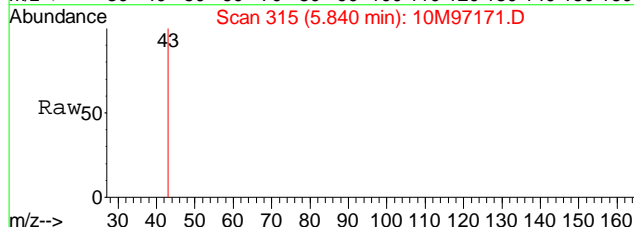
Method : C:\MSDCHEM\1\METHODS\8260BWT.M (RTE Integrator)
 Title : 8260B/624 WT (SOP: OVL MSV01) 06/26/12 HPMS10
 Last Update : Tue Jul 10 17:22:08 2012
 Response via : Initial Calibration





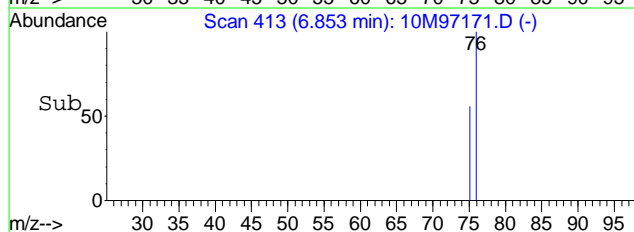
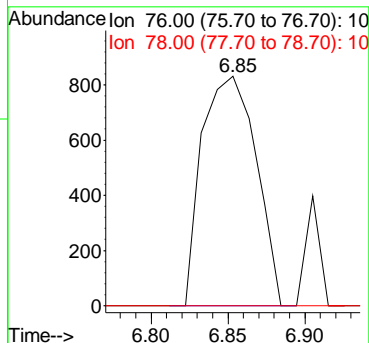
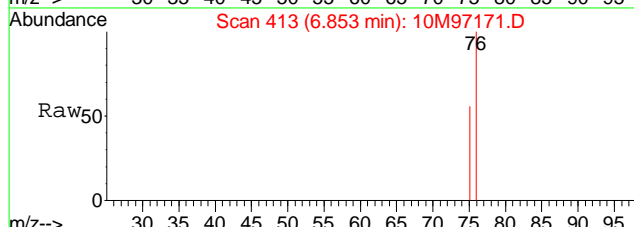
#13
 Acetone
 Concen: 1.60 ug/L
 RT: 5.84 min Scan# 315
 Delta R.T. 0.03 min
 Lab File: 10M97171.D
 Acq: 21 Jul 2012 23:03

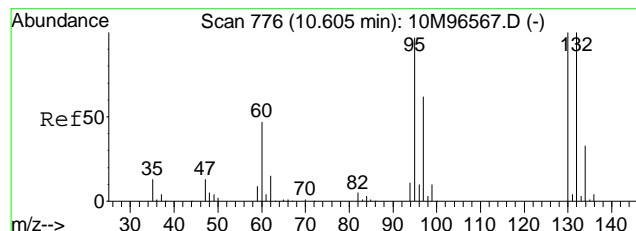
Tgt Ion	Ratio	Lower	Upper
43	100		
58	0.0	17.2	40.2#



#20
 Carbon Disulfide
 Concen: 0.20 ug/L
 RT: 6.85 min Scan# 413
 Delta R.T. 0.03 min
 Lab File: 10M97171.D
 Acq: 21 Jul 2012 23:03

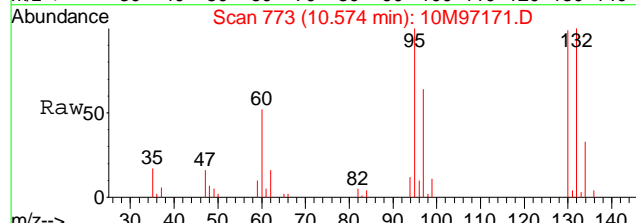
Tgt Ion	Ratio	Lower	Upper
76	100		
78	0.0	5.7	13.3#



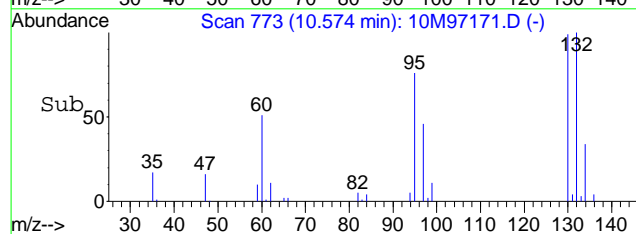
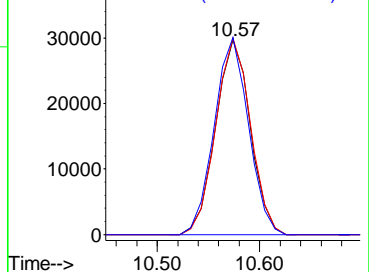


#47
 Trichloroethene
 Concen: 16.84 ug/L
 RT: 10.57 min Scan# 773
 Delta R.T. -0.00 min
 Lab File: 10M97171.D
 Acq: 21 Jul 2012 23:03

Tgt Ion	Ratio	Resp	Lower	Upper
130	100	69888		
132	100.7		57.8	135.0
95	100.1		59.6	139.0



Abundance Ion 130.00 (129.70 to 130.70):
 Ion 132.00 (131.70 to 132.70):
 Ion 95.00 (94.70 to 95.70): 10



Data File : C:\MSDCHEM\1\DATA\072112\10M97172.D Vial: 17
 Acq On : 21 Jul 2012 23:32 Operator: MES
 Sample : L12070658-16 A 826-LOW Inst : HPMS10
 Misc : 1,1 Multiplr: 1.00
 MS Integration Params: RTEINT.P
 Quant Time: Jul 23 15:51:34 2012 Quant Results File: 8260BWT.RES

Quant Method : C:\MSDCHEM\1\METHODS\8260BWT.M (RTE Integrator)
 Title : 8260B/624 WT (SOP: OVL MSV01) 06/26/12 HPMS10
 Last Update : Tue Jul 10 17:22:08 2012
 Response via : Initial Calibration
 DataAcq Meth : 8260BWT

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene	10.10	96	398490	25.00	ug/L	0.00
57) Chlorobenzene-d5	13.71	117	295658	25.00	ug/L	0.00
78) 1,4-Dichlorobenzene-d4	16.50	152	143407	25.00	ug/L	-0.01
System Monitoring Compounds						
37) Dibromofluoromethane	9.12	111	91062	24.92	ug/L	0.00
Spiked Amount	25.000	Range 86 - 118	Recovery	=	99.68%	
43) 1,2-Dichloroethane-d4	9.71	65	93871	24.60	ug/L	0.00
Spiked Amount	25.000	Range 80 - 120	Recovery	=	98.40%	
58) Toluene-d8	11.95	98	323798	25.65	ug/L	0.00
Spiked Amount	25.000	Range 88 - 110	Recovery	=	102.60%	
80) p-Bromofluorobenzene	15.10	95	112238	26.13	ug/L	0.00
Spiked Amount	25.000	Range 86 - 115	Recovery	=	104.52%	
Target Compounds						
13) Acetone	5.85	43	1449	1.55	ug/L #	46
20) Carbon Disulfide	6.85	76	1794	0.18	ug/L #	74
47) Trichloroethene	10.57	130	35296	8.66	ug/L	94

(#) = qualifier out of range (m) = manual integration
 10M97172.D 8260BWT.M Mon Jul 23 15:51:35 2012

Page 1

Data File : C:\MSDCHEM\1\DATA\072112\10M97172.D

Vial: 17

Acq On : 21 Jul 2012 23:32

Operator: MES

Sample : L12070658-16 A 826-LOW

Inst : HPMS10

Misc : 1,1

Multiplr: 1.00

MS Integration Params: RTEINT.P

Quant Time: Jul 23 15:51 2012

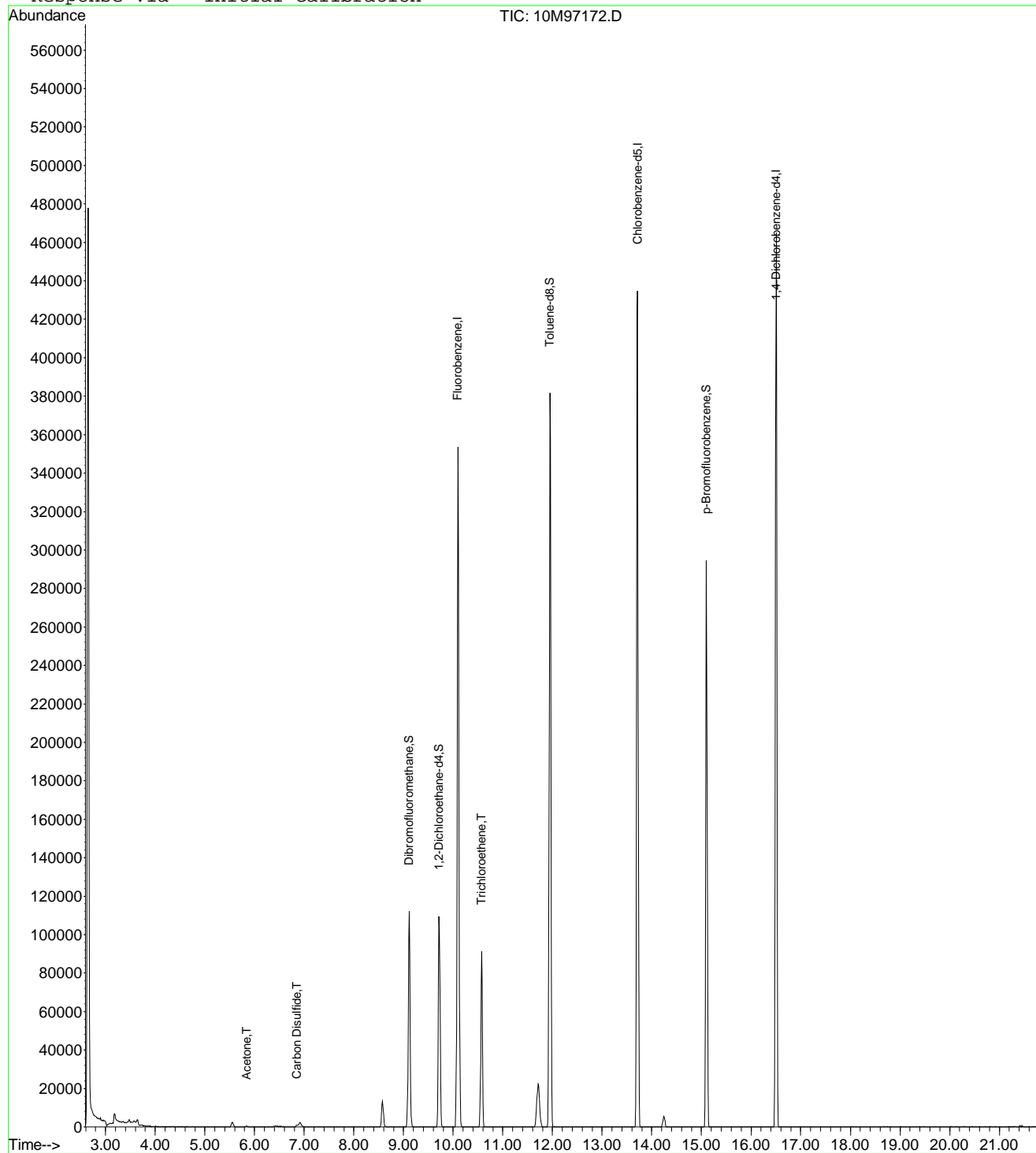
Quant Results File: 8260BWT.RES

Method : C:\MSDCHEM\1\METHODS\8260BWT.M (RTE Integrator)

Title : 8260B/624 WT (SOP: OVL MSV01) 06/26/12 HPMS10

Last Update : Tue Jul 10 17:22:08 2012

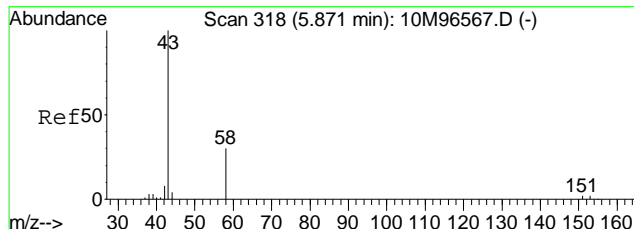
Response via : Initial Calibration



10M97172.D 8260BWT.M

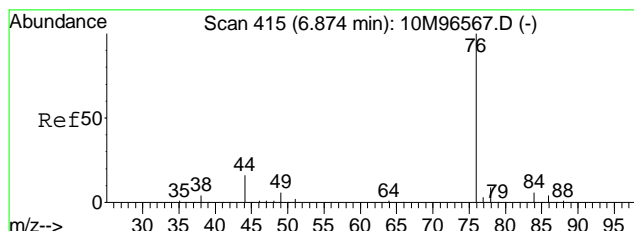
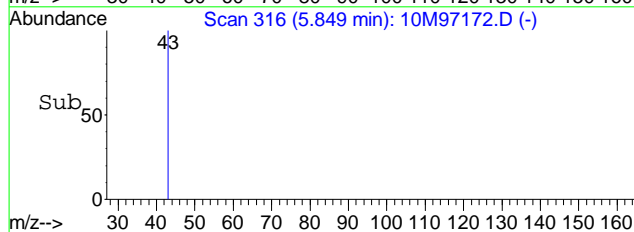
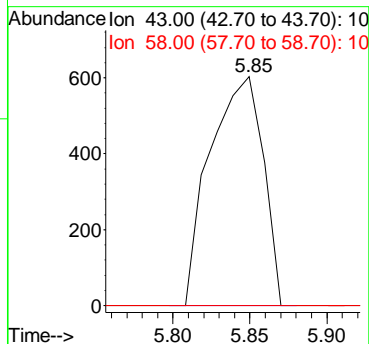
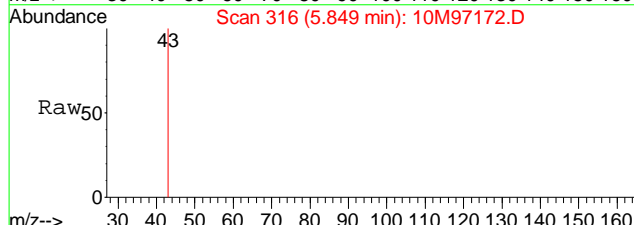
Mon Jul 23 15:51:35 2012

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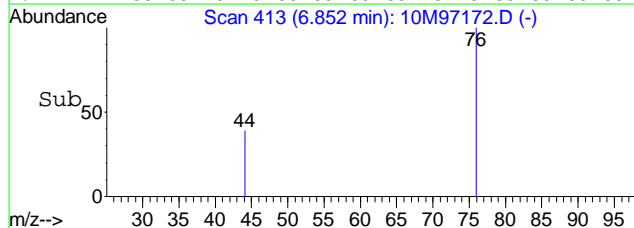
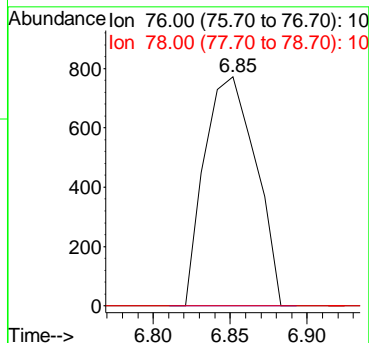
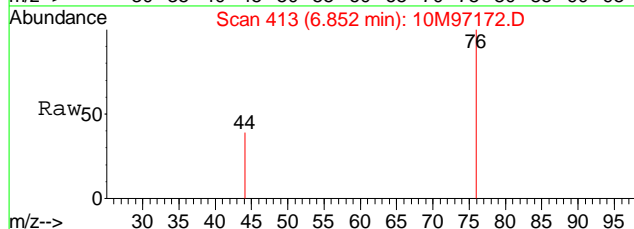
#13
 Acetone
 Concen: 1.55 ug/L
 RT: 5.85 min Scan# 316
 Delta R.T. 0.04 min
 Lab File: 10M97172.D
 Acq: 21 Jul 2012 23:32

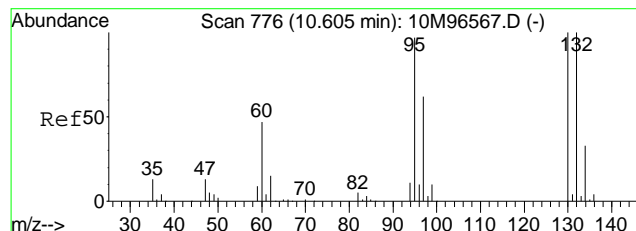
Tgt Ion	Ratio	Lower	Upper
43	100		
58	0.0	17.2	40.2#



#20
 Carbon Disulfide
 Concen: 0.18 ug/L
 RT: 6.85 min Scan# 413
 Delta R.T. 0.03 min
 Lab File: 10M97172.D
 Acq: 21 Jul 2012 23:32

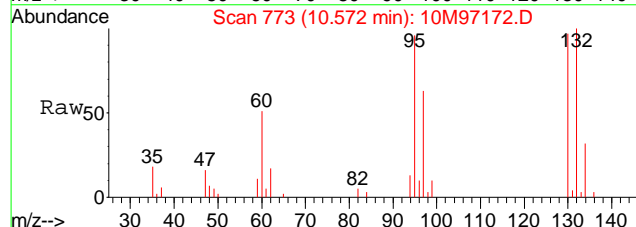
Tgt Ion	Ratio	Lower	Upper
76	100		
78	0.0	5.7	13.3#



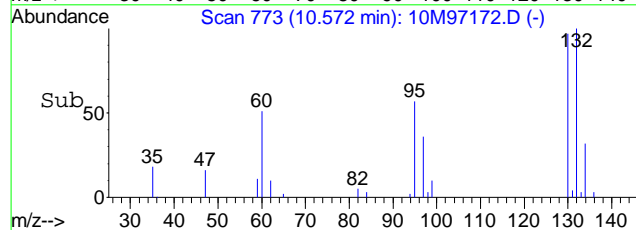
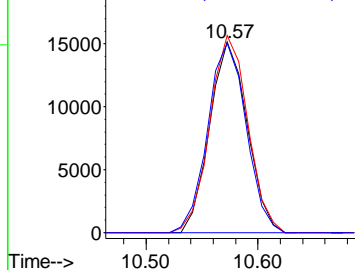


#47
 Trichloroethene
 Concen: 8.66 ug/L
 RT: 10.57 min Scan# 773
 Delta R.T. -0.00 min
 Lab File: 10M97172.D
 Acq: 21 Jul 2012 23:32

Tgt Ion	Ratio	Resp	Lower	Upper
130	100	35296		
132	104.9		57.8	135.0
95	102.1		59.6	139.0



Abundance Ion 130.00 (129.70 to 130.70):
 Ion 132.00 (131.70 to 132.70):
 Ion 95.00 (94.70 to 95.70): 10



Data File : C:\MSDCHEM\1\DATA\072112\10M97173.D Vial: 18
 Acq On : 22 Jul 2012 00:02 Operator: MES
 Sample : L12070658-17 A 826-LOW Inst : HPMS10
 Misc : 1,1 Multiplr: 1.00
 MS Integration Params: RTEINT.P
 Quant Time: Jul 23 15:51:35 2012 Quant Results File: 8260BWT.RES

Quant Method : C:\MSDCHEM\1\METHODS\8260BWT.M (RTE Integrator)
 Title : 8260B/624 WT (SOP: OVL MSV01) 06/26/12 HPMS10
 Last Update : Tue Jul 10 17:22:08 2012
 Response via : Initial Calibration
 DataAcq Meth : 8260BWT

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene	10.10	96	386158	25.00	ug/L	0.00
57) Chlorobenzene-d5	13.71	117	285766	25.00	ug/L	-0.01
78) 1,4-Dichlorobenzene-d4	16.51	152	137643	25.00	ug/L	-0.01
System Monitoring Compounds						
37) Dibromofluoromethane	9.12	111	88195	24.91	ug/L	0.01
Spiked Amount	25.000	Range 86 - 118	Recovery	=	99.64%	
43) 1,2-Dichloroethane-d4	9.72	65	92189	24.93	ug/L	0.00
Spiked Amount	25.000	Range 80 - 120	Recovery	=	99.72%	
58) Toluene-d8	11.95	98	316273	25.92	ug/L	0.00
Spiked Amount	25.000	Range 88 - 110	Recovery	=	103.68%	
80) p-Bromofluorobenzene	15.10	95	110351	26.77	ug/L	0.00
Spiked Amount	25.000	Range 86 - 115	Recovery	=	107.08%	
Target Compounds						
13) Acetone	5.85	43	1427	1.57	ug/L #	46
20) Carbon Disulfide	6.84	76	1264	0.13	ug/L #	74
47) Trichloroethene	10.58	130	11056	2.80	ug/L	94

(#) = qualifier out of range (m) = manual integration
 10M97173.D 8260BWT.M Mon Jul 23 15:51:36 2012

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Data File : C:\MSDCHEM\1\DATA\072112\10M97173.D

Vial: 18

Acq On : 22 Jul 2012 00:02

Operator: MES

Sample : L12070658-17 A 826-LOW

Inst : HPMS10

Misc : 1,1

Multiplr: 1.00

MS Integration Params: RTEINT.P

Quant Time: Jul 23 15:51 2012

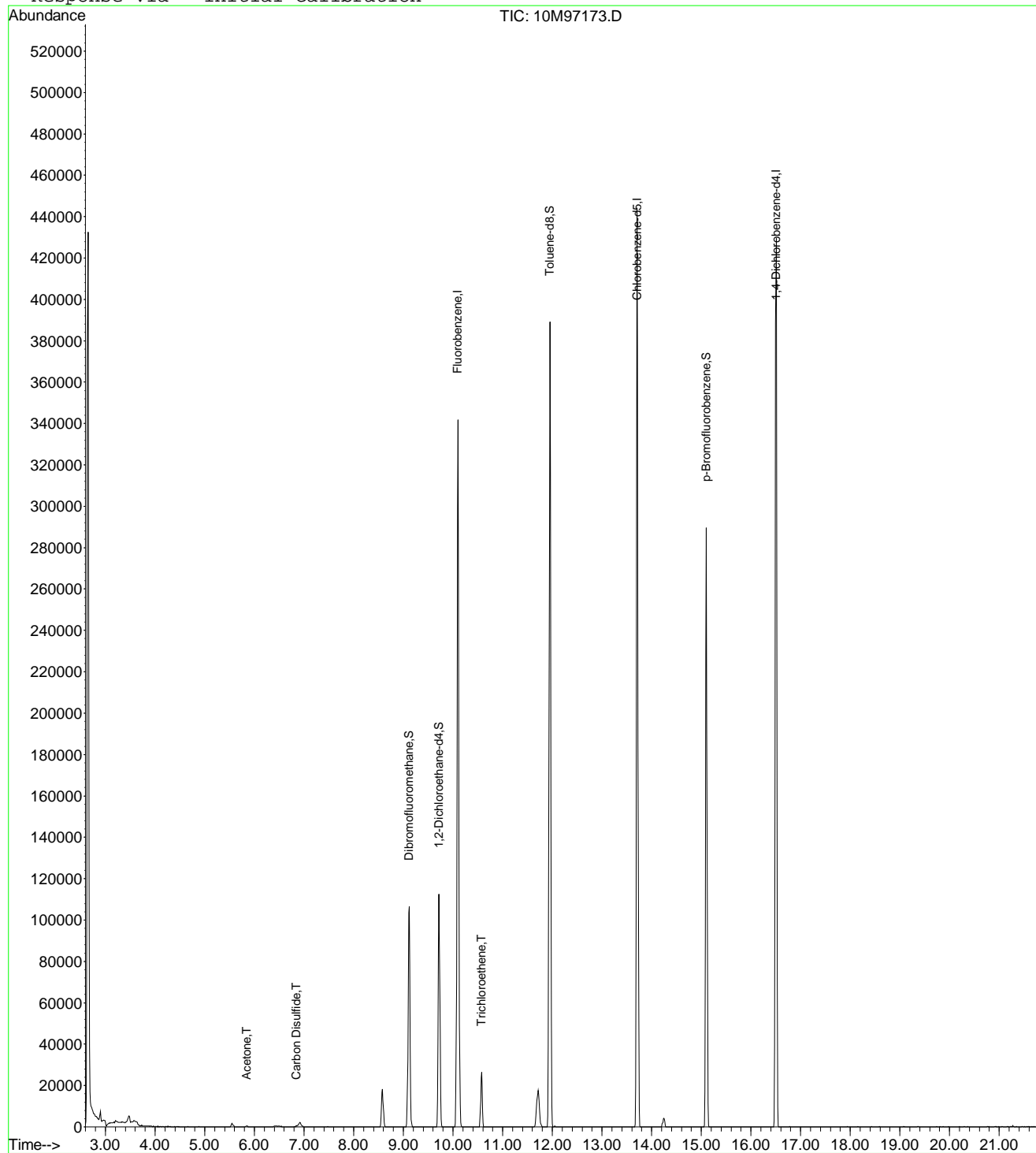
Quant Results File: 8260BWT.RES

Method : C:\MSDCHEM\1\METHODS\8260BWT.M (RTE Integrator)

Title : 8260B/624 WT (SOP: OVL MSV01) 06/26/12 HPMS10

Last Update : Tue Jul 10 17:22:08 2012

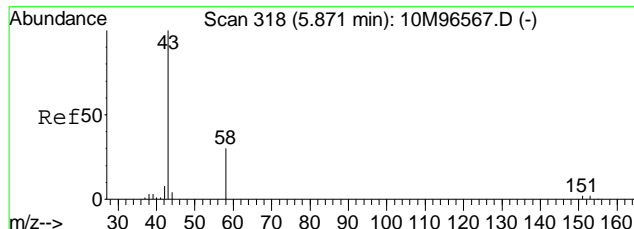
Response via : Initial Calibration



10M97173.D 8260BWT.M

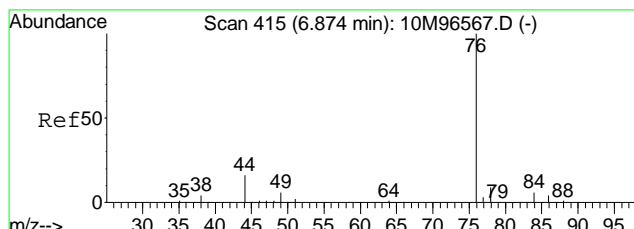
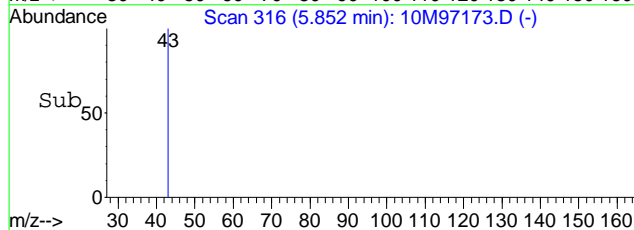
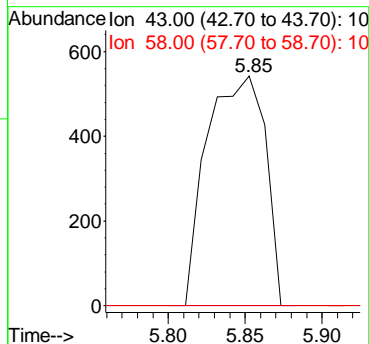
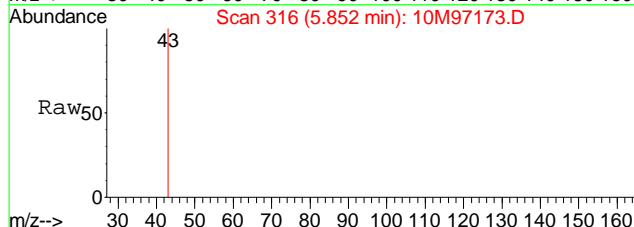
Mon Jul 23 15:51:36 2012

Page 2



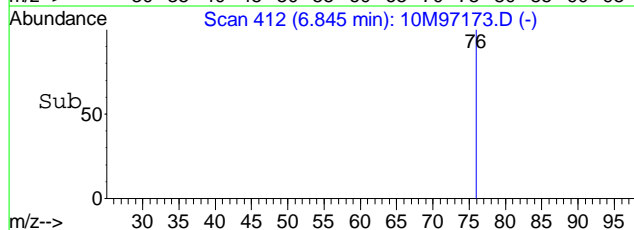
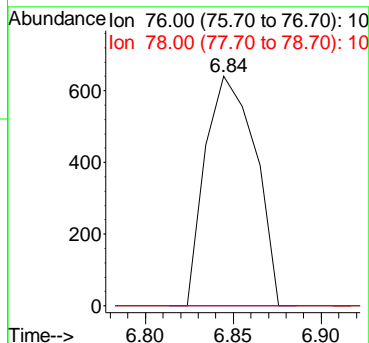
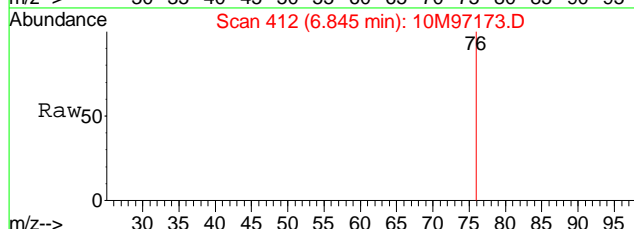
#13
 Acetone
 Concen: 1.57 ug/L
 RT: 5.85 min Scan# 316
 Delta R.T. 0.04 min
 Lab File: 10M97173.D
 Acq: 22 Jul 2012 00:02

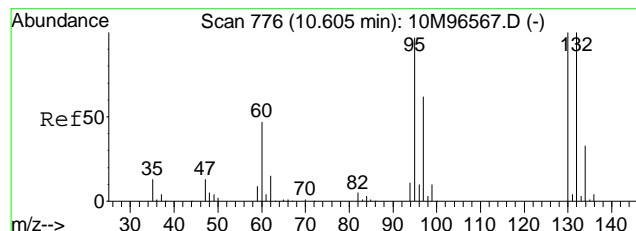
Tgt Ion	Ratio	Lower	Upper
43	100		
58	0.0	17.2	40.2#



#20
 Carbon Disulfide
 Concen: 0.13 ug/L
 RT: 6.84 min Scan# 412
 Delta R.T. 0.02 min
 Lab File: 10M97173.D
 Acq: 22 Jul 2012 00:02

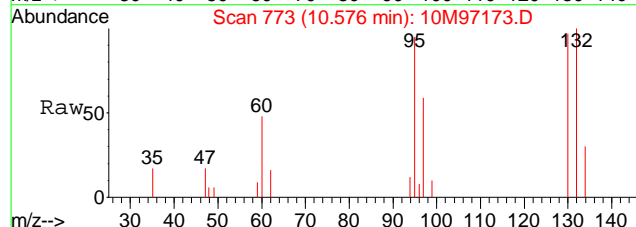
Tgt Ion	Ratio	Lower	Upper
76	100		
78	0.0	5.7	13.3#



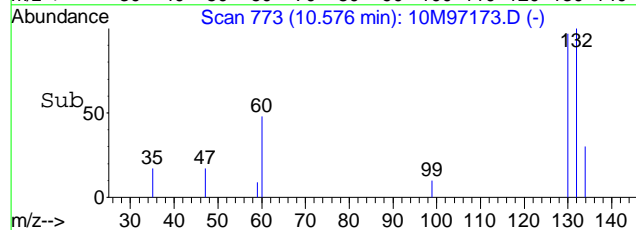
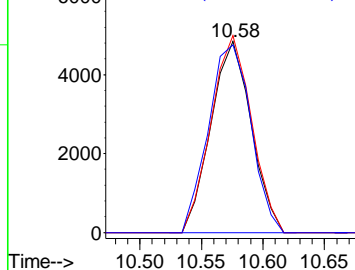


#47
 Trichloroethene
 Concen: 2.80 ug/L
 RT: 10.58 min Scan# 773
 Delta R.T. 0.00 min
 Lab File: 10M97173.D
 Acq: 22 Jul 2012 00:02

Tgt Ion	Ratio	Resp	Lower	Upper
130	100	11056		
132	103.5	57.8	135.0	
95	103.5	59.6	139.0	



Abundance Ion 130.00 (129.70 to 130.70):
 Ion 132.00 (131.70 to 132.70):
 Ion 95.00 (94.70 to 95.70): 10



Data File : C:\MSDCHEM\1\DATA\072112\10M97174.D Vial: 19
 Acq On : 22 Jul 2012 00:31 Operator: MES
 Sample : L12070658-18 A 826-LOW Inst : HPMS10
 Misc : 1,1 Multiplr: 1.00
 MS Integration Params: RTEINT.P
 Quant Time: Jul 23 15:51:37 2012 Quant Results File: 8260BWT.RES

Quant Method : C:\MSDCHEM\1\METHODS\8260BWT.M (RTE Integrator)
 Title : 8260B/624 WT (SOP: OVL MSV01) 06/26/12 HPMS10
 Last Update : Tue Jul 10 17:22:08 2012
 Response via : Initial Calibration
 DataAcq Meth : 8260BWT

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene	10.10	96	396601	25.00	ug/L	0.00
57) Chlorobenzene-d5	13.71	117	292307	25.00	ug/L	0.00
78) 1,4-Dichlorobenzene-d4	16.50	152	142137	25.00	ug/L	-0.01
System Monitoring Compounds						
37) Dibromofluoromethane	9.12	111	88626	24.37	ug/L	0.00
Spiked Amount	25.000	Range 86 - 118	Recovery	=	97.48%	
43) 1,2-Dichloroethane-d4	9.71	65	92525	24.36	ug/L	0.00
Spiked Amount	25.000	Range 80 - 120	Recovery	=	97.44%	
58) Toluene-d8	11.95	98	318834	25.54	ug/L	0.00
Spiked Amount	25.000	Range 88 - 110	Recovery	=	102.16%	
80) p-Bromofluorobenzene	15.10	95	110872	26.05	ug/L	0.00
Spiked Amount	25.000	Range 86 - 115	Recovery	=	104.20%	
Target Compounds						
13) Acetone	5.85	43	1050	1.13	ug/L #	46
32) cis-1,2-Dichloroethene	8.64	96	1274	0.31	ug/L	94
47) Trichloroethene	10.57	130	266610	65.71	ug/L	97
48) Methylcyclohexane	10.57	83	3099	0.61	ug/L #	1

 (#) = qualifier out of range (m) = manual integration
 10M97174.D 8260BWT.M Mon Jul 23 15:51:37 2012

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Data File : C:\MSDCHEM\1\DATA\072112\10M97174.D

Vial: 19

Acq On : 22 Jul 2012 00:31

Operator: MES

Sample : L12070658-18 A 826-LOW

Inst : HPMS10

Misc : 1,1

Multiplr: 1.00

MS Integration Params: RTEINT.P

Quant Time: Jul 23 15:51 2012

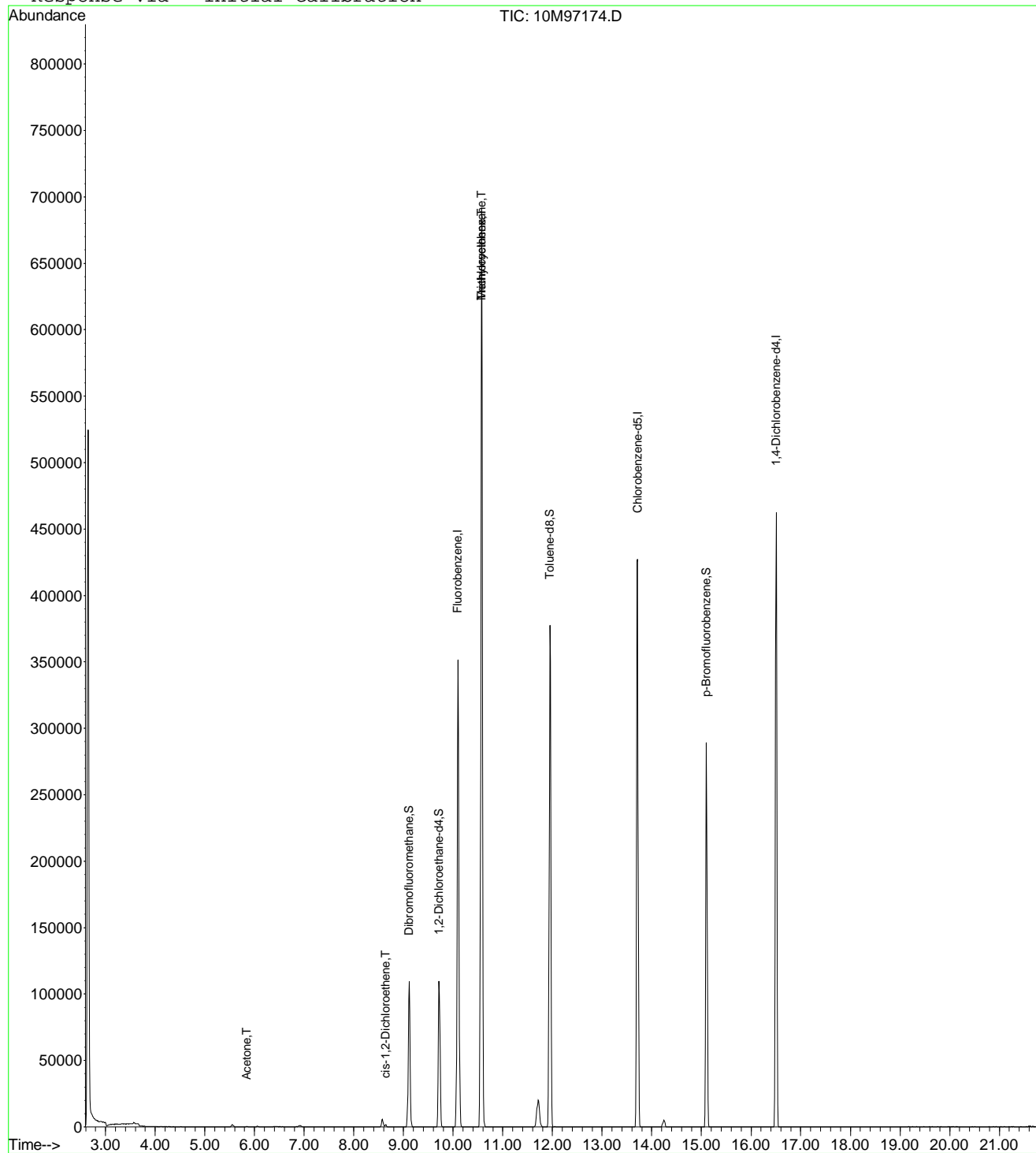
Quant Results File: 8260BWT.RES

Method : C:\MSDCHEM\1\METHODS\8260BWT.M (RTE Integrator)

Title : 8260B/624 WT (SOP: OVL MSV01) 06/26/12 HPMS10

Last Update : Tue Jul 10 17:22:08 2012

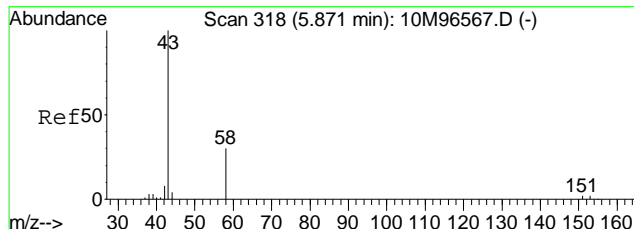
Response via : Initial Calibration



10M97174.D 8260BWT.M

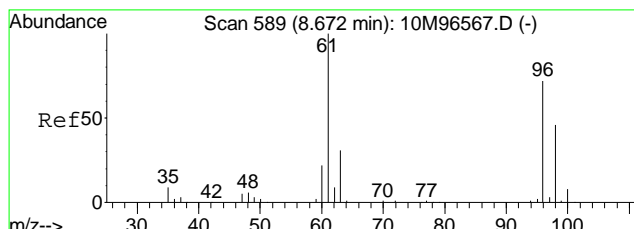
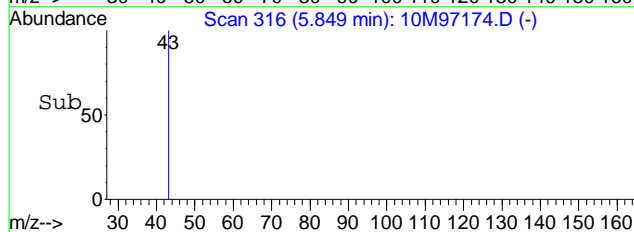
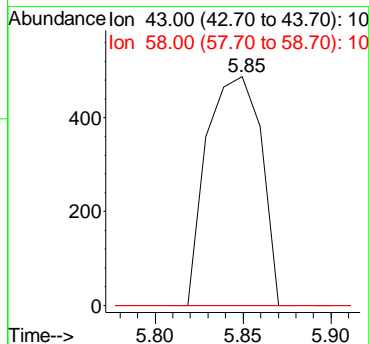
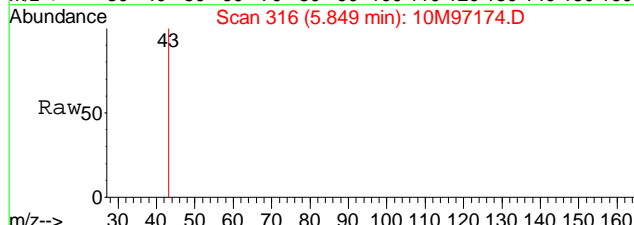
Mon Jul 23 15:51:38 2012

Page 2



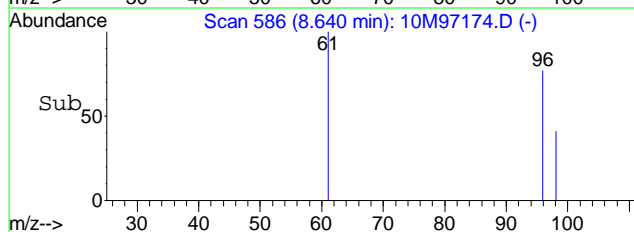
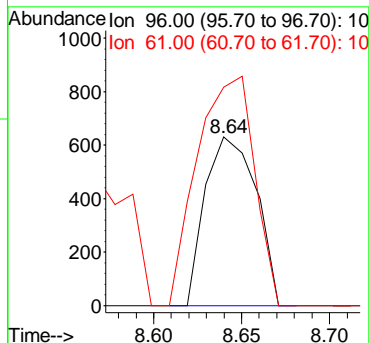
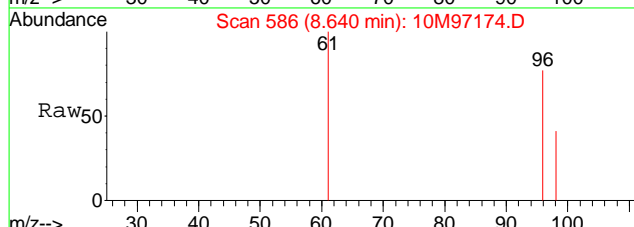
#13
 Acetone
 Concen: 1.13 ug/L
 RT: 5.85 min Scan# 316
 Delta R.T. 0.04 min
 Lab File: 10M97174.D
 Acq: 22 Jul 2012 00:31

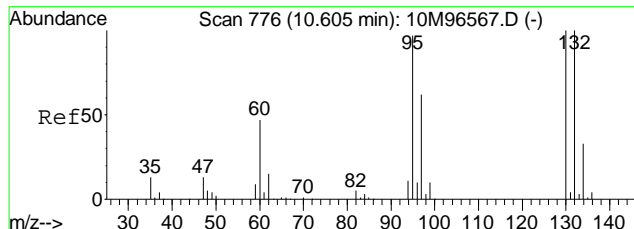
Tgt Ion	Ratio	Lower	Upper
43	100		
58	0.0	17.2	40.2#



#32
 cis-1,2-Dichloroethene
 Concen: 0.31 ug/L
 RT: 8.64 min Scan# 586
 Delta R.T. 0.01 min
 Lab File: 10M97174.D
 Acq: 22 Jul 2012 00:31

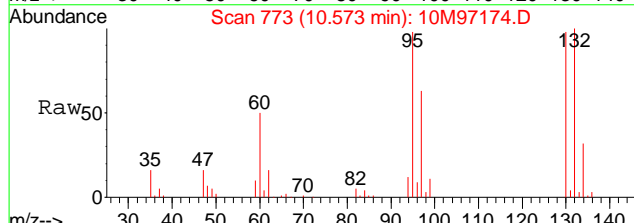
Tgt Ion	Ratio	Lower	Upper
96	100		
61	151.9	95.5	222.9



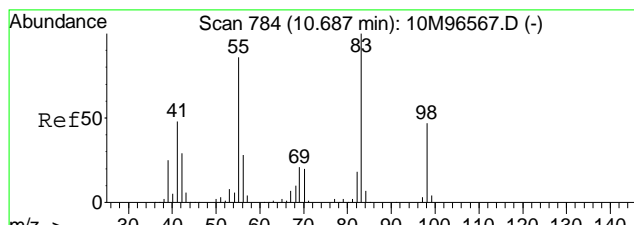
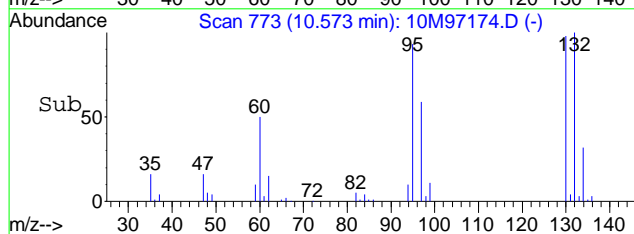
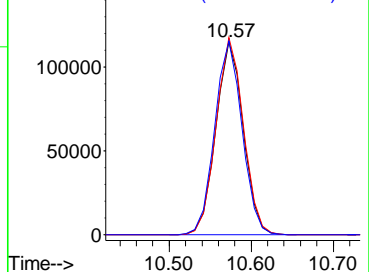


#47
 Trichloroethene
 Concen: 65.71 ug/L
 RT: 10.57 min Scan# 773
 Delta R.T. -0.00 min
 Lab File: 10M97174.D
 Acq: 22 Jul 2012 00:31

Tgt Ion	Resp	Lower	Upper
130	100		
132	102.1	57.8	135.0
95	100.2	59.6	139.0

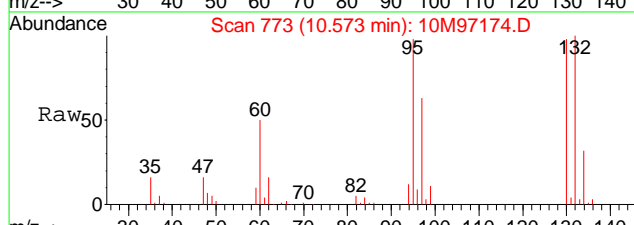


Abundance Ion 130.00 (129.70 to 130.70):
 Ion 132.00 (131.70 to 132.70):
 Ion 95.00 (94.70 to 95.70): 10

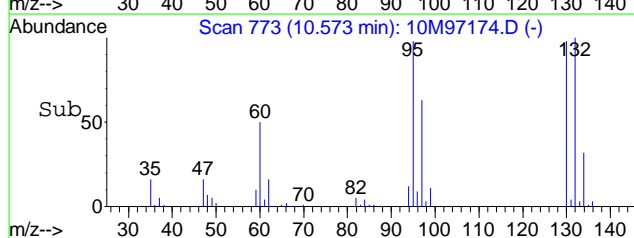
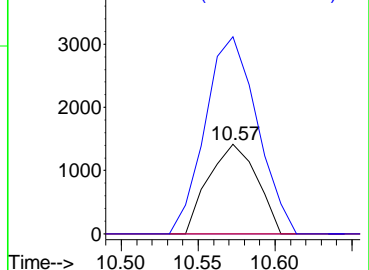


#48
 Methylcyclohexane
 Concen: 0.61 ug/L
 RT: 10.57 min Scan# 773
 Delta R.T. -0.09 min
 Lab File: 10M97174.D
 Acq: 22 Jul 2012 00:31

Tgt Ion	Resp	Lower	Upper
83	100		
55	0.0	49.3	114.9#
98	236.8	28.2	65.8#



Abundance Ion 83.00 (82.70 to 83.70): 10
 Ion 55.00 (54.70 to 55.70): 10
 Ion 98.00 (97.70 to 98.70): 10



Data File : C:\MSDCHEM\1\DATA\072112\10M97175.D Vial: 20
 Acq On : 22 Jul 2012 1:00 Operator: MES
 Sample : L12070658-19 A 826-LOW Inst : HPMS10
 Misc : 1,1 Multiplr: 1.00
 MS Integration Params: RTEINT.P
 Quant Time: Jul 23 15:51:38 2012 Quant Results File: 8260BWT.RES

Quant Method : C:\MSDCHEM\1\METHODS\8260BWT.M (RTE Integrator)
 Title : 8260B/624 WT (SOP: OVL MSV01) 06/26/12 HPMS10
 Last Update : Tue Jul 10 17:22:08 2012
 Response via : Initial Calibration
 DataAcq Meth : 8260BWT

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene	10.10	96	392998	25.00	ug/L	0.00
57) Chlorobenzene-d5	13.71	117	290493	25.00	ug/L	-0.01
78) 1,4-Dichlorobenzene-d4	16.51	152	139063	25.00	ug/L	-0.01
System Monitoring Compounds						
37) Dibromofluoromethane	9.12	111	88223	24.48	ug/L	0.01
Spiked Amount	25.000	Range 86 - 118	Recovery	=	97.92%	
43) 1,2-Dichloroethane-d4	9.72	65	91171	24.22	ug/L	0.00
Spiked Amount	25.000	Range 80 - 120	Recovery	=	96.88%	
58) Toluene-d8	11.95	98	316638	25.53	ug/L	0.00
Spiked Amount	25.000	Range 88 - 110	Recovery	=	102.12%	
80) p-Bromofluorobenzene	15.10	95	109182	26.22	ug/L	0.00
Spiked Amount	25.000	Range 86 - 115	Recovery	=	104.88%	
Target Compounds						
3) Chloromethane	3.35	50	734	0.12	ug/L #	40
13) Acetone	5.85	43	768	0.83	ug/L #	46
20) Carbon Disulfide	6.84	76	1471	0.15	ug/L #	74
32) cis-1,2-Dichloroethene	8.64	96	1570	0.38	ug/L	82
47) Trichloroethene	10.58	130	223716	55.65	ug/L	97
48) Methylcyclohexane	10.58	83	2750	0.54	ug/L #	1

(#) = qualifier out of range (m) = manual integration
 10M97175.D 8260BWT.M Mon Jul 23 15:51:39 2012

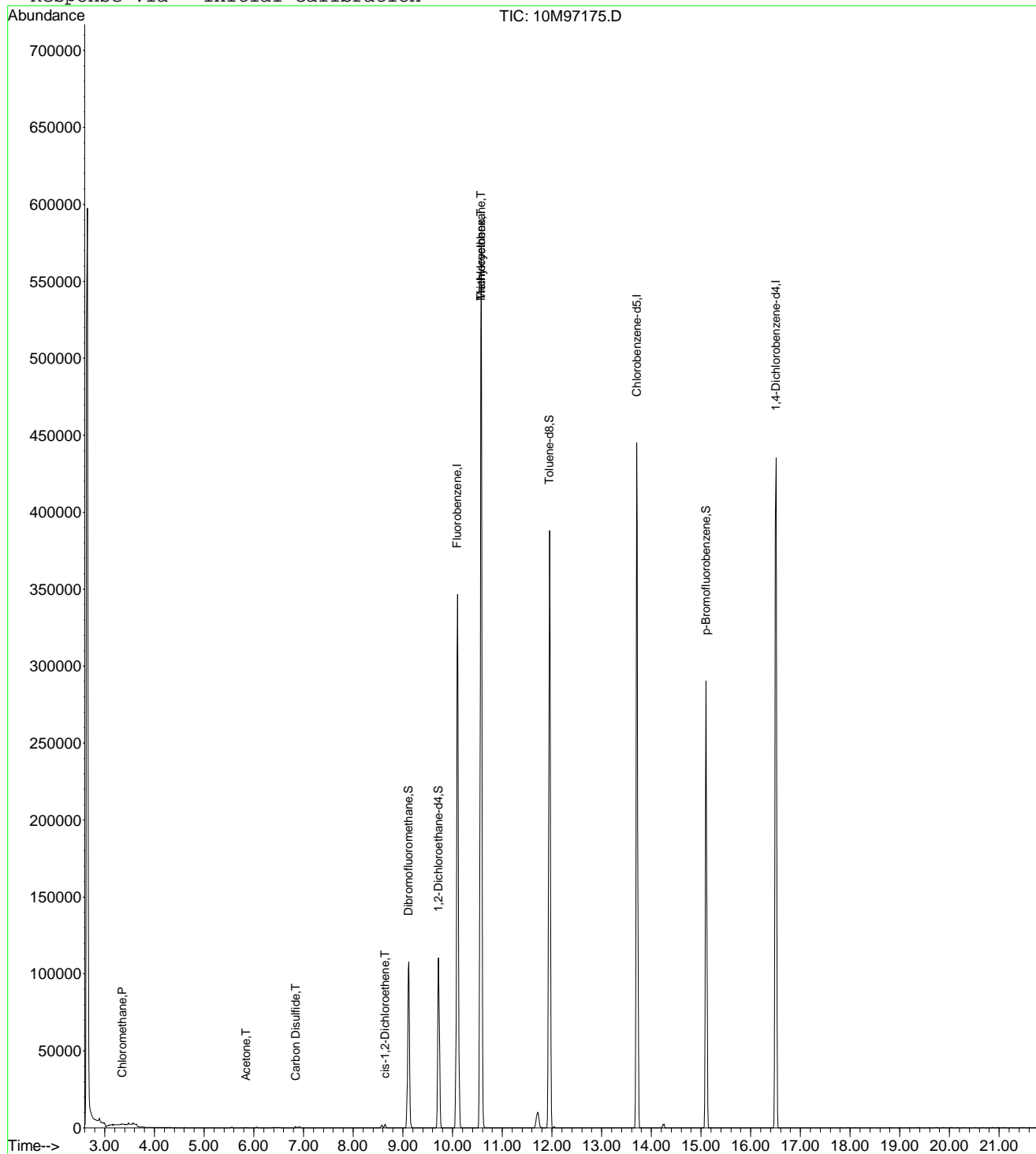
Page 1

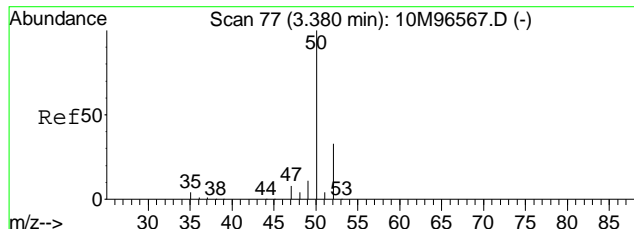
Data File : C:\MSDCHEM\1\DATA\072112\10M97175.D
 Acq On : 22 Jul 2012 1:00
 Sample : L12070658-19 A 826-LOW
 Misc : 1,1
 MS Integration Params: RTEINT.P
 Quant Time: Jul 23 15:51 2012

Vial: 20
 Operator: MES
 Inst : HPMS10
 Multiplr: 1.00

Quant Results File: 8260BWT.RES

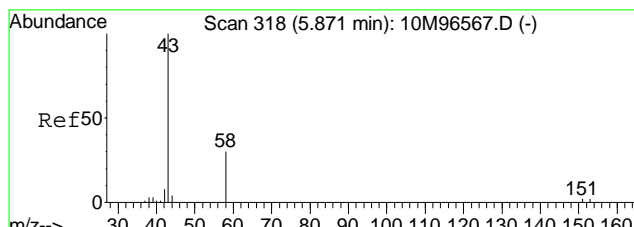
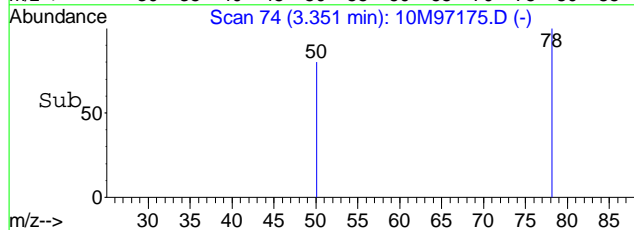
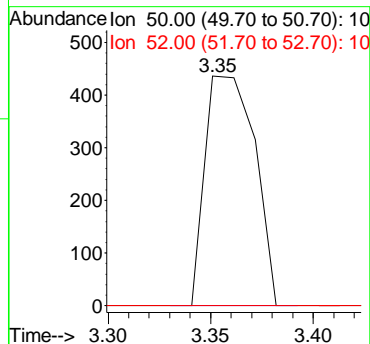
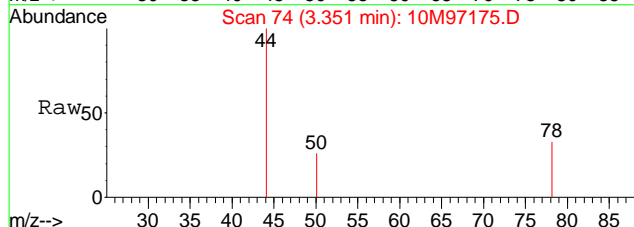
Method : C:\MSDCHEM\1\METHODS\8260BWT.M (RTE Integrator)
 Title : 8260B/624 WT (SOP: OVL MSV01) 06/26/12 HPMS10
 Last Update : Tue Jul 10 17:22:08 2012
 Response via : Initial Calibration





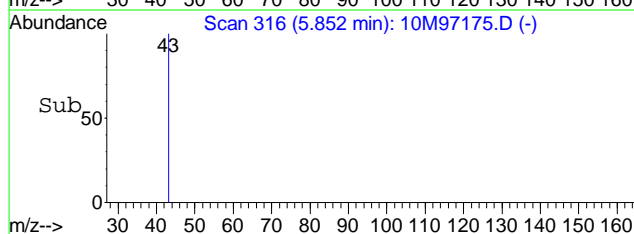
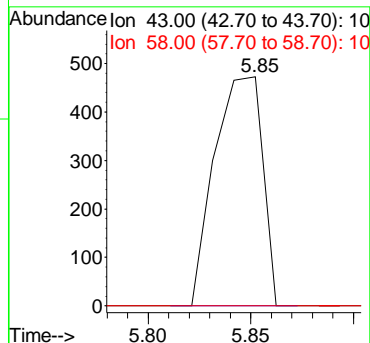
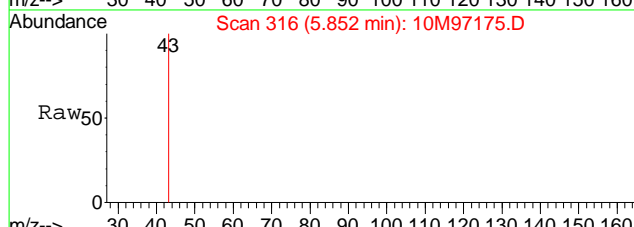
#3
 Chloromethane
 Concen: 0.12 ug/L
 RT: 3.35 min Scan# 74
 Delta R.T. 0.00 min
 Lab File: 10M97175.D
 Acq: 22 Jul 2012 1:00

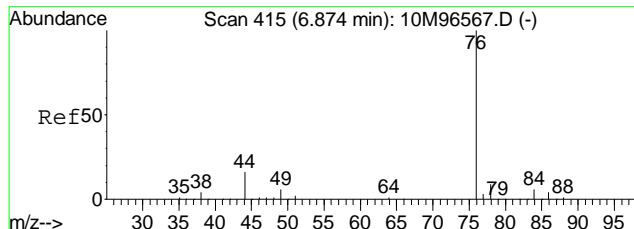
Tgt Ion	Ratio	Lower	Upper
50	100		
52	0.0	20.6	48.0#



#13
 Acetone
 Concen: 0.83 ug/L
 RT: 5.85 min Scan# 316
 Delta R.T. 0.04 min
 Lab File: 10M97175.D
 Acq: 22 Jul 2012 1:00

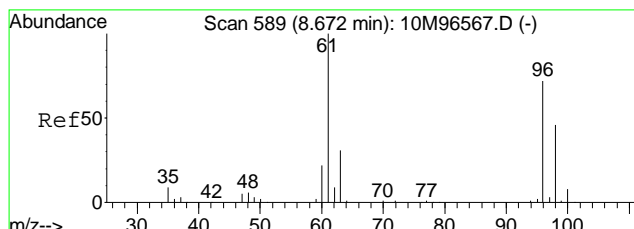
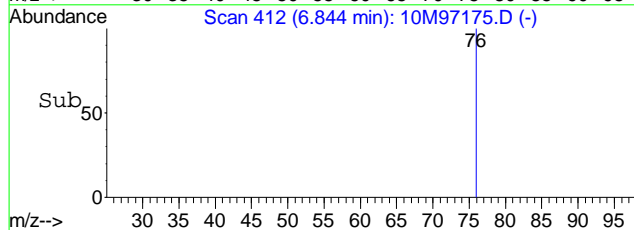
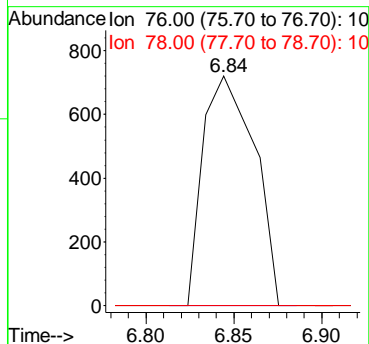
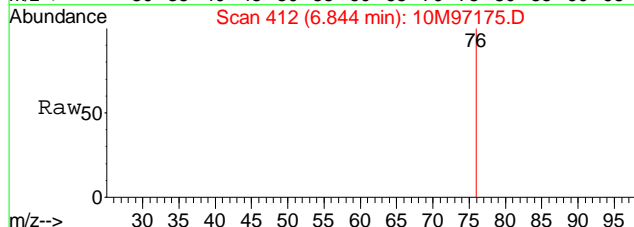
Tgt Ion	Ratio	Lower	Upper
43	100		
58	0.0	17.2	40.2#





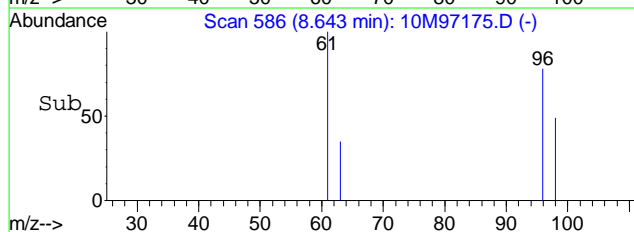
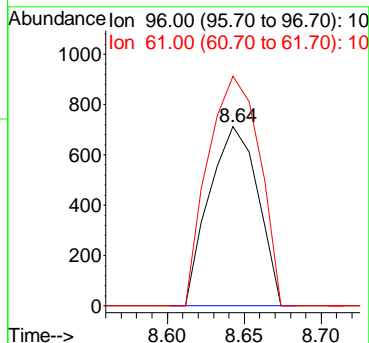
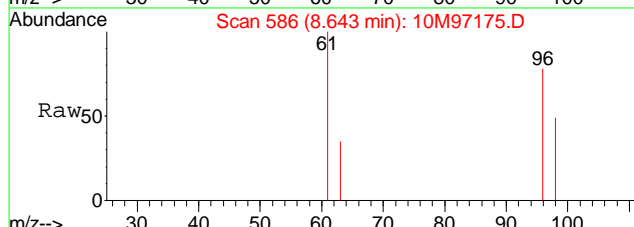
#20
 Carbon Disulfide
 Concen: 0.15 ug/L
 RT: 6.84 min Scan# 412
 Delta R.T. 0.02 min
 Lab File: 10M97175.D
 Acq: 22 Jul 2012 1:00

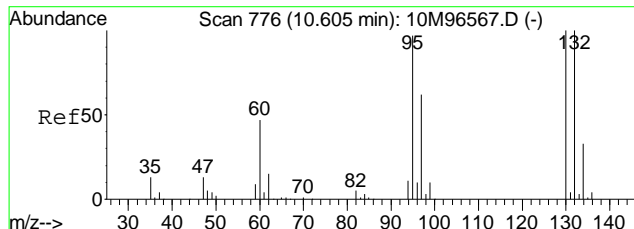
Tgt Ion	Resp	Lower	Upper
76	1471		
78	0.0	5.7	13.3#



#32
 cis-1,2-Dichloroethene
 Concen: 0.38 ug/L
 RT: 8.64 min Scan# 586
 Delta R.T. 0.01 min
 Lab File: 10M97175.D
 Acq: 22 Jul 2012 1:00

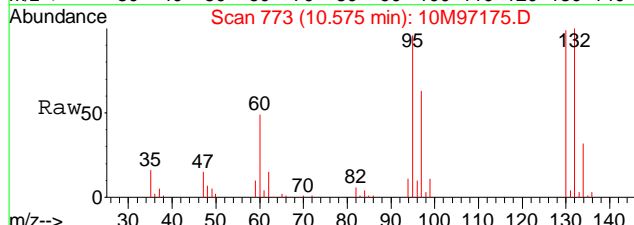
Tgt Ion	Resp	Lower	Upper
96	1570		
61	136.0	95.5	222.9



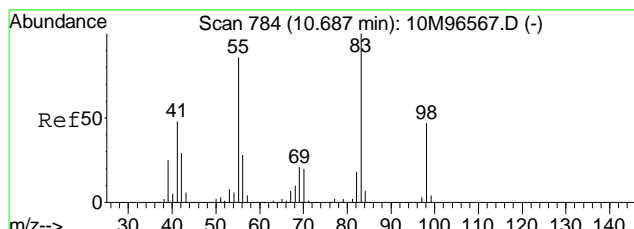
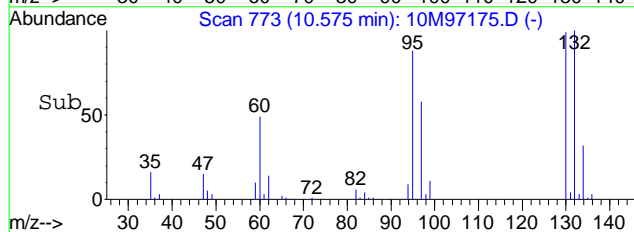
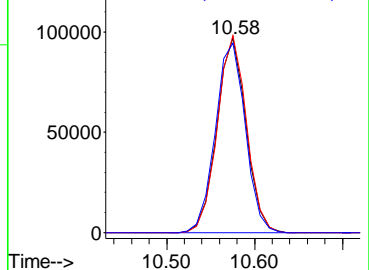


#47
 Trichloroethene
 Concen: 55.65 ug/L
 RT: 10.58 min Scan# 773
 Delta R.T. 0.00 min
 Lab File: 10M97175.D
 Acq: 22 Jul 2012 1:00

Tgt Ion	Ratio	Lower	Upper
130	100		
132	101.5	57.8	135.0
95	100.3	59.6	139.0

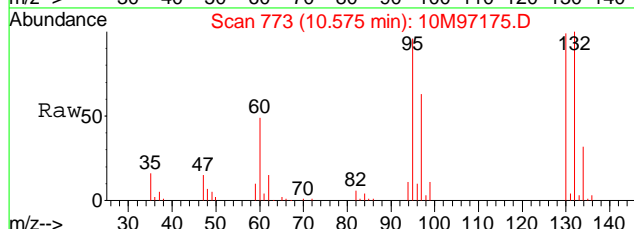


Abundance Ion 130.00 (129.70 to 130.70):
 Ion 132.00 (131.70 to 132.70):
 Ion 95.00 (94.70 to 95.70): 10

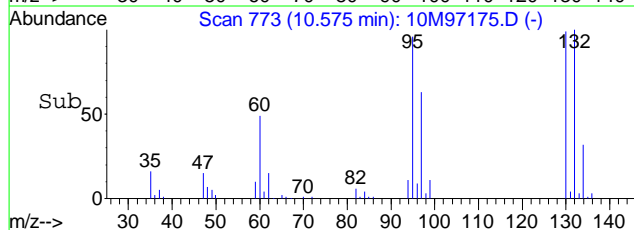
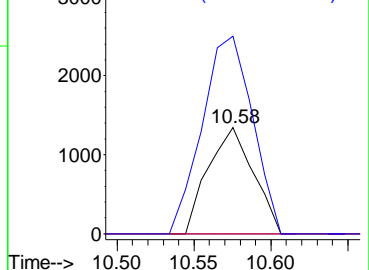


#48
 Methylcyclohexane
 Concen: 0.54 ug/L
 RT: 10.58 min Scan# 773
 Delta R.T. -0.08 min
 Lab File: 10M97175.D
 Acq: 22 Jul 2012 1:00

Tgt Ion	Ratio	Lower	Upper
83	100		
55	0.0	49.3	114.9#
98	206.4	28.2	65.8#



Abundance Ion 83.00 (82.70 to 83.70): 10
 Ion 55.00 (54.70 to 55.70): 10
 Ion 98.00 (97.70 to 98.70): 10



Data File : C:\MSDCHEM\1\DATA\073012\8M381198.D Vial: 10
 Acq On : 30 Jul 2012 15:15 Operator: ADC
 Sample : L12070658-20 C 826-LOW Inst : HPMS8
 Misc : 1,1 Multiplr: 1.00
 MS Integration Params: RTEINT.P
 Quant Time: Jul 31 11:39:06 2012 Quant Results File: 8260WTR.RES

Quant Method : C:\MSDCHEM\1\METHODS\8260WTR.M (RTE Integrator)
 Title : Method 8260B/624 WTR-SOP:OVLMSV01 06/28/12 HPMS 8
 Last Update : Fri Jun 29 09:29:43 2012
 Response via : Initial Calibration
 DataAcq Meth : 8260WTR

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene	10.17	96	545610	25.00	ug/L	-0.01
57) Chlorobenzene-d5	14.03	117	443496	25.00	ug/L	0.00
78) 1,4-Dichlorobenzene-d4	17.04	152	240333	25.00	ug/L	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
37) Dibromofluoromethane	9.13	111	142626	24.3077	ug/L	0.00
Spiked Amount 25.000	Range	86 - 118	Recovery	=	97.24%	
43) 1,2-Dichloroethane-d4	9.76	65	113450	20.7477	ug/L	-0.01
Spiked Amount 25.000	Range	80 - 120	Recovery	=	83.00%	
58) Toluene-d8	12.16	98	517111	25.5193	ug/L	0.00
Spiked Amount 25.000	Range	88 - 110	Recovery	=	102.08%	
80) p-Bromofluorobenzene	15.53	95	202881	25.4292	ug/L	0.00
Spiked Amount 25.000	Range	86 - 115	Recovery	=	101.72%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
47) Trichloroethene	10.69	130	33659	4.5879	ug/L	95
56) Dimethyl Disulfide	12.15	94	14360	2.0662	ug/L #	27
66) Tetrachloroethene	13.08	164	16677	2.6532	ug/L	94

 (#) = qualifier out of range (m) = manual integration
 8M381198.D 8260WTR.M Tue Jul 31 11:39:06 2012

Page 1

Data File : C:\MSDCHEM\1\DATA\073012\8M381198.D

Vial: 10

Acq On : 30 Jul 2012 15:15

Operator: ADC

Sample : L12070658-20 C 826-LOW

Inst : HPMS8

Misc : 1,1

Multiplr: 1.00

MS Integration Params: RTEINT.P

Quant Time: Jul 31 11:39 2012

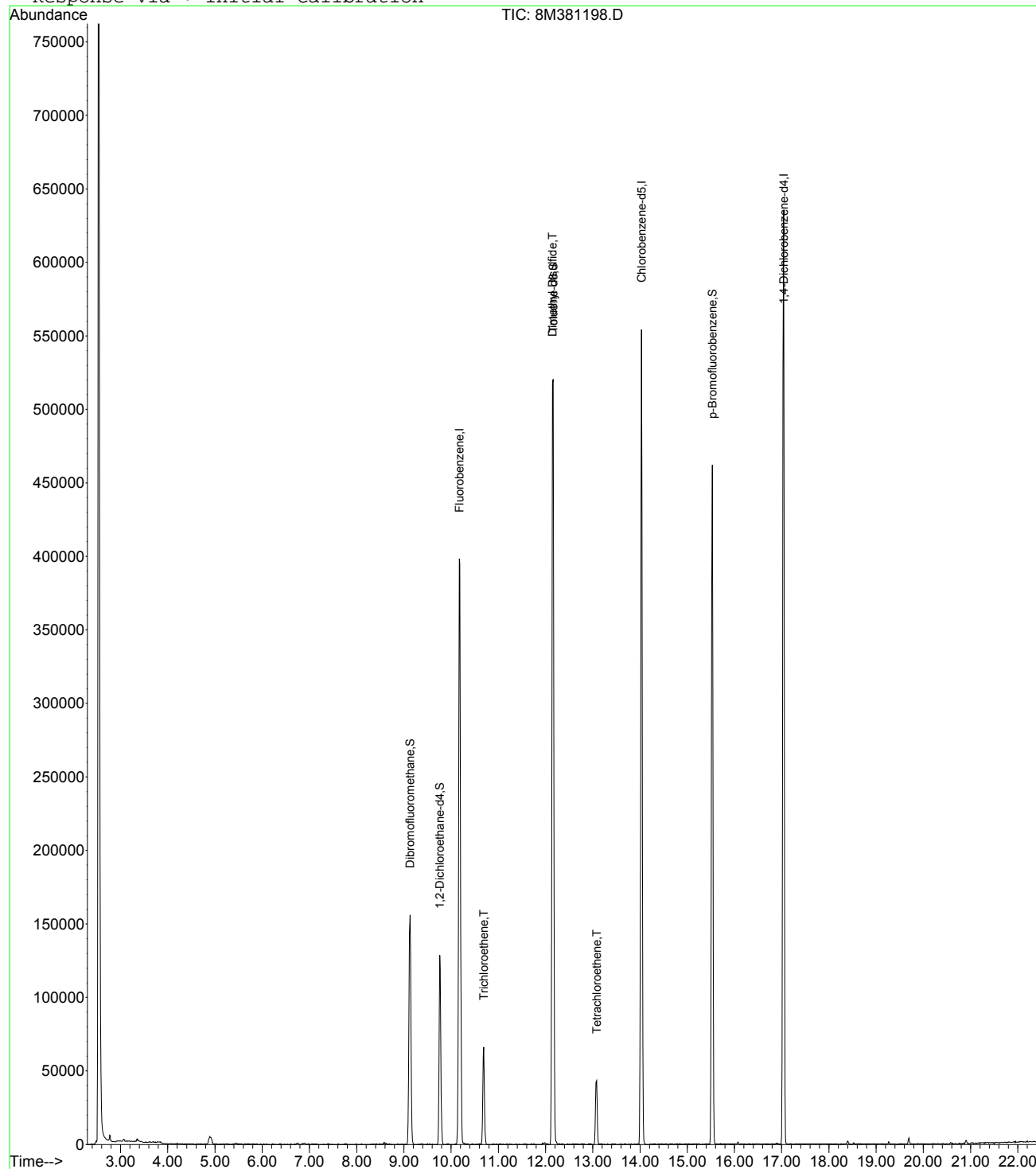
Quant Results File: 8260WTR.RES

Method : C:\MSDCHEM\1\METHODS\8260WTR.M (RTE Integrator)

Title : Method 8260B/624 WTR-SOP:OVLMSV01 06/28/12 HPMS 8

Last Update : Fri Jun 29 09:29:43 2012

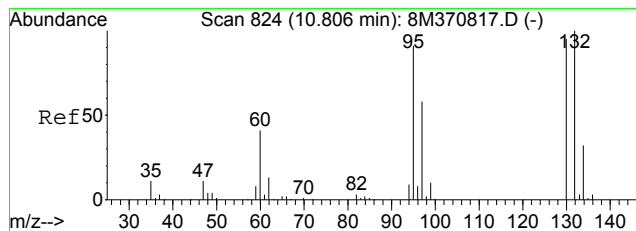
Response via : Initial Calibration



8M381198.D 8260WTR.M

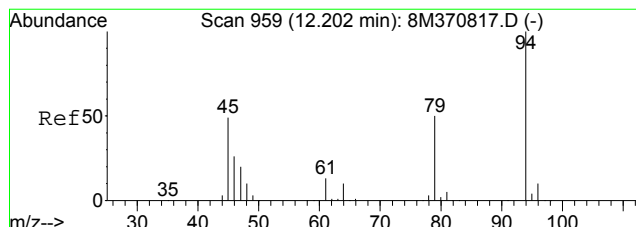
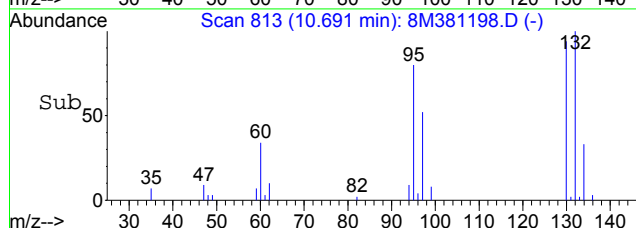
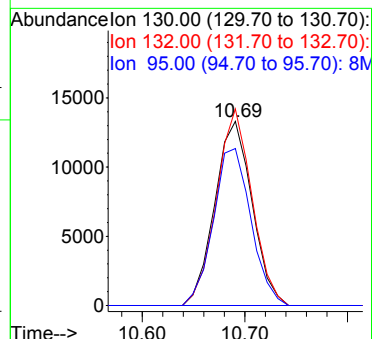
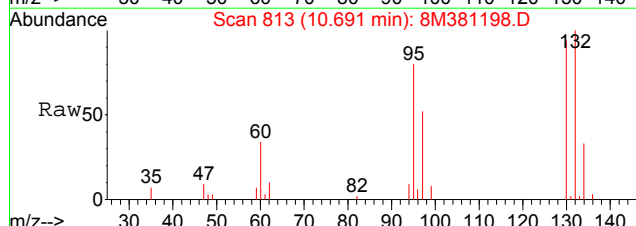
Tue Jul 31 11:39:07 2012

Page 2



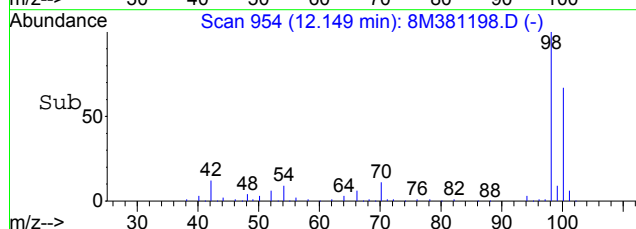
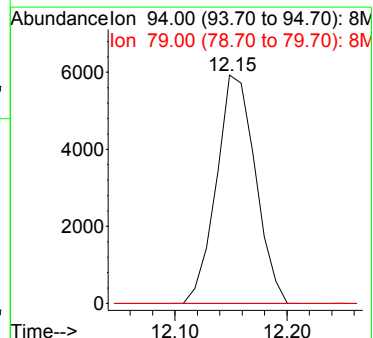
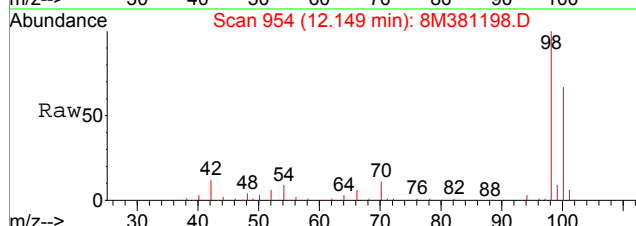
#47
 Trichloroethene
 Concen: 4.59 ug/L
 RT: 10.69 min Scan# 813
 Delta R.T. 0.00 min
 Lab File: 8M381198.D
 Acq: 30 Jul 2012 15:15

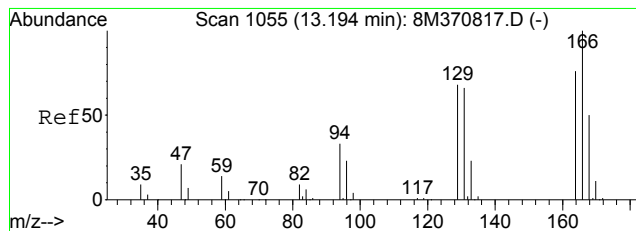
Tgt Ion	Resp	Lower	Upper
130	100		
132	101.5	63.0	147.0
95	85.8	55.1	128.5



#56
 Dimethyl Disulfide
 Concen: 2.07 ug/L
 RT: 12.15 min Scan# 954
 Delta R.T. 0.06 min
 Lab File: 8M381198.D
 Acq: 30 Jul 2012 15:15

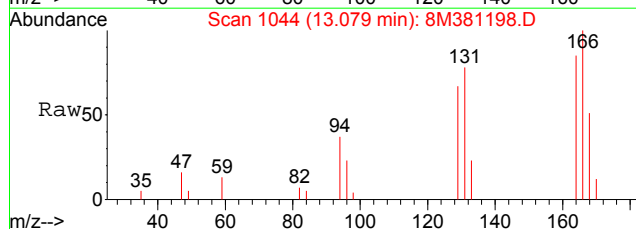
Tgt Ion	Resp	Lower	Upper
94	100		
79	0.0	30.6	71.4#



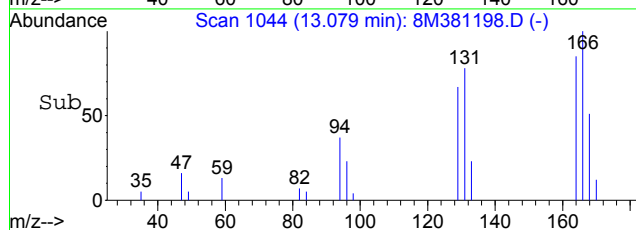
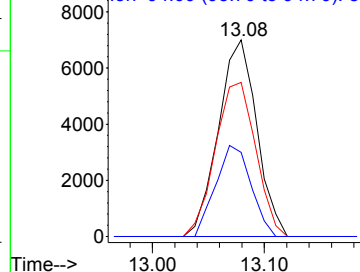


#66
 Tetrachloroethene
 Concen: 2.65 ug/L
 RT: 13.08 min Scan# 1044
 Delta R.T. 0.00 min
 Lab File: 8M381198.D
 Acq: 30 Jul 2012 15:15

Tgt Ion	Ratio	Lower	Upper
164	100		
129	82.7	51.8	121.0
94	42.8	29.9	69.9



Abundance Ion 164.00 (163.70 to 164.70):
 Ion 129.00 (128.70 to 129.70):
 Ion 94.00 (93.70 to 94.70): 8M



Data File : C:\MSDCHEM\1\DATA\072112\10M97164.D Vial: 9
 Acq On : 21 Jul 2012 19:38 Operator: MES
 Sample : L12070658-21 A 826-LOW Inst : HPMS10
 Misc : 1,1 Multiplr: 1.00
 MS Integration Params: RTEINT.P
 Quant Time: Jul 23 15:51:23 2012 Quant Results File: 8260BWT.RES

Quant Method : C:\MSDCHEM\1\METHODS\8260BWT.M (RTE Integrator)
 Title : 8260B/624 WT (SOP: OVL MSV01) 06/26/12 HPMS10
 Last Update : Tue Jul 10 17:22:08 2012
 Response via : Initial Calibration
 DataAcq Meth : 8260BWT

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene	10.10	96	450179	25.00	ug/L	0.00
57) Chlorobenzene-d5	13.71	117	333275	25.00	ug/L	0.00
78) 1,4-Dichlorobenzene-d4	16.50	152	159080	25.00	ug/L	-0.01
System Monitoring Compounds						
37) Dibromofluoromethane	9.11	111	101267	24.53	ug/L	0.00
Spiked Amount	25.000	Range 86 - 118	Recovery	=	98.12%	
43) 1,2-Dichloroethane-d4	9.71	65	105736	24.53	ug/L	0.00
Spiked Amount	25.000	Range 80 - 120	Recovery	=	98.12%	
58) Toluene-d8	11.95	98	358523	25.19	ug/L	0.00
Spiked Amount	25.000	Range 88 - 110	Recovery	=	100.76%	
80) p-Bromofluorobenzene	15.10	95	126916	26.64	ug/L	0.00
Spiked Amount	25.000	Range 86 - 115	Recovery	=	106.56%	
Target Compounds						
13) Acetone	5.84	43	1683	1.59	ug/L #	46
25) Diisopropyl ether	7.60	45	6173	0.39	ug/L #	24

(#) = qualifier out of range (m) = manual integration
 10M97164.D 8260BWT.M Mon Jul 23 15:51:24 2012

Page 1

Data File : C:\MSDCHEM\1\DATA\072112\10M97164.D

Vial: 9

Acq On : 21 Jul 2012 19:38

Operator: MES

Sample : L12070658-21 A 826-LOW

Inst : HPMS10

Misc : 1,1

Multiplr: 1.00

MS Integration Params: RTEINT.P

Quant Time: Jul 23 15:51 2012

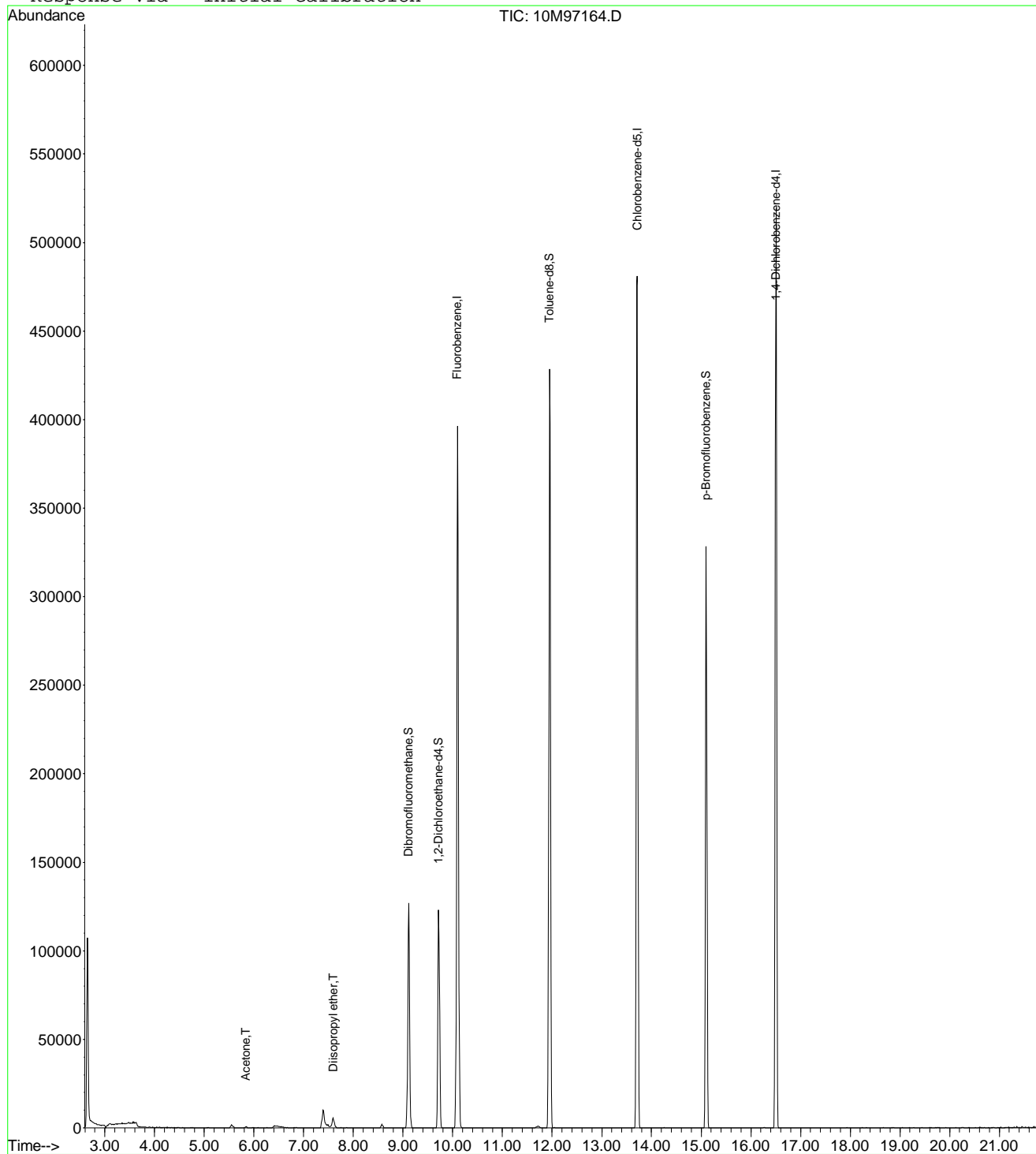
Quant Results File: 8260BWT.RES

Method : C:\MSDCHEM\1\METHODS\8260BWT.M (RTE Integrator)

Title : 8260B/624 WT (SOP: OVL MSV01) 06/26/12 HPMS10

Last Update : Tue Jul 10 17:22:08 2012

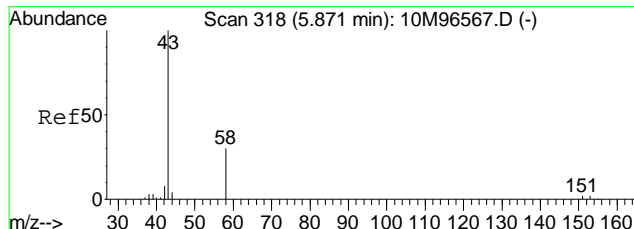
Response via : Initial Calibration



10M97164.D 8260BWT.M

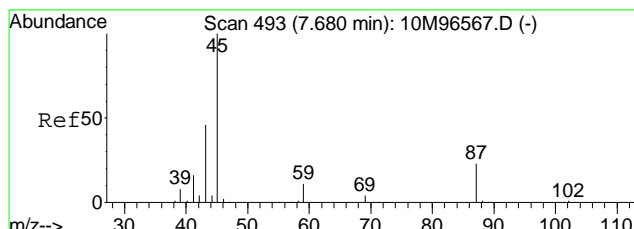
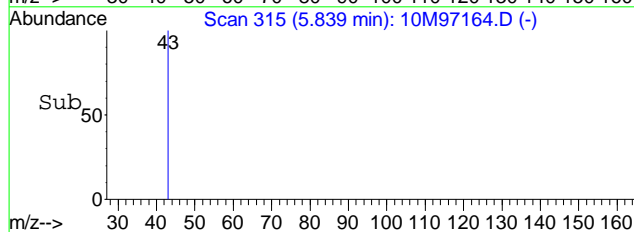
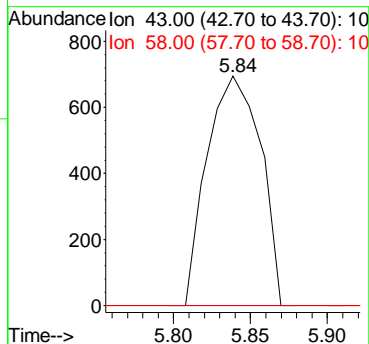
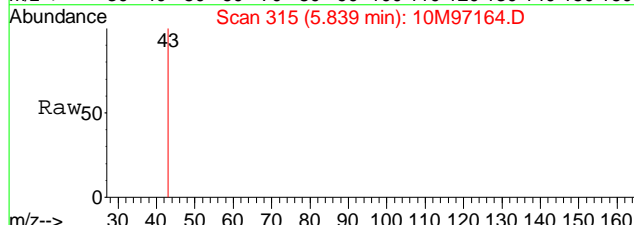
Mon Jul 23 15:51:24 2012

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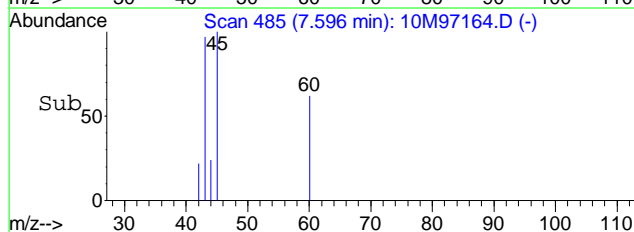
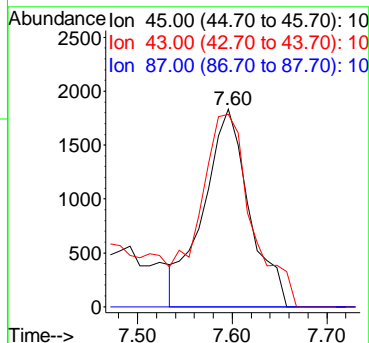
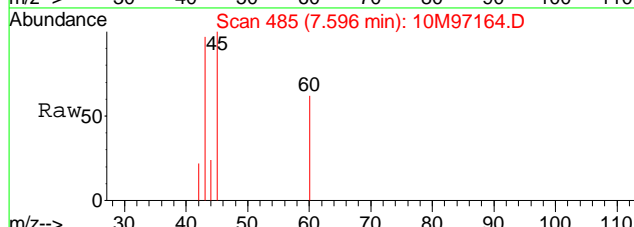
#13
 Acetone
 Concen: 1.59 ug/L
 RT: 5.84 min Scan# 315
 Delta R.T. 0.03 min
 Lab File: 10M97164.D
 Acq: 21 Jul 2012 19:38

Tgt Ion	Ratio	Lower	Upper
43	100		
58	0.0	17.2	40.2#



#25
 Diisopropyl ether
 Concen: 0.39 ug/L
 RT: 7.60 min Scan# 485
 Delta R.T. -0.04 min
 Lab File: 10M97164.D
 Acq: 21 Jul 2012 19:38

Tgt Ion	Ratio	Lower	Upper
45	100		
43	109.3	29.3	68.5#
87	0.0	16.1	37.5#



Data File : C:\MSDCHEM\1\DATA\072312\11M85507.D Vial: 9
 Acq On : 23 Jul 2012 16:41 Operator: FJB
 Sample : L12070658-22 A 826-LOW Inst : hpms11
 Misc : 1,1 Multiplr: 1.00
 MS Integration Params: rteint.p
 Quant Time: Jul 24 18:51:29 2012 Quant Results File: 8260WTR.RES

Quant Method : C:\MSDCHEM\1\METHODS\8260WTR.M (RTE Integrator)
 Title : 8260B/624 (SOP: OVL MSV01) Water 05/03/12 HPMS11
 Last Update : Fri Jul 13 11:24:02 2012
 Response via : Initial Calibration
 DataAcq Meth : 8260WTR

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene	10.28	96	477875	25.00	ug/L	-0.01
57) Chlorobenzene-d5	13.91	117	356030	25.00	ug/L	-0.01
78) 1,4-Dichlorobenzene-d4	16.72	152	171459	25.00	ug/L	0.00
System Monitoring Compounds						
37) Dibromofluoromethane	9.30	111	126243	21.6792	ug/L	0.00
Spiked Amount	25.000	Range 86 - 118	Recovery	=	86.72%	
43) 1,2-Dichloroethane-d4	9.90	65	115944	20.8075	ug/L	0.00
Spiked Amount	25.000	Range 80 - 120	Recovery	=	83.24%	
58) Toluene-d8	12.14	98	482783	25.7077	ug/L	-0.01
Spiked Amount	25.000	Range 88 - 110	Recovery	=	102.84%	
80) p-Bromofluorobenzene	15.30	95	160937	28.3973	ug/L	-0.01
Spiked Amount	25.000	Range 86 - 115	Recovery	=	113.60%	
Target Compounds						
13) Acetone	6.01	43	2076	1.5355	ug/L	# 64
59) Toluene	12.24	91	12889	0.6019	ug/L	99
72) Ethylbenzene	14.06	106	1742	0.2252	ug/L	59
73) m-,p-Xylene	14.06	106	1742	0.1824	ug/L	79

(#) = qualifier out of range (m) = manual integration
 11M85507.D 8260WTR.M Tue Jul 24 18:51:30 2012

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Data File : C:\MSDCHEM\1\DATA\072312\11M85507.D

Vial: 9

Acq On : 23 Jul 2012 16:41

Operator: FJB

Sample : L12070658-22 A 826-LOW

Inst : hpms11

Misc : 1,1

Multiplr: 1.00

MS Integration Params: rteint.p

Quant Time: Jul 24 18:51 2012

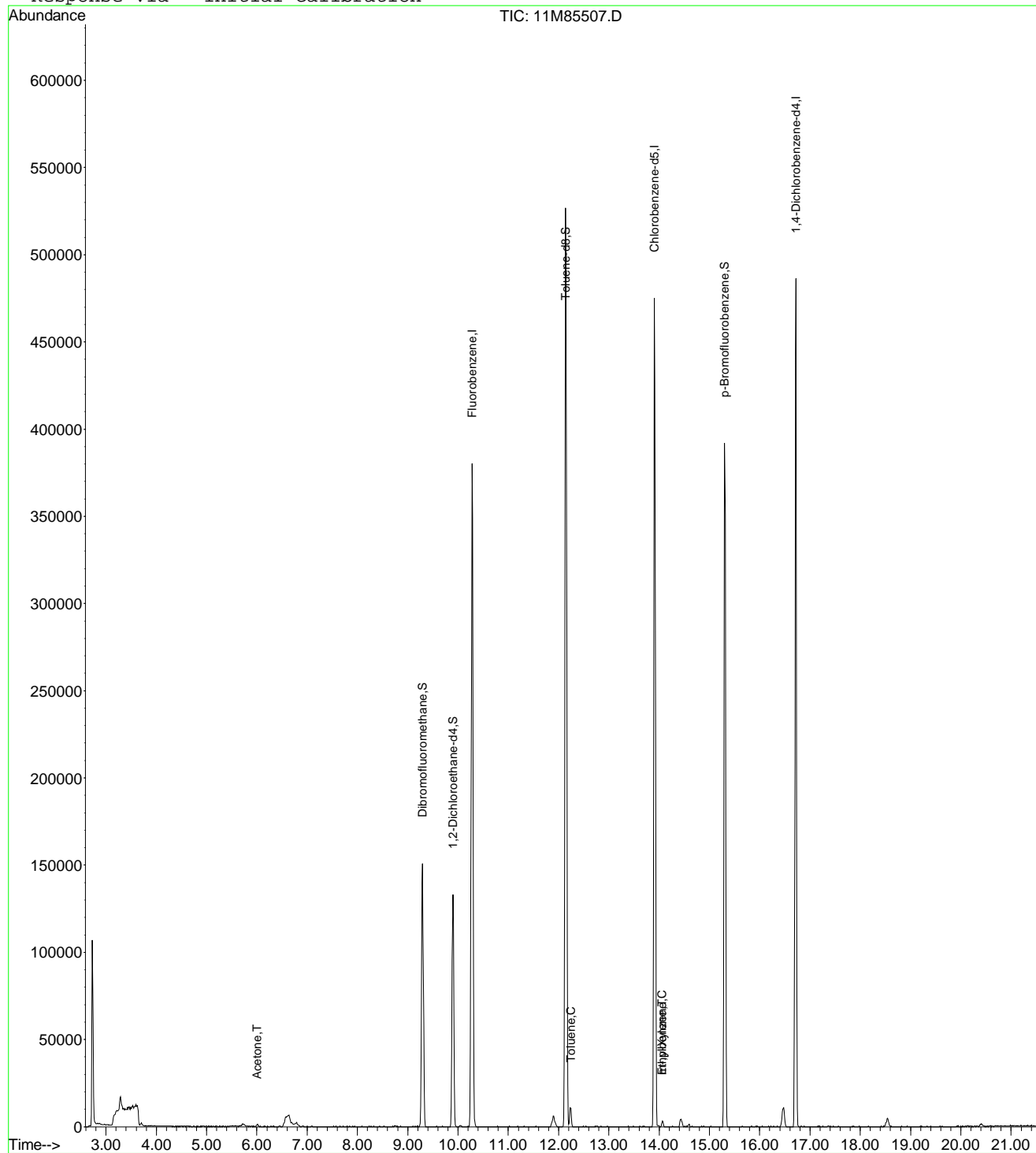
Quant Results File: 8260WTR.RES

Method : C:\MSDCHEM\1\METHODS\8260WTR.M (RTE Integrator)

Title : 8260B/624 (SOP: OVL MSV01) Water 05/03/12 HPMS11

Last Update : Fri Jul 13 11:24:02 2012

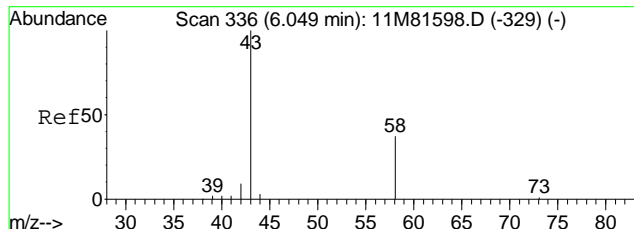
Response via : Initial Calibration



11M85507.D 8260WTR.M

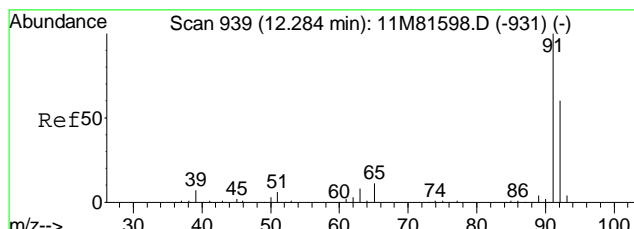
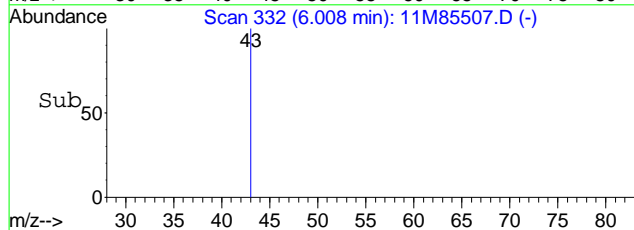
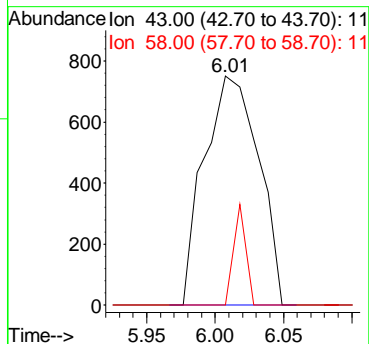
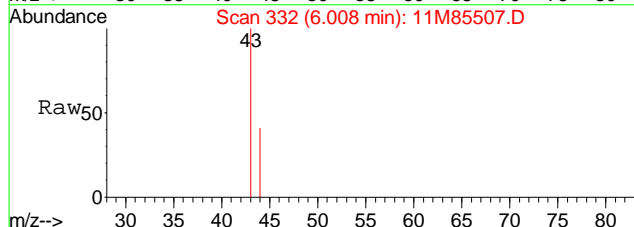
Tue Jul 24 18:51:30 2012

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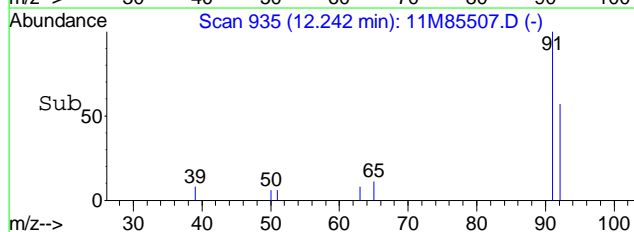
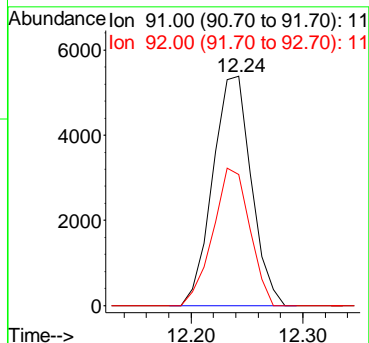
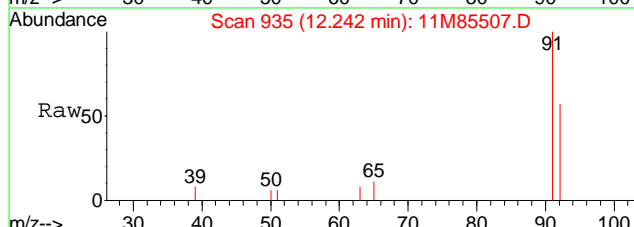
#13
 Acetone
 Concen: 1.54 ug/L
 RT: 6.01 min Scan# 332
 Delta R.T. -0.01 min
 Lab File: 11M85507.D
 Acq: 23 Jul 2012 16:41

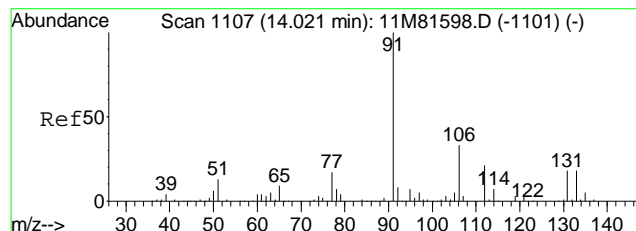
Tgt Ion	Ratio	Lower	Upper
43	100		
58	9.9	17.6	41.2#



#59
 Toluene
 Concen: 0.60 ug/L
 RT: 12.24 min Scan# 935
 Delta R.T. -0.00 min
 Lab File: 11M85507.D
 Acq: 23 Jul 2012 16:41

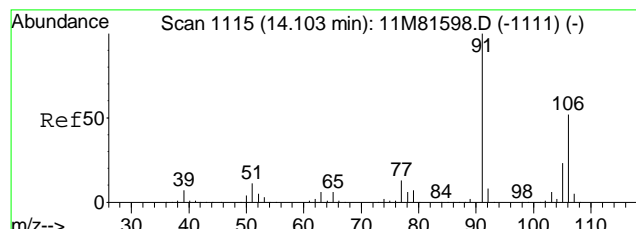
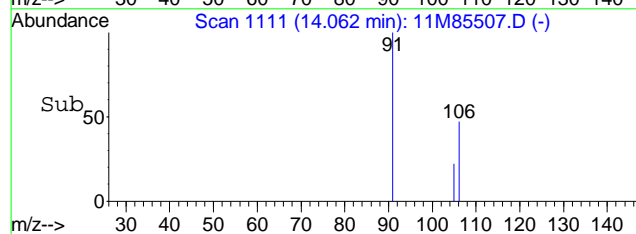
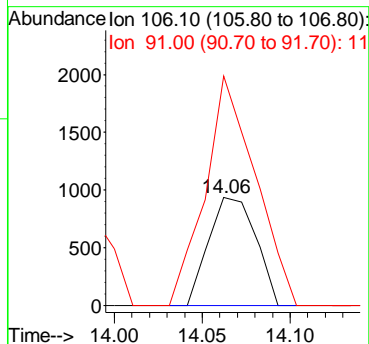
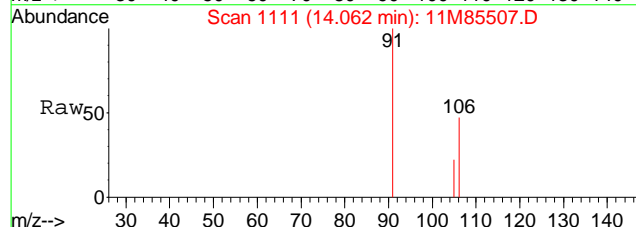
Tgt Ion	Ratio	Lower	Upper
91	100		
92	57.3	34.7	80.9





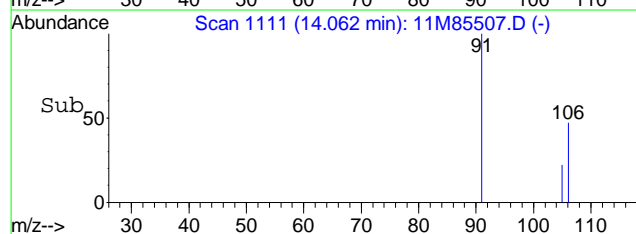
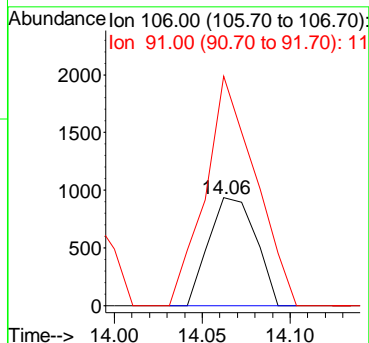
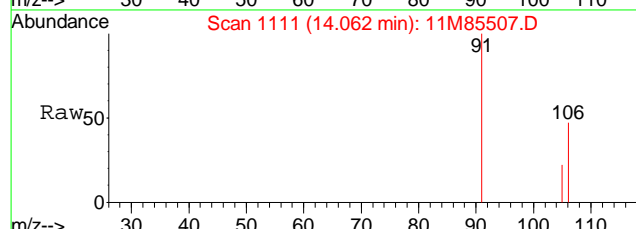
#72
 Ethylbenzene
 Concen: 0.23 ug/L
 RT: 14.06 min Scan# 1111
 Delta R.T. 0.07 min
 Lab File: 11M85507.D
 Acq: 23 Jul 2012 16:41

Tgt Ion	Ratio	Lower	Upper
106	100		
91	226.1	184.0	429.4



#73
 m-,p-Xylene
 Concen: 0.18 ug/L
 RT: 14.06 min Scan# 1111
 Delta R.T. -0.01 min
 Lab File: 11M85507.D
 Acq: 23 Jul 2012 16:41

Tgt Ion	Ratio	Lower	Upper
106	100		
91	226.1	116.5	271.7



Data File : C:\MSDCHEM\1\DATA\073012\8M381199.D Vial: 11
 Acq On : 30 Jul 2012 15:45 Operator: ADC
 Sample : L12070658-23 C 826-LOW Inst : HPMS8
 Misc : 1,1 Multiplr: 1.00
 MS Integration Params: RTEINT.P
 Quant Time: Jul 31 11:39:08 2012 Quant Results File: 8260WTR.RES

Quant Method : C:\MSDCHEM\1\METHODS\8260WTR.M (RTE Integrator)
 Title : Method 8260B/624 WTR-SOP:OVLMSV01 06/28/12 HPMS 8
 Last Update : Fri Jun 29 09:29:43 2012
 Response via : Initial Calibration
 DataAcq Meth : 8260WTR

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene	10.18	96	551758	25.00	ug/L	0.00
57) Chlorobenzene-d5	14.03	117	442809	25.00	ug/L	0.00
78) 1,4-Dichlorobenzene-d4	17.04	152	240602	25.00	ug/L	0.00
System Monitoring Compounds						
37) Dibromofluoromethane	9.13	111	145320	24.4909	ug/L	0.00
Spiked Amount 25.000	Range	86 - 118	Recovery	=	97.96%	
43) 1,2-Dichloroethane-d4	9.76	65	114411	20.6903	ug/L	0.00
Spiked Amount 25.000	Range	80 - 120	Recovery	=	82.76%	
58) Toluene-d8	12.15	98	520783	25.7404	ug/L	0.00
Spiked Amount 25.000	Range	88 - 110	Recovery	=	102.96%	
80) p-Bromofluorobenzene	15.53	95	202106	25.3038	ug/L	0.00
Spiked Amount 25.000	Range	86 - 115	Recovery	=	101.20%	
Target Compounds						
20) Carbon Disulfide	6.75	76	4809	0.2855	ug/L #	75
47) Trichloroethene	10.69	130	2030	0.2736	ug/L	94
56) Dimethyl Disulfide	12.15	94	14368	2.0520	ug/L #	27

 (#) = qualifier out of range (m) = manual integration
 8M381199.D 8260WTR.M Tue Jul 31 11:39:09 2012

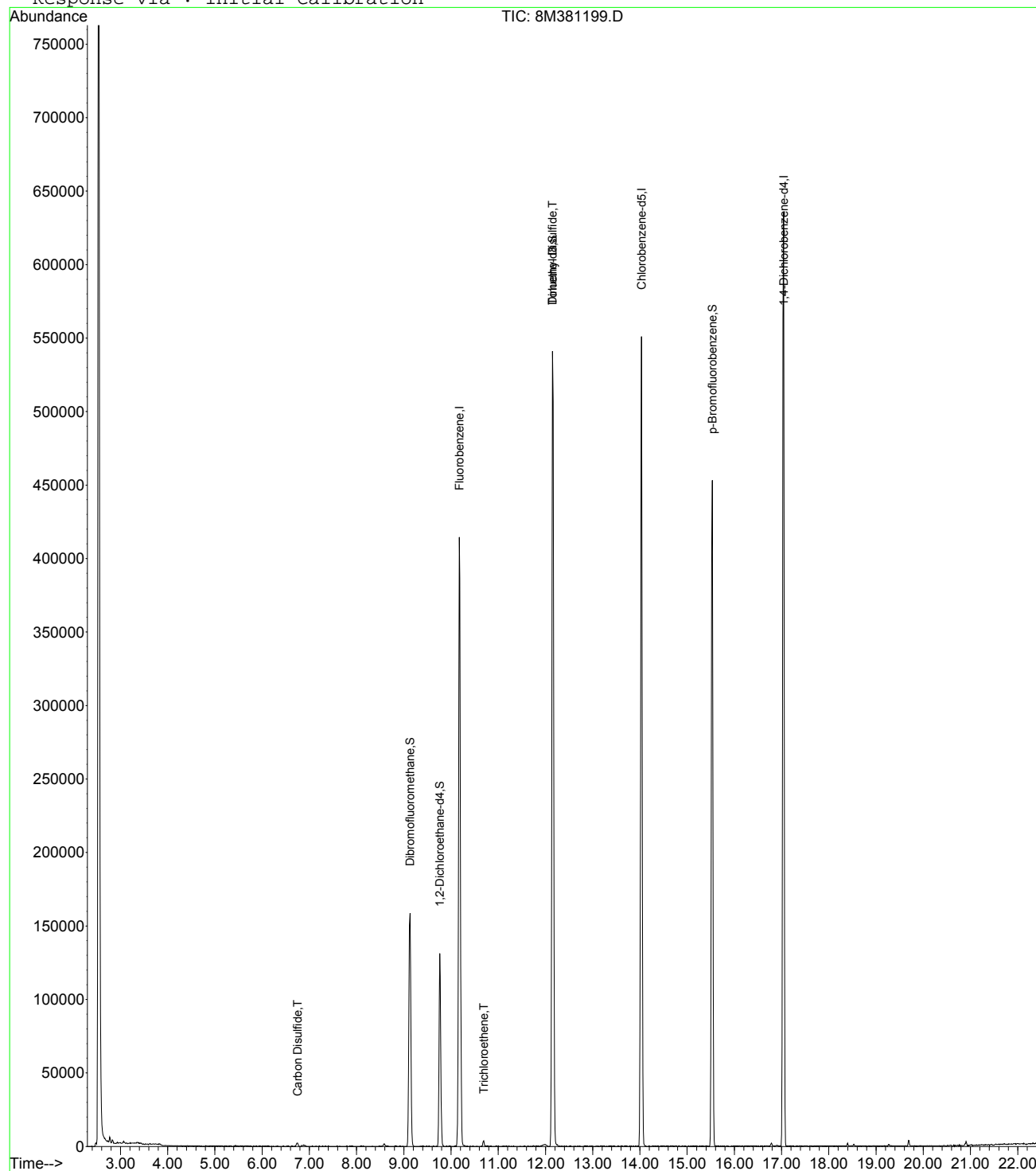
Page 1

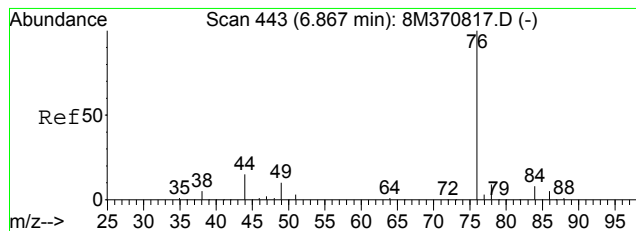
Data File : C:\MSDCHEM\1\DATA\073012\8M381199.D
 Acq On : 30 Jul 2012 15:45
 Sample : L12070658-23 C 826-LOW
 Misc : 1,1
 MS Integration Params: RTEINT.P
 Quant Time: Jul 31 11:39 2012

Vial: 11
 Operator: ADC
 Inst : HPMS8
 Multiplr: 1.00

Quant Results File: 8260WTR.RES

Method : C:\MSDCHEM\1\METHODS\8260WTR.M (RTE Integrator)
 Title : Method 8260B/624 WTR-SOP:OVLMSV01 06/28/12 HPMS 8
 Last Update : Fri Jun 29 09:29:43 2012
 Response via : Initial Calibration

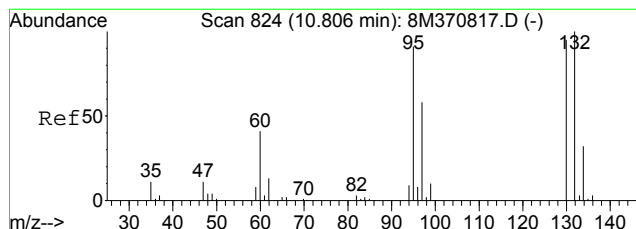
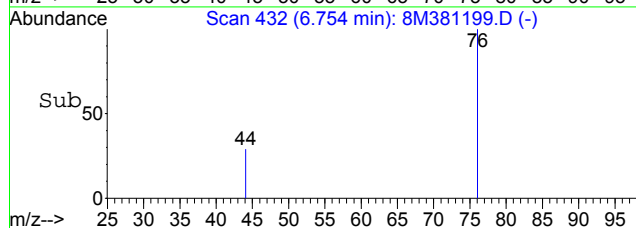
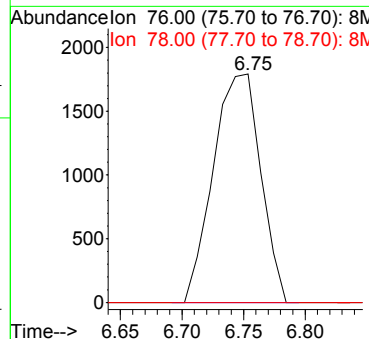
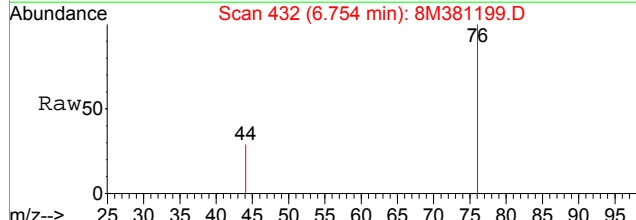




#20
 Carbon Disulfide
 Concen: 0.29 ug/L
 RT: 6.75 min Scan# 432
 Delta R.T. 0.01 min
 Lab File: 8M381199.D
 Acq: 30 Jul 2012 15:45

Tgt Ion: 76 Resp: 4809

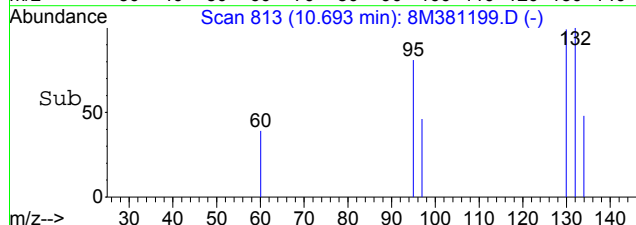
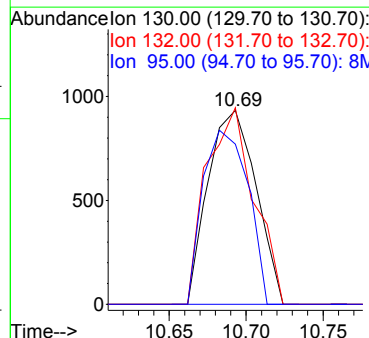
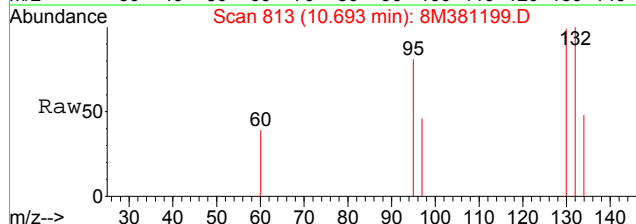
Ion	Ratio	Lower	Upper
76	100		
78	0.0	5.5	12.9#

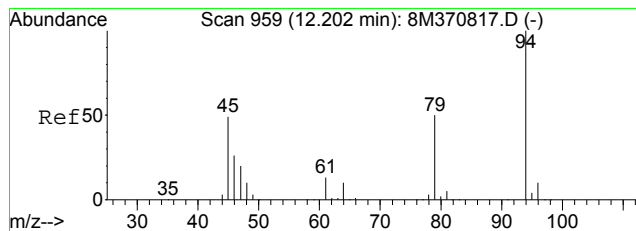


#47
 Trichloroethene
 Concen: 0.27 ug/L
 RT: 10.69 min Scan# 813
 Delta R.T. 0.00 min
 Lab File: 8M381199.D
 Acq: 30 Jul 2012 15:45

Tgt Ion: 130 Resp: 2030

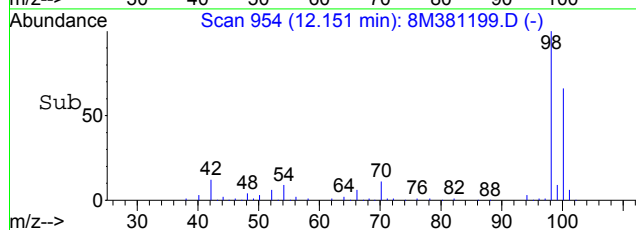
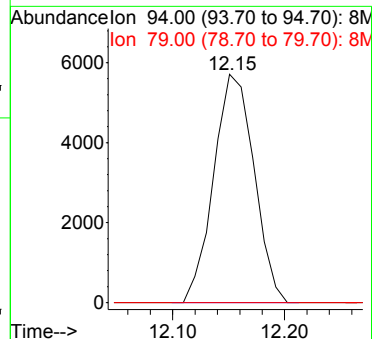
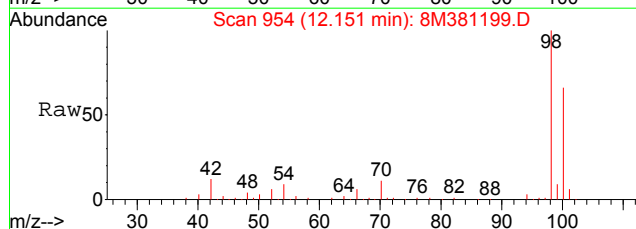
Ion	Ratio	Lower	Upper
130	100		
132	99.8	63.0	147.0
95	84.2	55.1	128.5





#56
 Dimethyl Disulfide
 Concen: 2.05 ug/L
 RT: 12.15 min Scan# 954
 Delta R.T. 0.06 min
 Lab File: 8M381199.D
 Acq: 30 Jul 2012 15:45

Tgt Ion: 94 Resp: 14368
 Ion Ratio Lower Upper
 94 100
 79 0.0 30.6 71.4#



Data File : C:\MSDCHEM\1\DATA\073012\8M381200.D Vial: 12
 Acq On : 30 Jul 2012 16:15 Operator: ADC
 Sample : L12070658-24 C 826-LOW Inst : HPMS8
 Misc : 1,1 Multiplr: 1.00
 MS Integration Params: RTEINT.P
 Quant Time: Jul 31 11:39:10 2012 Quant Results File: 8260WTR.RES

Quant Method : C:\MSDCHEM\1\METHODS\8260WTR.M (RTE Integrator)
 Title : Method 8260B/624 WTR-SOP:OVLMSV01 06/28/12 HPMS 8
 Last Update : Fri Jun 29 09:29:43 2012
 Response via : Initial Calibration
 DataAcq Meth : 8260WTR

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene	10.18	96	546872	25.00	ug/L	0.00
57) Chlorobenzene-d5	14.03	117	441187	25.00	ug/L	0.00
78) 1,4-Dichlorobenzene-d4	17.04	152	240554	25.00	ug/L	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
37) Dibromofluoromethane	9.13	111	145210	24.6910	ug/L	0.00
Spiked Amount 25.000	Range	86 - 118	Recovery	=	98.76%	
43) 1,2-Dichloroethane-d4	9.76	65	113364	20.6841	ug/L	-0.01
Spiked Amount 25.000	Range	80 - 120	Recovery	=	82.72%	
58) Toluene-d8	12.16	98	514614	25.5290	ug/L	0.00
Spiked Amount 25.000	Range	88 - 110	Recovery	=	102.12%	
80) p-Bromofluorobenzene	15.53	95	201405	25.2210	ug/L	0.00
Spiked Amount 25.000	Range	86 - 115	Recovery	=	100.88%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
47) Trichloroethene	10.69	130	1563	0.2126	ug/L	92
56) Dimethyl Disulfide	12.16	94	13267	1.9614	ug/L	# 27

 (#) = qualifier out of range (m) = manual integration
 8M381200.D 8260WTR.M Tue Jul 31 11:39:11 2012

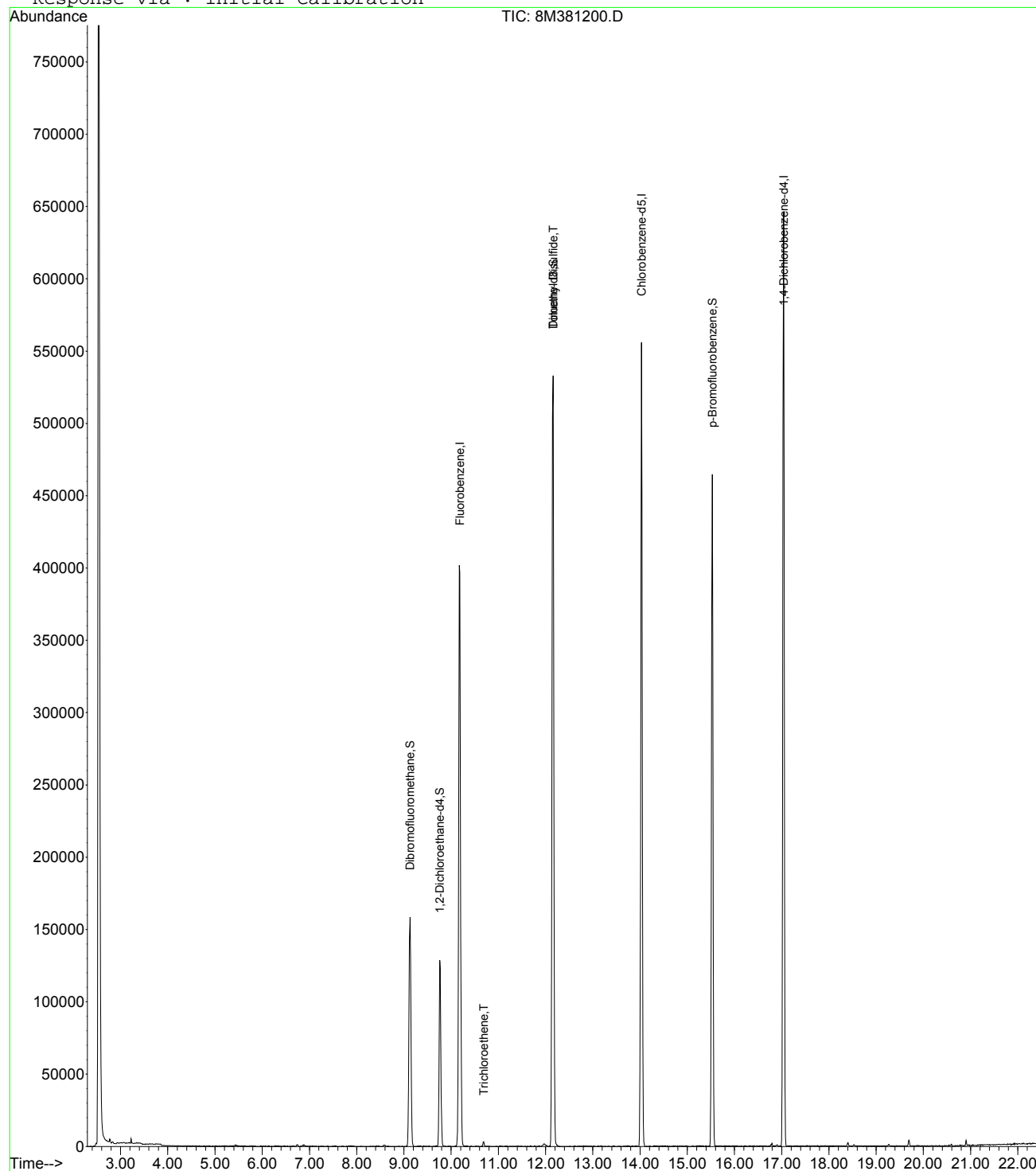
Page 1

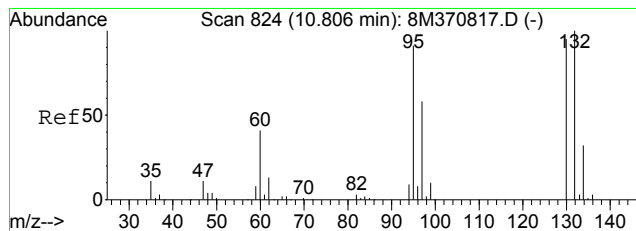
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 Acq On : 30 Jul 2012 16:15
 Sample : L12070658-24 C 826-LOW
 Misc : 1,1
 MS Integration Params: RTEINT.P
 Quant Time: Jul 31 11:39 2012

Vial: 12
 Operator: ADC
 Inst : HPMS8
 Multiplr: 1.00

Quant Results File: 8260WTR.RES

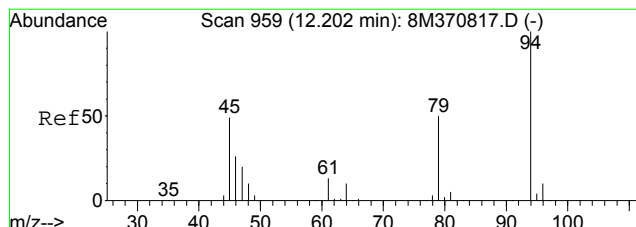
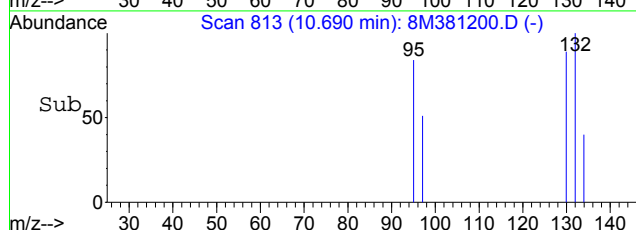
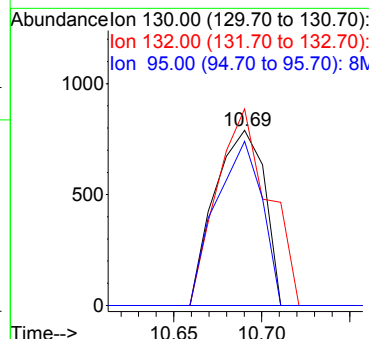
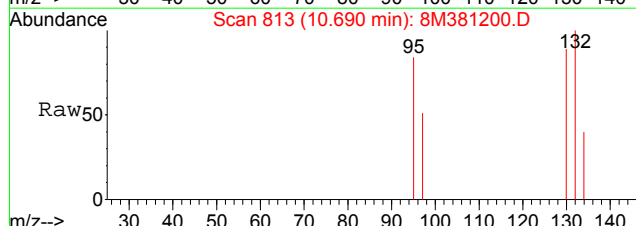
Method : C:\MSDCHEM\1\METHODS\8260WTR.M (RTE Integrator)
 Title : Method 8260B/624 WTR-SOP:OVLMSV01 06/28/12 HPMS 8
 Last Update : Fri Jun 29 09:29:43 2012
 Response via : Initial Calibration





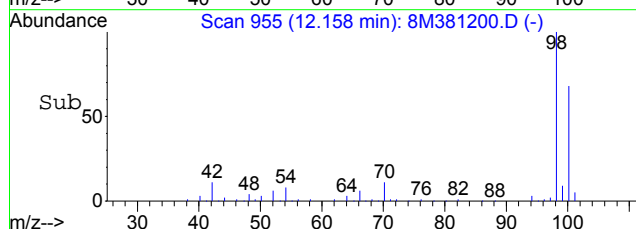
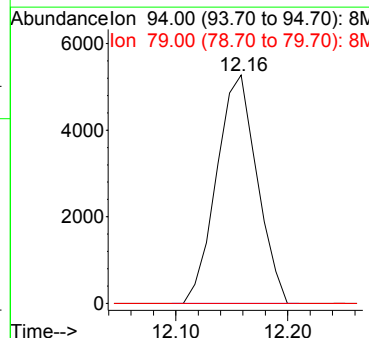
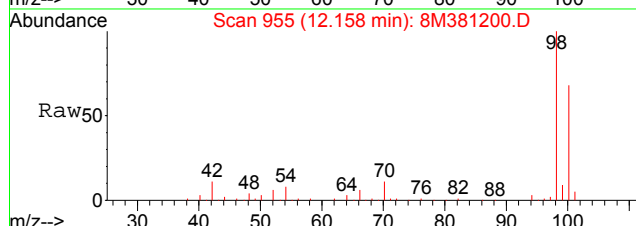
#47
 Trichloroethene
 Concen: 0.21 ug/L
 RT: 10.69 min Scan# 813
 Delta R.T. -0.00 min
 Lab File: 8M381200.D
 Acq: 30 Jul 2012 16:15

Tgt Ion	Resp	Ion	Ratio	Lower	Upper
130	1563	130	100		
132		132	115.2	63.0	147.0
95		95	86.7	55.1	128.5



#56
 Dimethyl Disulfide
 Concen: 1.96 ug/L
 RT: 12.16 min Scan# 955
 Delta R.T. 0.07 min
 Lab File: 8M381200.D
 Acq: 30 Jul 2012 16:15

Tgt Ion	Resp	Ion	Ratio	Lower	Upper
94	13267	94	100		
79		79	0.0	30.6	71.4#



Data File : C:\MSDCHEM\1\DATA\073012\8M381201.D Vial: 13
 Acq On : 30 Jul 2012 16:45 Operator: ADC
 Sample : L12070658-25 B 826-LOW Inst : HPMS8
 Misc : 1,1 Multiplr: 1.00
 MS Integration Params: RTEINT.P
 Quant Time: Jul 31 11:39:12 2012 Quant Results File: 8260WTR.RES

Quant Method : C:\MSDCHEM\1\METHODS\8260WTR.M (RTE Integrator)
 Title : Method 8260B/624 WTR-SOP:OVLMSV01 06/28/12 HPMS 8
 Last Update : Fri Jun 29 09:29:43 2012
 Response via : Initial Calibration
 DataAcq Meth : 8260WTR

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene	10.18	96	543531	25.00	ug/L	0.00
57) Chlorobenzene-d5	14.03	117	436485	25.00	ug/L	0.00
78) 1,4-Dichlorobenzene-d4	17.04	152	239309	25.00	ug/L	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
37) Dibromofluoromethane	9.13	111	144983	24.8039	ug/L	0.00
Spiked Amount 25.000	Range	86 - 118	Recovery	=	99.20%	
43) 1,2-Dichloroethane-d4	9.76	65	113840	20.8986	ug/L	-0.01
Spiked Amount 25.000	Range	80 - 120	Recovery	=	83.60%	
58) Toluene-d8	12.16	98	515400	25.8434	ug/L	0.00
Spiked Amount 25.000	Range	88 - 110	Recovery	=	103.36%	
80) p-Bromofluorobenzene	15.53	95	202254	25.4591	ug/L	0.00
Spiked Amount 25.000	Range	86 - 115	Recovery	=	101.84%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
14) 1,1-Dichloroethene	5.96	61	3932	0.4026	ug/L	94
20) Carbon Disulfide	6.74	76	3155	0.1902	ug/L #	75
47) Trichloroethene	10.69	130	10551	1.4437	ug/L	96
56) Dimethyl Disulfide	12.16	94	14137	2.0505	ug/L #	27
66) Tetrachloroethene	13.08	164	1487	0.2404	ug/L	88

 (#) = qualifier out of range (m) = manual integration
 8M381201.D 8260WTR.M Tue Jul 31 11:39:13 2012

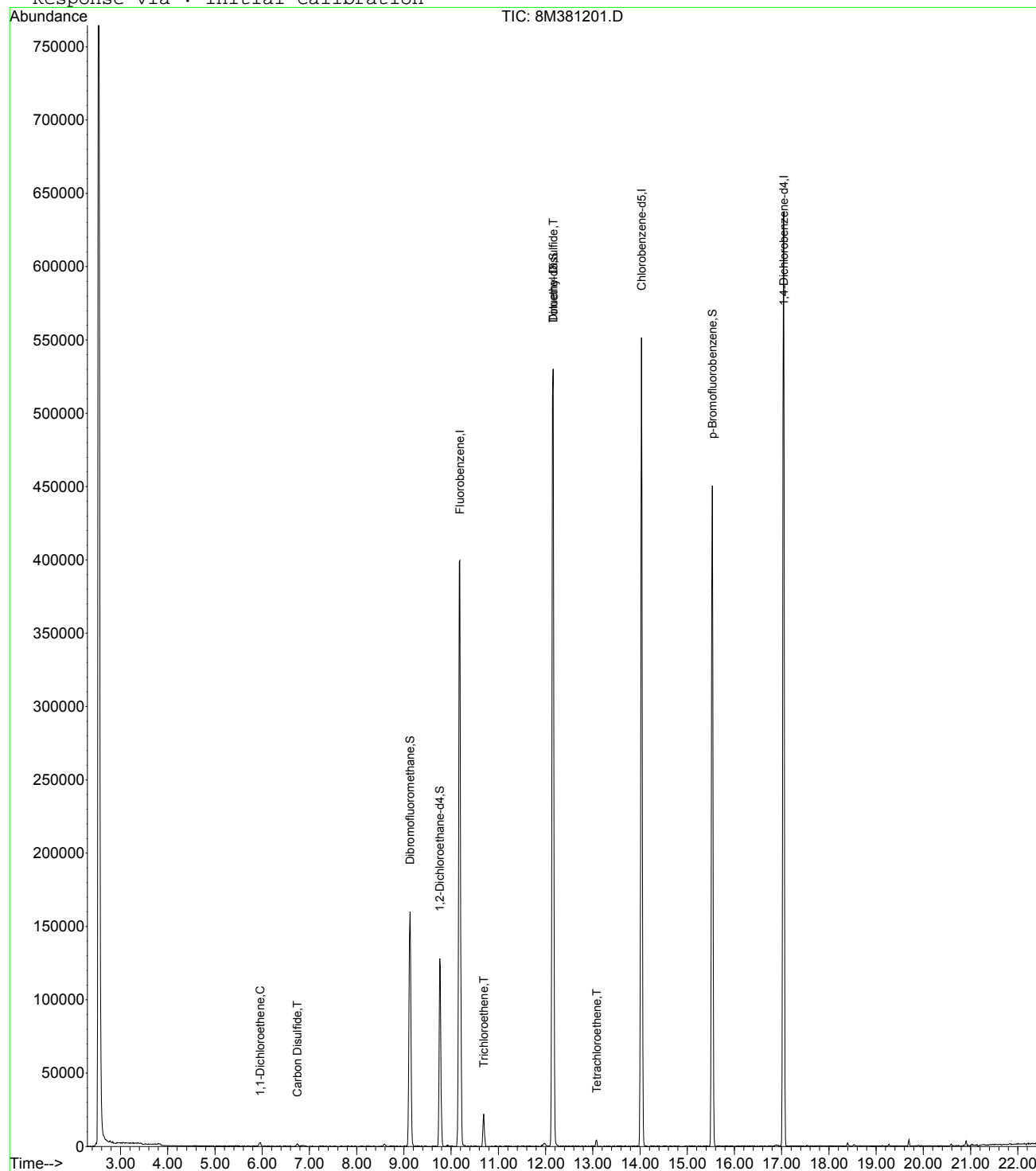
Page 1

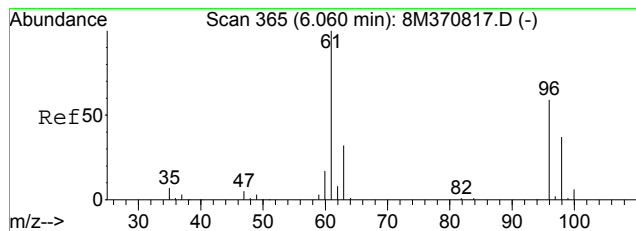
Data File : C:\MSDCHEM\1\DATA\073012\8M381201.D
 Acq On : 30 Jul 2012 16:45
 Sample : L12070658-25 B 826-LOW
 Misc : 1,1
 MS Integration Params: RTEINT.P
 Quant Time: Jul 31 11:39 2012

Vial: 13
 Operator: ADC
 Inst : HPMS8
 Multiplr: 1.00

Quant Results File: 8260WTR.RES

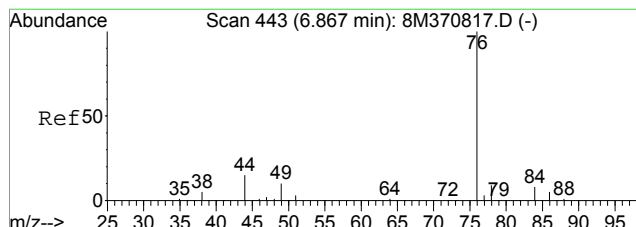
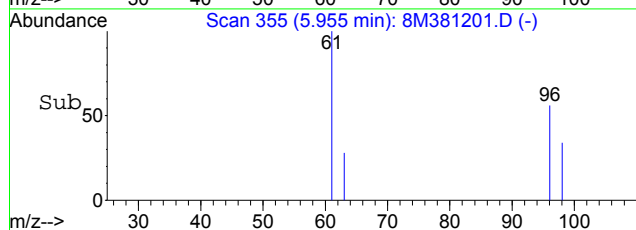
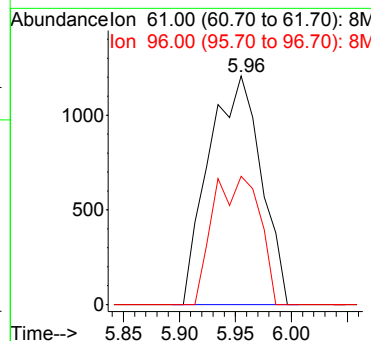
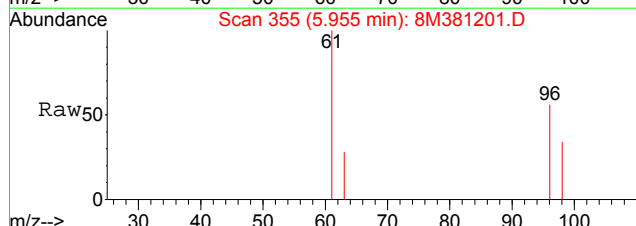
Method : C:\MSDCHEM\1\METHODS\8260WTR.M (RTE Integrator)
 Title : Method 8260B/624 WTR-SOP:OVLMSV01 06/28/12 HPMS 8
 Last Update : Fri Jun 29 09:29:43 2012
 Response via : Initial Calibration





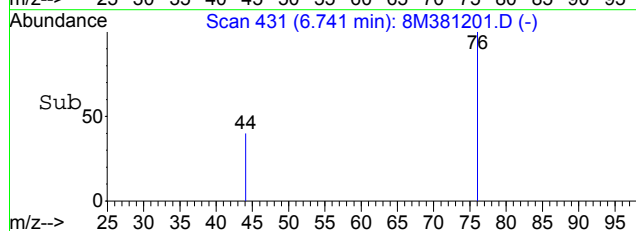
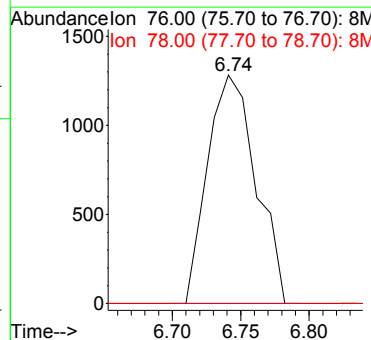
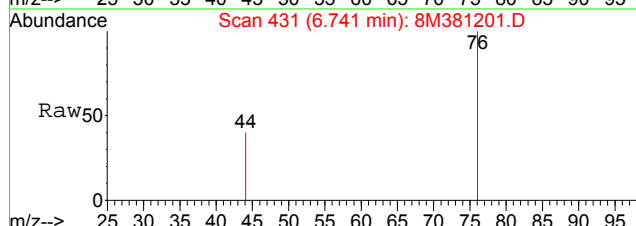
#14
 1,1-Dichloroethene
 Concen: 0.40 ug/L
 RT: 5.96 min Scan# 355
 Delta R.T. 0.01 min
 Lab File: 8M381201.D
 Acq: 30 Jul 2012 16:45

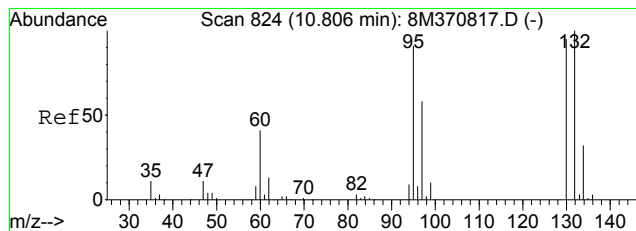
Tgt Ion	Resp	Lower	Upper
61	100		
96	50.2	32.8	76.4



#20
 Carbon Disulfide
 Concen: 0.19 ug/L
 RT: 6.74 min Scan# 431
 Delta R.T. -0.00 min
 Lab File: 8M381201.D
 Acq: 30 Jul 2012 16:45

Tgt Ion	Resp	Lower	Upper
76	100		
78	0.0	5.5	12.9#

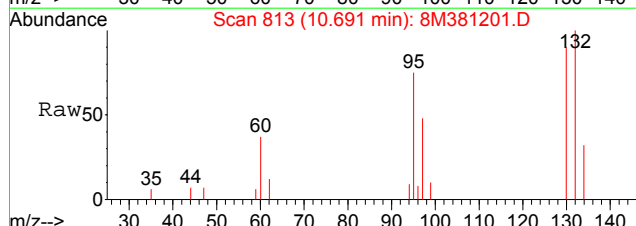




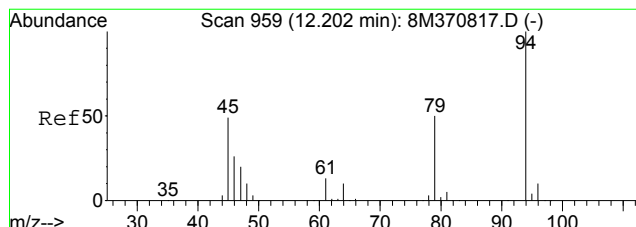
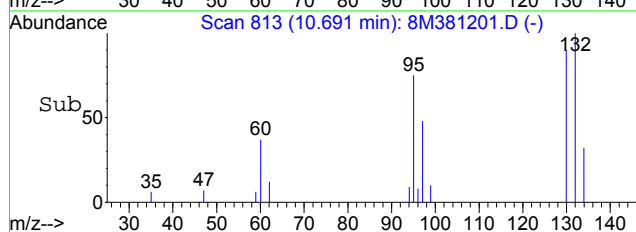
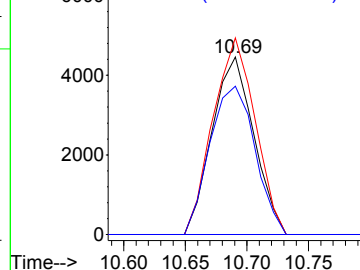
#47
 Trichloroethene
 Concen: 1.44 ug/L
 RT: 10.69 min Scan# 813
 Delta R.T. -0.00 min
 Lab File: 8M381201.D
 Acq: 30 Jul 2012 16:45

Tgt Ion:130 Resp: 10551

Ion	Ratio	Lower	Upper
130	100		
132	111.6	63.0	147.0
95	90.2	55.1	128.5



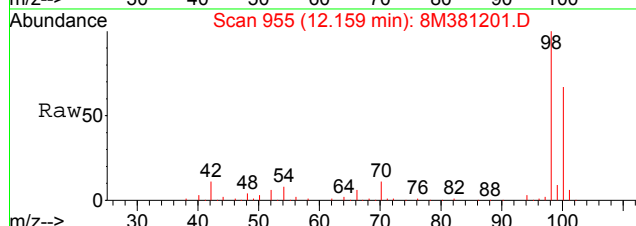
Abundance Ion 130.00 (129.70 to 130.70):
 Ion 132.00 (131.70 to 132.70):
 Ion 95.00 (94.70 to 95.70): 8M



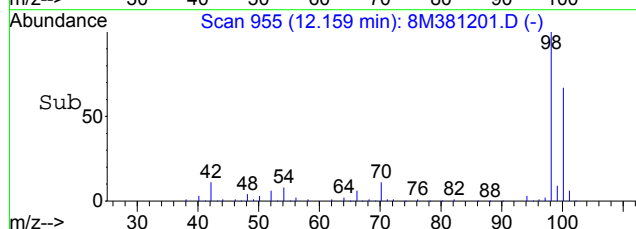
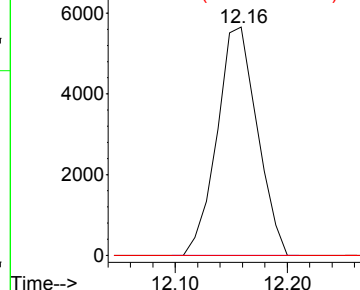
#56
 Dimethyl Disulfide
 Concen: 2.05 ug/L
 RT: 12.16 min Scan# 955
 Delta R.T. 0.07 min
 Lab File: 8M381201.D
 Acq: 30 Jul 2012 16:45

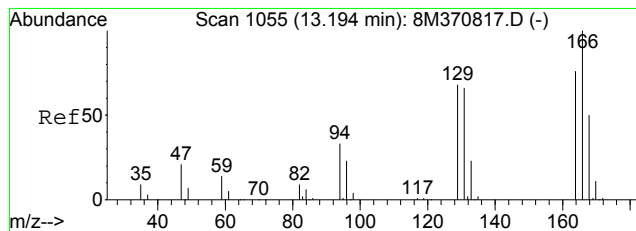
Tgt Ion: 94 Resp: 14137

Ion	Ratio	Lower	Upper
94	100		
79	0.0	30.6	71.4#



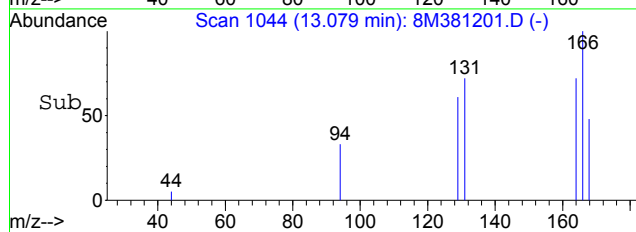
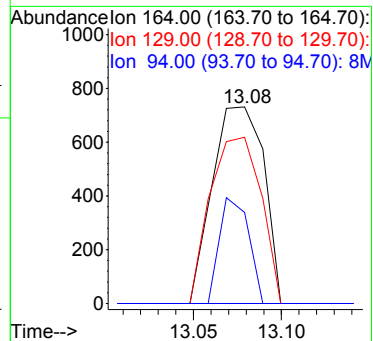
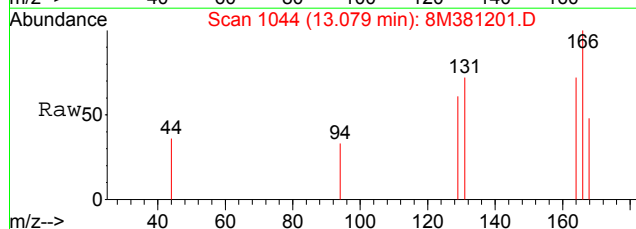
Abundance Ion 94.00 (93.70 to 94.70): 8M
 Ion 79.00 (78.70 to 79.70): 8M





#66
 Tetrachloroethene
 Concen: 0.24 ug/L
 RT: 13.08 min Scan# 1044
 Delta R.T. -0.00 min
 Lab File: 8M381201.D
 Acq: 30 Jul 2012 16:45

Tgt Ion	Ratio	Lower	Upper
164	100		
129	83.5	51.8	121.0
94	30.6	29.9	69.9



Data File : C:\MSDCHEM\1\DATA\073012\8M381202.D Vial: 14
 Acq On : 30 Jul 2012 17:15 Operator: ADC
 Sample : L12070658-26 B 826-LOW Inst : HPMS8
 Misc : 1,1 Multiplr: 1.00
 MS Integration Params: RTEINT.P
 Quant Time: Jul 31 11:39:15 2012 Quant Results File: 8260WTR.RES

Quant Method : C:\MSDCHEM\1\METHODS\8260WTR.M (RTE Integrator)
 Title : Method 8260B/624 WTR-SOP:OVLMSV01 06/28/12 HPMS 8
 Last Update : Fri Jun 29 09:29:43 2012
 Response via : Initial Calibration
 DataAcq Meth : 8260WTR

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene	10.18	96	538037	25.00	ug/L	0.00
57) Chlorobenzene-d5	14.03	117	434509	25.00	ug/L	0.00
78) 1,4-Dichlorobenzene-d4	17.04	152	237013	25.00	ug/L	0.00
System Monitoring Compounds						
37) Dibromofluoromethane	9.13	111	142752	24.6716	ug/L	0.00
Spiked Amount 25.000	Range	86 - 118	Recovery	=	98.68%	
43) 1,2-Dichloroethane-d4	9.76	65	113255	21.0035	ug/L	-0.01
Spiked Amount 25.000	Range	80 - 120	Recovery	=	84.00%	
58) Toluene-d8	12.16	98	514093	25.8951	ug/L	0.00
Spiked Amount 25.000	Range	88 - 110	Recovery	=	103.60%	
80) p-Bromofluorobenzene	15.53	95	200204	25.4452	ug/L	0.00
Spiked Amount 25.000	Range	86 - 115	Recovery	=	101.80%	
Target Compounds						
56) Dimethyl Disulfide	12.15	94	13889	2.0405	ug/L	Qvalue # 27

 (#) = qualifier out of range (m) = manual integration
 8M381202.D 8260WTR.M Tue Jul 31 11:39:16 2012

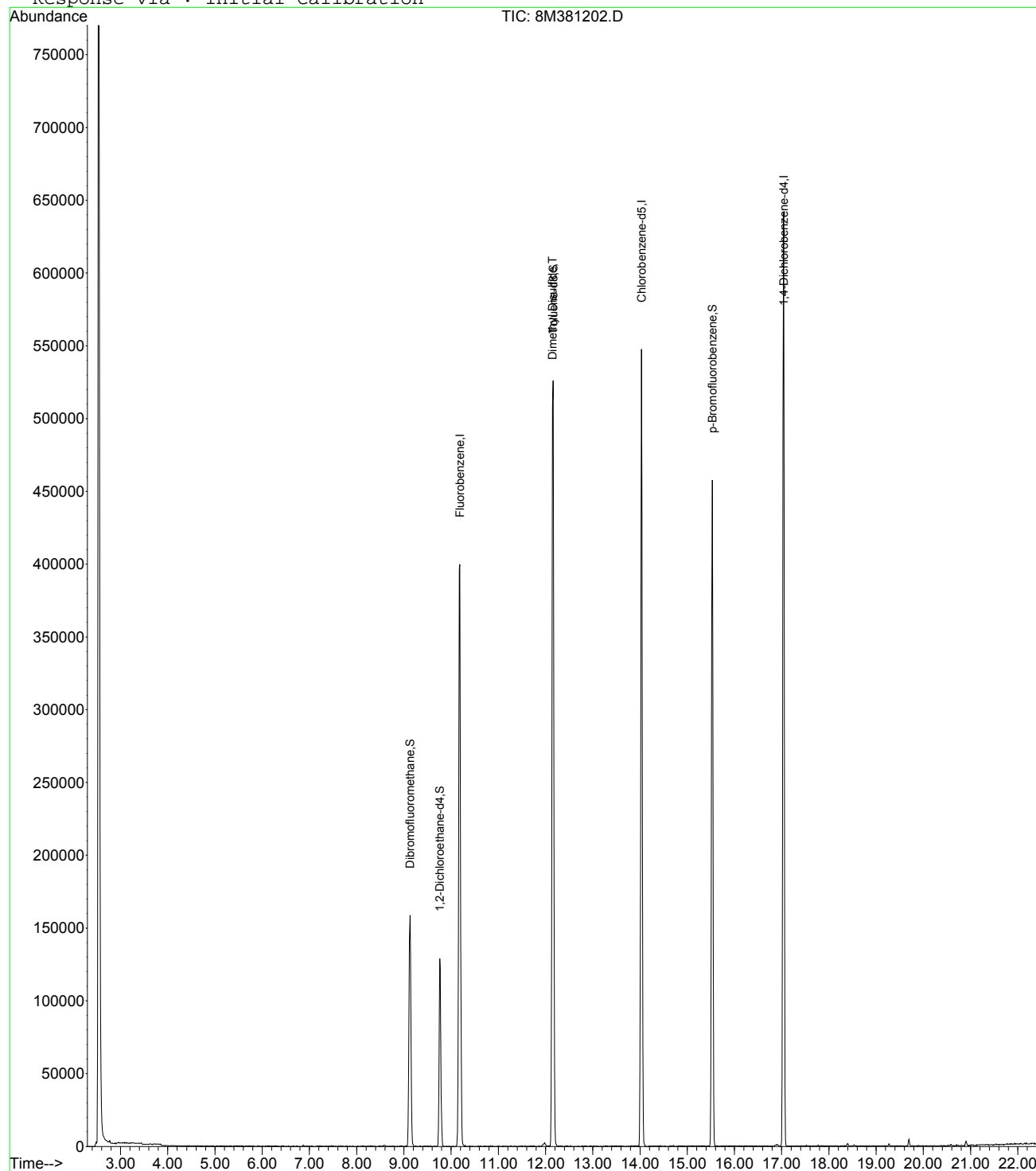
Page 1

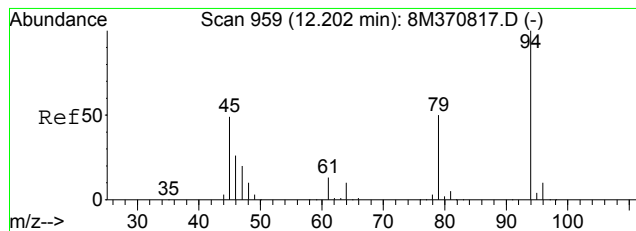
Data File : C:\MSDCHEM\1\DATA\073012\8M381202.D
 Acq On : 30 Jul 2012 17:15
 Sample : L12070658-26 B 826-LOW
 Misc : 1,1
 MS Integration Params: RTEINT.P
 Quant Time: Jul 31 11:39 2012

Vial: 14
 Operator: ADC
 Inst : HPMS8
 Multiplr: 1.00

Quant Results File: 8260WTR.RES

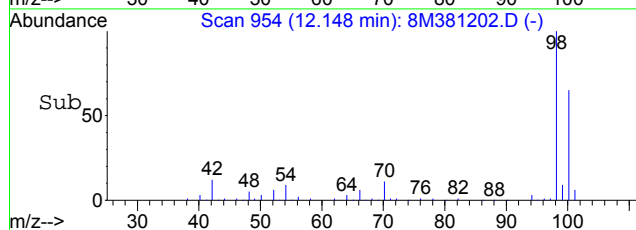
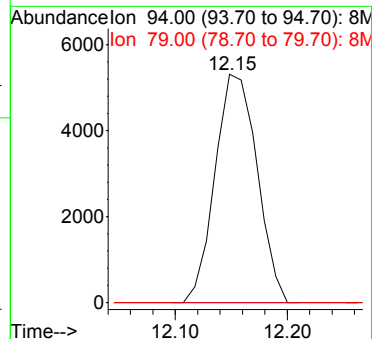
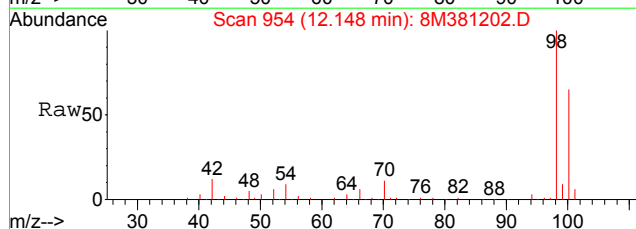
Method : C:\MSDCHEM\1\METHODS\8260WTR.M (RTE Integrator)
 Title : Method 8260B/624 WTR-SOP:OVLMSV01 06/28/12 HPMS 8
 Last Update : Fri Jun 29 09:29:43 2012
 Response via : Initial Calibration





#56
 Dimethyl Disulfide
 Concen: 2.04 ug/L
 RT: 12.15 min Scan# 954
 Delta R.T. 0.06 min
 Lab File: 8M381202.D
 Acq: 30 Jul 2012 17:15

Tgt Ion: 94 Resp: 13889
 Ion Ratio Lower Upper
 94 100
 79 0.0 30.6 71.4#



Data File : C:\MSDCHEM\1\DATA\073012\8M381203.D Vial: 15
 Acq On : 30 Jul 2012 17:45 Operator: ADC
 Sample : L12070658-27 B 826-LOW Inst : HPMS8
 Misc : 1,1 Multiplr: 1.00
 MS Integration Params: RTEINT.P
 Quant Time: Jul 31 11:39:17 2012 Quant Results File: 8260WTR.RES

Quant Method : C:\MSDCHEM\1\METHODS\8260WTR.M (RTE Integrator)
 Title : Method 8260B/624 WTR-SOP:OVLMSV01 06/28/12 HPMS 8
 Last Update : Fri Jun 29 09:29:43 2012
 Response via : Initial Calibration
 DataAcq Meth : 8260WTR

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene	10.18	96	537825	25.00	ug/L	0.00
57) Chlorobenzene-d5	14.03	117	435107	25.00	ug/L	0.00
78) 1,4-Dichlorobenzene-d4	17.04	152	236266	25.00	ug/L	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
37) Dibromofluoromethane	9.13	111	145006	25.0711	ug/L	0.00
Spiked Amount 25.000	Range	86 - 118	Recovery	=	100.28%	
43) 1,2-Dichloroethane-d4	9.76	65	114486	21.2402	ug/L	-0.01
Spiked Amount 25.000	Range	80 - 120	Recovery	=	84.96%	
58) Toluene-d8	12.16	98	511067	25.7073	ug/L	0.00
Spiked Amount 25.000	Range	88 - 110	Recovery	=	102.84%	
80) p-Bromofluorobenzene	15.53	95	199310	25.4117	ug/L	0.00
Spiked Amount 25.000	Range	86 - 115	Recovery	=	101.64%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
12) 1,1,2-Trichloro-1,2,2-Trif	5.67	101	238706	41.0173	ug/L	100
13) Acetone	5.72	43	521	0.5644	ug/L #	48
14) 1,1-Dichloroethene	5.95	61	16129	1.6689	ug/L	92
27) 1,1-Dichloroethane	7.80	63	7308	0.6393	ug/L #	89
32) cis-1,2-Dichloroethene	8.63	96	2956	0.4748	ug/L	89
45) 1,2-Dichloroethane	9.87	62	1843	0.2555	ug/L #	49
47) Trichloroethene	10.69	130	58534	8.0939	ug/L	99
56) Dimethyl Disulfide	12.16	94	14263	2.0764	ug/L #	27
66) Tetrachloroethene	13.08	164	301512	48.8929	ug/L	97

(#) = qualifier out of range (m) = manual integration
 8M381203.D 8260WTR.M Tue Jul 31 11:39:18 2012

Page 1

Data File : C:\MSDCHEM\1\DATA\073012\8M381203.D

Vial: 15

Acq On : 30 Jul 2012 17:45

Operator: ADC

Sample : L12070658-27 B 826-LOW

Inst : HPMS8

Misc : 1,1

Multiplr: 1.00

MS Integration Params: RTEINT.P

Quant Time: Jul 31 11:39 2012

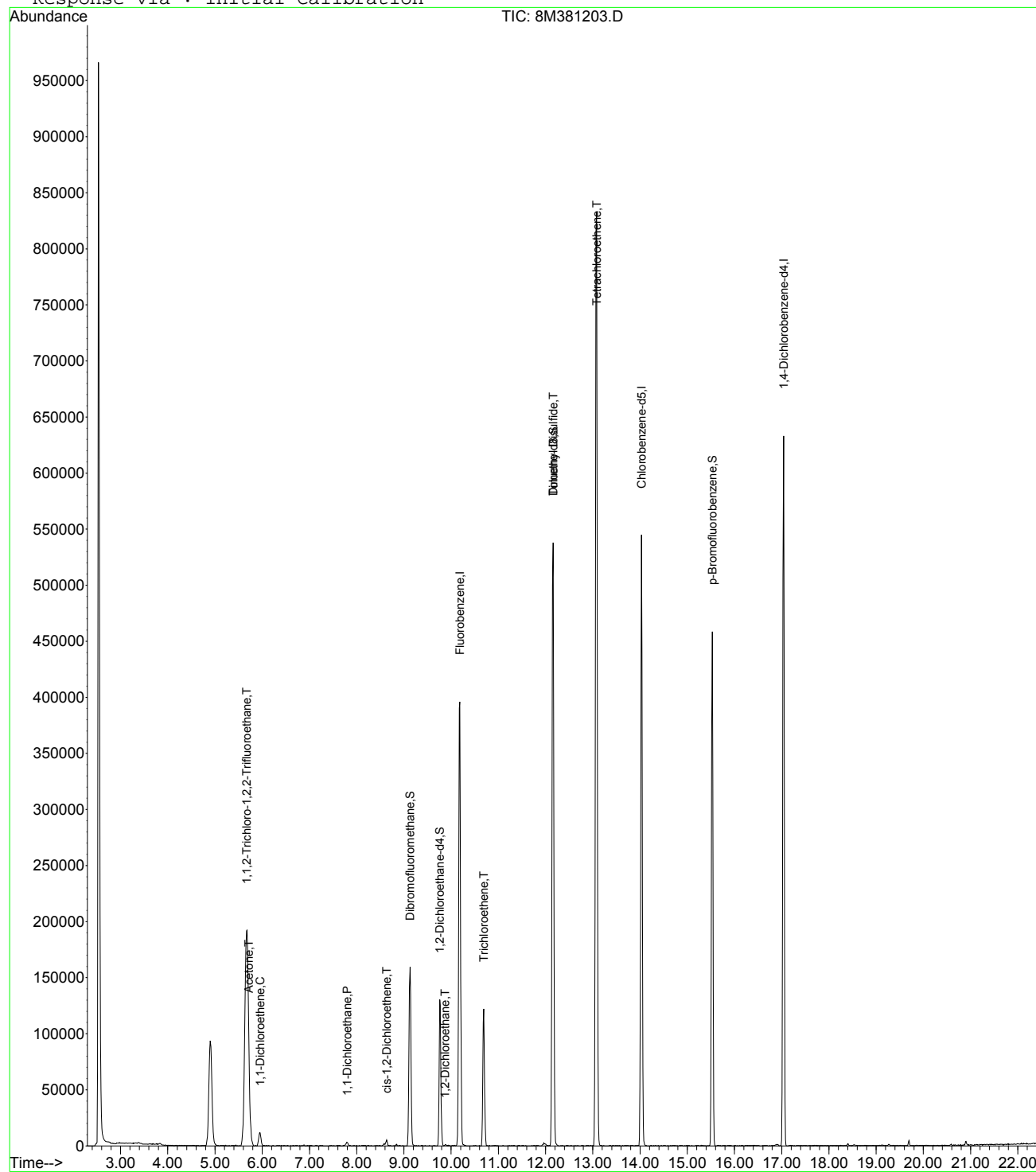
Quant Results File: 8260WTR.RES

Method : C:\MSDCHEM\1\METHODS\8260WTR.M (RTE Integrator)

Title : Method 8260B/624 WTR-SOP:OVLMSV01 06/28/12 HPMS 8

Last Update : Fri Jun 29 09:29:43 2012

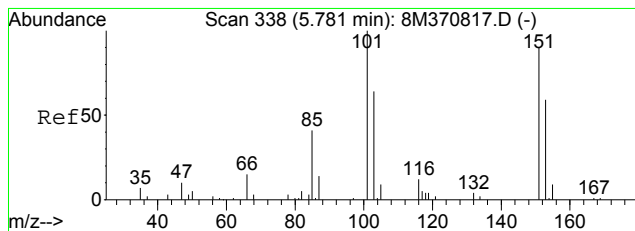
Response via : Initial Calibration



8M381203.D 8260WTR.M

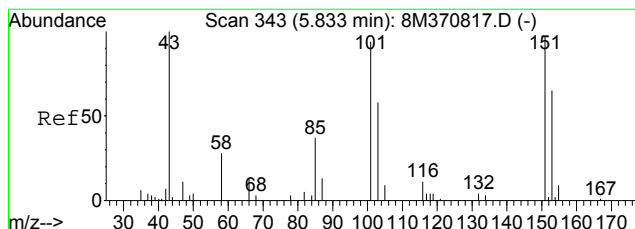
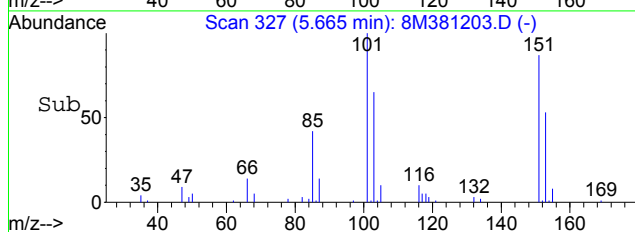
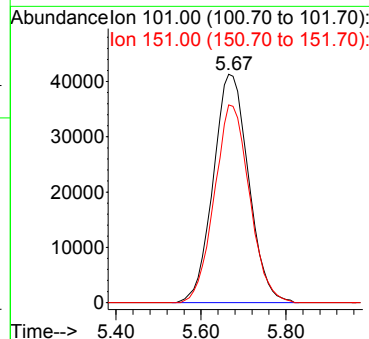
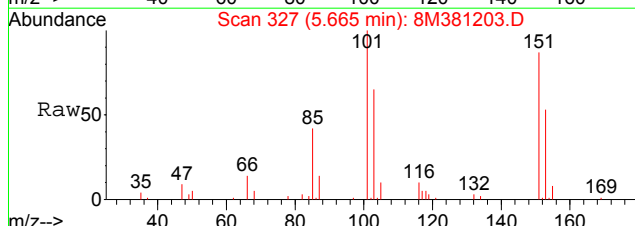
Tue Jul 31 11:39:18 2012

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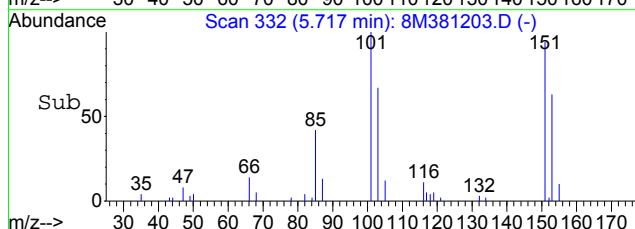
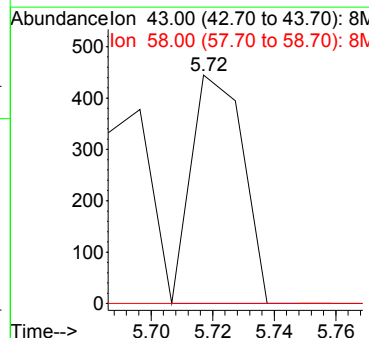
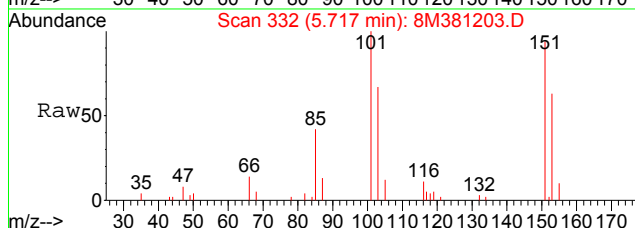
#12
 1,1,2-Trichloro-1,2,2-Trifluoroethane
 Concen: 41.02 ug/L
 RT: 5.67 min Scan# 327
 Delta R.T. -0.00 min
 Lab File: 8M381203.D
 Acq: 30 Jul 2012 17:45

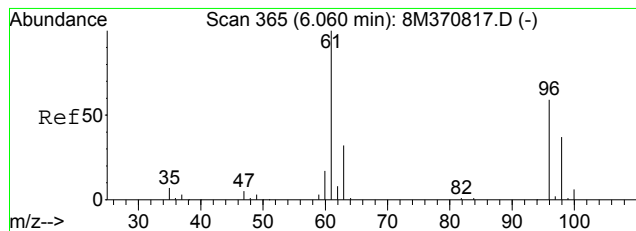
Tgt Ion:101 Resp: 238706
 Ion Ratio Lower Upper
 101 100
 151 86.0 46.3 126.3



#13
 Acetone
 Concen: 0.56 ug/L
 RT: 5.72 min Scan# 332
 Delta R.T. -0.00 min
 Lab File: 8M381203.D
 Acq: 30 Jul 2012 17:45

Tgt Ion: 43 Resp: 521
 Ion Ratio Lower Upper
 43 100
 58 0.0 16.1 37.5#

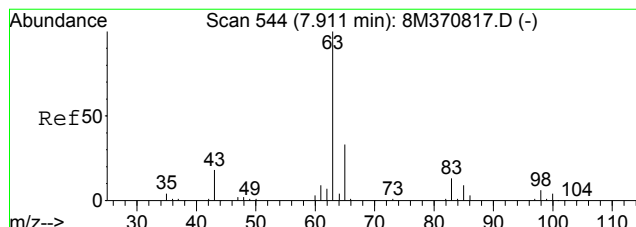
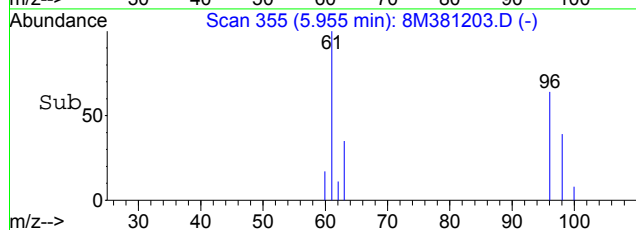
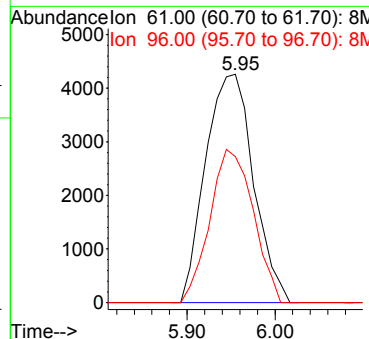
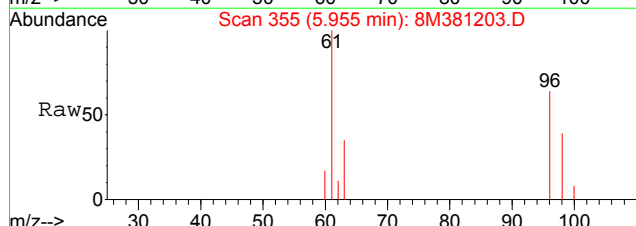




#14
 1,1-Dichloroethene
 Concen: 1.67 ug/L
 RT: 5.95 min Scan# 355
 Delta R.T. 0.01 min
 Lab File: 8M381203.D
 Acq: 30 Jul 2012 17:45

Tgt Ion: 61 Resp: 16129

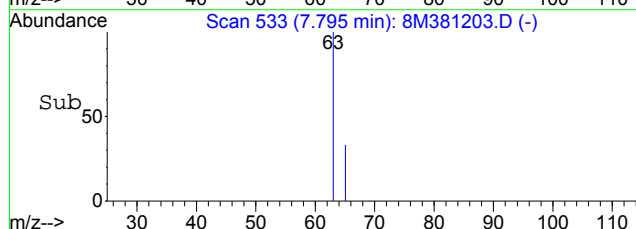
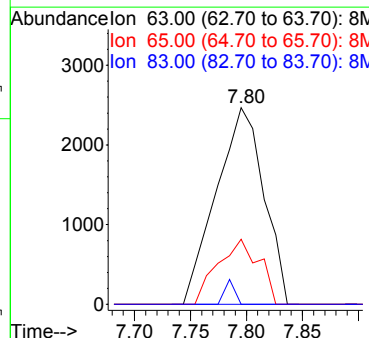
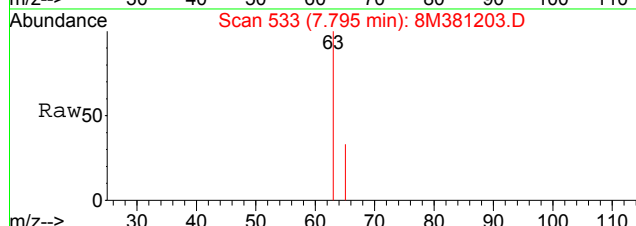
Ion	Ratio	Lower	Upper
61	100		
96	60.5	32.8	76.4

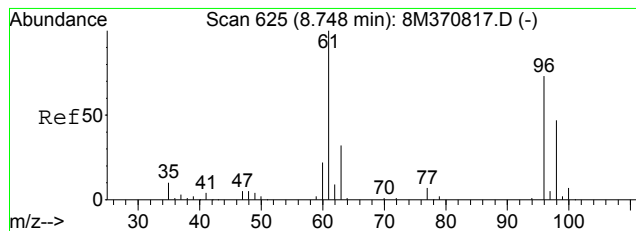


#27
 1,1-Dichloroethane
 Concen: 0.64 ug/L
 RT: 7.80 min Scan# 533
 Delta R.T. -0.00 min
 Lab File: 8M381203.D
 Acq: 30 Jul 2012 17:45

Tgt Ion: 63 Resp: 7308

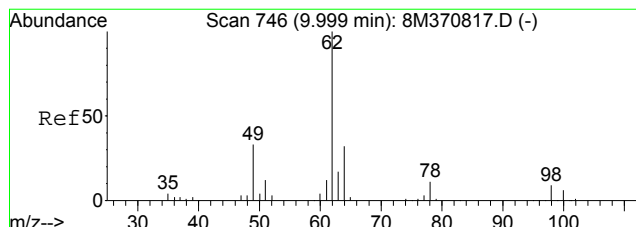
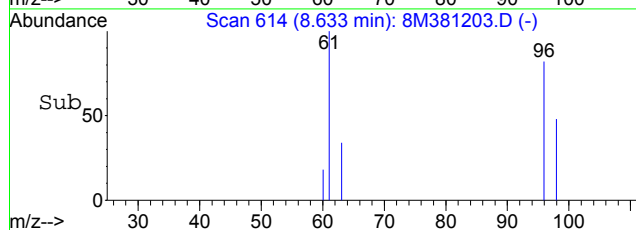
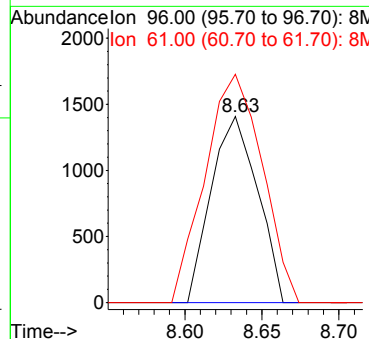
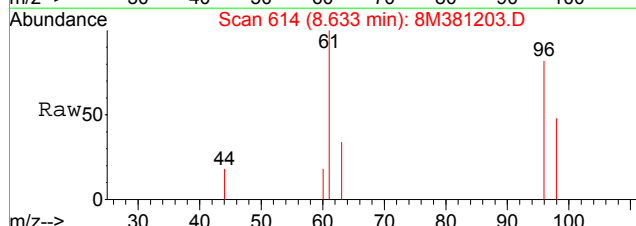
Ion	Ratio	Lower	Upper
63	100		
65	28.8	18.1	42.3
83	0.0	7.4	17.2#





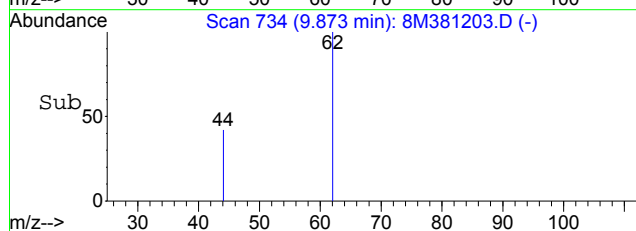
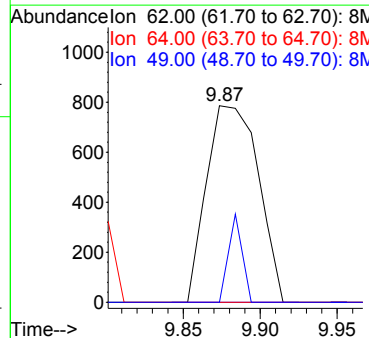
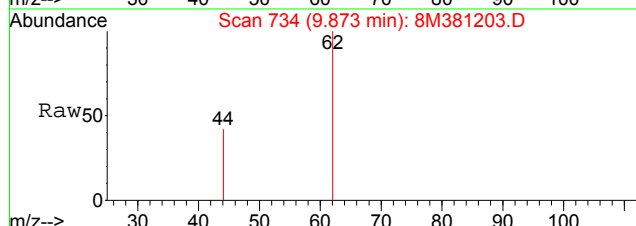
#32
 cis-1,2-Dichloroethene
 Concen: 0.47 ug/L
 RT: 8.63 min Scan# 614
 Delta R.T. -0.00 min
 Lab File: 8M381203.D
 Acq: 30 Jul 2012 17:45

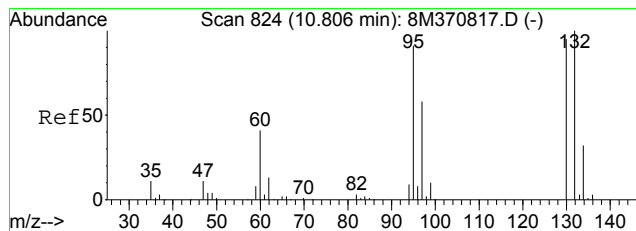
Tgt Ion: 96 Resp: 2956
 Ion Ratio Lower Upper
 96 100
 61 151.4 99.7 232.5



#45
 1,2-Dichloroethane
 Concen: 0.26 ug/L
 RT: 9.87 min Scan# 734
 Delta R.T. -0.01 min
 Lab File: 8M381203.D
 Acq: 30 Jul 2012 17:45

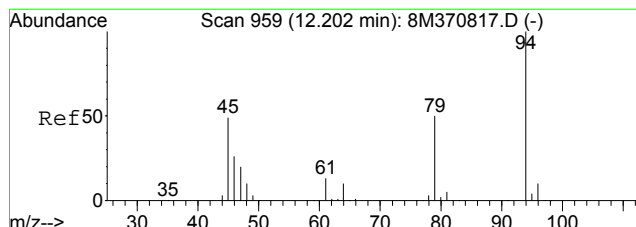
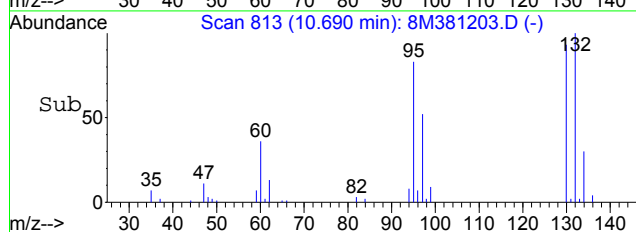
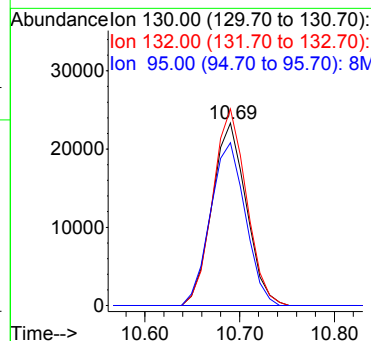
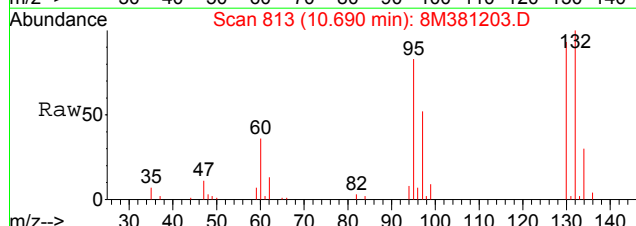
Tgt Ion: 62 Resp: 1843
 Ion Ratio Lower Upper
 62 100
 64 0.0 19.6 45.8#
 49 11.8 23.7 55.3#





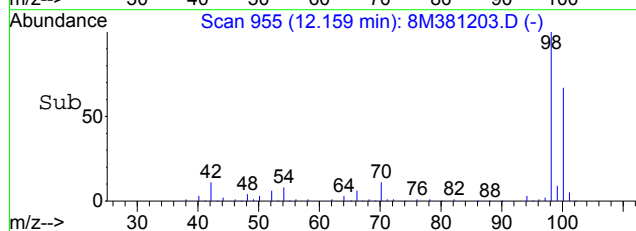
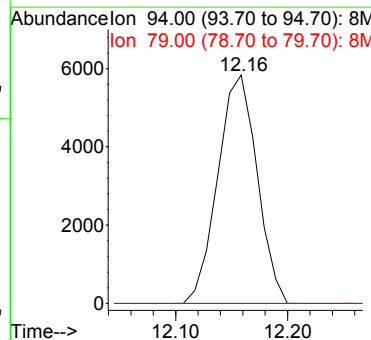
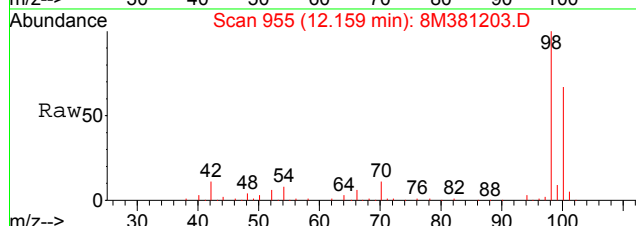
#47
 Trichloroethene
 Concen: 8.09 ug/L
 RT: 10.69 min Scan# 813
 Delta R.T. -0.00 min
 Lab File: 8M381203.D
 Acq: 30 Jul 2012 17:45

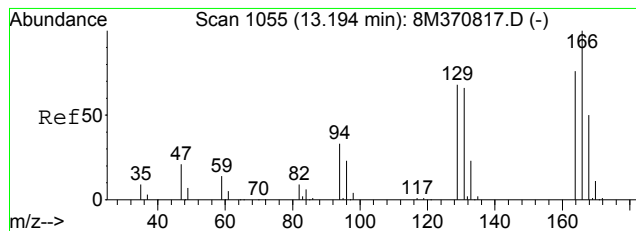
Tgt Ion	Resp	Lower	Upper
130	100		
132	105.9	63.0	147.0
95	90.7	55.1	128.5



#56
 Dimethyl Disulfide
 Concen: 2.08 ug/L
 RT: 12.16 min Scan# 955
 Delta R.T. 0.07 min
 Lab File: 8M381203.D
 Acq: 30 Jul 2012 17:45

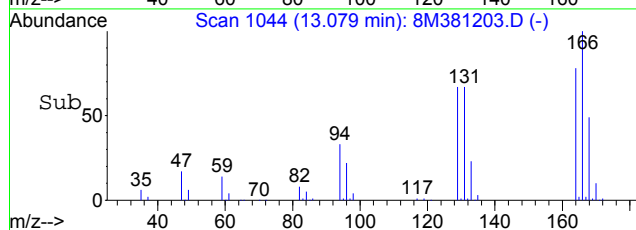
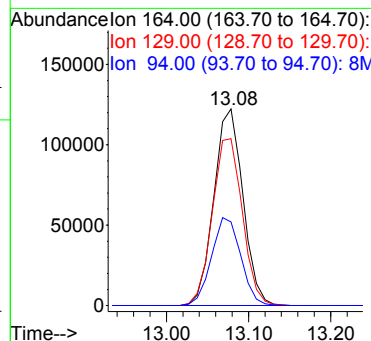
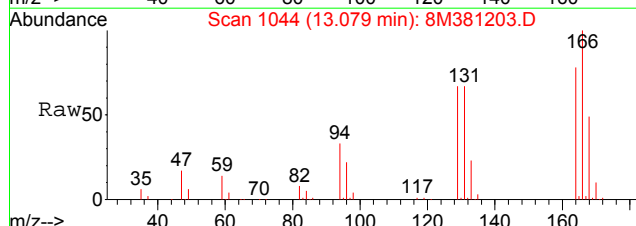
Tgt Ion	Resp	Lower	Upper
94	100		
79	0.0	30.6	71.4#





#66
 Tetrachloroethene
 Concen: 48.89 ug/L
 RT: 13.08 min Scan# 1044
 Delta R.T. -0.00 min
 Lab File: 8M381203.D
 Acq: 30 Jul 2012 17:45

Tgt Ion	Ratio	Lower	Upper
164	100		
129	87.7	51.8	121.0
94	45.1	29.9	69.9



Data File : C:\MSDCHEM\1\DATA\073012\8M381204.D Vial: 16
 Acq On : 30 Jul 2012 18:15 Operator: ADC
 Sample : L12070658-28 B 826-LOW Inst : HPMS8
 Misc : 1,1 Multiplr: 1.00
 MS Integration Params: RTEINT.P
 Quant Time: Jul 31 11:39:21 2012 Quant Results File: 8260WTR.RES

Quant Method : C:\MSDCHEM\1\METHODS\8260WTR.M (RTE Integrator)
 Title : Method 8260B/624 WTR-SOP:OVLMSV01 06/28/12 HPMS 8
 Last Update : Fri Jun 29 09:29:43 2012
 Response via : Initial Calibration
 DataAcq Meth : 8260WTR

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene	10.18	96	536375	25.00	ug/L	0.00
57) Chlorobenzene-d5	14.03	117	432392	25.00	ug/L	0.00
78) 1,4-Dichlorobenzene-d4	17.04	152	236792	25.00	ug/L	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
37) Dibromofluoromethane	9.13	111	143740	24.9194	ug/L	0.00
Spiked Amount 25.000	Range	86 - 118	Recovery	=	99.68%	
43) 1,2-Dichloroethane-d4	9.77	65	114545	21.3086	ug/L	0.00
Spiked Amount 25.000	Range	80 - 120	Recovery	=	85.24%	
58) Toluene-d8	12.16	98	504356	25.5290	ug/L	0.00
Spiked Amount 25.000	Range	88 - 110	Recovery	=	102.12%	
80) p-Bromofluorobenzene	15.53	95	198710	25.2789	ug/L	0.00
Spiked Amount 25.000	Range	86 - 115	Recovery	=	101.12%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
13) Acetone	5.71	43	1753	1.9041	ug/L	82
56) Dimethyl Disulfide	12.16	94	14104	2.0650	ug/L #	27

 (#) = qualifier out of range (m) = manual integration
 8M381204.D 8260WTR.M Tue Jul 31 11:39:22 2012

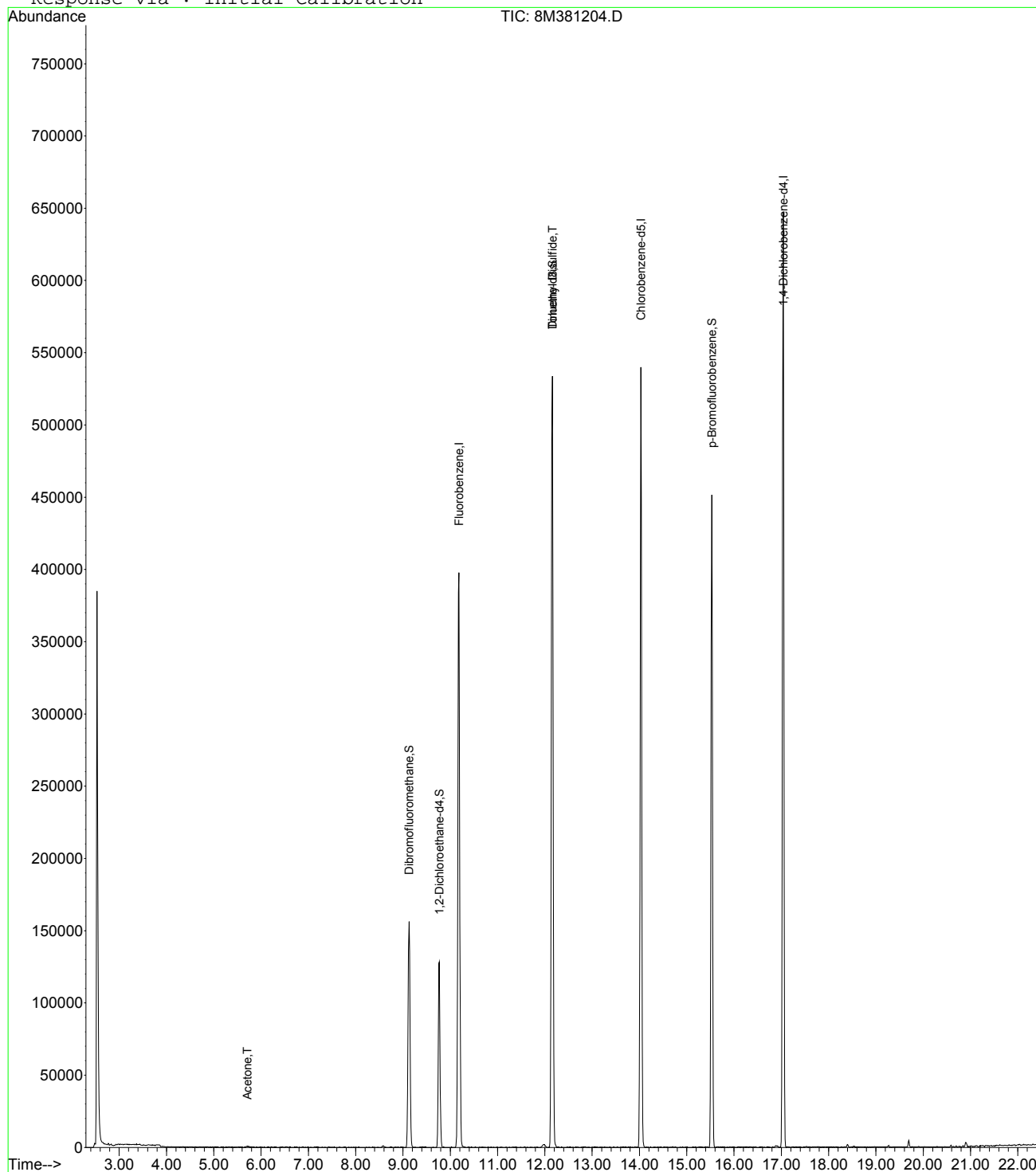
Page 1

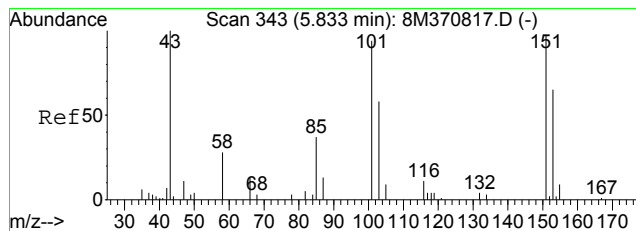
Data File : C:\MSDCHEM\1\DATA\073012\8M381204.D
 Acq On : 30 Jul 2012 18:15
 Sample : L12070658-28 B 826-LOW
 Misc : 1,1
 MS Integration Params: RTEINT.P
 Quant Time: Jul 31 11:39 2012

Vial: 16
 Operator: ADC
 Inst : HPMS8
 Multiplr: 1.00

Quant Results File: 8260WTR.RES

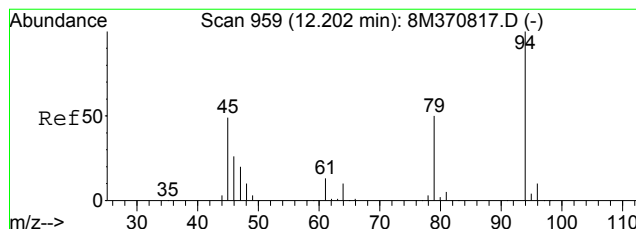
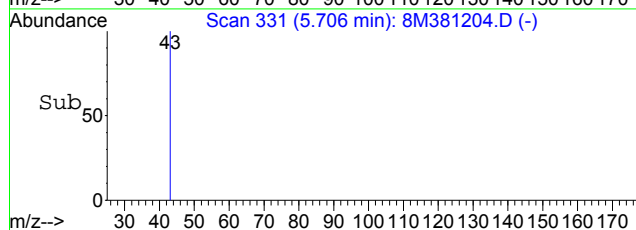
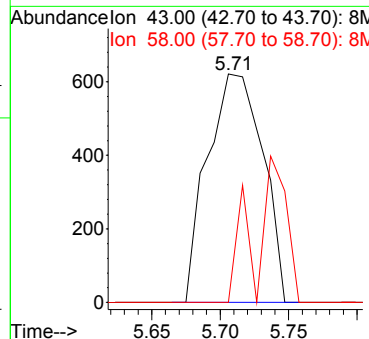
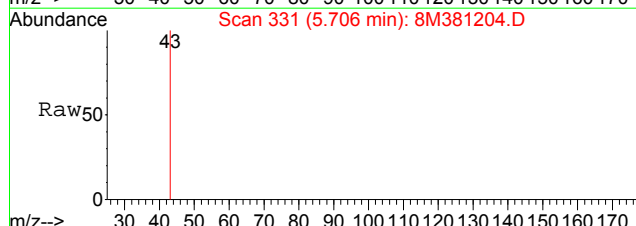
Method : C:\MSDCHEM\1\METHODS\8260WTR.M (RTE Integrator)
 Title : Method 8260B/624 WTR-SOP:OVLMSV01 06/28/12 HPMS 8
 Last Update : Fri Jun 29 09:29:43 2012
 Response via : Initial Calibration





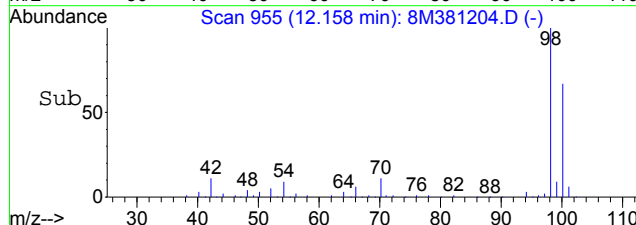
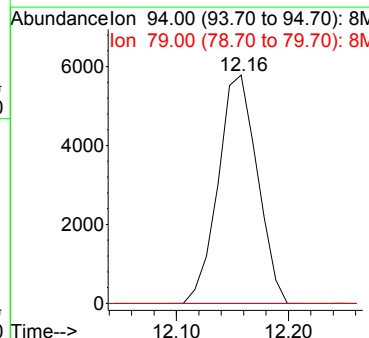
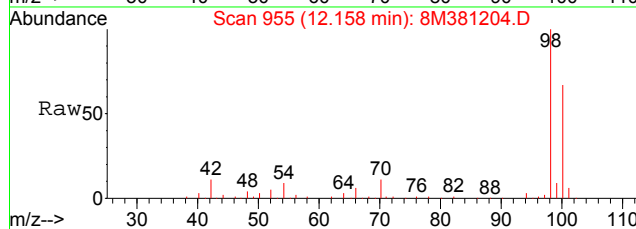
#13
 Acetone
 Concen: 1.90 ug/L
 RT: 5.71 min Scan# 331
 Delta R.T. -0.01 min
 Lab File: 8M381204.D
 Acq: 30 Jul 2012 18:15

Tgt Ion: 43 Resp: 1753
 Ion Ratio Lower Upper
 43 100
 58 36.1 16.1 37.5



#56
 Dimethyl Disulfide
 Concen: 2.06 ug/L
 RT: 12.16 min Scan# 955
 Delta R.T. 0.07 min
 Lab File: 8M381204.D
 Acq: 30 Jul 2012 18:15

Tgt Ion: 94 Resp: 14104
 Ion Ratio Lower Upper
 94 100
 79 0.0 30.6 71.4#



Data File : C:\MSDCHEM\1\DATA\073012\8M381205.D Vial: 17
 Acq On : 30 Jul 2012 18:45 Operator: ADC
 Sample : L12070658-29 B 826-LOW Inst : HPMS8
 Misc : 1,1 Multiplr: 1.00
 MS Integration Params: RTEINT.P
 Quant Time: Jul 31 11:39:23 2012 Quant Results File: 8260WTR.RES

Quant Method : C:\MSDCHEM\1\METHODS\8260WTR.M (RTE Integrator)
 Title : Method 8260B/624 WTR-SOP:OVLMSV01 06/28/12 HPMS 8
 Last Update : Fri Jun 29 09:29:43 2012
 Response via : Initial Calibration
 DataAcq Meth : 8260WTR

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene	10.18	96	538566	25.00	ug/L	0.00
57) Chlorobenzene-d5	14.03	117	438047	25.00	ug/L	0.00
78) 1,4-Dichlorobenzene-d4	17.04	152	235961	25.00	ug/L	0.00
System Monitoring Compounds						
37) Dibromofluoromethane	9.13	111	143898	24.8453	ug/L	0.00
Spiked Amount 25.000	Range 86 - 118		Recovery =	99.40%		
43) 1,2-Dichloroethane-d4	9.76	65	115377	21.3760	ug/L	-0.01
Spiked Amount 25.000	Range 80 - 120		Recovery =	85.52%		
58) Toluene-d8	12.16	98	511537	25.5582	ug/L	0.00
Spiked Amount 25.000	Range 88 - 110		Recovery =	102.24%		
80) p-Bromofluorobenzene	15.53	95	201414	25.7131	ug/L	0.00
Spiked Amount 25.000	Range 86 - 115		Recovery =	102.84%		
Target Compounds						
13) Acetone	5.71	43	2722	2.9447	ug/L #	52
16) Dimethyl Sulfide	6.20	62	1558	0.2200	ug/L	82
56) Dimethyl Disulfide	12.16	94	13524	2.0048	ug/L #	27

 (#) = qualifier out of range (m) = manual integration
 8M381205.D 8260WTR.M Tue Jul 31 11:39:24 2012

Page 1

Data File : C:\MSDCHEM\1\DATA\073012\8M381205.D

Vial: 17

Acq On : 30 Jul 2012 18:45

Operator: ADC

Sample : L12070658-29 B 826-LOW

Inst : HPMS8

Misc : 1,1

Multiplr: 1.00

MS Integration Params: RTEINT.P

Quant Time: Jul 31 11:39 2012

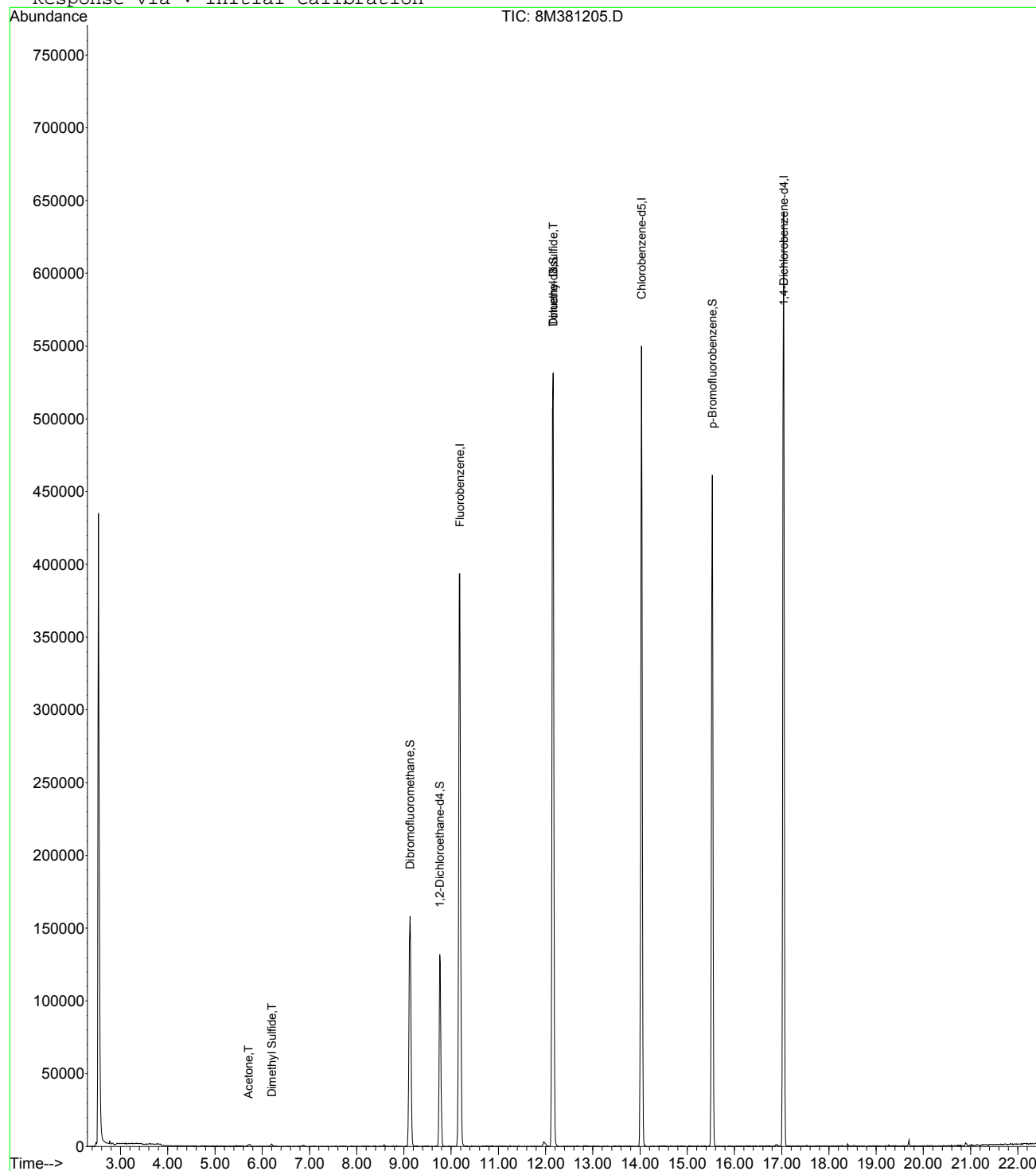
Quant Results File: 8260WTR.RES

Method : C:\MSDCHEM\1\METHODS\8260WTR.M (RTE Integrator)

Title : Method 8260B/624 WTR-SOP:OVLMSV01 06/28/12 HPMS 8

Last Update : Fri Jun 29 09:29:43 2012

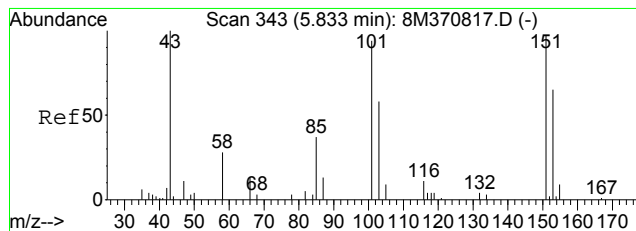
Response via : Initial Calibration



8M381205.D 8260WTR.M

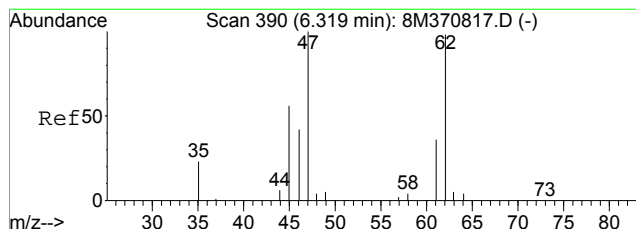
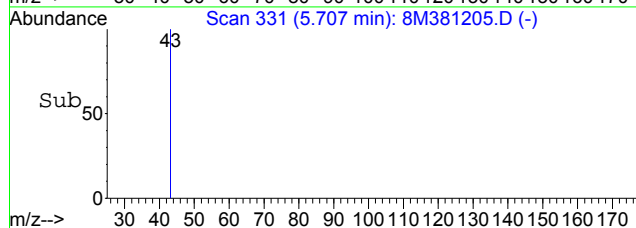
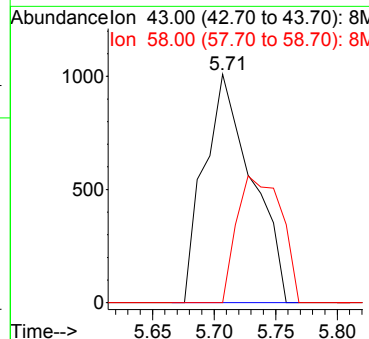
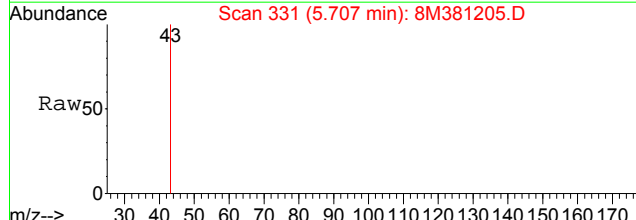
Tue Jul 31 11:39:24 2012

Page 2



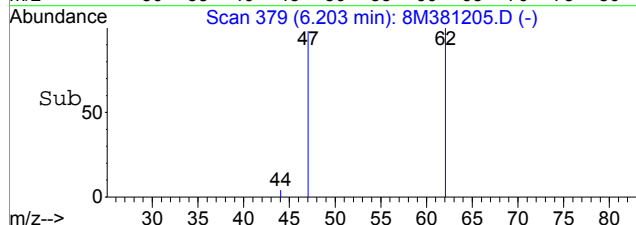
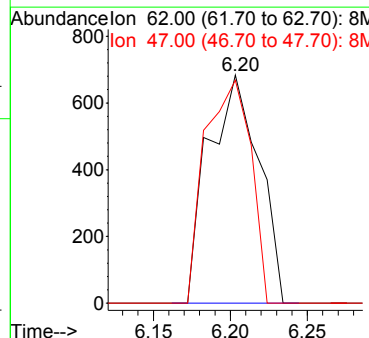
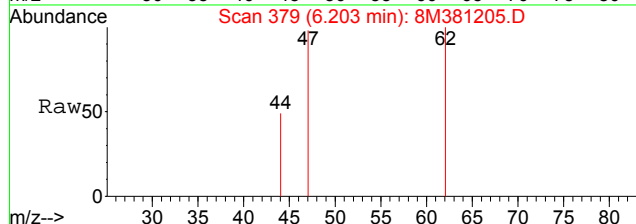
#13
 Acetone
 Concen: 2.94 ug/L
 RT: 5.71 min Scan# 331
 Delta R.T. -0.01 min
 Lab File: 8M381205.D
 Acq: 30 Jul 2012 18:45

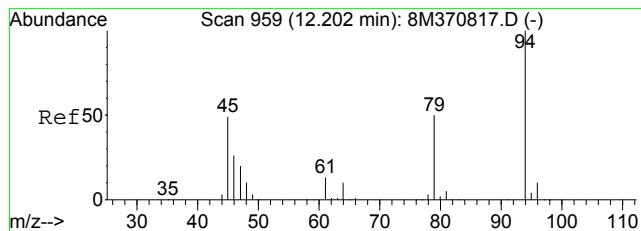
Tgt Ion: 43 Resp: 2722
 Ion Ratio Lower Upper
 43 100
 58 51.7 16.1 37.5#



#16
 Dimethyl Sulfide
 Concen: 0.22 ug/L
 RT: 6.20 min Scan# 379
 Delta R.T. -0.00 min
 Lab File: 8M381205.D
 Acq: 30 Jul 2012 18:45

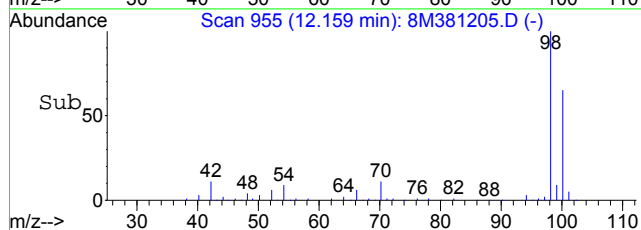
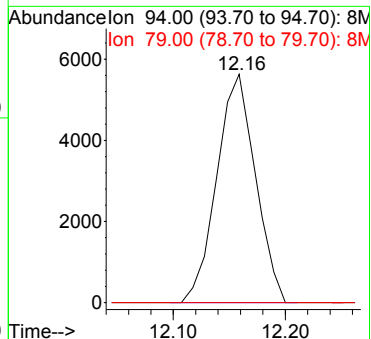
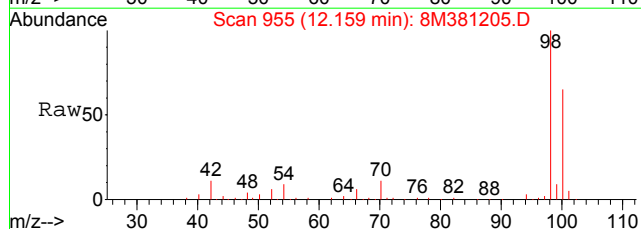
Tgt Ion: 62 Resp: 1558
 Ion Ratio Lower Upper
 62 100
 47 89.0 64.6 150.6





#56
 Dimethyl Disulfide
 Concen: 2.00 ug/L
 RT: 12.16 min Scan# 955
 Delta R.T. 0.07 min
 Lab File: 8M381205.D
 Acq: 30 Jul 2012 18:45

Tgt Ion: 94 Resp: 13524
 Ion Ratio Lower Upper
 94 100
 79 0.0 30.6 71.4#



Data File : C:\MSDCHEM\1\DATA\073012\8M381206.D Vial: 18
 Acq On : 30 Jul 2012 19:15 Operator: ADC
 Sample : L12070658-30 B 826-LOW Inst : HPMS8
 Misc : 1,1 Multiplr: 1.00
 MS Integration Params: RTEINT.P
 Quant Time: Jul 31 11:39:26 2012 Quant Results File: 8260WTR.RES

Quant Method : C:\MSDCHEM\1\METHODS\8260WTR.M (RTE Integrator)
 Title : Method 8260B/624 WTR-SOP:OVLMSV01 06/28/12 HPMS 8
 Last Update : Fri Jun 29 09:29:43 2012
 Response via : Initial Calibration
 DataAcq Meth : 8260WTR

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene	10.18	96	532602	25.00	ug/L	0.00
57) Chlorobenzene-d5	14.03	117	432876	25.00	ug/L	0.00
78) 1,4-Dichlorobenzene-d4	17.04	152	237859	25.00	ug/L	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
37) Dibromofluoromethane	9.13	111	143871	25.1188	ug/L	0.00
Spiked Amount 25.000	Range	86 - 118	Recovery	=	100.48%	
43) 1,2-Dichloroethane-d4	9.76	65	116903	21.9013	ug/L	-0.01
Spiked Amount 25.000	Range	80 - 120	Recovery	=	87.60%	
58) Toluene-d8	12.16	98	505277	25.5470	ug/L	0.00
Spiked Amount 25.000	Range	88 - 110	Recovery	=	102.20%	
80) p-Bromofluorobenzene	15.53	95	202343	25.6256	ug/L	0.00
Spiked Amount 25.000	Range	86 - 115	Recovery	=	102.52%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
56) Dimethyl Disulfide	12.16	94	14219	2.0855	ug/L	# 27

 (#) = qualifier out of range (m) = manual integration
 8M381206.D 8260WTR.M Tue Jul 31 11:39:26 2012

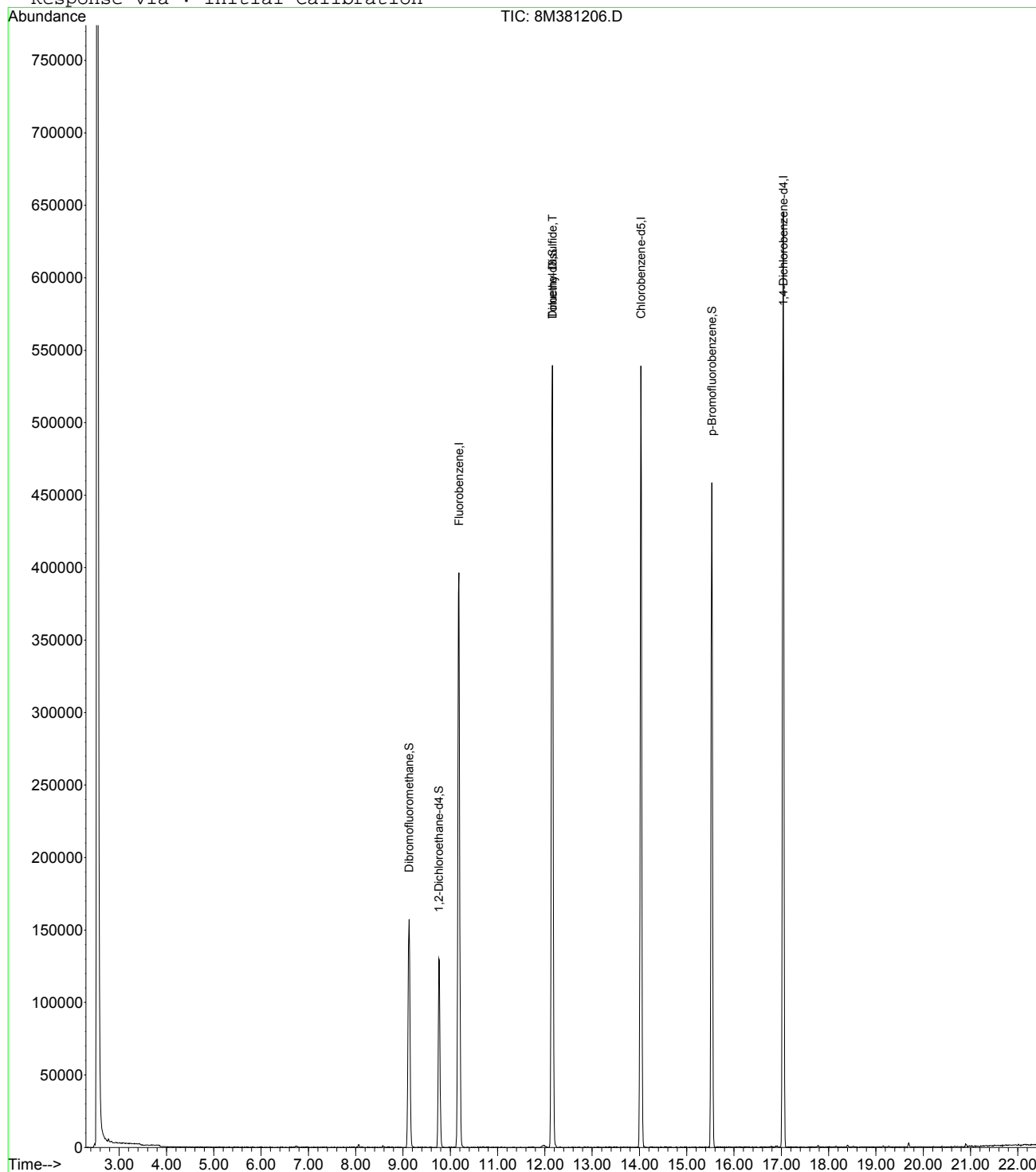
Page 1

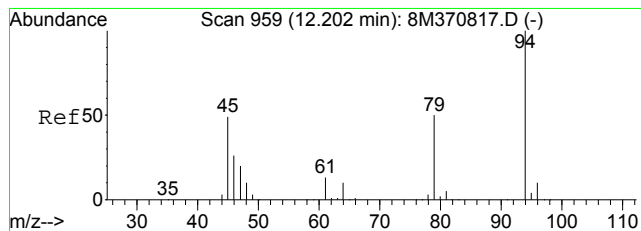
Data File : C:\MSDCHEM\1\DATA\073012\8M381206.D
 Acq On : 30 Jul 2012 19:15
 Sample : L12070658-30 B 826-LOW
 Misc : 1,1
 MS Integration Params: RTEINT.P
 Quant Time: Jul 31 11:39 2012

Vial: 18
 Operator: ADC
 Inst : HPMS8
 Multiplr: 1.00

Quant Results File: 8260WTR.RES

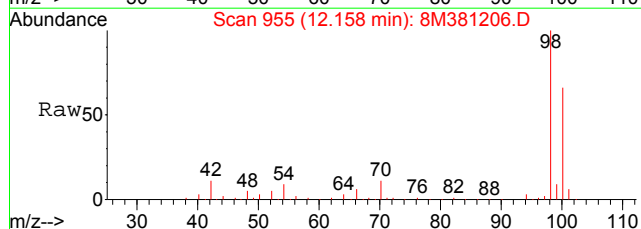
Method : C:\MSDCHEM\1\METHODS\8260WTR.M (RTE Integrator)
 Title : Method 8260B/624 WTR-SOP:OVLMSV01 06/28/12 HPMS 8
 Last Update : Fri Jun 29 09:29:43 2012
 Response via : Initial Calibration



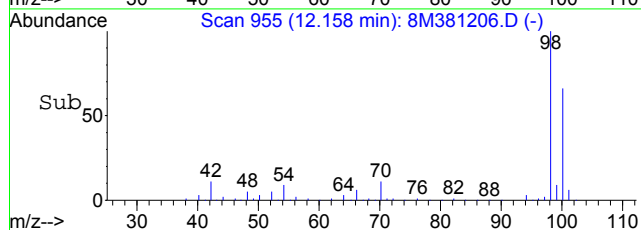
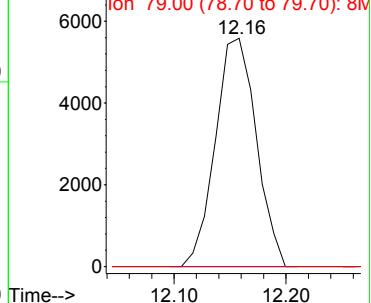


#56
 Dimethyl Disulfide
 Concen: 2.09 ug/L
 RT: 12.16 min Scan# 955
 Delta R.T. 0.07 min
 Lab File: 8M381206.D
 Acq: 30 Jul 2012 19:15

Tgt Ion: 94 Resp: 14219
 Ion Ratio Lower Upper
 94 100
 79 0.0 30.6 71.4#



Abundance Ion 94.00 (93.70 to 94.70): 8M
 Ion 79.00 (78.70 to 79.70): 8M



Data File : C:\MSDCHEM\1\DATA\073012\8M381197.D Vial: 9
 Acq On : 30 Jul 2012 14:45 Operator: ADC
 Sample : L12070658-31 B 826-LOW Inst : HPMS8
 Misc : 1,1 Multiplr: 1.00
 MS Integration Params: RTEINT.P
 Quant Time: Jul 31 11:39:04 2012 Quant Results File: 8260WTR.RES

Quant Method : C:\MSDCHEM\1\METHODS\8260WTR.M (RTE Integrator)
 Title : Method 8260B/624 WTR-SOP:OVLMSV01 06/28/12 HPMS 8
 Last Update : Fri Jun 29 09:29:43 2012
 Response via : Initial Calibration
 DataAcq Meth : 8260WTR

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene	10.18	96	554945	25.00	ug/L	0.00
57) Chlorobenzene-d5	14.03	117	448381	25.00	ug/L	0.00
78) 1,4-Dichlorobenzene-d4	17.04	152	244028	25.00	ug/L	0.00
System Monitoring Compounds						
37) Dibromofluoromethane	9.13	111	145689	24.4121	ug/L	0.00
Spiked Amount 25.000	Range	86 - 118	Recovery	=	97.64%	
43) 1,2-Dichloroethane-d4	9.76	65	113332	20.3774	ug/L	-0.01
Spiked Amount 25.000	Range	80 - 120	Recovery	=	81.52%	
58) Toluene-d8	12.16	98	524585	25.6061	ug/L	0.00
Spiked Amount 25.000	Range	88 - 110	Recovery	=	102.44%	
80) p-Bromofluorobenzene	15.53	95	203472	25.1172	ug/L	0.00
Spiked Amount 25.000	Range	86 - 115	Recovery	=	100.48%	
Target Compounds						
56) Dimethyl Disulfide	12.16	94	14098	2.0197	ug/L	Qvalue # 27

 (#) = qualifier out of range (m) = manual integration
 8M381197.D 8260WTR.M Tue Jul 31 11:39:04 2012

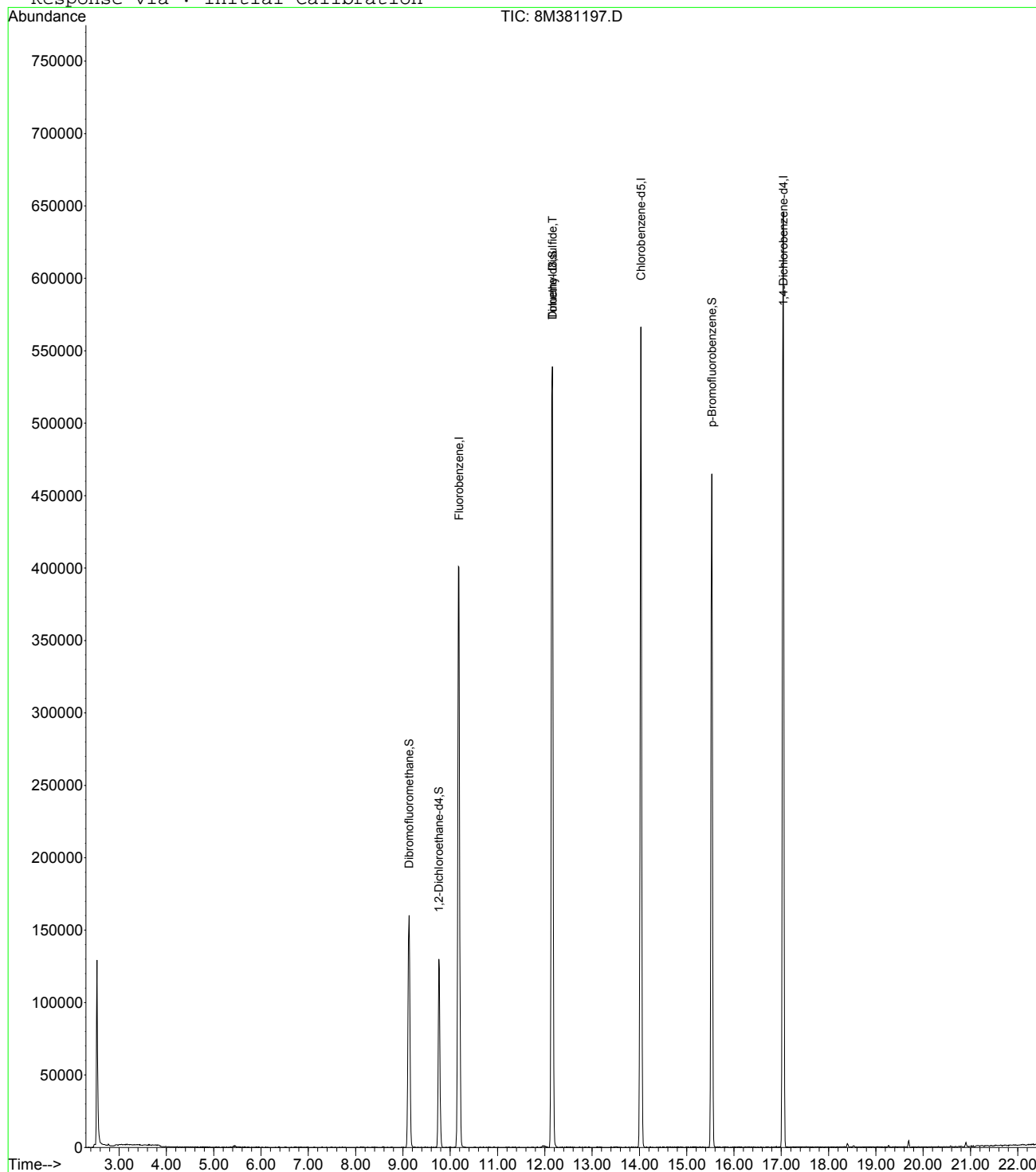
Page 1

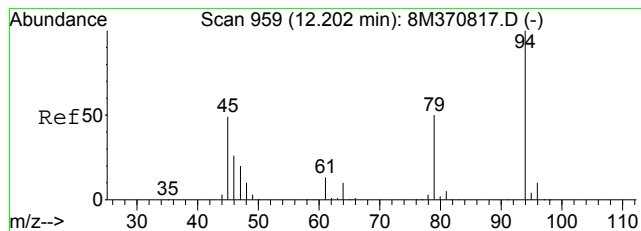
Data File : C:\MSDCHEM\1\DATA\073012\8M381197.D
 Acq On : 30 Jul 2012 14:45
 Sample : L12070658-31 B 826-LOW
 Misc : 1,1
 MS Integration Params: RTEINT.P
 Quant Time: Jul 31 11:39 2012

Vial: 9
 Operator: ADC
 Inst : HPMS8
 Multiplr: 1.00

Quant Results File: 8260WTR.RES

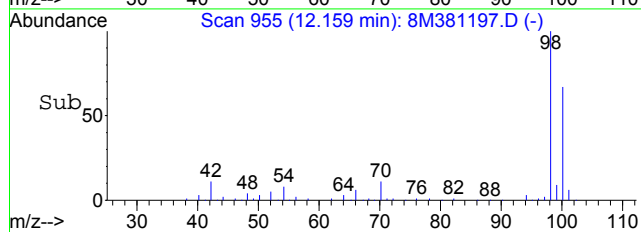
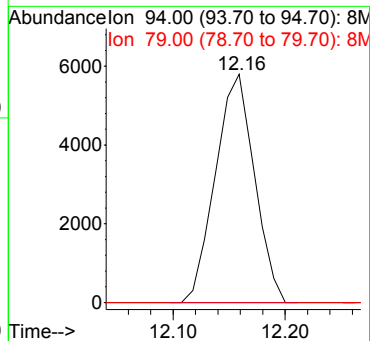
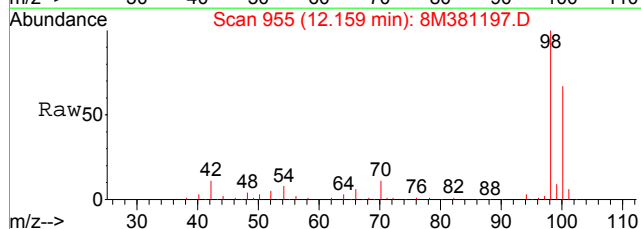
Method : C:\MSDCHEM\1\METHODS\8260WTR.M (RTE Integrator)
 Title : Method 8260B/624 WTR-SOP:OVLMSV01 06/28/12 HPMS 8
 Last Update : Fri Jun 29 09:29:43 2012
 Response via : Initial Calibration





#56
 Dimethyl Disulfide
 Concen: 2.02 ug/L
 RT: 12.16 min Scan# 955
 Delta R.T. 0.07 min
 Lab File: 8M381197.D
 Acq: 30 Jul 2012 14:45

Tgt Ion: 94 Resp: 14098
 Ion Ratio Lower Upper
 94 100
 79 0.0 30.6 71.4#



Data File : C:\MSDCHEM\1\DATA\073012\8M381207.D Vial: 19
 Acq On : 30 Jul 2012 19:44 Operator: ADC
 Sample : L12070658-32 B 826-LOW Inst : HPMS8
 Misc : 1,1 Multiplr: 1.00
 MS Integration Params: RTEINT.P
 Quant Time: Jul 31 11:39:28 2012 Quant Results File: 8260WTR.RES

Quant Method : C:\MSDCHEM\1\METHODS\8260WTR.M (RTE Integrator)
 Title : Method 8260B/624 WTR-SOP:OVLMSV01 06/28/12 HPMS 8
 Last Update : Fri Jun 29 09:29:43 2012
 Response via : Initial Calibration
 DataAcq Meth : 8260WTR

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene	10.18	96	526410	25.00	ug/L	0.00
57) Chlorobenzene-d5	14.03	117	431075	25.00	ug/L	0.00
78) 1,4-Dichlorobenzene-d4	17.04	152	234178	25.00	ug/L	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
37) Dibromofluoromethane	9.13	111	144083	25.4517	ug/L	0.00
Spiked Amount 25.000	Range	86 - 118	Recovery	=	101.80%	
43) 1,2-Dichloroethane-d4	9.76	65	114710	21.7432	ug/L	-0.01
Spiked Amount 25.000	Range	80 - 120	Recovery	=	86.96%	
58) Toluene-d8	12.16	98	504602	25.6195	ug/L	0.00
Spiked Amount 25.000	Range	88 - 110	Recovery	=	102.48%	
80) p-Bromofluorobenzene	15.53	95	197581	25.4158	ug/L	0.00
Spiked Amount 25.000	Range	86 - 115	Recovery	=	101.68%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
13) Acetone	5.71	43	2160	2.3906	ug/L #	48
56) Dimethyl Disulfide	12.16	94	13283	2.0110	ug/L #	27
59) Toluene	12.25	91	17967	0.7162	ug/L	99
73) m-,p-Xylene	14.22	106	3247	0.2671	ug/L	89

 (#) = qualifier out of range (m) = manual integration
 8M381207.D 8260WTR.M Tue Jul 31 11:39:28 2012

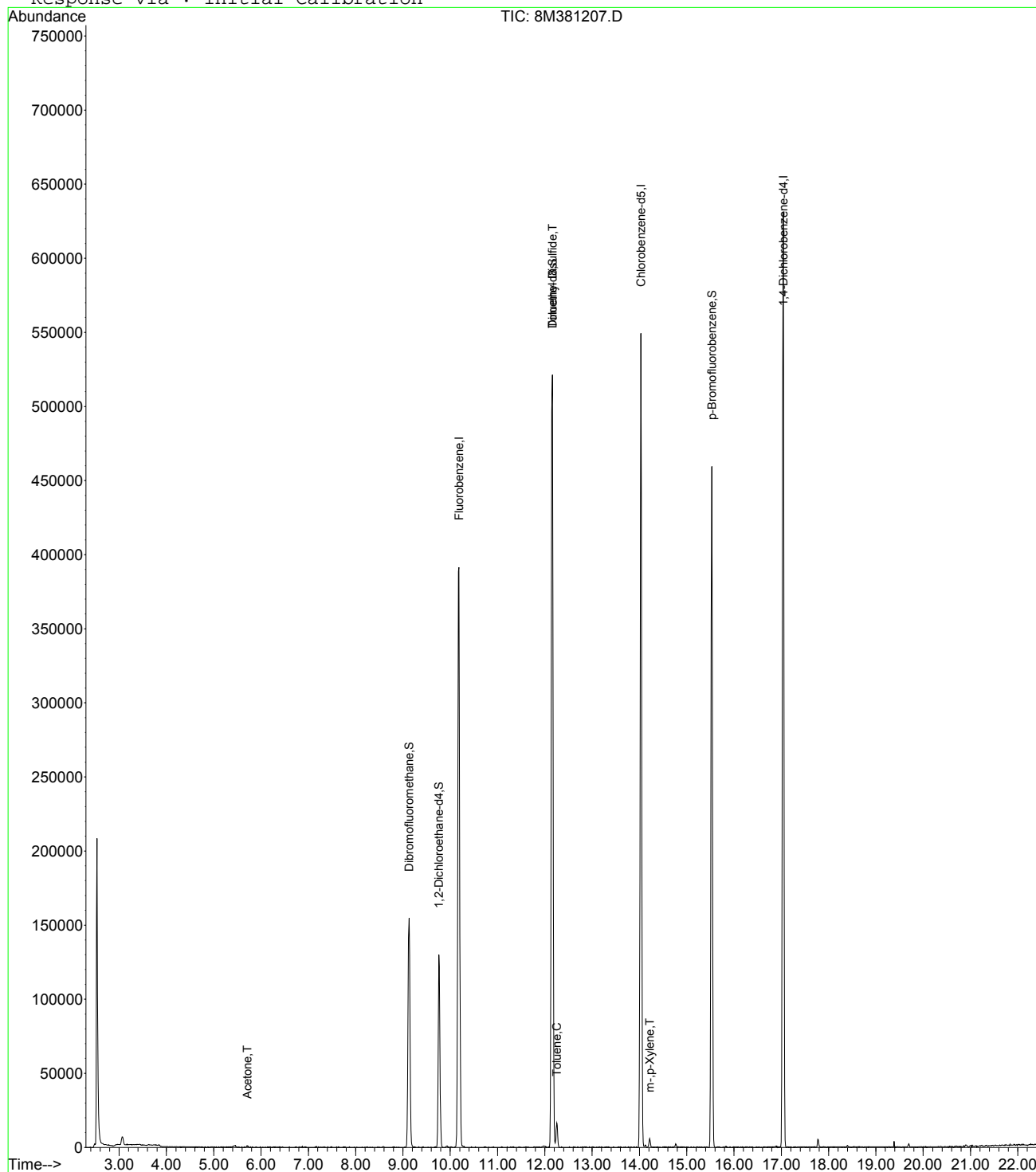
Page 1

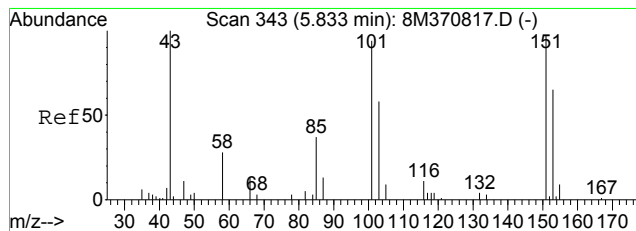
Data File : C:\MSDCHEM\1\DATA\073012\8M381207.D
 Acq On : 30 Jul 2012 19:44
 Sample : L12070658-32 B 826-LOW
 Misc : 1,1
 MS Integration Params: RTEINT.P
 Quant Time: Jul 31 11:39 2012

Vial: 19
 Operator: ADC
 Inst : HPMS8
 Multiplr: 1.00

Quant Results File: 8260WTR.RES

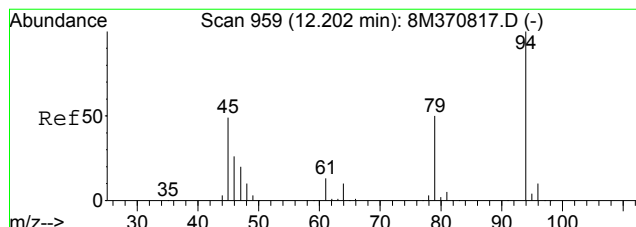
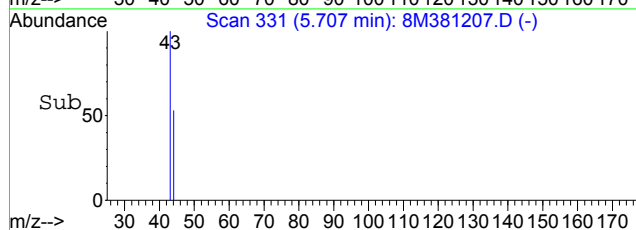
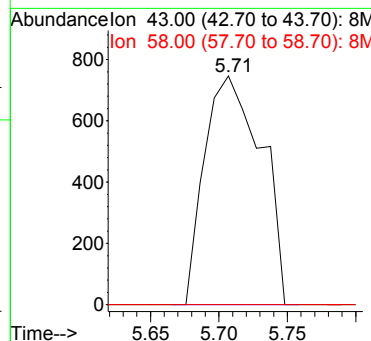
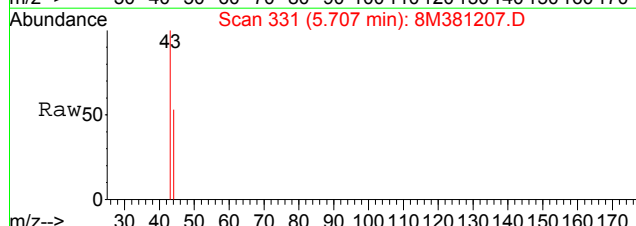
Method : C:\MSDCHEM\1\METHODS\8260WTR.M (RTE Integrator)
 Title : Method 8260B/624 WTR-SOP:OVLMSV01 06/28/12 HPMS 8
 Last Update : Fri Jun 29 09:29:43 2012
 Response via : Initial Calibration





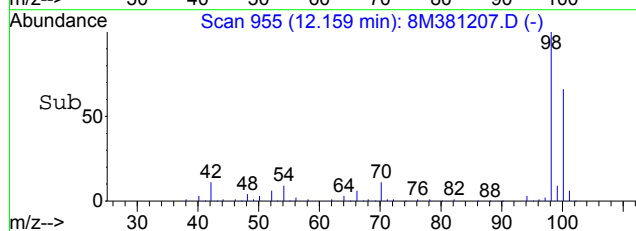
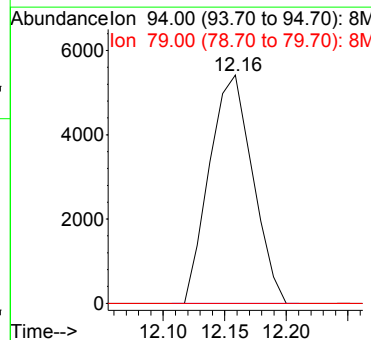
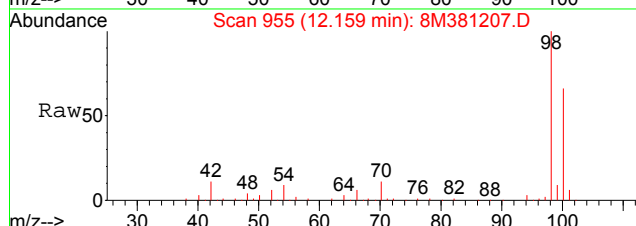
#13
 Acetone
 Concen: 2.39 ug/L
 RT: 5.71 min Scan# 331
 Delta R.T. -0.01 min
 Lab File: 8M381207.D
 Acq: 30 Jul 2012 19:44

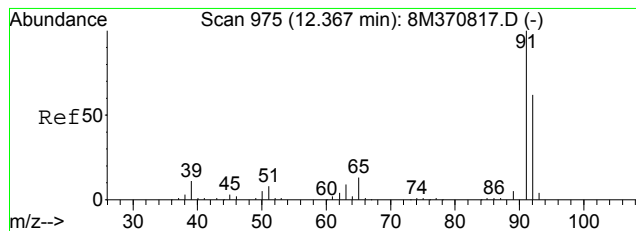
Tgt Ion: 43 Resp: 2160
 Ion Ratio Lower Upper
 43 100
 58 0.0 16.1 37.5#



#56
 Dimethyl Disulfide
 Concen: 2.01 ug/L
 RT: 12.16 min Scan# 955
 Delta R.T. 0.07 min
 Lab File: 8M381207.D
 Acq: 30 Jul 2012 19:44

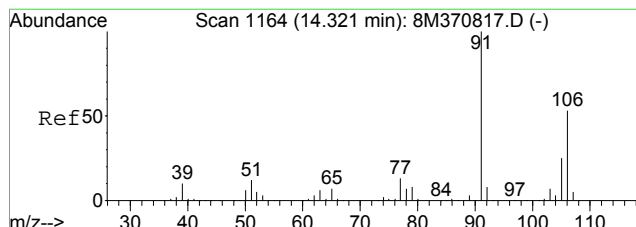
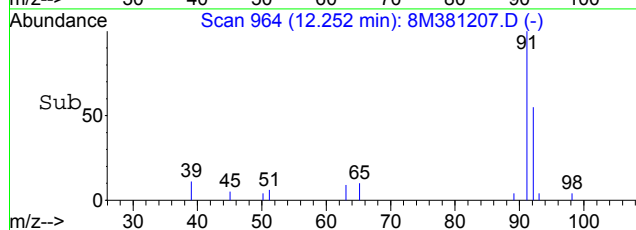
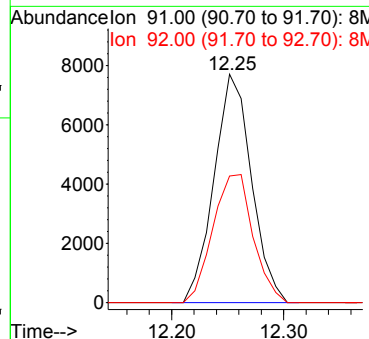
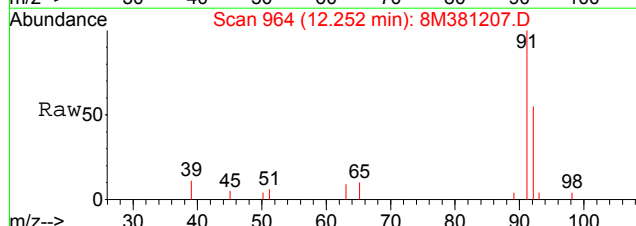
Tgt Ion: 94 Resp: 13283
 Ion Ratio Lower Upper
 94 100
 79 0.0 30.6 71.4#





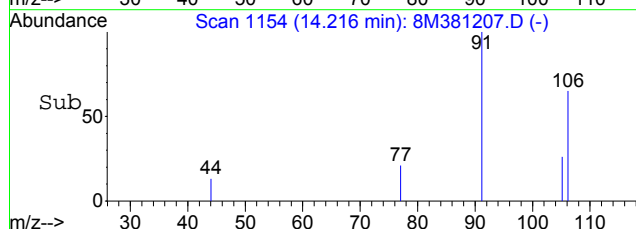
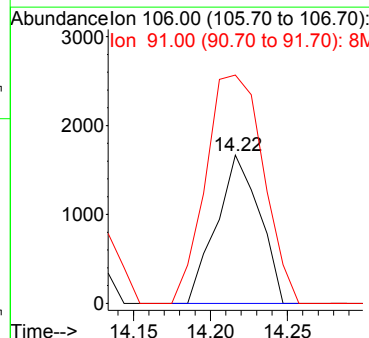
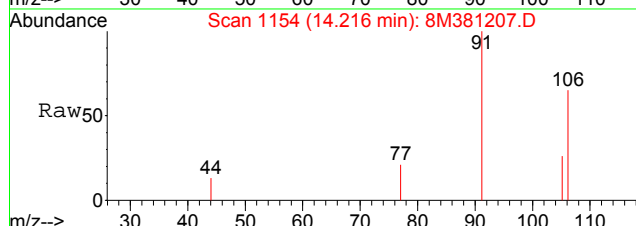
#59
Toluene
Concen: 0.72 ug/L
RT: 12.25 min Scan# 964
Delta R.T. -0.00 min
Lab File: 8M381207.D
Acq: 30 Jul 2012 19:44

Tgt Ion: 91 Resp: 17967
Ion Ratio Lower Upper
91 100
92 60.3 36.6 85.4



#73
m-,p-Xylene
Concen: 0.27 ug/L
RT: 14.22 min Scan# 1154
Delta R.T. -0.00 min
Lab File: 8M381207.D
Acq: 30 Jul 2012 19:44

Tgt Ion: 106 Resp: 3247
Ion Ratio Lower Upper
106 100
91 206.2 113.6 265.2



Data File : C:\MSDCHEM\1\DATA\073012\8M381208.D Vial: 20
 Acq On : 30 Jul 2012 20:14 Operator: ADC
 Sample : L12070658-33 B 826-LOW Inst : HPMS8
 Misc : 1,1 Multiplr: 1.00
 MS Integration Params: RTEINT.P
 Quant Time: Jul 31 11:39:30 2012 Quant Results File: 8260WTR.RES

Quant Method : C:\MSDCHEM\1\METHODS\8260WTR.M (RTE Integrator)
 Title : Method 8260B/624 WTR-SOP:OVLMSV01 06/28/12 HPMS 8
 Last Update : Fri Jun 29 09:29:43 2012
 Response via : Initial Calibration
 DataAcq Meth : 8260WTR

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene	10.18	96	530179	25.00	ug/L	0.00
57) Chlorobenzene-d5	14.03	117	427916	25.00	ug/L	0.00
78) 1,4-Dichlorobenzene-d4	17.04	152	232181	25.00	ug/L	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
37) Dibromofluoromethane	9.13	111	142336	24.9643	ug/L	0.00
Spiked Amount	25.000	Range	86 - 118	Recovery	=	99.84%
43) 1,2-Dichloroethane-d4	9.76	65	113992	21.4535	ug/L	-0.01
Spiked Amount	25.000	Range	80 - 120	Recovery	=	85.80%
58) Toluene-d8	12.16	98	500919	25.6203	ug/L	0.00
Spiked Amount	25.000	Range	88 - 110	Recovery	=	102.48%
80) p-Bromofluorobenzene	15.53	95	196139	25.4474	ug/L	0.00
Spiked Amount	25.000	Range	86 - 115	Recovery	=	101.80%

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
12) 1,1,2-Trichloro-1,2,2-Trif	5.67	101	103335	18.0123	ug/L	99
13) Acetone	5.72	43	902	0.9912	ug/L #	48
14) 1,1-Dichloroethene	5.95	61	6313	0.6626	ug/L	86
16) Dimethyl Sulfide	6.20	62	3778	0.5419	ug/L	91
20) Carbon Disulfide	6.74	76	6860	0.4239	ug/L #	75
27) 1,1-Dichloroethane	7.78	63	1892	0.1679	ug/L #	51
32) cis-1,2-Dichloroethene	8.63	96	1966	0.3204	ug/L	95
47) Trichloroethene	10.69	130	25882	3.6305	ug/L	98
56) Dimethyl Disulfide	12.09	94	314	0.7573	ug/L #	27
66) Tetrachloroethene	13.08	164	121736	20.0723	ug/L	96
92) p-Isopropyltoluene	16.78	119	3990	0.1635	ug/L	99

 (#) = qualifier out of range (m) = manual integration
 8M381208.D 8260WTR.M Tue Jul 31 11:39:31 2012

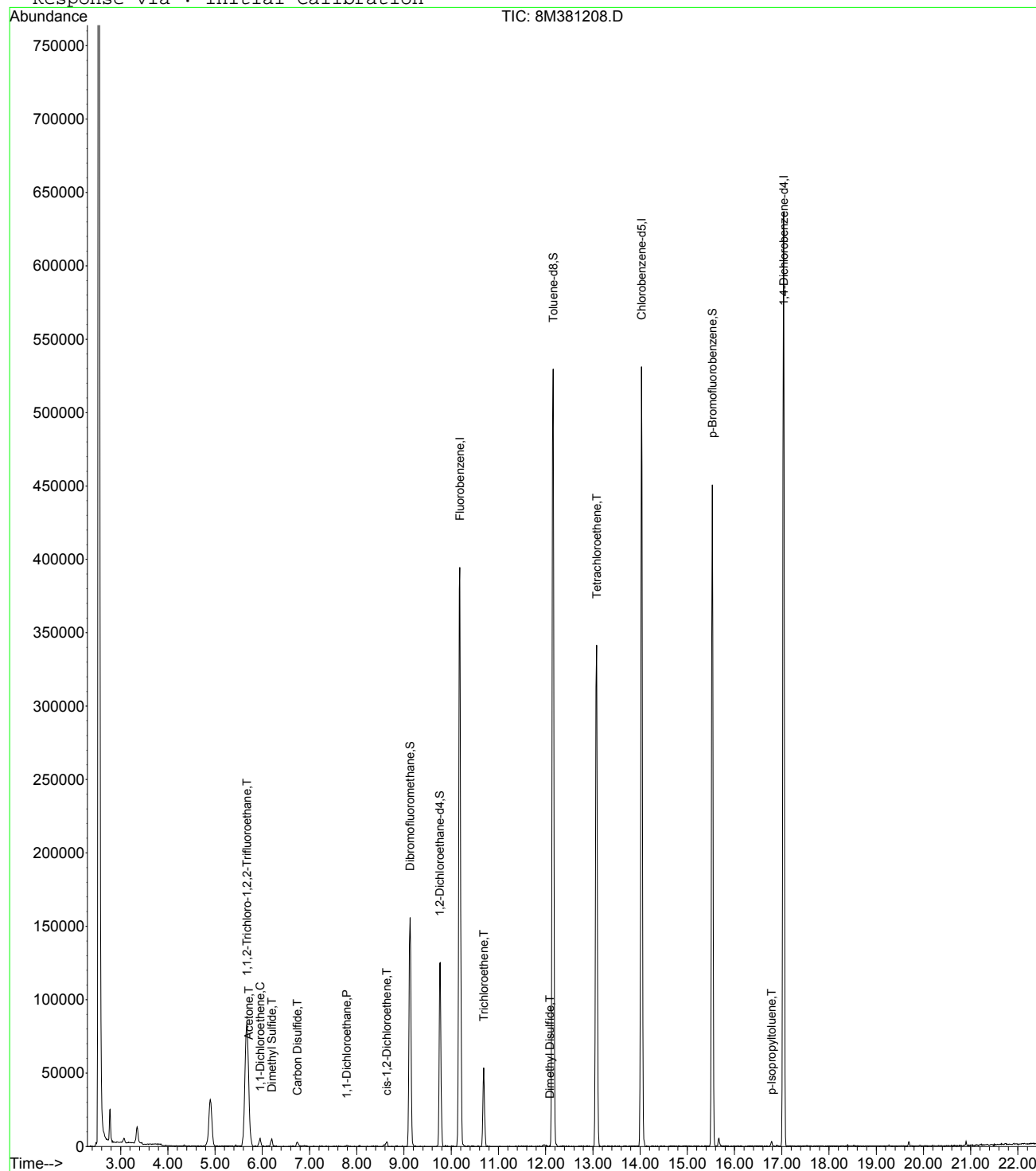
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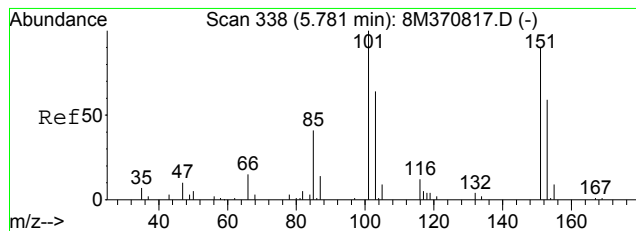
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 Acq On : 30 Jul 2012 20:14
 Sample : L12070658-33 B 826-LOW
 Misc : 1,1
 MS Integration Params: RTEINT.P
 Quant Time: Jul 31 11:39 2012

Vial: 20
 Operator: ADC
 Inst : HPMS8
 Multiplr: 1.00

Quant Results File: 8260WTR.RES

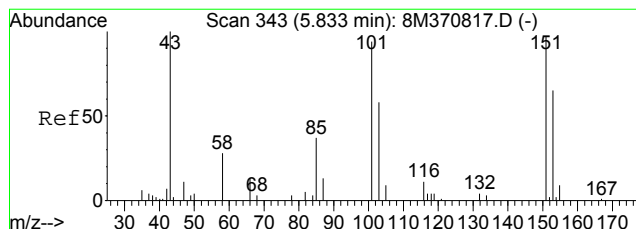
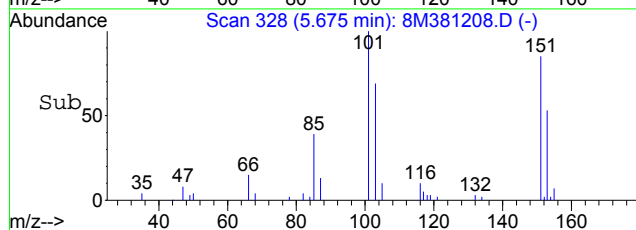
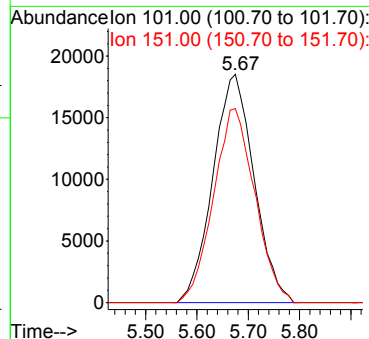
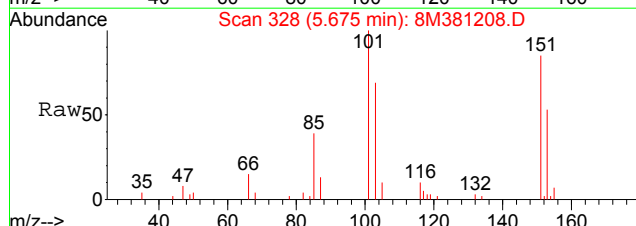
Method : C:\MSDCHEM\1\METHODS\8260WTR.M (RTE Integrator)
 Title : Method 8260B/624 WTR-SOP:OVLMSV01 06/28/12 HPMS 8
 Last Update : Fri Jun 29 09:29:43 2012
 Response via : Initial Calibration





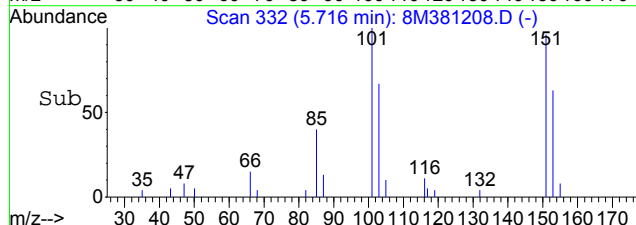
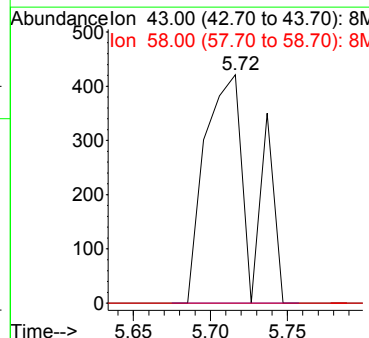
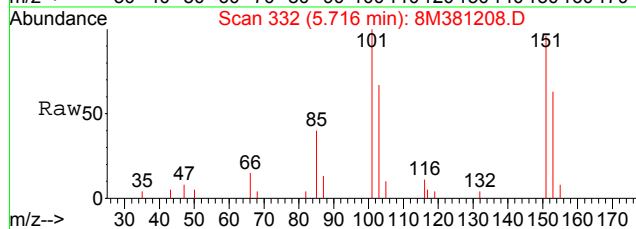
#12
 1,1,2-Trichloro-1,2,2-Trifluoroethane
 Concen: 18.01 ug/L
 RT: 5.67 min Scan# 328
 Delta R.T. 0.01 min
 Lab File: 8M381208.D
 Acq: 30 Jul 2012 20:14

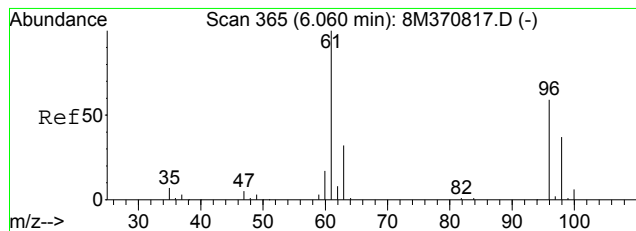
Tgt Ion:101 Resp: 103335
 Ion Ratio Lower Upper
 101 100
 151 85.2 46.3 126.3



#13
 Acetone
 Concen: 0.99 ug/L
 RT: 5.72 min Scan# 332
 Delta R.T. -0.00 min
 Lab File: 8M381208.D
 Acq: 30 Jul 2012 20:14

Tgt Ion: 43 Resp: 902
 Ion Ratio Lower Upper
 43 100
 58 0.0 16.1 37.5#

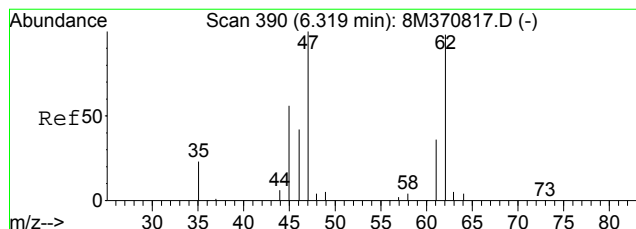
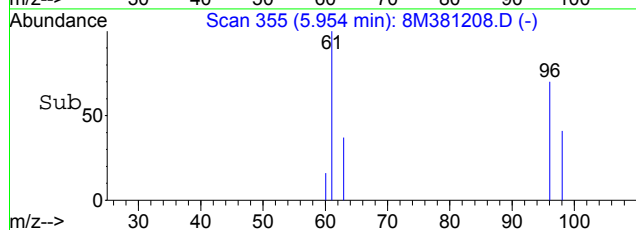
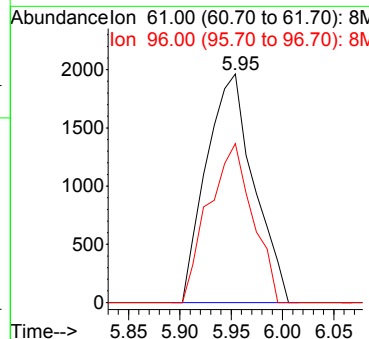
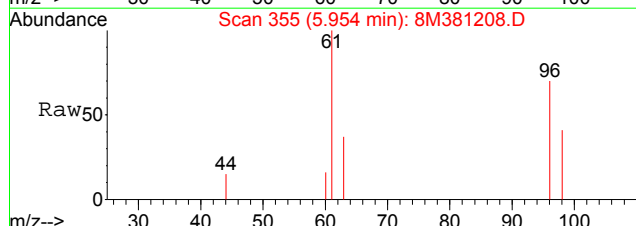




#14
 1,1-Dichloroethene
 Concen: 0.66 ug/L
 RT: 5.95 min Scan# 355
 Delta R.T. 0.01 min
 Lab File: 8M381208.D
 Acq: 30 Jul 2012 20:14

Tgt Ion: 61 Resp: 6313

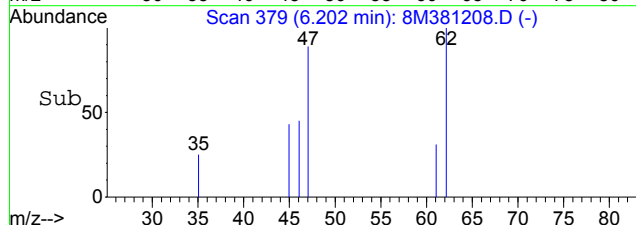
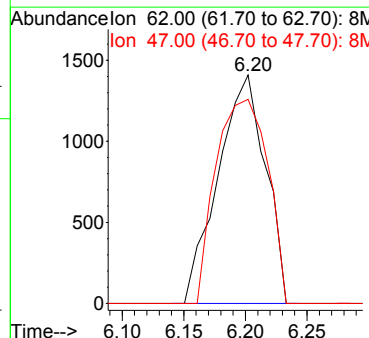
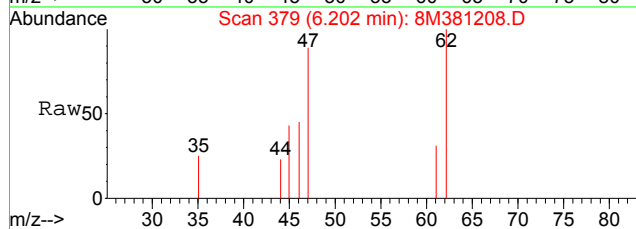
Ion	Ratio	Lower	Upper
61	100		
96	64.8	32.8	76.4

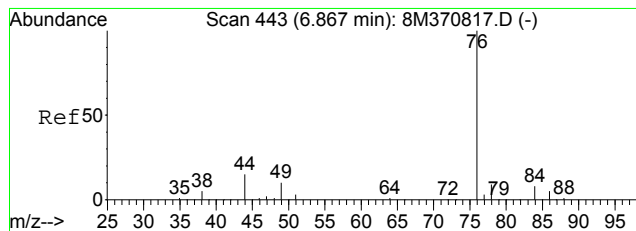


#16
 Dimethyl Sulfide
 Concen: 0.54 ug/L
 RT: 6.20 min Scan# 379
 Delta R.T. -0.00 min
 Lab File: 8M381208.D
 Acq: 30 Jul 2012 20:14

Tgt Ion: 62 Resp: 3778

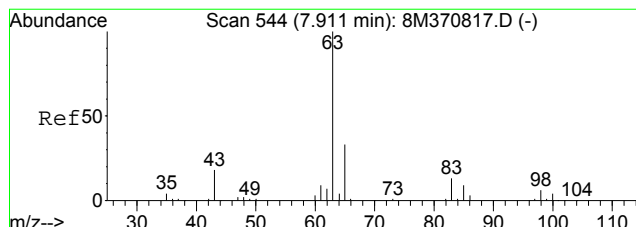
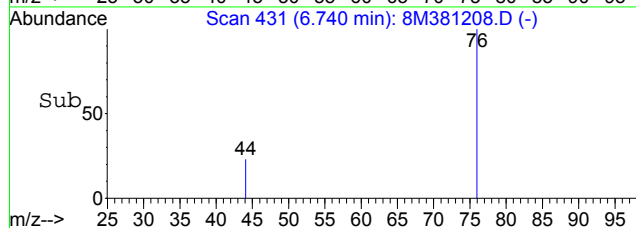
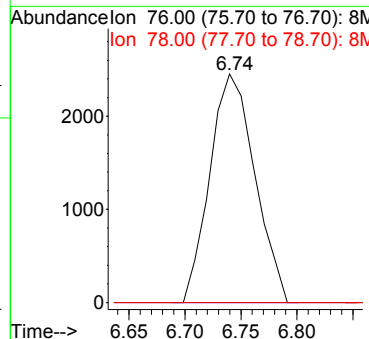
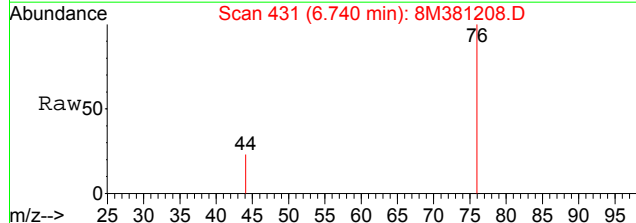
Ion	Ratio	Lower	Upper
62	100		
47	97.8	64.6	150.6





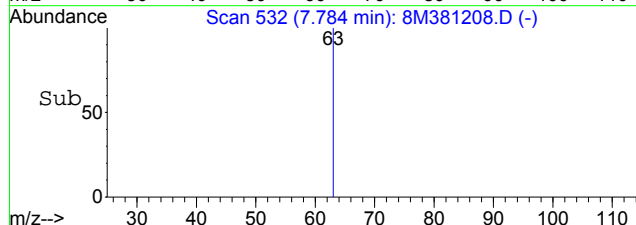
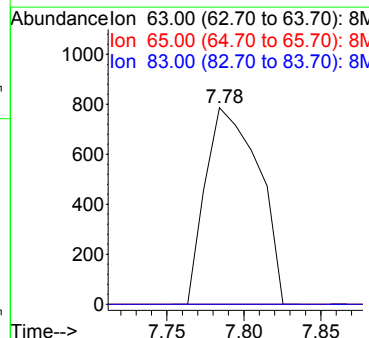
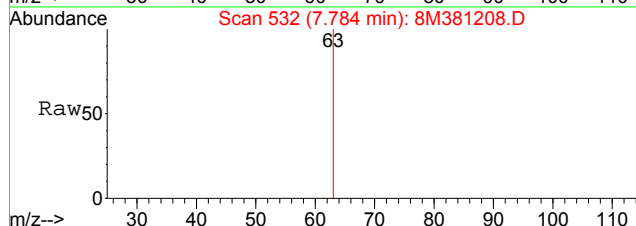
#20
 Carbon Disulfide
 Concen: 0.42 ug/L
 RT: 6.74 min Scan# 431
 Delta R.T. -0.00 min
 Lab File: 8M381208.D
 Acq: 30 Jul 2012 20:14

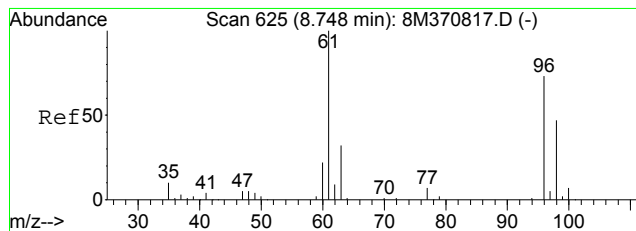
Tgt Ion	Resp	Lower	Upper
76	6860		
78	0.0	5.5	12.9#



#27
 1,1-Dichloroethane
 Concen: 0.17 ug/L
 RT: 7.78 min Scan# 532
 Delta R.T. -0.01 min
 Lab File: 8M381208.D
 Acq: 30 Jul 2012 20:14

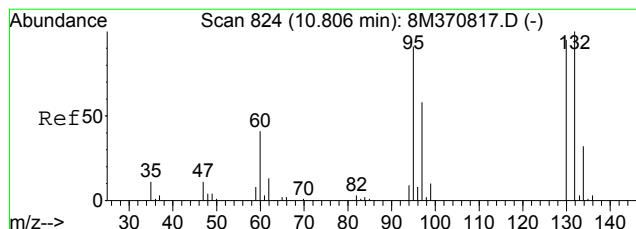
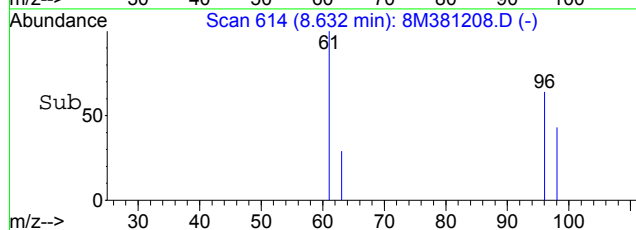
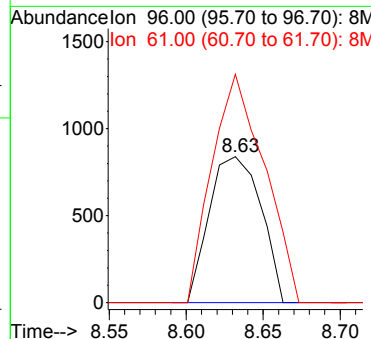
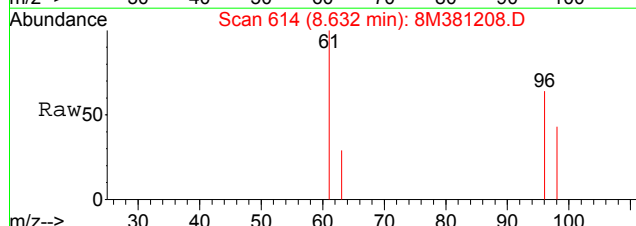
Tgt Ion	Resp	Lower	Upper
63	1892		
65	0.0	18.1	42.3#
83	0.0	7.4	17.2#





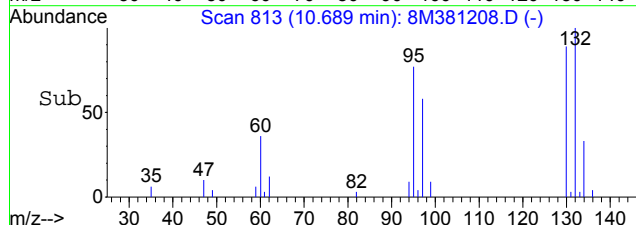
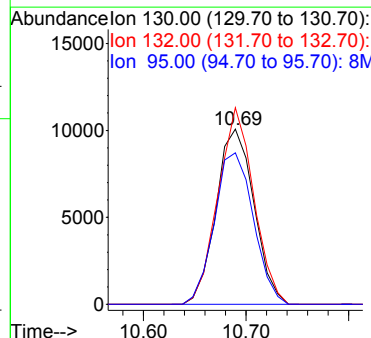
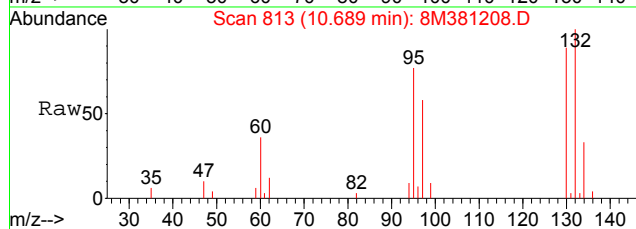
#32
 cis-1,2-Dichloroethene
 Concen: 0.32 ug/L
 RT: 8.63 min Scan# 614
 Delta R.T. -0.00 min
 Lab File: 8M381208.D
 Acq: 30 Jul 2012 20:14

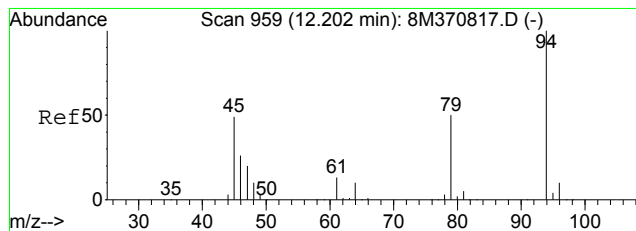
Tgt Ion: 96 Resp: 1966
 Ion Ratio Lower Upper
 96 100
 61 158.7 99.7 232.5



#47
 Trichloroethene
 Concen: 3.63 ug/L
 RT: 10.69 min Scan# 813
 Delta R.T. -0.00 min
 Lab File: 8M381208.D
 Acq: 30 Jul 2012 20:14

Tgt Ion: 130 Resp: 25882
 Ion Ratio Lower Upper
 130 100
 132 105.9 63.0 147.0
 95 88.9 55.1 128.5

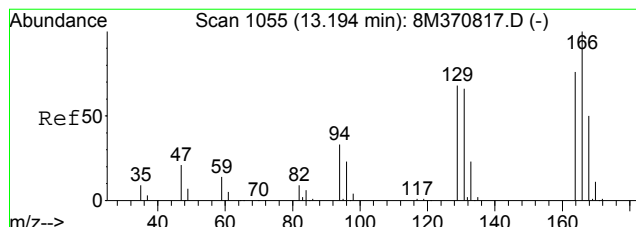
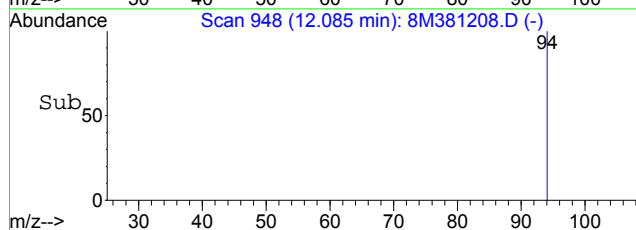
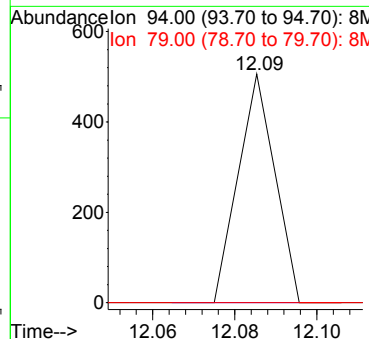
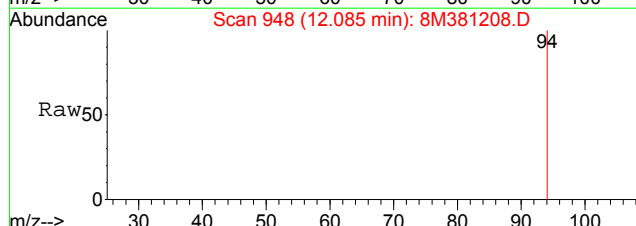




#56
 Dimethyl Disulfide
 Concen: 0.76 ug/L
 RT: 12.09 min Scan# 948
 Delta R.T. -0.00 min
 Lab File: 8M381208.D
 Acq: 30 Jul 2012 20:14

Tgt Ion: 94 Resp: 314

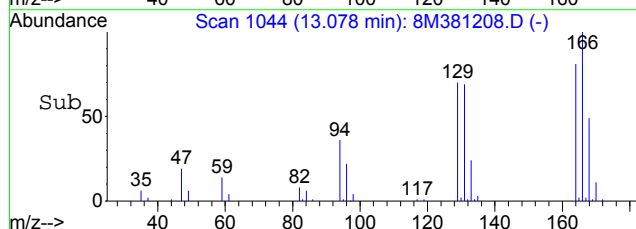
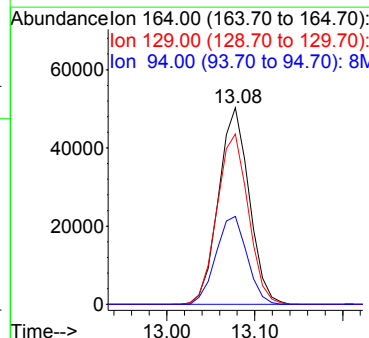
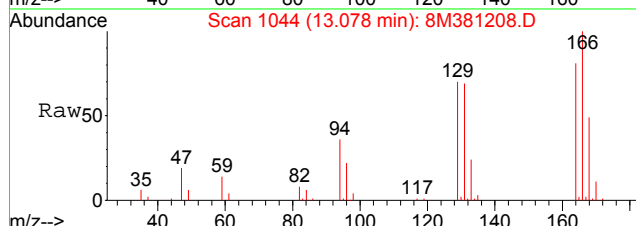
Ion	Ratio	Lower	Upper
94	100		
79	0.0	30.6	71.4#

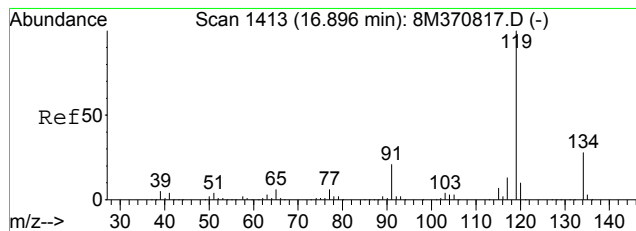


#66
 Tetrachloroethene
 Concen: 20.07 ug/L
 RT: 13.08 min Scan# 1044
 Delta R.T. -0.00 min
 Lab File: 8M381208.D
 Acq: 30 Jul 2012 20:14

Tgt Ion: 164 Resp: 121736

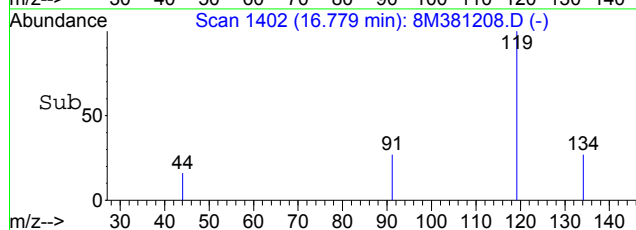
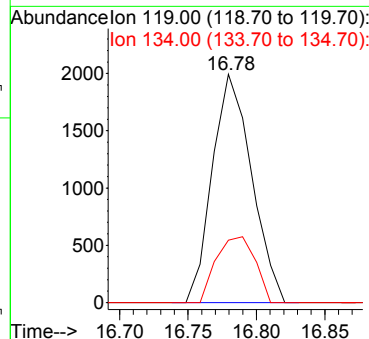
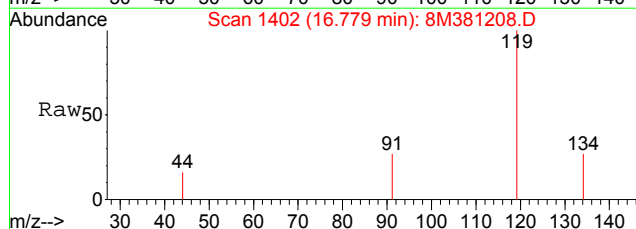
Ion	Ratio	Lower	Upper
164	100		
129	88.3	51.8	121.0
94	45.5	29.9	69.9





#92
 p-Isopropyltoluene
 Concen: 0.16 ug/L
 RT: 16.78 min Scan# 1402
 Delta R.T. -0.01 min
 Lab File: 8M381208.D
 Acq: 30 Jul 2012 20:14

Tgt Ion	Ratio	Lower	Upper
119	100		
134	28.4	17.4	40.6



Data File : C:\MSDCHEM\1\DATA\073012\8M381209.D Vial: 21
 Acq On : 30 Jul 2012 20:44 Operator: ADC
 Sample : L12070658-34 B 826-LOW Inst : HPMS8
 Misc : 1,1 Multiplr: 1.00
 MS Integration Params: RTEINT.P
 Quant Time: Jul 31 11:39:35 2012 Quant Results File: 8260WTR.RES

Quant Method : C:\MSDCHEM\1\METHODS\8260WTR.M (RTE Integrator)
 Title : Method 8260B/624 WTR-SOP:OVLMSV01 06/28/12 HPMS 8
 Last Update : Fri Jun 29 09:29:43 2012
 Response via : Initial Calibration
 DataAcq Meth : 8260WTR

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene	10.18	96	522922	25.00	ug/L	0.00
57) Chlorobenzene-d5	14.03	117	422848	25.00	ug/L	0.00
78) 1,4-Dichlorobenzene-d4	17.04	152	235139	25.00	ug/L	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
37) Dibromofluoromethane	9.13	111	140559	24.9948	ug/L	0.00
Spiked Amount 25.000	Range	86 - 118	Recovery	=	99.96%	
43) 1,2-Dichloroethane-d4	9.76	65	115711	22.0793	ug/L	-0.01
Spiked Amount 25.000	Range	80 - 120	Recovery	=	88.32%	
58) Toluene-d8	12.16	98	498808	25.8181	ug/L	0.00
Spiked Amount 25.000	Range	88 - 110	Recovery	=	103.28%	
80) p-Bromofluorobenzene	15.53	95	198356	25.4113	ug/L	0.00
Spiked Amount 25.000	Range	86 - 115	Recovery	=	101.64%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
4) Vinyl Chloride	3.42	62	887	Below Cal	#	42
12) 1,1,2-Trichloro-1,2,2-Trif	5.67	101	29245	5.1684	ug/L	98
13) Acetone	5.71	43	240	0.2674	ug/L	# 48
14) 1,1-Dichloroethene	5.95	61	14502	1.5433	ug/L	92
20) Carbon Disulfide	6.75	76	2823	0.1768	ug/L	# 75
27) 1,1-Dichloroethane	7.79	63	3039	0.2734	ug/L	# 61
32) cis-1,2-Dichloroethene	8.64	96	3396	0.5610	ug/L	84
47) Trichloroethene	10.69	130	29593	4.2087	ug/L	97
56) Dimethyl Disulfide	12.16	94	13524	2.0430	ug/L	# 27
66) Tetrachloroethene	13.08	164	57557	9.6040	ug/L	97
70) Chlorobenzene	14.08	112	3093	0.1830	ug/L	73

(#) = qualifier out of range (m) = manual integration
 8M381209.D 8260WTR.M Tue Jul 31 11:39:36 2012

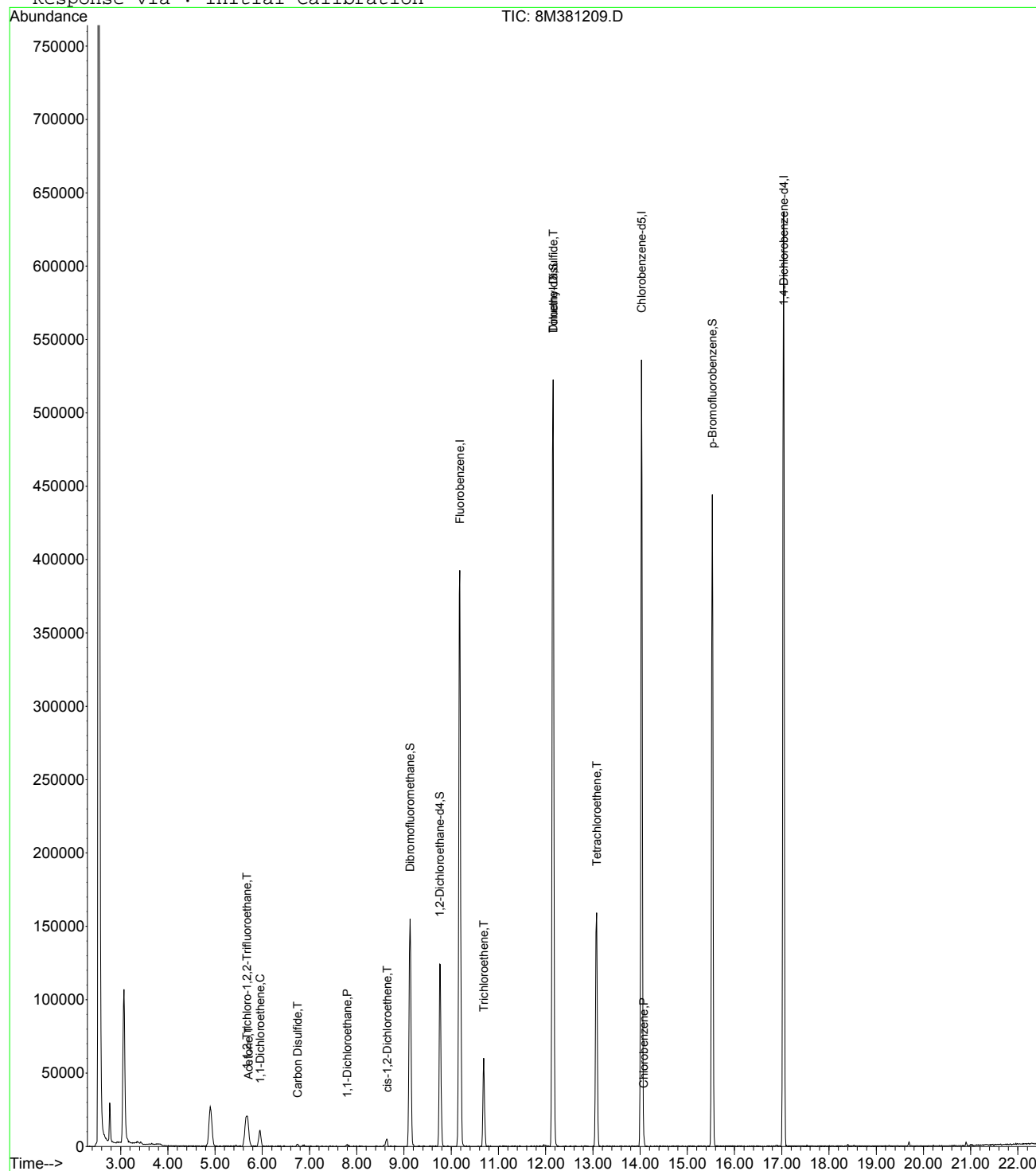
Page 1

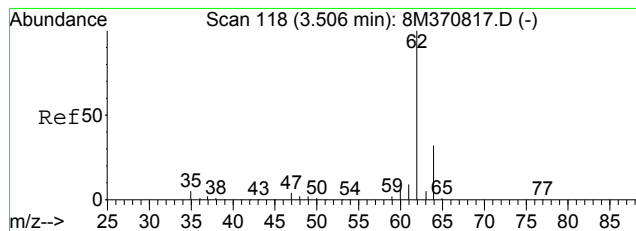
Data File : C:\MSDCHEM\1\DATA\073012\8M381209.D
 Acq On : 30 Jul 2012 20:44
 Sample : L12070658-34 B 826-LOW
 Misc : 1,1
 MS Integration Params: RTEINT.P
 Quant Time: Jul 31 11:39 2012

Vial: 21
 Operator: ADC
 Inst : HPMS8
 Multiplr: 1.00

Quant Results File: 8260WTR.RES

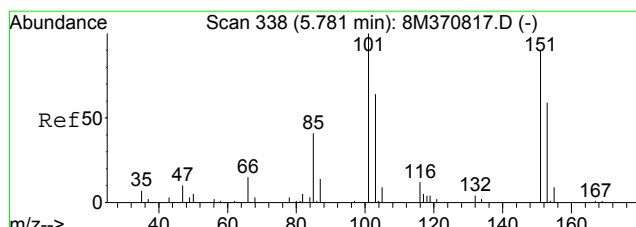
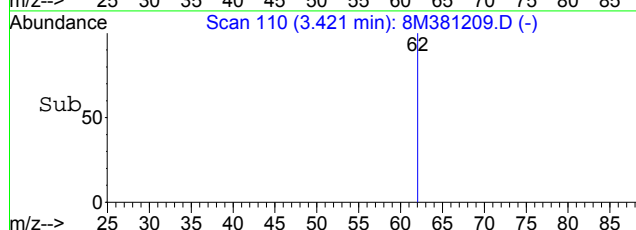
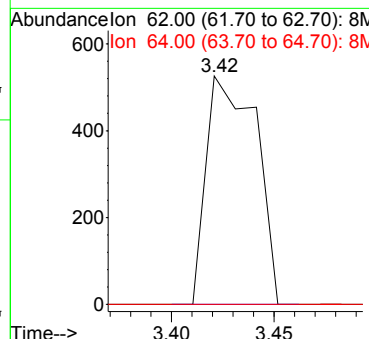
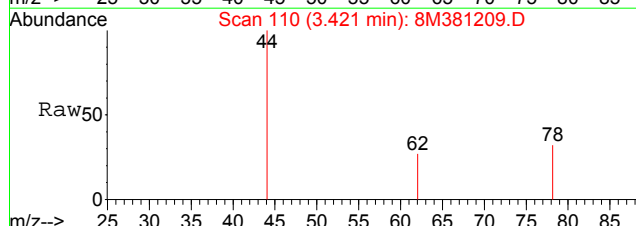
Method : C:\MSDCHEM\1\METHODS\8260WTR.M (RTE Integrator)
 Title : Method 8260B/624 WTR-SOP:OVLMSV01 06/28/12 HPMS 8
 Last Update : Fri Jun 29 09:29:43 2012
 Response via : Initial Calibration





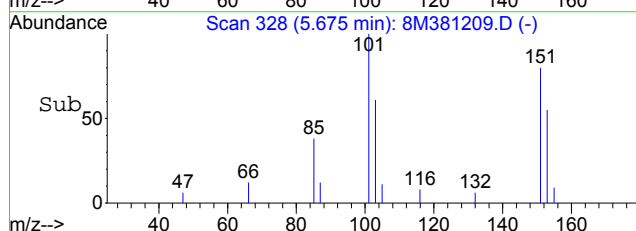
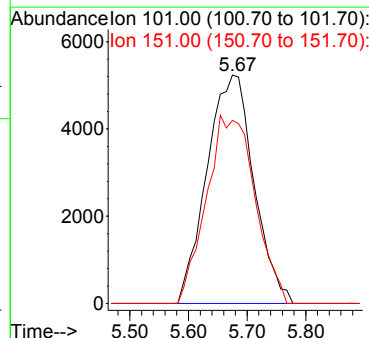
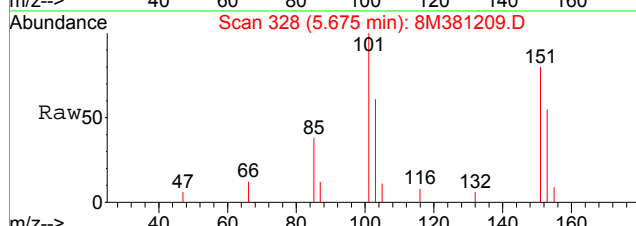
#4
 Vinyl Chloride
 Concen: Below Cal
 RT: 3.42 min Scan# 110
 Delta R.T. -0.00 min
 Lab File: 8M381209.D
 Acq: 30 Jul 2012 20:44

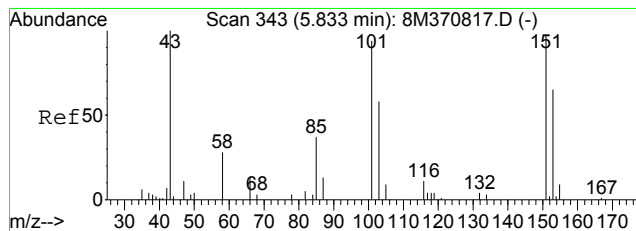
Tgt Ion: 62 Resp: 887
 Ion Ratio Lower Upper
 62 100
 64 0.0 19.8 46.2#



#12
 1,1,2-Trichloro-1,2,2-Trifluoroethane
 Concen: 5.17 ug/L
 RT: 5.67 min Scan# 328
 Delta R.T. 0.01 min
 Lab File: 8M381209.D
 Acq: 30 Jul 2012 20:44

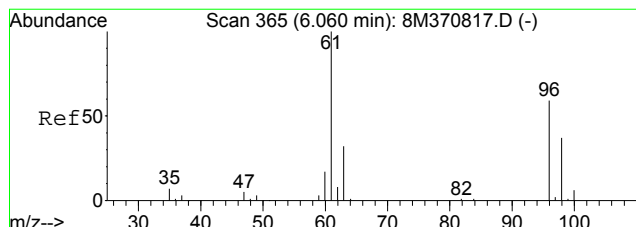
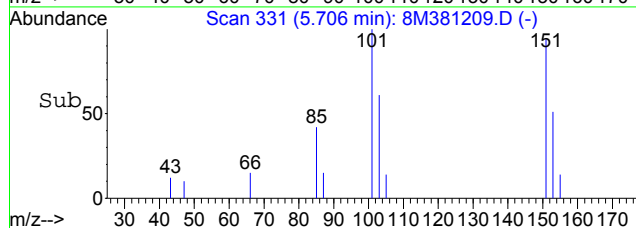
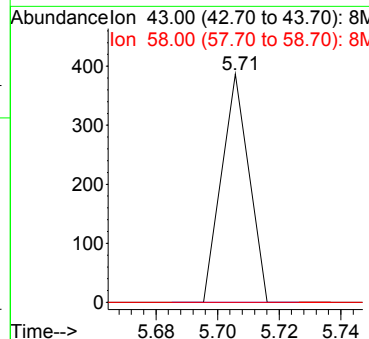
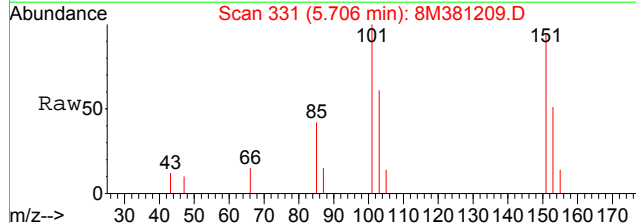
Tgt Ion: 101 Resp: 29245
 Ion Ratio Lower Upper
 101 100
 151 84.6 46.3 126.3





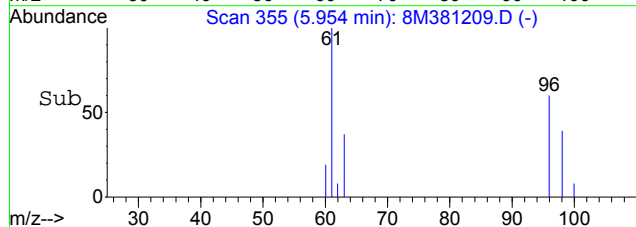
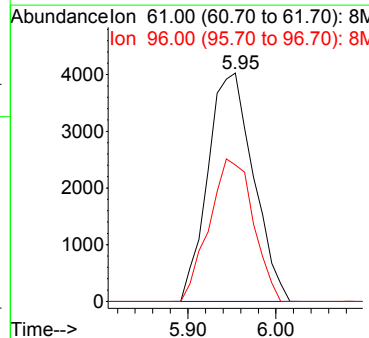
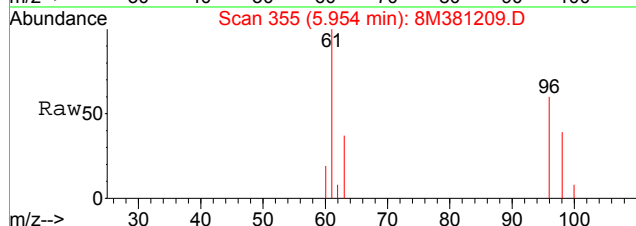
#13
 Acetone
 Concen: 0.27 ug/L
 RT: 5.71 min Scan# 331
 Delta R.T. -0.01 min
 Lab File: 8M381209.D
 Acq: 30 Jul 2012 20:44

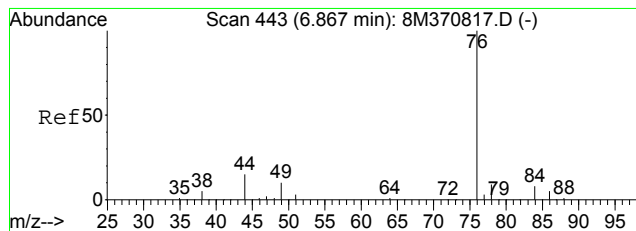
Tgt Ion	Ratio	Lower	Upper
43	100		
58	0.0	16.1	37.5#



#14
 1,1-Dichloroethene
 Concen: 1.54 ug/L
 RT: 5.95 min Scan# 355
 Delta R.T. 0.01 min
 Lab File: 8M381209.D
 Acq: 30 Jul 2012 20:44

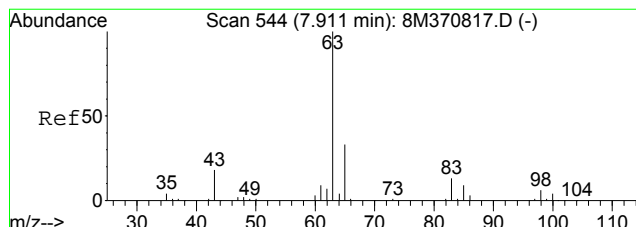
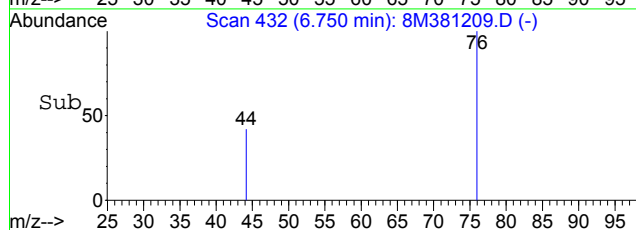
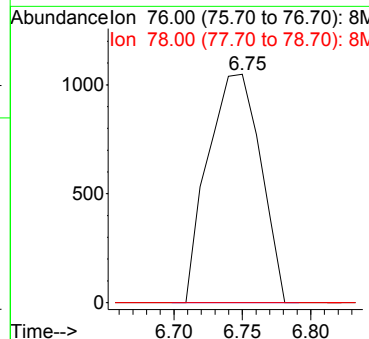
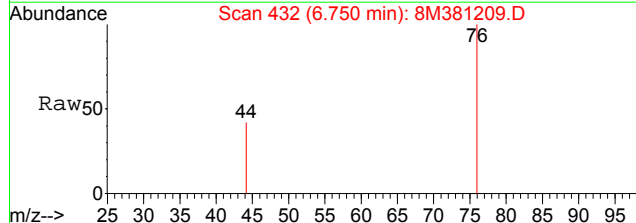
Tgt Ion	Ratio	Lower	Upper
61	100		
96	60.0	32.8	76.4





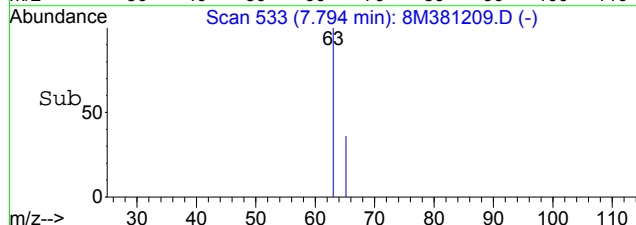
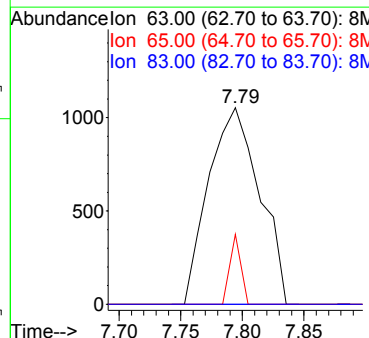
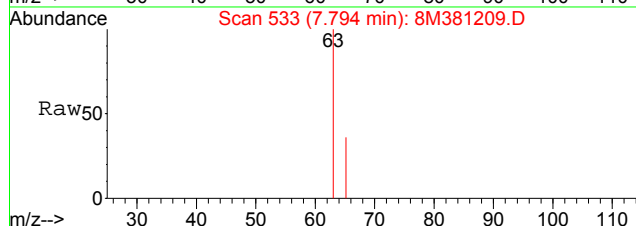
#20
Carbon Disulfide
Concen: 0.18 ug/L
RT: 6.75 min Scan# 432
Delta R.T. 0.01 min
Lab File: 8M381209.D
Acq: 30 Jul 2012 20:44

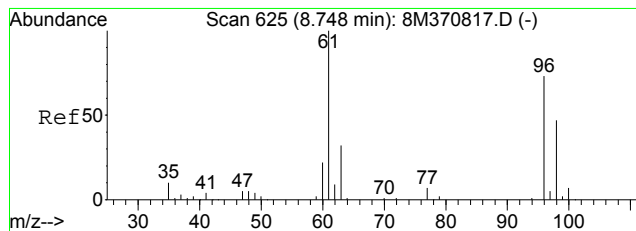
Tgt Ion: 76 Resp: 2823
Ion Ratio Lower Upper
76 100
78 0.0 5.5 12.9#



#27
1,1-Dichloroethane
Concen: 0.27 ug/L
RT: 7.79 min Scan# 533
Delta R.T. -0.00 min
Lab File: 8M381209.D
Acq: 30 Jul 2012 20:44

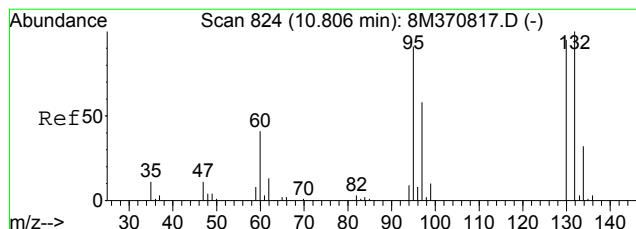
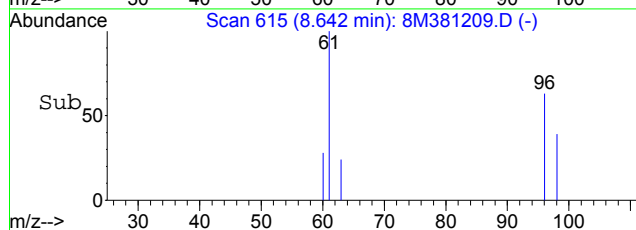
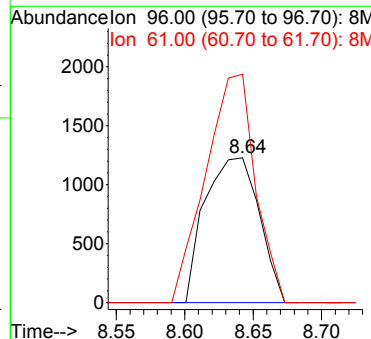
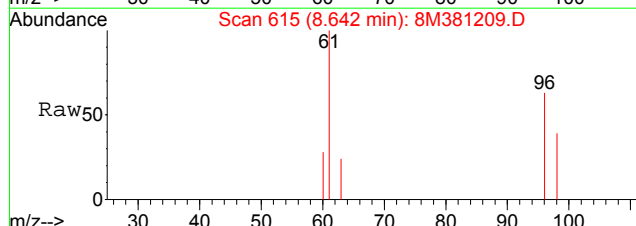
Tgt Ion: 63 Resp: 3039
Ion Ratio Lower Upper
63 100
65 7.7 18.1 42.3#
83 0.0 7.4 17.2#





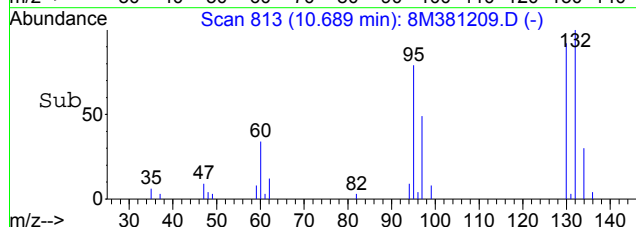
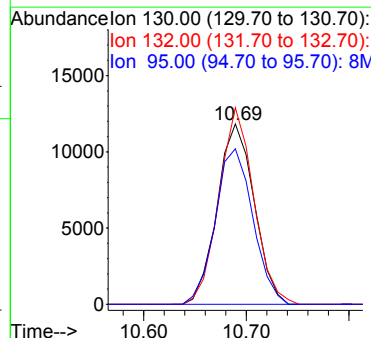
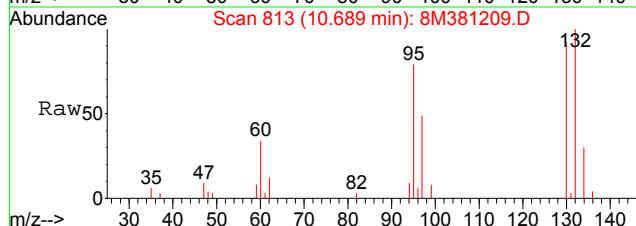
#32
 cis-1,2-Dichloroethene
 Concen: 0.56 ug/L
 RT: 8.64 min Scan# 615
 Delta R.T. 0.01 min
 Lab File: 8M381209.D
 Acq: 30 Jul 2012 20:44

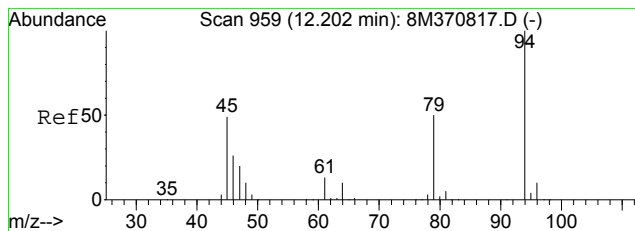
Tgt Ion: 96 Resp: 3396
 Ion Ratio Lower Upper
 96 100
 61 144.7 99.7 232.5



#47
 Trichloroethene
 Concen: 4.21 ug/L
 RT: 10.69 min Scan# 813
 Delta R.T. -0.00 min
 Lab File: 8M381209.D
 Acq: 30 Jul 2012 20:44

Tgt Ion: 130 Resp: 29593
 Ion Ratio Lower Upper
 130 100
 132 102.7 63.0 147.0
 95 87.8 55.1 128.5

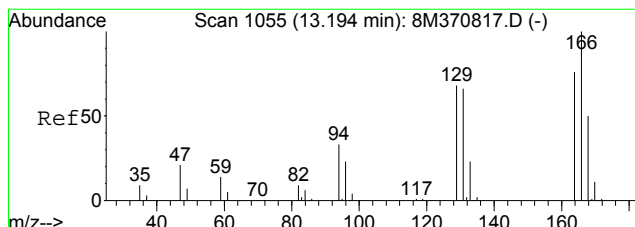
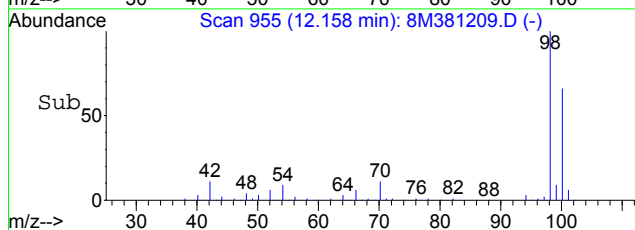
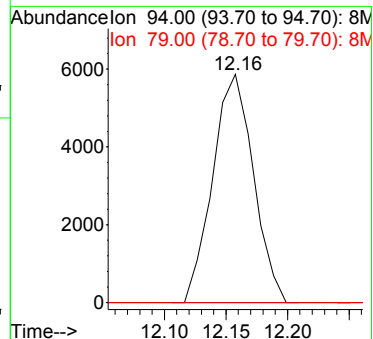
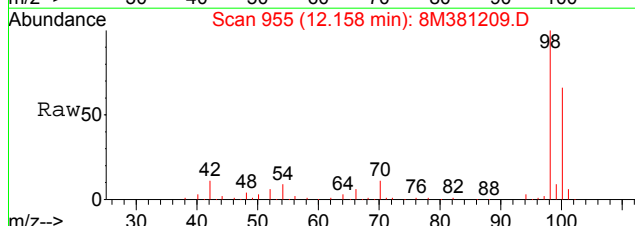




#56
 Dimethyl Disulfide
 Concen: 2.04 ug/L
 RT: 12.16 min Scan# 955
 Delta R.T. 0.07 min
 Lab File: 8M381209.D
 Acq: 30 Jul 2012 20:44

Tgt Ion: 94 Resp: 13524

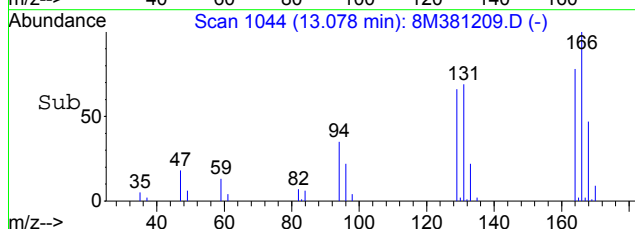
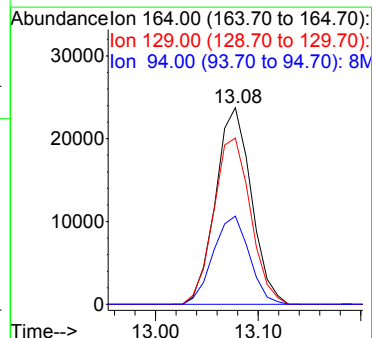
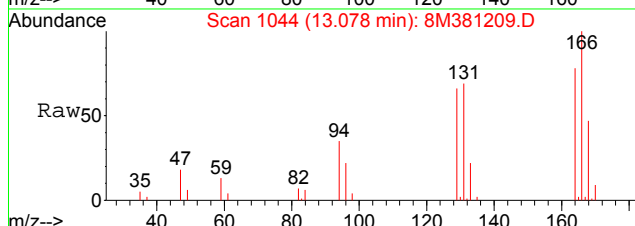
Ion	Ratio	Lower	Upper
94	100		
79	0.0	30.6	71.4#

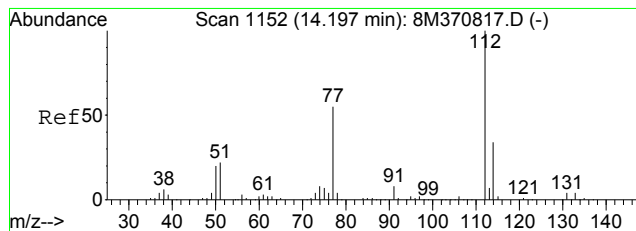


#66
 Tetrachloroethene
 Concen: 9.60 ug/L
 RT: 13.08 min Scan# 1044
 Delta R.T. -0.00 min
 Lab File: 8M381209.D
 Acq: 30 Jul 2012 20:44

Tgt Ion: 164 Resp: 57557

Ion	Ratio	Lower	Upper
164	100		
129	87.2	51.8	121.0
94	45.4	29.9	69.9

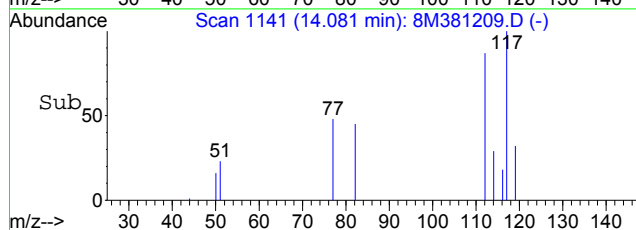
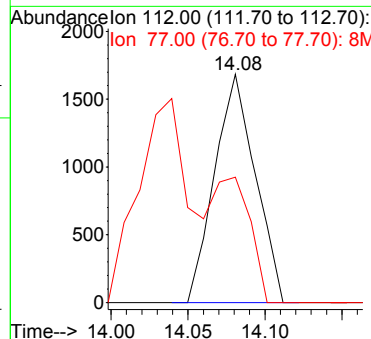
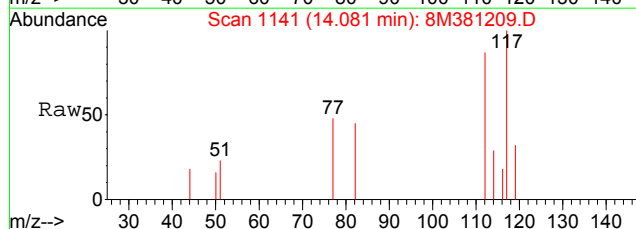




#70
 Chlorobenzene
 Concen: 0.18 ug/L
 RT: 14.08 min Scan# 1141
 Delta R.T. -0.00 min
 Lab File: 8M381209.D
 Acq: 30 Jul 2012 20:44

Tgt Ion:112 Resp: 3093

Ion	Ratio	Lower	Upper
112	100		
77	48.4	42.4	99.0



Data File : C:\MSDCHEM\1\DATA\073012\8M381210.D Vial: 22
 Acq On : 30 Jul 2012 21:14 Operator: ADC
 Sample : L12070658-35 B 826-LOW Inst : HPMS8
 Misc : 1,1 Multiplr: 1.00
 MS Integration Params: RTEINT.P
 Quant Time: Jul 31 11:39:40 2012 Quant Results File: 8260WTR.RES

Quant Method : C:\MSDCHEM\1\METHODS\8260WTR.M (RTE Integrator)
 Title : Method 8260B/624 WTR-SOP:OVLMSV01 06/28/12 HPMS 8
 Last Update : Fri Jun 29 09:29:43 2012
 Response via : Initial Calibration
 DataAcq Meth : 8260WTR

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene	10.18	96	516829	25.00	ug/L	0.00
57) Chlorobenzene-d5	14.03	117	427097	25.00	ug/L	0.00
78) 1,4-Dichlorobenzene-d4	17.04	152	233327	25.00	ug/L	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
37) Dibromofluoromethane	9.13	111	140679	25.3110	ug/L	0.00
Spiked Amount 25.000	Range	86 - 118	Recovery	=	101.24%	
43) 1,2-Dichloroethane-d4	9.76	65	113903	21.9905	ug/L	0.00
Spiked Amount 25.000	Range	80 - 120	Recovery	=	87.96%	
58) Toluene-d8	12.15	98	493757	25.3024	ug/L	0.00
Spiked Amount 25.000	Range	88 - 110	Recovery	=	101.20%	
80) p-Bromofluorobenzene	15.53	95	195169	25.1971	ug/L	0.00
Spiked Amount 25.000	Range	86 - 115	Recovery	=	100.80%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
4) Vinyl Chloride	3.43	62	2529	Below Cal		80
12) 1,1,2-Trichloro-1,2,2-Trif	5.67	101	65720	11.7515	ug/L	96
13) Acetone	5.72	43	1110	1.2513	ug/L #	48
14) 1,1-Dichloroethene	5.95	61	70415	7.5820	ug/L	92
27) 1,1-Dichloroethane	7.80	63	11494	1.0463	ug/L	93
32) cis-1,2-Dichloroethene	8.64	96	7882	1.3175	ug/L	89
45) 1,2-Dichloroethane	9.89	62	1395	0.2013	ug/L #	39
47) Trichloroethene	10.69	130	94125	13.5441	ug/L	98
56) Dimethyl Disulfide	12.16	94	13281	2.0346	ug/L #	27
66) Tetrachloroethene	13.08	164	114051	18.8413	ug/L	97
70) Chlorobenzene	14.07	112	3594	0.2106	ug/L	79

(#) = qualifier out of range (m) = manual integration
 8M381210.D 8260WTR.M Tue Jul 31 11:39:40 2012

Page 1

Data File : C:\MSDCHEM\1\DATA\073012\8M381210.D

Vial: 22

Acq On : 30 Jul 2012 21:14

Operator: ADC

Sample : L12070658-35 B 826-LOW

Inst : HPMS8

Misc : 1,1

Multiplr: 1.00

MS Integration Params: RTEINT.P

Quant Time: Jul 31 11:39 2012

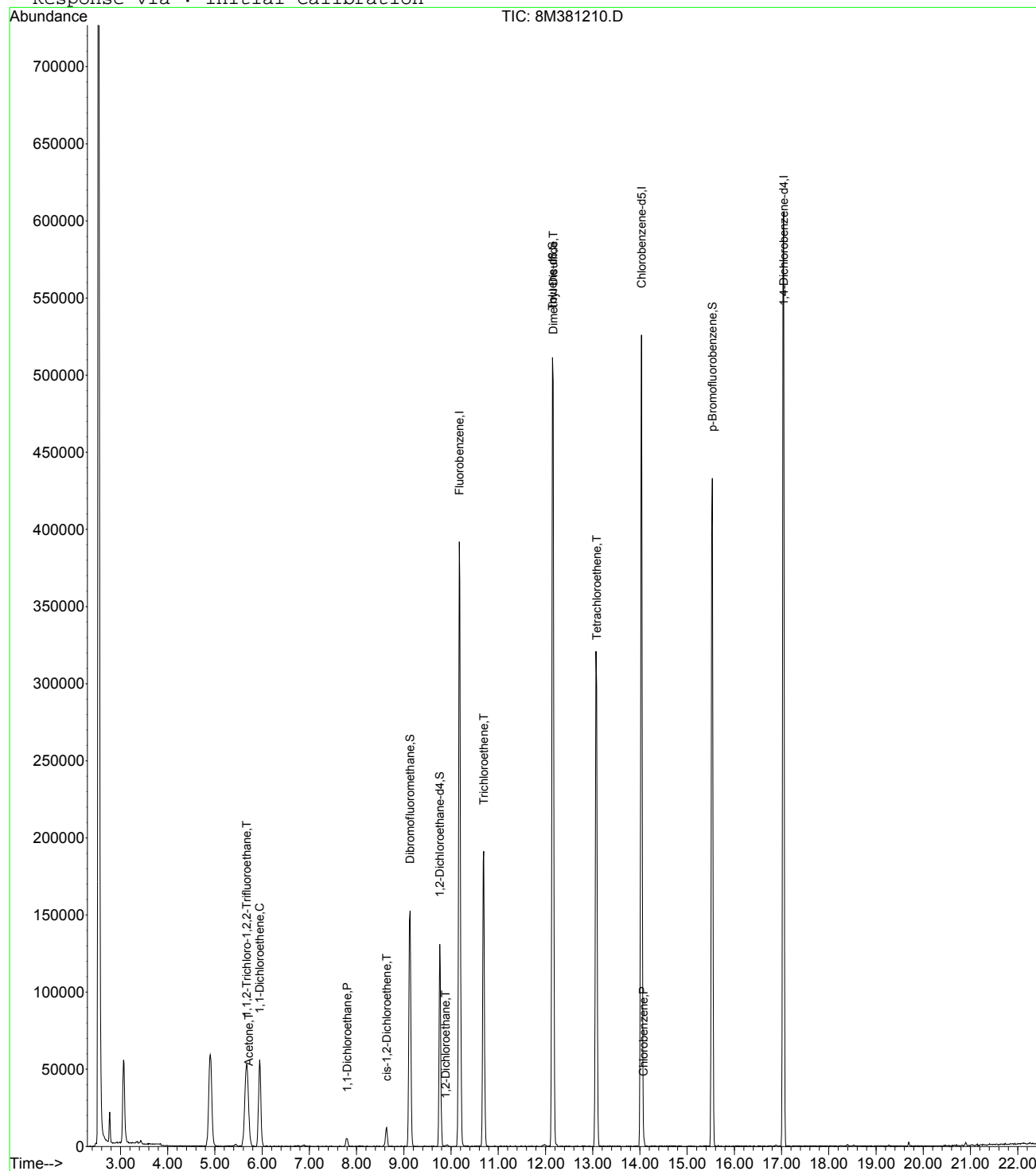
Quant Results File: 8260WTR.RES

Method : C:\MSDCHEM\1\METHODS\8260WTR.M (RTE Integrator)

Title : Method 8260B/624 WTR-SOP:OVLMSV01 06/28/12 HPMS 8

Last Update : Fri Jun 29 09:29:43 2012

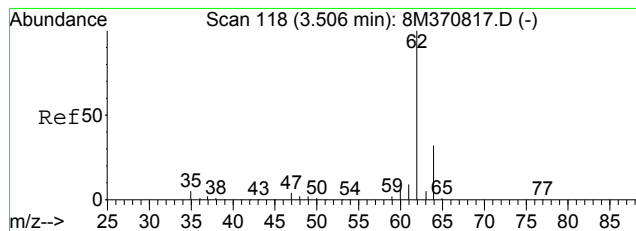
Response via : Initial Calibration



8M381210.D 8260WTR.M

Tue Jul 31 11:39:41 2012

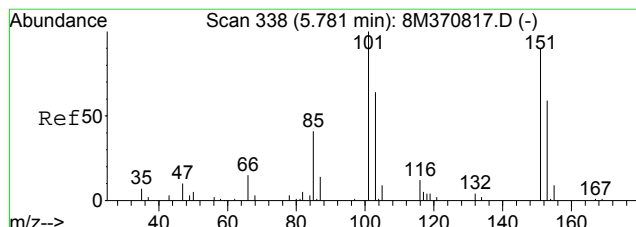
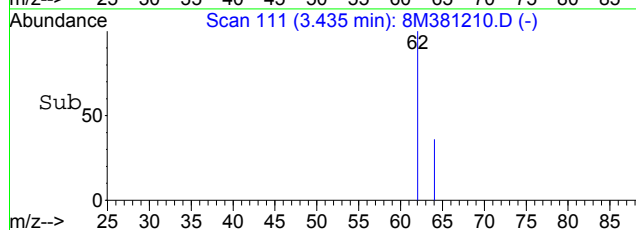
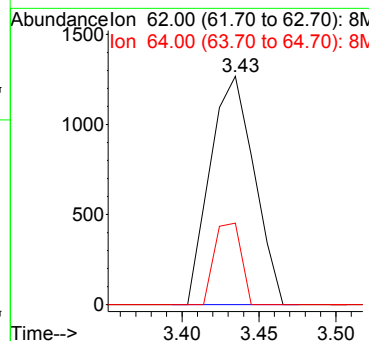
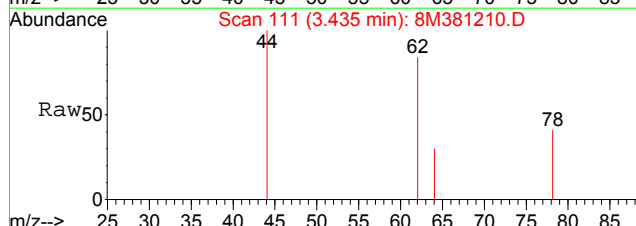
Page 2



#4
 Vinyl Chloride
 Concen: Below Cal
 RT: 3.43 min Scan# 111
 Delta R.T. 0.01 min
 Lab File: 8M381210.D
 Acq: 30 Jul 2012 21:14

Tgt Ion: 62 Resp: 2529

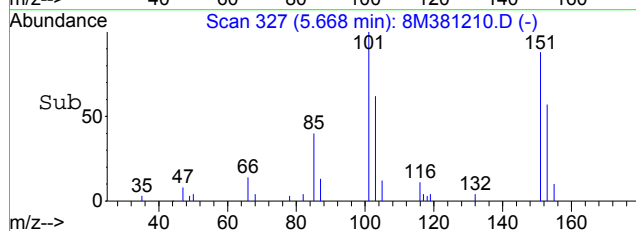
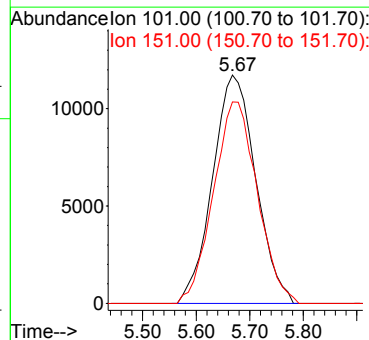
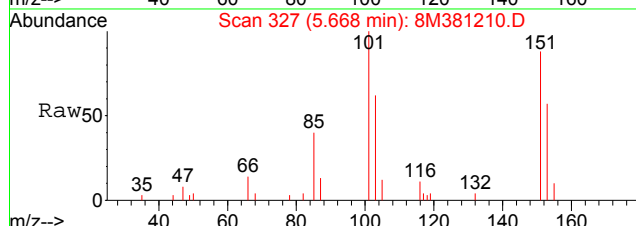
Ion	Ratio	Lower	Upper
62	100		
64	21.8	19.8	46.2

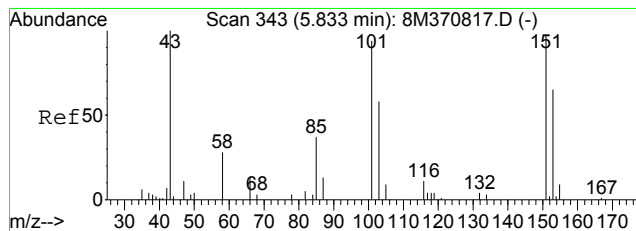


#12
 1,1,2-Trichloro-1,2,2-Trifluoroethane
 Concen: 11.75 ug/L
 RT: 5.67 min Scan# 327
 Delta R.T. 0.00 min
 Lab File: 8M381210.D
 Acq: 30 Jul 2012 21:14

Tgt Ion: 101 Resp: 65720

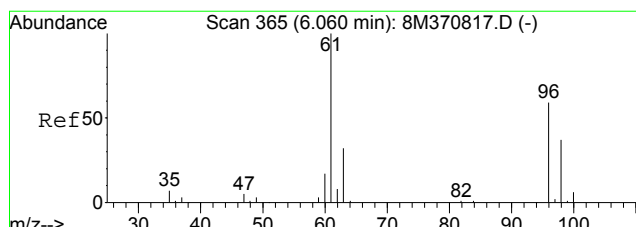
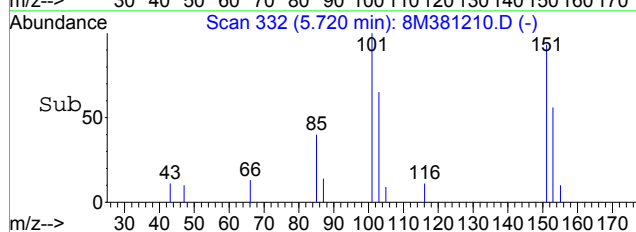
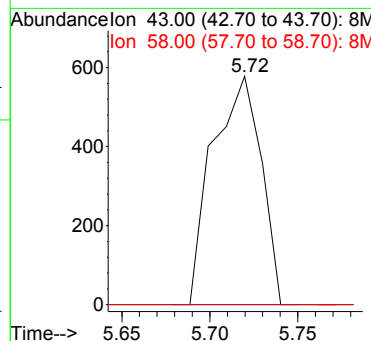
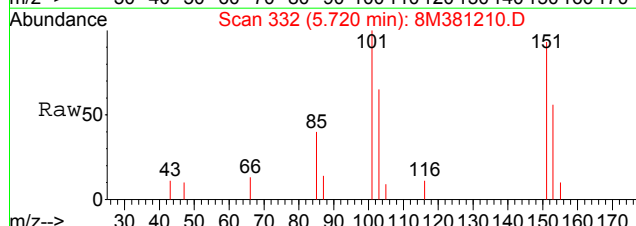
Ion	Ratio	Lower	Upper
101	100		
151	89.5	46.3	126.3





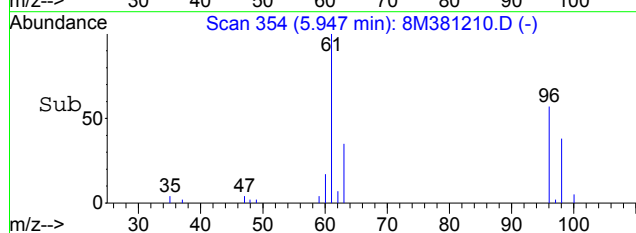
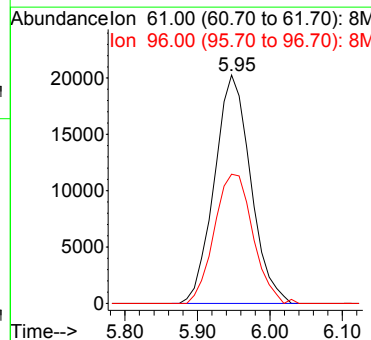
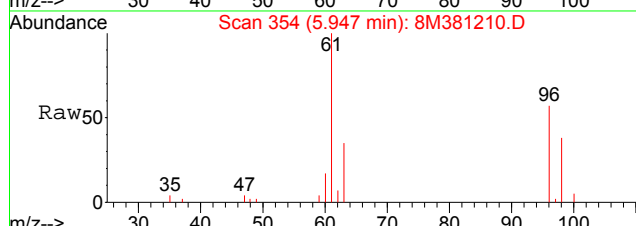
#13
 Acetone
 Concen: 1.25 ug/L
 RT: 5.72 min Scan# 332
 Delta R.T. 0.00 min
 Lab File: 8M381210.D
 Acq: 30 Jul 2012 21:14

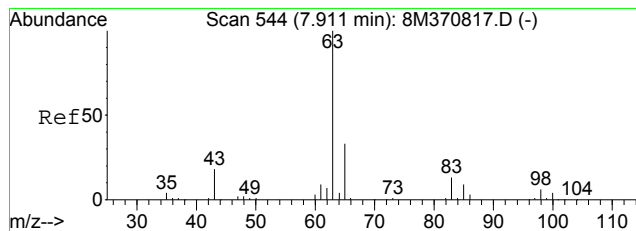
Tgt Ion: 43 Resp: 1110
 Ion Ratio Lower Upper
 43 100
 58 0.0 16.1 37.5#



#14
 1,1-Dichloroethene
 Concen: 7.58 ug/L
 RT: 5.95 min Scan# 354
 Delta R.T. 0.00 min
 Lab File: 8M381210.D
 Acq: 30 Jul 2012 21:14

Tgt Ion: 61 Resp: 70415
 Ion Ratio Lower Upper
 61 100
 96 60.0 32.8 76.4

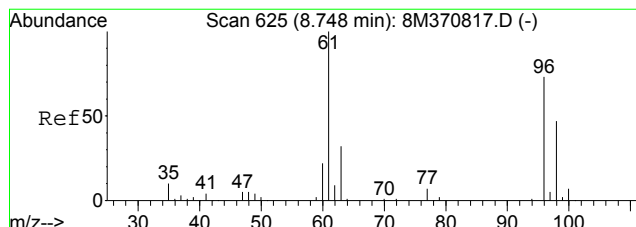
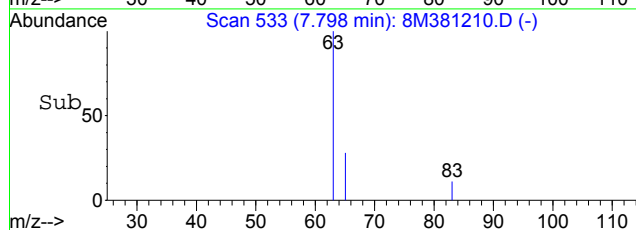
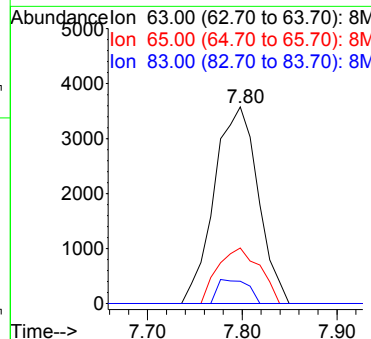
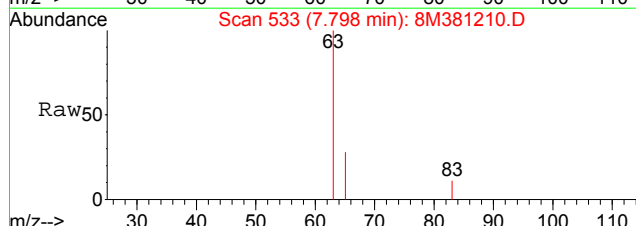




#27
 1,1-Dichloroethane
 Concen: 1.05 ug/L
 RT: 7.80 min Scan# 533
 Delta R.T. 0.00 min
 Lab File: 8M381210.D
 Acq: 30 Jul 2012 21:14

Tgt Ion: 63 Resp: 11494

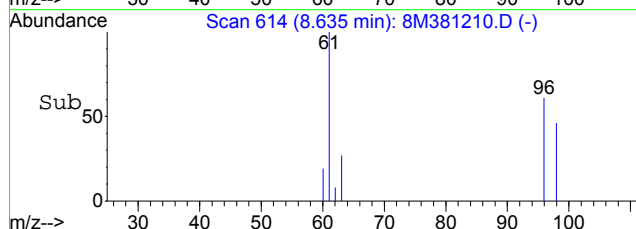
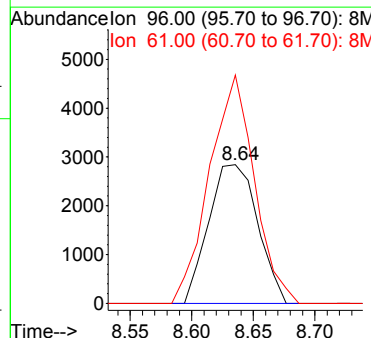
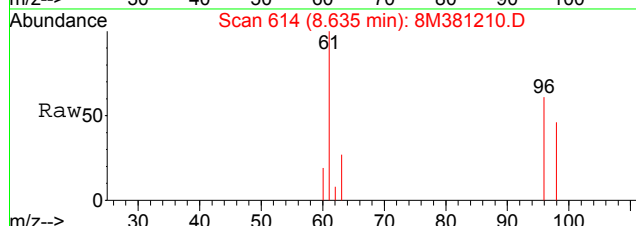
Ion	Ratio	Lower	Upper
63	100		
65	27.0	18.1	42.3
83	8.5	7.4	17.2

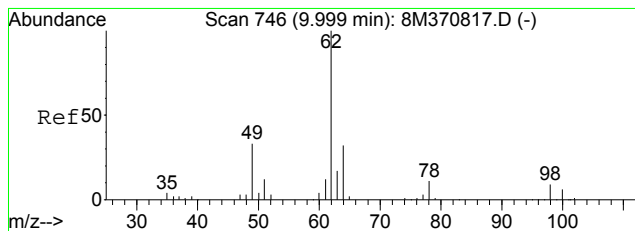


#32
 cis-1,2-Dichloroethene
 Concen: 1.32 ug/L
 RT: 8.64 min Scan# 614
 Delta R.T. 0.00 min
 Lab File: 8M381210.D
 Acq: 30 Jul 2012 21:14

Tgt Ion: 96 Resp: 7882

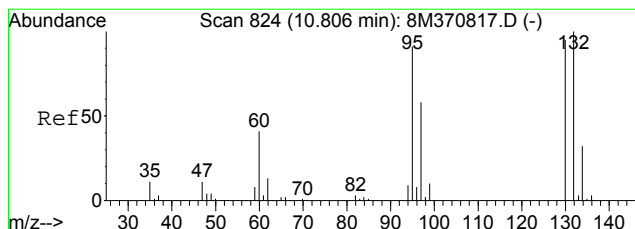
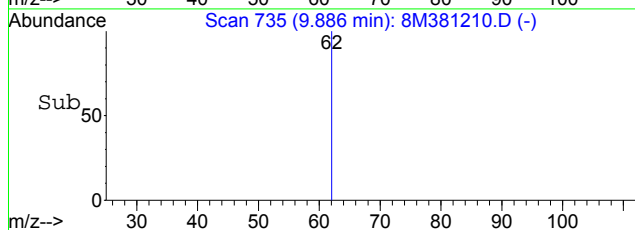
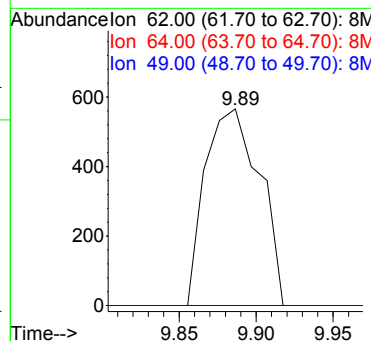
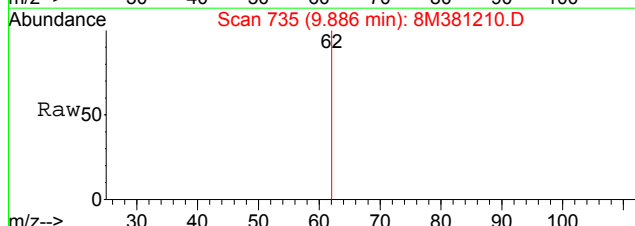
Ion	Ratio	Lower	Upper
96	100		
61	150.8	99.7	232.5





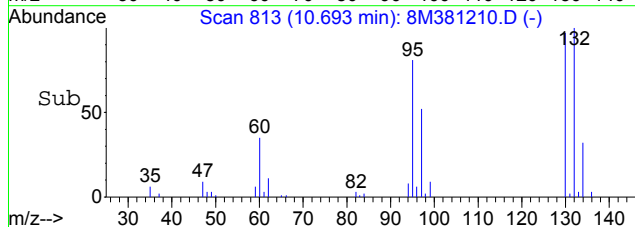
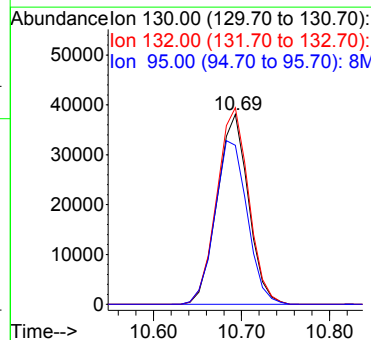
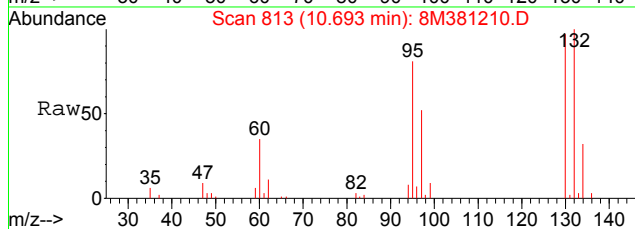
#45
 1,2-Dichloroethane
 Concen: 0.20 ug/L
 RT: 9.89 min Scan# 735
 Delta R.T. 0.00 min
 Lab File: 8M381210.D
 Acq: 30 Jul 2012 21:14

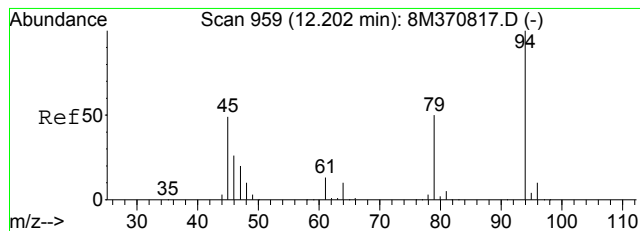
Tgt Ion	Resp	Lower	Upper
62	1395		
64	0.0	19.6	45.8#
49	0.0	23.7	55.3#



#47
 Trichloroethene
 Concen: 13.54 ug/L
 RT: 10.69 min Scan# 813
 Delta R.T. 0.00 min
 Lab File: 8M381210.D
 Acq: 30 Jul 2012 21:14

Tgt Ion	Resp	Lower	Upper
130	94125		
132	105.5	63.0	147.0
95	89.1	55.1	128.5

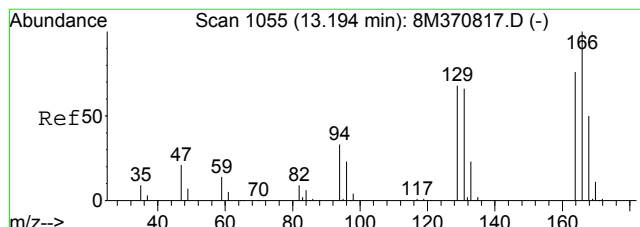
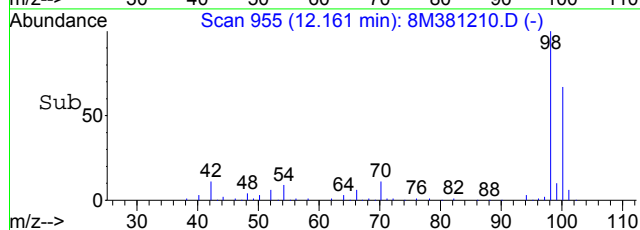
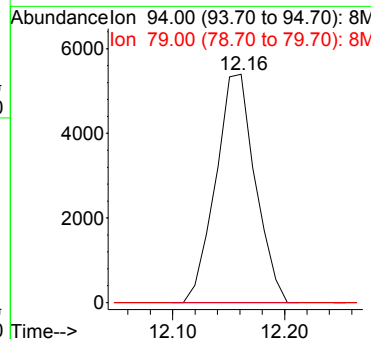
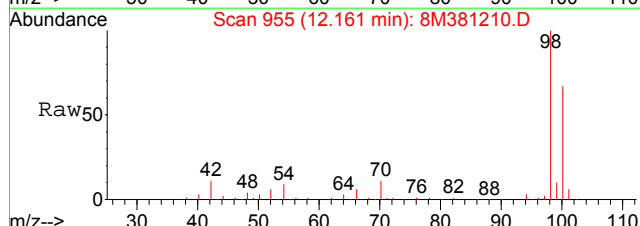




#56
 Dimethyl Disulfide
 Concen: 2.03 ug/L
 RT: 12.16 min Scan# 955
 Delta R.T. 0.08 min
 Lab File: 8M381210.D
 Acq: 30 Jul 2012 21:14

Tgt Ion: 94 Resp: 13281

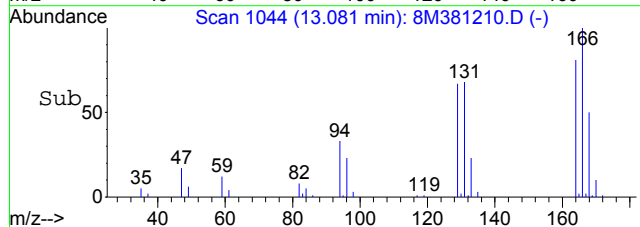
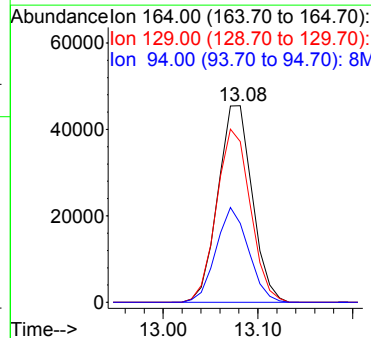
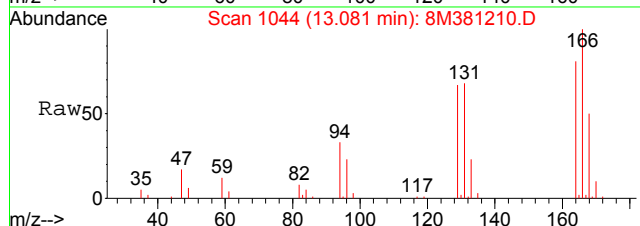
Ion	Ratio	Lower	Upper
94	100		
79	0.0	30.6	71.4#

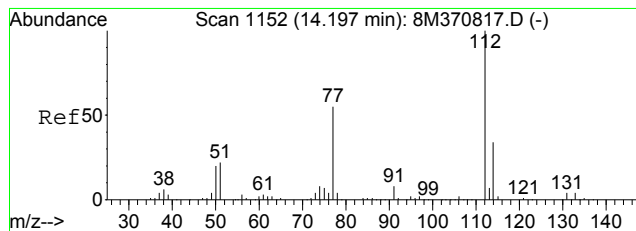


#66
 Tetrachloroethene
 Concen: 18.84 ug/L
 RT: 13.08 min Scan# 1044
 Delta R.T. 0.00 min
 Lab File: 8M381210.D
 Acq: 30 Jul 2012 21:14

Tgt Ion: 164 Resp: 114051

Ion	Ratio	Lower	Upper
164	100		
129	87.0	51.8	121.0
94	45.8	29.9	69.9

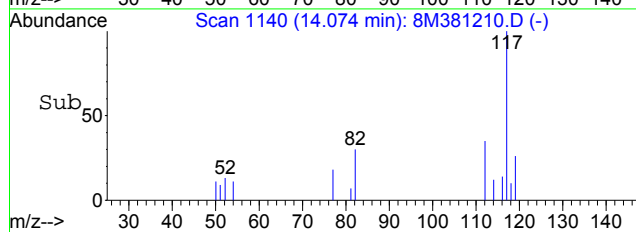
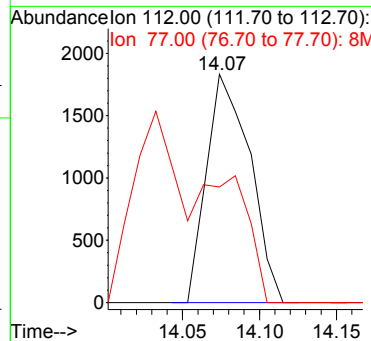
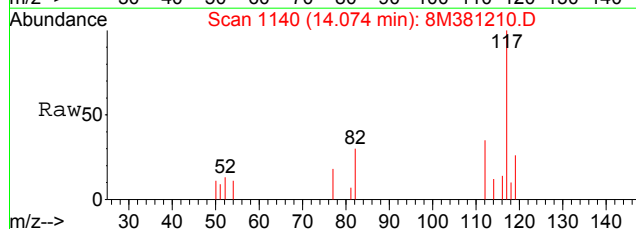




#70
 Chlorobenzene
 Concen: 0.21 ug/L
 RT: 14.07 min Scan# 1140
 Delta R.T. -0.01 min
 Lab File: 8M381210.D
 Acq: 30 Jul 2012 21:14

Tgt Ion:112 Resp: 3594

Ion	Ratio	Lower	Upper
112	100		
77	88.0	42.4	99.0



Data File : C:\MSDCHEM\1\DATA\073012\8M381211.D Vial: 23
 Acq On : 30 Jul 2012 21:43 Operator: ADC
 Sample : L12070658-36 B 826-LOW Inst : HPMS8
 Misc : 1,1 Multiplr: 1.00
 MS Integration Params: RTEINT.P
 Quant Time: Jul 31 11:39:44 2012 Quant Results File: 8260WTR.RES

Quant Method : C:\MSDCHEM\1\METHODS\8260WTR.M (RTE Integrator)
 Title : Method 8260B/624 WTR-SOP:OVLMSV01 06/28/12 HPMS 8
 Last Update : Fri Jun 29 09:29:43 2012
 Response via : Initial Calibration
 DataAcq Meth : 8260WTR

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene	10.18	96	524191	25.00	ug/L	0.00
57) Chlorobenzene-d5	14.03	117	422678	25.00	ug/L	0.00
78) 1,4-Dichlorobenzene-d4	17.04	152	231396	25.00	ug/L	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
37) Dibromofluoromethane	9.13	111	141268	25.0600	ug/L	0.00
Spiked Amount	25.000	Range 86 - 118	Recovery	=	100.24%	
43) 1,2-Dichloroethane-d4	9.77	65	113144	21.5372	ug/L	0.00
Spiked Amount	25.000	Range 80 - 120	Recovery	=	86.16%	
58) Toluene-d8	12.16	98	495932	25.6795	ug/L	0.00
Spiked Amount	25.000	Range 88 - 110	Recovery	=	102.72%	
80) p-Bromofluorobenzene	15.53	95	197025	25.6490	ug/L	0.00
Spiked Amount	25.000	Range 86 - 115	Recovery	=	102.60%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
4) Vinyl Chloride	3.43	62	26349	4.0195	ug/L	97
12) 1,1,2-Trichloro-1,2,2-Trif	5.68	101	17415	3.0703	ug/L	97
13) Acetone	5.70	43	206	0.2290	ug/L #	48
14) 1,1-Dichloroethene	5.94	61	492702	52.3070	ug/L	93
23) trans-1,2-Dichloroethene	7.19	61	3371	0.3812	ug/L	86
27) 1,1-Dichloroethane	7.80	63	55136	4.9487	ug/L	100
32) cis-1,2-Dichloroethene	8.63	96	79892	13.1667	ug/L	78
33) Chloroform	8.85	83	1959	0.1948	ug/L	78
36) Tetrahydrofuran	9.11	42	2210	2.7663	ug/L #	49
45) 1,2-Dichloroethane	9.88	62	1693	0.2408	ug/L #	50
46) Benzene	9.93	78	5175	0.2276	ug/L #	71
47) Trichloroethene	10.69	130	568297	80.6267	ug/L	99
56) Dimethyl Disulfide	12.16	94	13542	2.0415	ug/L #	27
66) Tetrachloroethene	13.08	164	125573	20.9616	ug/L	98

(#) = qualifier out of range (m) = manual integration
 8M381211.D 8260WTR.M Tue Jul 31 11:39:45 2012

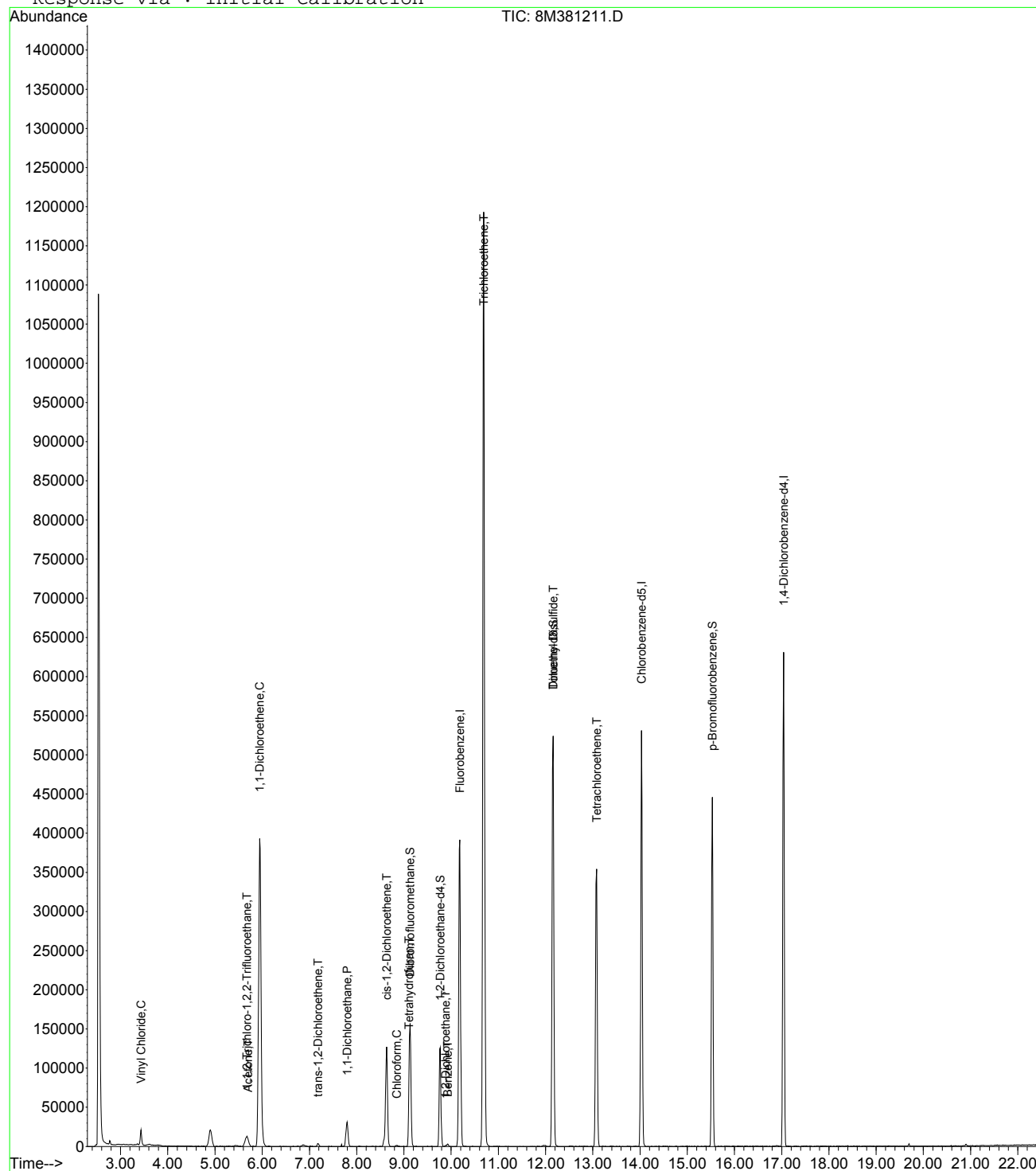
Page 1

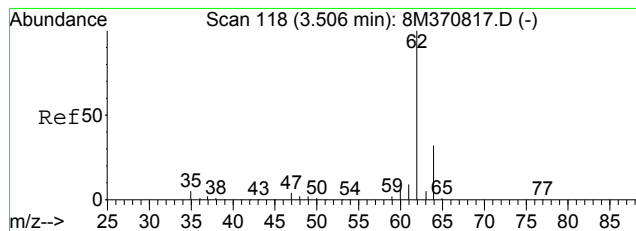
Data File : C:\MSDCHEM\1\DATA\073012\8M381211.D
 Acq On : 30 Jul 2012 21:43
 Sample : L12070658-36 B 826-LOW
 Misc : 1,1
 MS Integration Params: RTEINT.P
 Quant Time: Jul 31 11:39 2012

Vial: 23
 Operator: ADC
 Inst : HPMS8
 Multiplr: 1.00

Quant Results File: 8260WTR.RES

Method : C:\MSDCHEM\1\METHODS\8260WTR.M (RTE Integrator)
 Title : Method 8260B/624 WTR-SOP:OVLMSV01 06/28/12 HPMS 8
 Last Update : Fri Jun 29 09:29:43 2012
 Response via : Initial Calibration

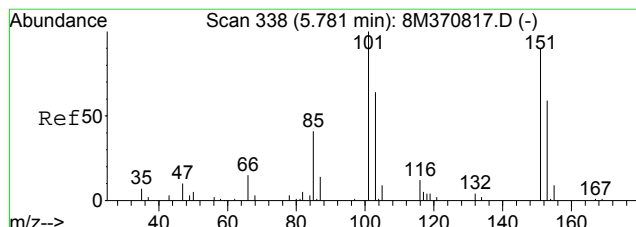
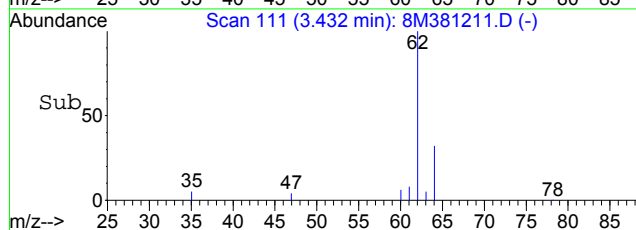
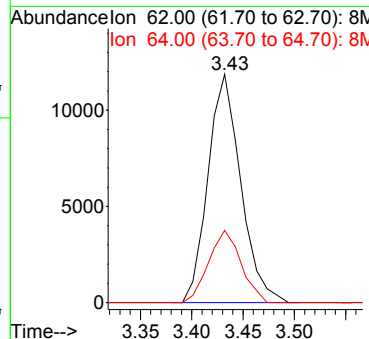
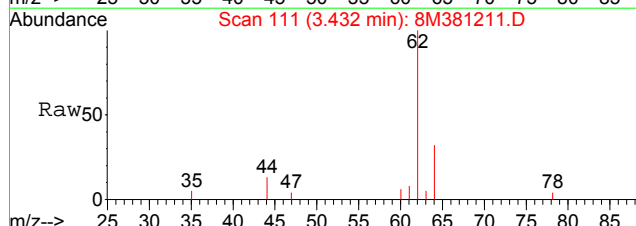




#4
 Vinyl Chloride
 Concen: 4.02 ug/L
 RT: 3.43 min Scan# 111
 Delta R.T. 0.01 min
 Lab File: 8M381211.D
 Acq: 30 Jul 2012 21:43

Tgt Ion: 62 Resp: 26349

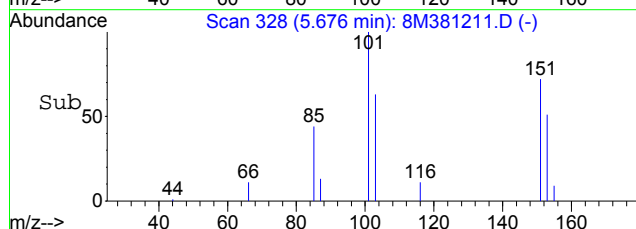
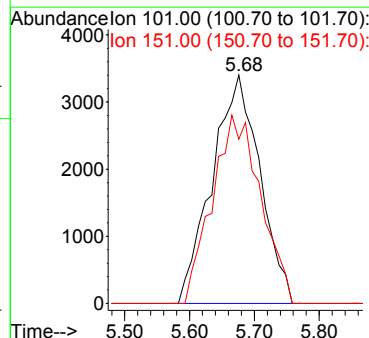
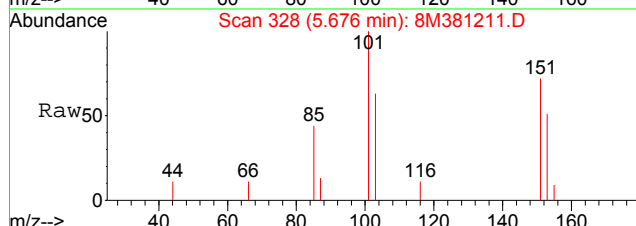
Ion	Ratio	Lower	Upper
62	100		
64	31.1	19.8	46.2

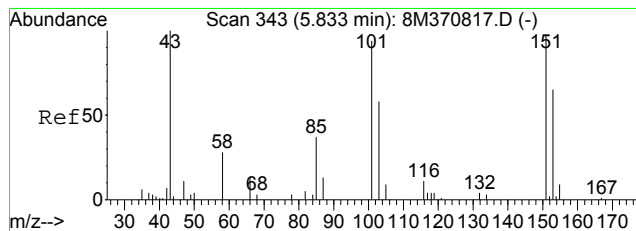


#12
 1,1,2-Trichloro-1,2,2-Trifluoroethane
 Concen: 3.07 ug/L
 RT: 5.68 min Scan# 328
 Delta R.T. 0.01 min
 Lab File: 8M381211.D
 Acq: 30 Jul 2012 21:43

Tgt Ion: 101 Resp: 17415

Ion	Ratio	Lower	Upper
101	100		
151	83.5	46.3	126.3

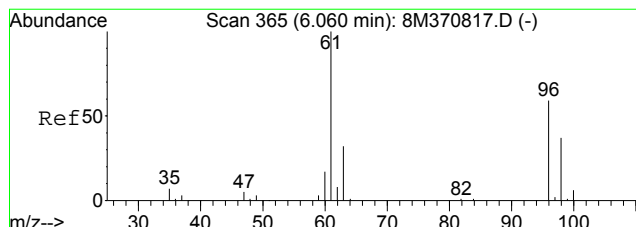
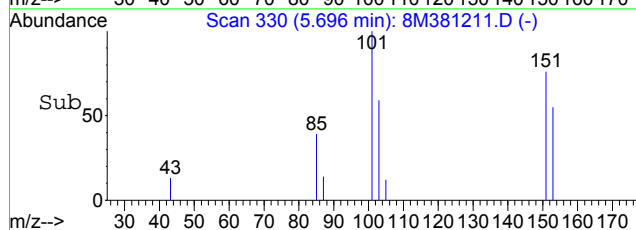
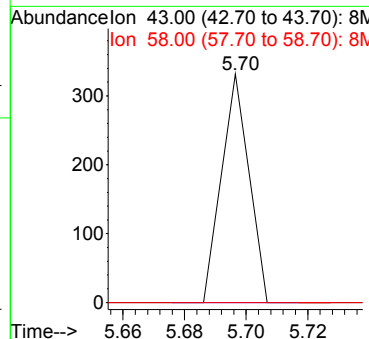
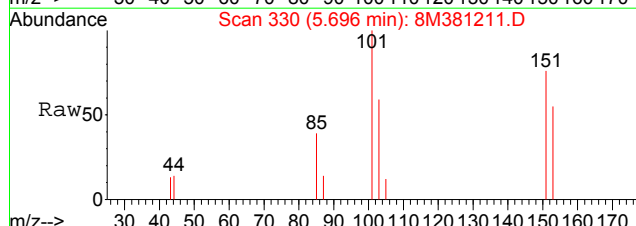




#13
 Acetone
 Concen: 0.23 ug/L
 RT: 5.70 min Scan# 330
 Delta R.T. -0.02 min
 Lab File: 8M381211.D
 Acq: 30 Jul 2012 21:43

Tgt Ion: 43 Resp: 206

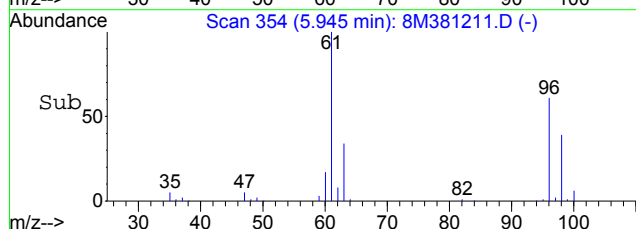
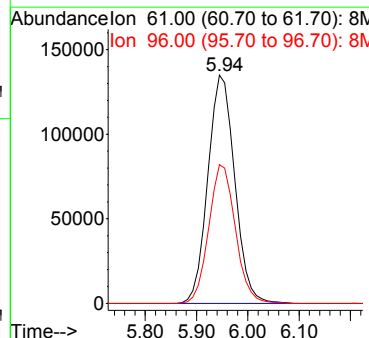
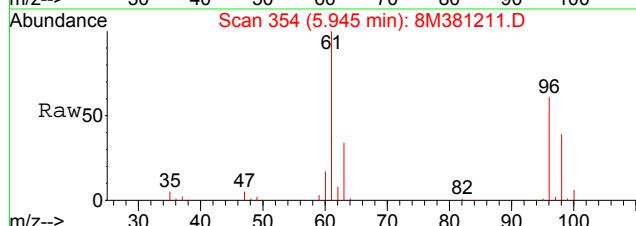
Ion	Ratio	Lower	Upper
43	100		
58	0.0	16.1	37.5#

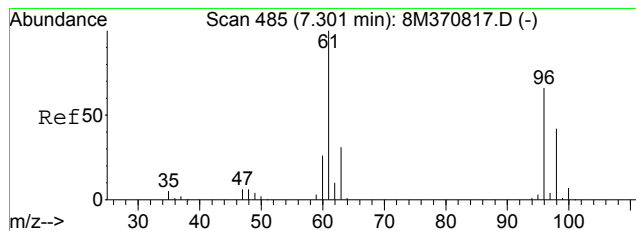


#14
 1,1-Dichloroethene
 Concen: 52.31 ug/L
 RT: 5.94 min Scan# 354
 Delta R.T. -0.00 min
 Lab File: 8M381211.D
 Acq: 30 Jul 2012 21:43

Tgt Ion: 61 Resp: 492702

Ion	Ratio	Lower	Upper
61	100		
96	60.0	32.8	76.4

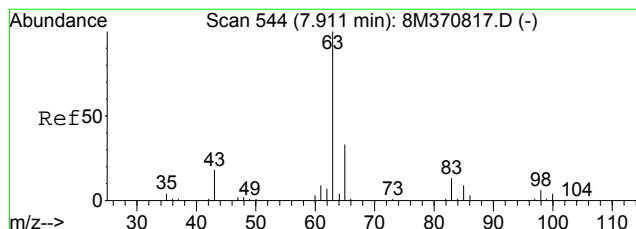
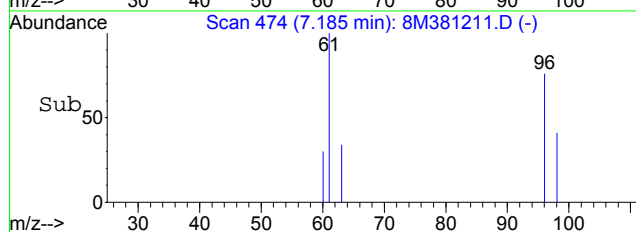
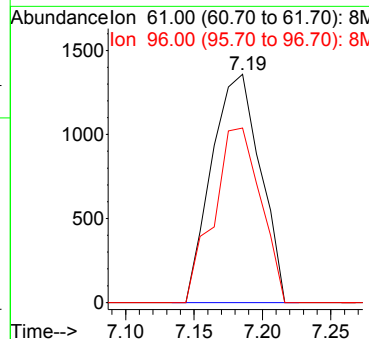
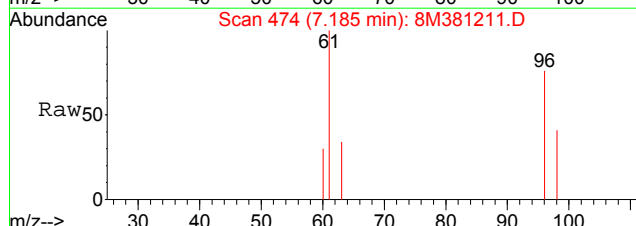




#23
 trans-1,2-Dichloroethene
 Concen: 0.38 ug/L
 RT: 7.19 min Scan# 474
 Delta R.T. 0.01 min
 Lab File: 8M381211.D
 Acq: 30 Jul 2012 21:43

Tgt Ion: 61 Resp: 3371

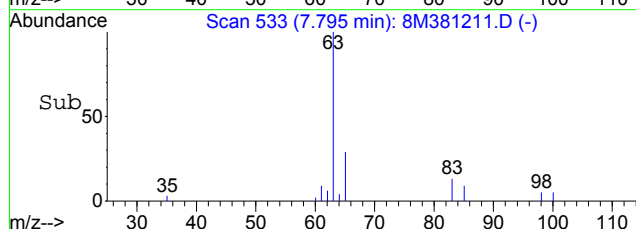
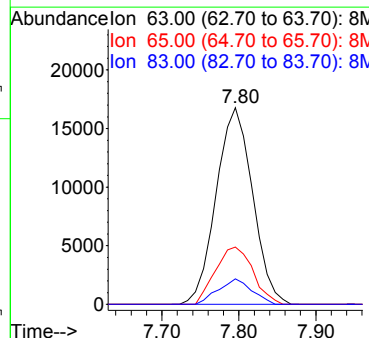
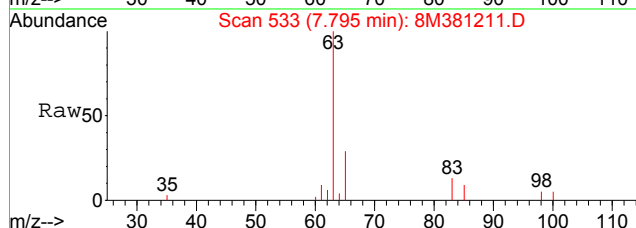
Ion	Ratio	Lower	Upper
61	100		
96	73.9	37.7	87.9

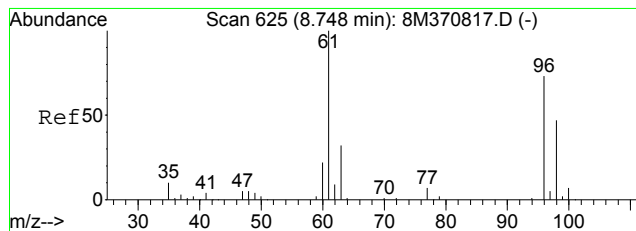


#27
 1,1-Dichloroethane
 Concen: 4.95 ug/L
 RT: 7.80 min Scan# 533
 Delta R.T. -0.00 min
 Lab File: 8M381211.D
 Acq: 30 Jul 2012 21:43

Tgt Ion: 63 Resp: 55136

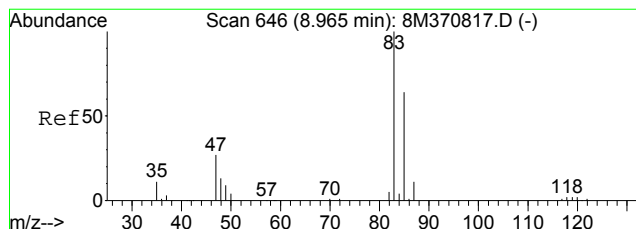
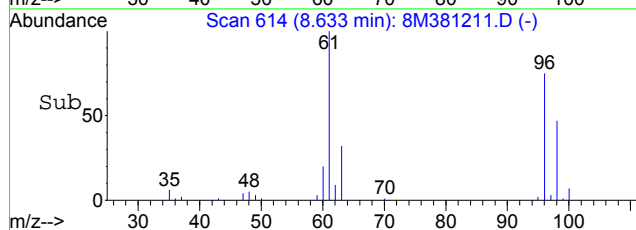
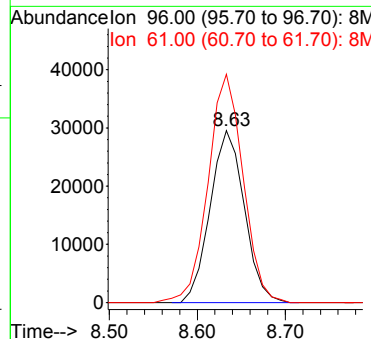
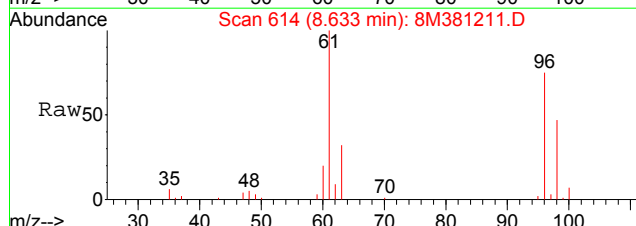
Ion	Ratio	Lower	Upper
63	100		
65	30.0	18.1	42.3
83	12.0	7.4	17.2





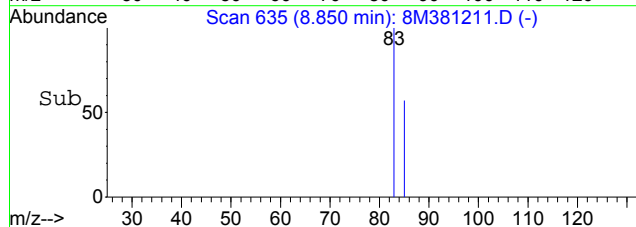
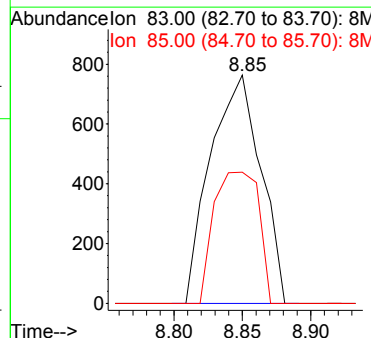
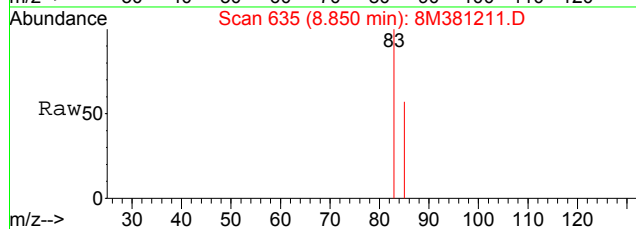
#32
 cis-1,2-Dichloroethene
 Concen: 13.17 ug/L
 RT: 8.63 min Scan# 614
 Delta R.T. -0.00 min
 Lab File: 8M381211.D
 Acq: 30 Jul 2012 21:43

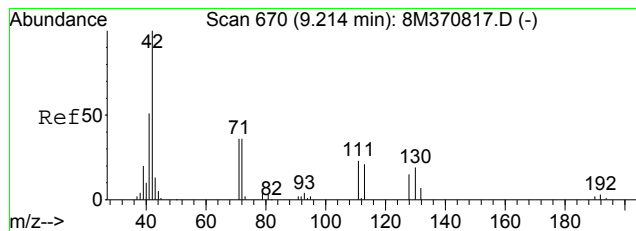
Tgt Ion: 96 Resp: 79892
 Ion Ratio Lower Upper
 96 100
 61 135.8 99.7 232.5



#33
 Chloroform
 Concen: 0.19 ug/L
 RT: 8.85 min Scan# 635
 Delta R.T. -0.00 min
 Lab File: 8M381211.D
 Acq: 30 Jul 2012 21:43

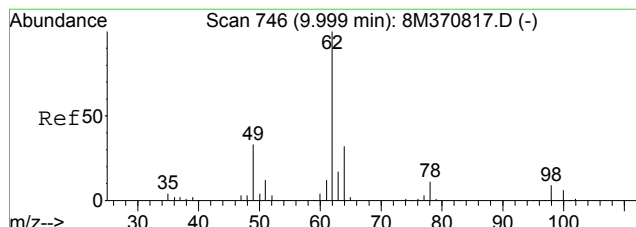
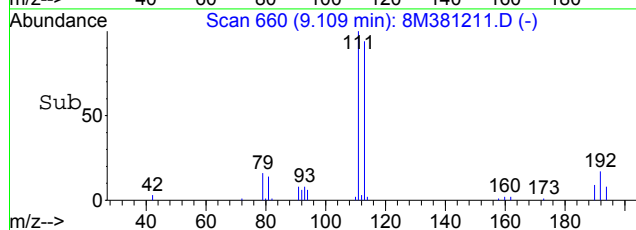
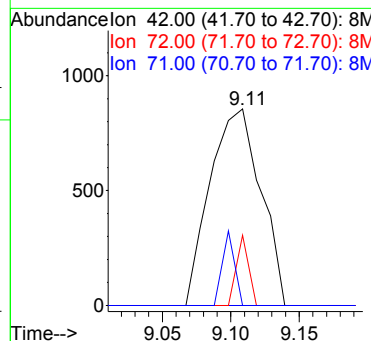
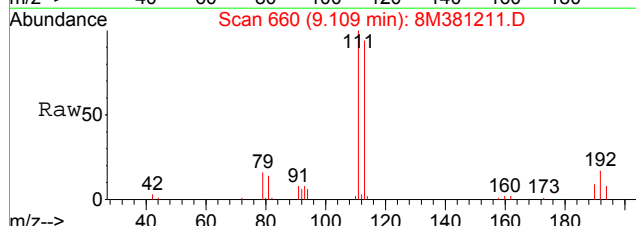
Tgt Ion: 83 Resp: 1959
 Ion Ratio Lower Upper
 83 100
 85 51.3 41.5 96.9





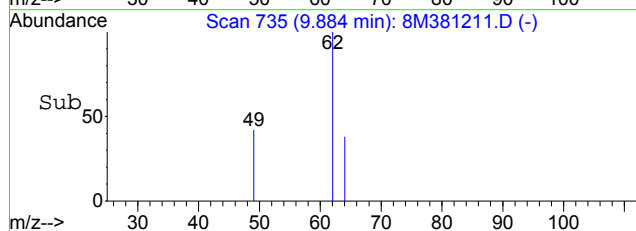
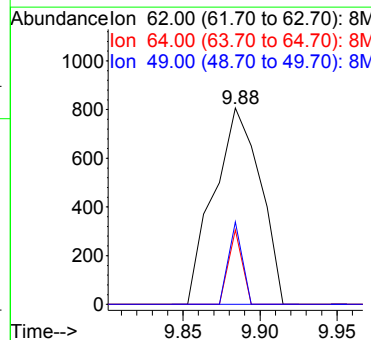
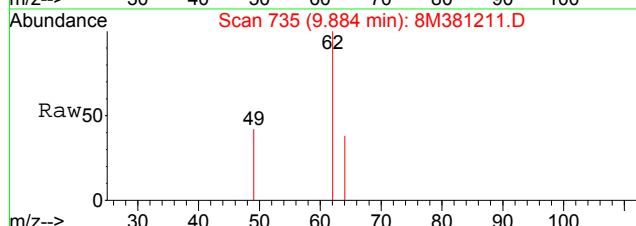
#36
 Tetrahydrofuran
 Concen: 2.77 ug/L
 RT: 9.11 min Scan# 660
 Delta R.T. 0.01 min
 Lab File: 8M381211.D
 Acq: 30 Jul 2012 21:43

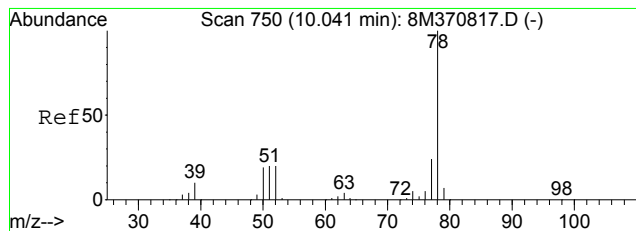
Tgt Ion	Ratio	Lower	Upper
42	100		
72	0.0	20.6	48.2#
71	9.1	19.9	46.5#



#45
 1,2-Dichloroethane
 Concen: 0.24 ug/L
 RT: 9.88 min Scan# 735
 Delta R.T. -0.00 min
 Lab File: 8M381211.D
 Acq: 30 Jul 2012 21:43

Tgt Ion	Ratio	Lower	Upper
62	100		
64	0.0	19.6	45.8#
49	12.4	23.7	55.3#

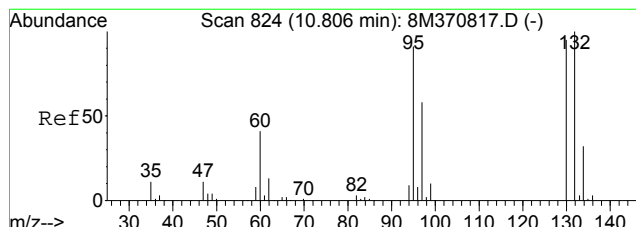
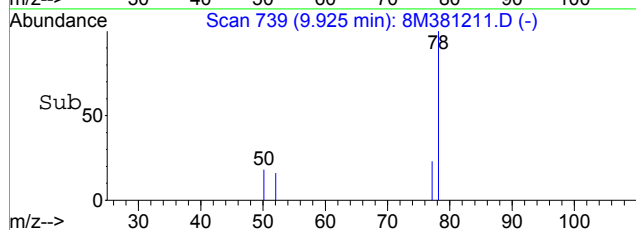
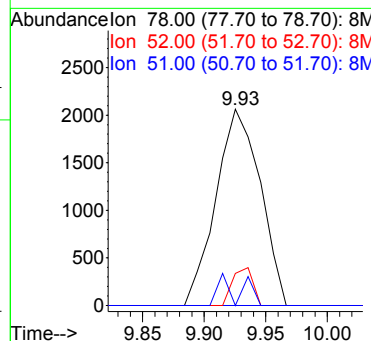
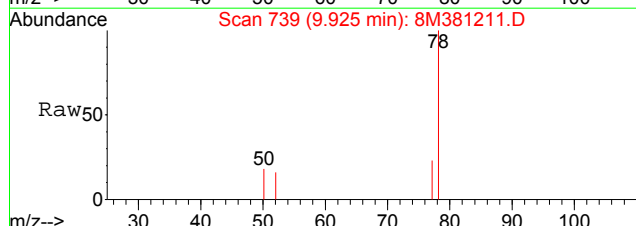




#46
Benzene
Concen: 0.23 ug/L
RT: 9.93 min Scan# 739
Delta R.T. -0.00 min
Lab File: 8M381211.D
Acq: 30 Jul 2012 21:43

Tgt Ion: 78 Resp: 5175

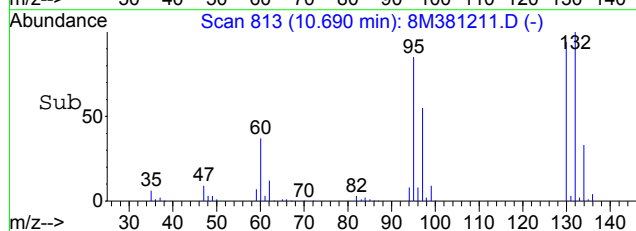
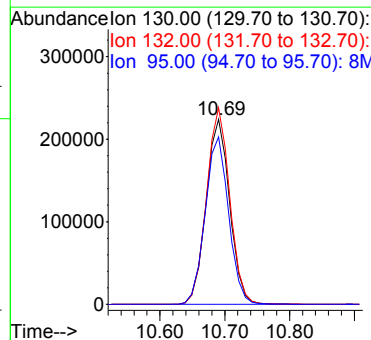
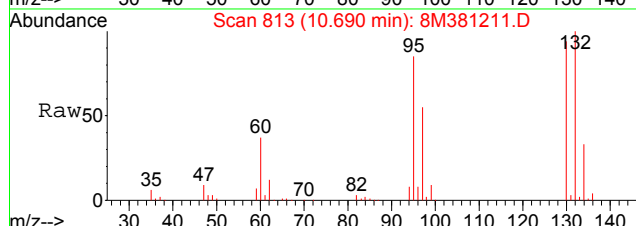
Ion	Ratio	Lower	Upper
78	100		
52	8.8	12.1	28.3#
51	7.7	14.3	33.5#

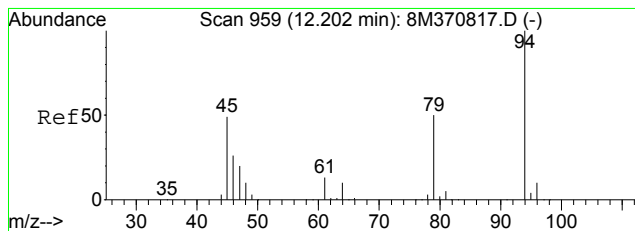


#47
Trichloroethene
Concen: 80.63 ug/L
RT: 10.69 min Scan# 813
Delta R.T. -0.00 min
Lab File: 8M381211.D
Acq: 30 Jul 2012 21:43

Tgt Ion: 130 Resp: 568297

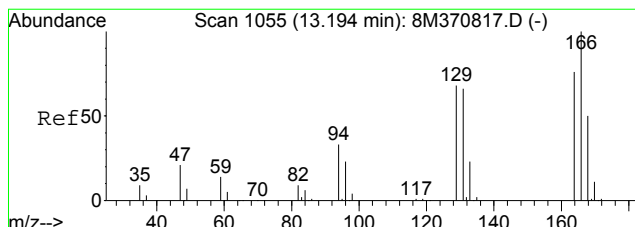
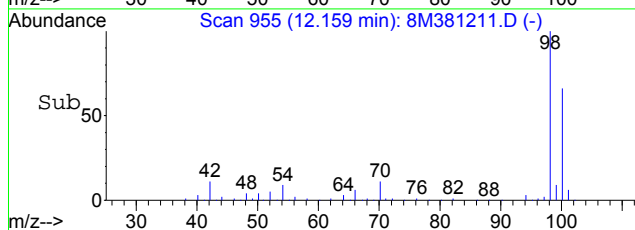
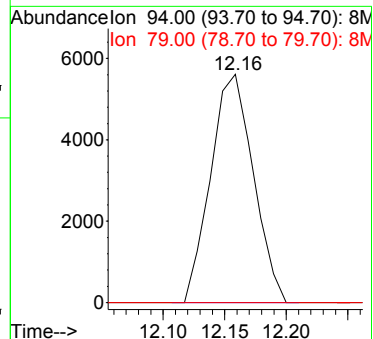
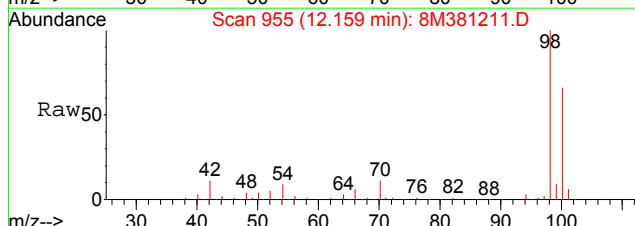
Ion	Ratio	Lower	Upper
130	100		
132	105.1	63.0	147.0
95	89.9	55.1	128.5





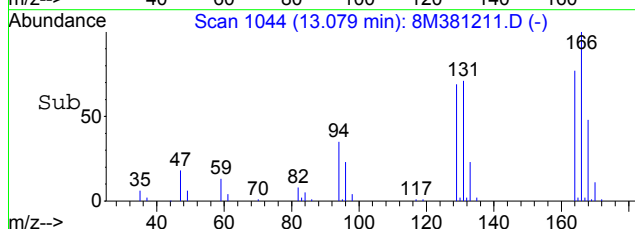
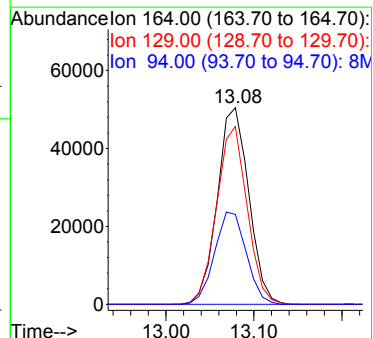
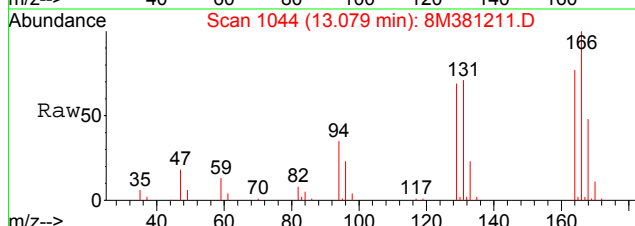
#56
 Dimethyl Disulfide
 Concen: 2.04 ug/L
 RT: 12.16 min Scan# 955
 Delta R.T. 0.07 min
 Lab File: 8M381211.D
 Acq: 30 Jul 2012 21:43

Tgt Ion: 94 Resp: 13542
 Ion Ratio Lower Upper
 94 100
 79 0.0 30.6 71.4#



#66
 Tetrachloroethene
 Concen: 20.96 ug/L
 RT: 13.08 min Scan# 1044
 Delta R.T. -0.00 min
 Lab File: 8M381211.D
 Acq: 30 Jul 2012 21:43

Tgt Ion:164 Resp: 125573
 Ion Ratio Lower Upper
 164 100
 129 87.9 51.8 121.0
 94 47.3 29.9 69.9



Data File : C:\MSDCHEM\1\DATA\073012\8M381212.D Vial: 24
 Acq On : 30 Jul 2012 22:14 Operator: ADC
 Sample : L12070658-37 B 826-LOW Inst : HPMS8
 Misc : 1,1 Multiplr: 1.00
 MS Integration Params: RTEINT.P
 Quant Time: Jul 31 11:39:52 2012 Quant Results File: 8260WTR.RES

Quant Method : C:\MSDCHEM\1\METHODS\8260WTR.M (RTE Integrator)
 Title : Method 8260B/624 WTR-SOP:OVLMSV01 06/28/12 HPMS 8
 Last Update : Fri Jun 29 09:29:43 2012
 Response via : Initial Calibration
 DataAcq Meth : 8260WTR

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene	10.18	96	518306	25.00	ug/L	0.00
57) Chlorobenzene-d5	14.03	117	425711	25.00	ug/L	0.00
78) 1,4-Dichlorobenzene-d4	17.04	152	231732	25.00	ug/L	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
37) Dibromofluoromethane	9.13	111	138416	24.8329	ug/L	0.00
Spiked Amount 25.000	Range	86 - 118	Recovery	=	99.32%	
43) 1,2-Dichloroethane-d4	9.77	65	113565	21.8628	ug/L	0.00
Spiked Amount 25.000	Range	80 - 120	Recovery	=	87.44%	
58) Toluene-d8	12.16	98	499284	25.6689	ug/L	0.00
Spiked Amount 25.000	Range	88 - 110	Recovery	=	102.68%	
80) p-Bromofluorobenzene	15.53	95	197012	25.6101	ug/L	0.00
Spiked Amount 25.000	Range	86 - 115	Recovery	=	102.44%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
56) Dimethyl Disulfide	12.16	94	13646	2.0667	ug/L	# 27

 (#) = qualifier out of range (m) = manual integration
 8M381212.D 8260WTR.M Tue Jul 31 11:39:52 2012

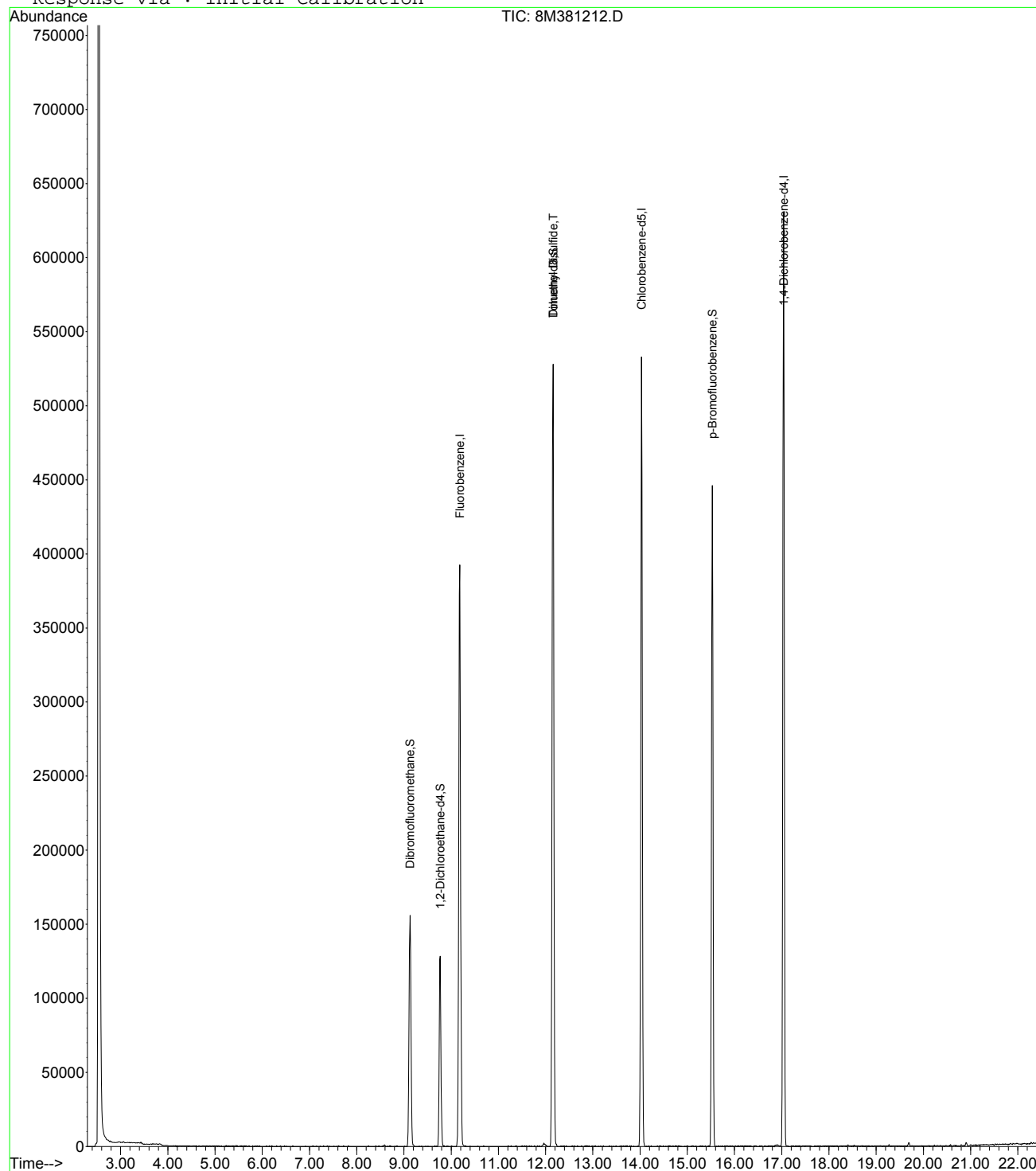
Page 1

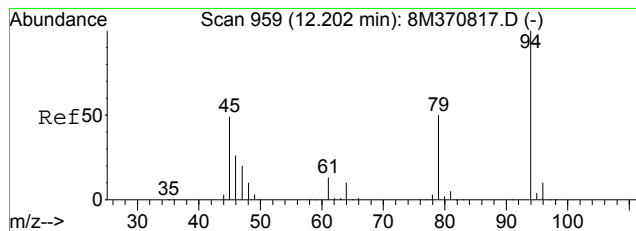
Data File : C:\MSDCHEM\1\DATA\073012\8M381212.D
 Acq On : 30 Jul 2012 22:14
 Sample : L12070658-37 B 826-LOW
 Misc : 1,1
 MS Integration Params: RTEINT.P
 Quant Time: Jul 31 11:39 2012

Vial: 24
 Operator: ADC
 Inst : HPMS8
 Multiplr: 1.00

Quant Results File: 8260WTR.RES

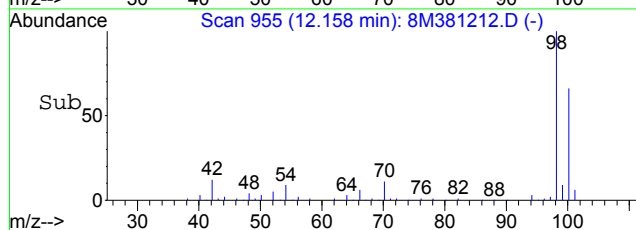
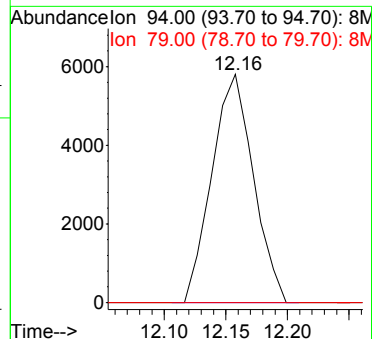
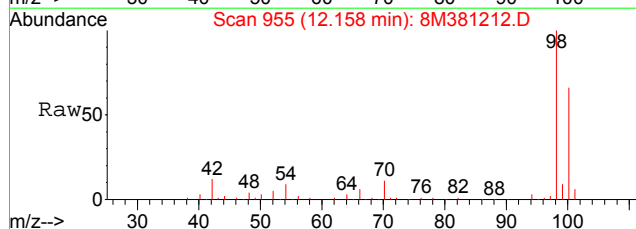
Method : C:\MSDCHEM\1\METHODS\8260WTR.M (RTE Integrator)
 Title : Method 8260B/624 WTR-SOP:OVLMSV01 06/28/12 HPMS 8
 Last Update : Fri Jun 29 09:29:43 2012
 Response via : Initial Calibration





#56
 Dimethyl Disulfide
 Concen: 2.07 ug/L
 RT: 12.16 min Scan# 955
 Delta R.T. 0.07 min
 Lab File: 8M381212.D
 Acq: 30 Jul 2012 22:14

Tgt Ion: 94 Resp: 13646
 Ion Ratio Lower Upper
 94 100
 79 0.0 30.6 71.4#



2.1.1.4 Standards Data

Data File : C:\MSDCHEM\1\DATA\011012\10M92451.D Vial: 2
 Acq On : 10 Jan 2012 12:37 Operator: TMB
 Sample : WG386582-02 5ug/L A9 STD 8260 Inst : HPMS10
 Misc : 1,1 STD49290 Multiplr: 1.00
 MS Integration Params: rteint.p
 Quant Time: Jan 12 11:29:39 2012 Quant Results File: A9FOOWT.RES

Quant Method : C:\MSDCHEM\1\METHODS\A9FOOWT.M (RTE Integrator)
 Title : FOO/APPIX/BUTADIENE WT SOP: OVL MSV01 01/10/12
 Last Update : Wed Jan 11 08:27:34 2012
 Response via : Initial Calibration
 DataAcq Meth : 8260WT

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene	10.27	96	679310	25.00	ug/L	0.00
8) Chlorobenzene-d5	13.90	117	509257	25.00	ug/L	-0.01
12) 1,4-Dichlorobenzene-d4	16.71	152	250550	25.00	ug/L	0.00

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Acetonitrile	6.43	41	2514	3.98	ug/L #	30
3) 3-Chloro-1-propene	6.80	41	50138	4.40	ug/L #	79
4) 2-Chloro-1,3-butadiene	8.13	53	55949	4.47	ug/L	94
5) Ethyl Acetate	8.74	43	18159	3.91	ug/L	96
6) Methacrylonitrile	8.90	67	8576	6.52	ug/L	87
10) Methyl methacrylate	10.94	41	18039	6.69	ug/L	96
13) Cyclohexanone	15.09	55	1005	3.73	ug/L #	48

(#) = qualifier out of range (m) = manual integration
 10M92451.D A9FOOWT.M Thu Jan 12 11:42:16 2012

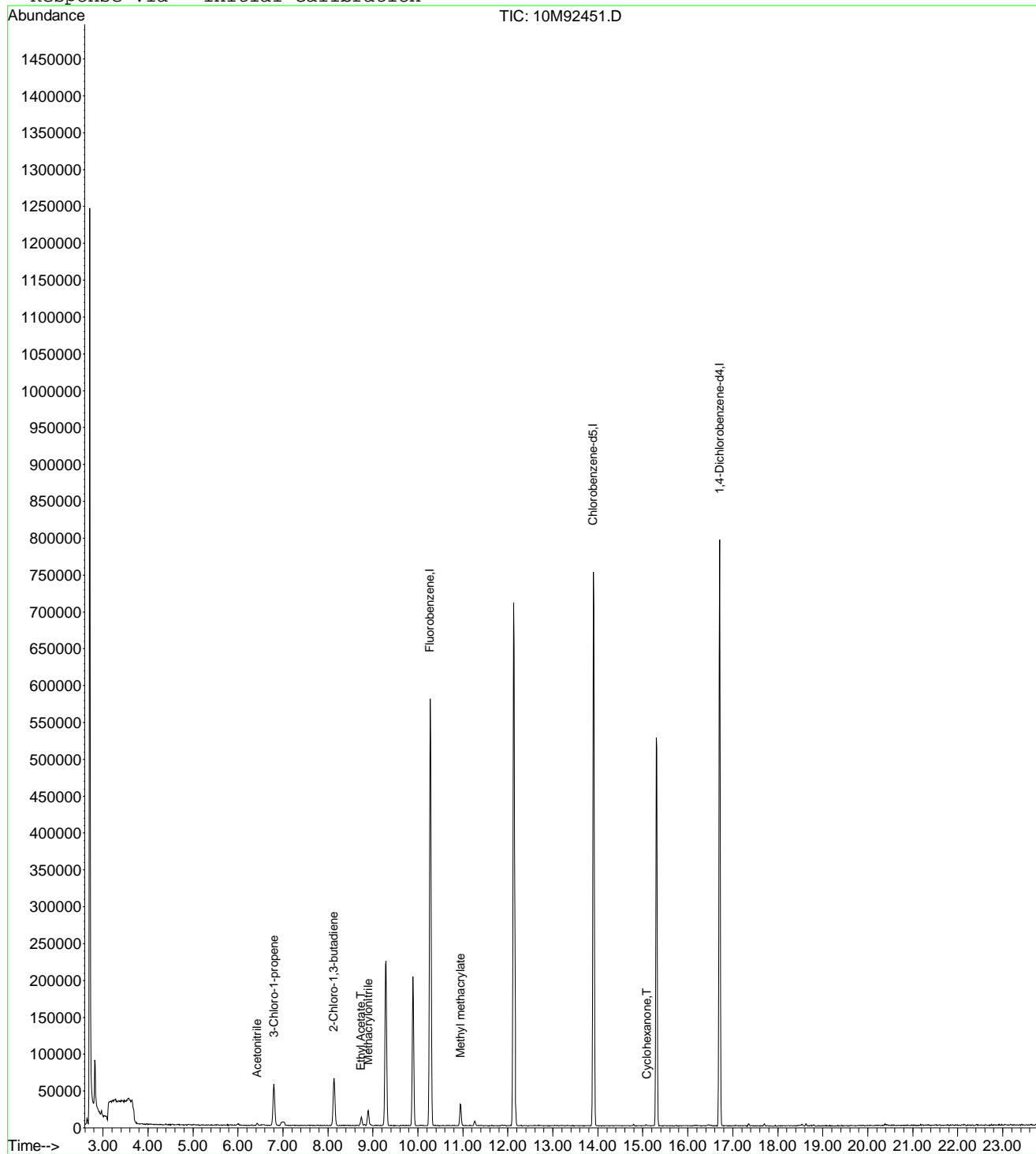


Data File : C:\MSDCHEM\1\DATA\011012\10M92451.D
 Acq On : 10 Jan 2012 12:37
 Sample : WG386582-02 5ug/L A9 STD 8260
 Misc : 1,1 STD49290
 MS Integration Params: rteint.p
 Quant Time: Jan 12 11:42 2012

Vial: 2
 Operator: TMB
 Inst : HPMS10
 Multiplr: 1.00

Quant Results File: A9FOOWT.RES

Method : C:\MSDCHEM\1\METHODS\A9FOOWT.M (RTE Integrator)
 Title : FOO/APPIX/BUTADIENE WT SOP: OVL MSV01 01/10/12
 Last Update : Wed Jan 11 08:27:34 2012
 Response via : Initial Calibration



10M92451.D A9FOOWT.M Thu Jan 12 11:42:17 2012

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Data File : C:\MSDCHEM\1\DATA\011012\10M92452.D Vial: 3
 Acq On : 10 Jan 2012 13:10 Operator: TMB
 Sample : WG386582-03 20ug/L A9 STD 8260 Inst : HPMS10
 Misc : 1,1 STD49290 Multiplr: 1.00
 MS Integration Params: rteint.p
 Quant Time: Jan 12 11:31:31 2012 Quant Results File: A9FOOWT.RES

Quant Method : C:\MSDCHEM\1\METHODS\A9FOOWT.M (RTE Integrator)
 Title : FOO/APPIX/BUTADIENE WT SOP: OVL MSV01 01/10/12
 Last Update : Wed Jan 11 08:27:34 2012
 Response via : Initial Calibration
 DataAcq Meth : 8260WT

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene	10.27	96	646442	25.00	ug/L	0.00
8) Chlorobenzene-d5	13.90	117	490416	25.00	ug/L	0.00
12) 1,4-Dichlorobenzene-d4	16.71	152	247277	25.00	ug/L	0.00
						Qvalue
Target Compounds						
2) Acetonitrile	6.43	41	10823	18.02	ug/L #	70
3) 3-Chloro-1-propene	6.80	41	201644	18.60	ug/L	95
4) 2-Chloro-1,3-butadiene	8.13	53	211912	17.78	ug/L	97
5) Ethyl Acetate	8.74	43	78044	17.68	ug/L	98
6) Methacrylonitrile	8.90	67	40025	18.47	ug/L	94
9) 1-Butanol	9.78	56	1593	26.34	ug/L #	50
10) Methyl methacrylate	10.94	41	84578	18.51	ug/L	98
11) 2-Nitropropane	11.27	43	28822	16.36	ug/L	93
13) Cyclohexanone	15.08	55	5347	20.09	ug/L	96

(#) = qualifier out of range (m) = manual integration
 10M92452.D A9FOOWT.M Thu Jan 12 11:42:50 2012



Data File : C:\MSDCHEM\1\DATA\011012\10M92452.D

Vial: 3

Acq On : 10 Jan 2012 13:10

Operator: TMB

Sample : WG386582-03 20ug/L A9 STD 8260

Inst : HPMS10

Misc : 1,1 STD49290

Multiplr: 1.00

MS Integration Params: rteint.p

Quant Time: Jan 12 11:42 2012

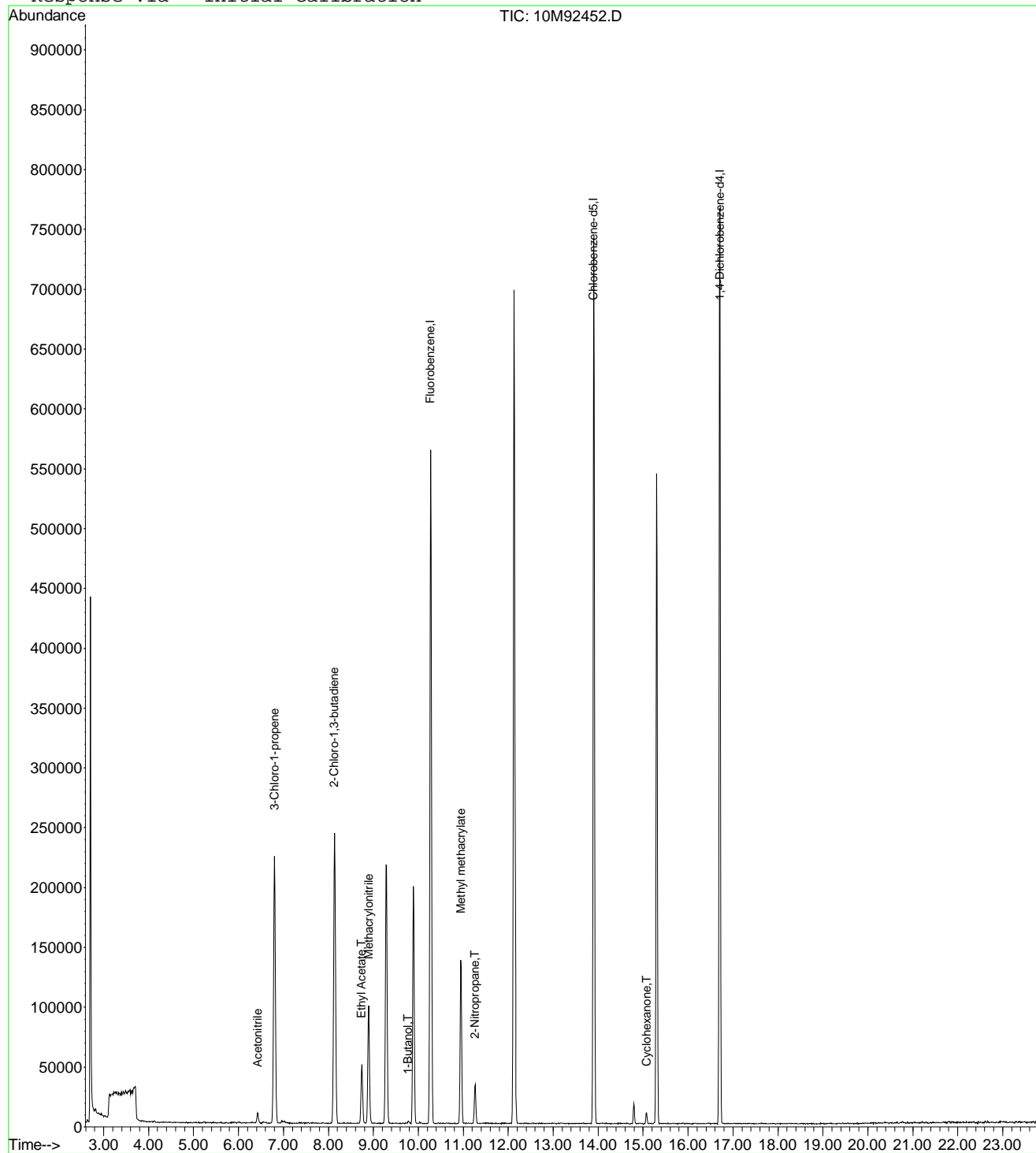
Quant Results File: A9FOOWT.RES

Method : C:\MSDCHEM\1\METHODS\A9FOOWT.M (RTE Integrator)

Title : FOO/APPIX/BUTADIENE WT SOP: OVL MSV01 01/10/12

Last Update : Wed Jan 11 08:27:34 2012

Response via : Initial Calibration



10M92452.D A9FOOWT.M

Thu Jan 12 11:42:50 2012

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Data File : C:\MSDCHEM\1\DATA\011012\10M92453.D Vial: 4
 Acq On : 10 Jan 2012 13:44 Operator: TMB
 Sample : WG386582-04 50ug/L A9 STD 8260 Inst : HPMS10
 Misc : 1,1 STD49290 Multiplr: 1.00
 MS Integration Params: rteint.p
 Quant Time: Jan 12 11:31:44 2012 Quant Results File: A9FOOWT.RES

Quant Method : C:\MSDCHEM\1\METHODS\A9FOOWT.M (RTE Integrator)
 Title : FOO/APPIX/BUTADIENE WT SOP: OVL MSV01 01/10/12
 Last Update : Wed Jan 11 08:27:34 2012
 Response via : Initial Calibration
 DataAcq Meth : 8260WT

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene	10.27	96	628489	25.00	ug/L	0.00
8) Chlorobenzene-d5	13.90	117	486984	25.00	ug/L	0.00
12) 1,4-Dichlorobenzene-d4	16.71	152	248792	25.00	ug/L	0.00
						Qvalue
Target Compounds						
2) Acetonitrile	6.43	41	27676	47.41	ug/L	98
3) 3-Chloro-1-propene	6.80	41	497289	47.17	ug/L	96
4) 2-Chloro-1,3-butadiene	8.13	53	536308	46.29	ug/L	97
5) Ethyl Acetate	8.74	43	206517	48.12	ug/L	100
6) Methacrylonitrile	8.90	67	106491	44.55	ug/L	89
9) 1-Butanol	9.78	56	3700	41.49	ug/L	80
10) Methyl methacrylate	10.94	41	222797	43.11	ug/L	99
11) 2-Nitropropane	11.26	43	75943	43.41	ug/L	91
13) Cyclohexanone	15.08	55	13844	51.69	ug/L	95

(#) = qualifier out of range (m) = manual integration
 10M92453.D A9FOOWT.M Thu Jan 12 11:43:13 2012

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Data File : C:\MSDCHEM\1\DATA\011012\10M92453.D

Vial: 4

Acq On : 10 Jan 2012 13:44

Operator: TMB

Sample : WG386582-04 50ug/L A9 STD 8260

Inst : HPMS10

Misc : 1,1 STD49290

Multiplr: 1.00

MS Integration Params: rteint.p

Quant Time: Jan 12 11:43 2012

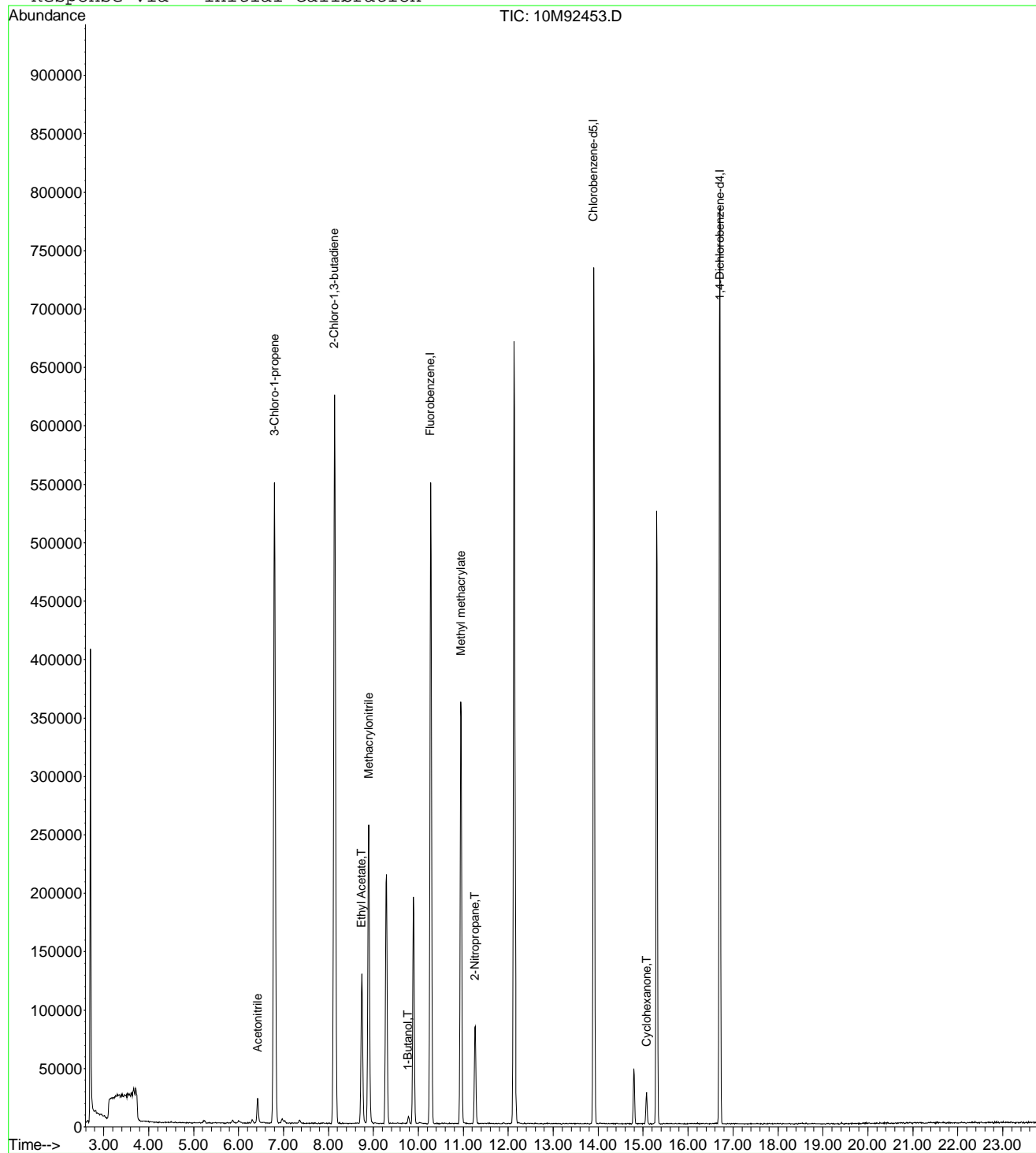
Quant Results File: A9FOOWT.RES

Method : C:\MSDCHEM\1\METHODS\A9FOOWT.M (RTE Integrator)

Title : FOO/APPIX/BUTADIENE WT SOP: OVL MSV01 01/10/12

Last Update : Wed Jan 11 08:27:34 2012

Response via : Initial Calibration



10M92453.D A9FOOWT.M

Thu Jan 12 11:43:13 2012

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Data File : C:\MSDCHEM\1\DATA\011012\10M92454.D Vial: 5
 Acq On : 10 Jan 2012 14:19 Operator: TMB
 Sample : WG386582-05 100ug/L A9 STD 8260 Inst : HPMS10
 Misc : 1,1 STD49290 Multiplr: 1.00
 MS Integration Params: rteint.p
 Quant Time: Jan 12 11:31:54 2012 Quant Results File: A9FOOWT.RES

Quant Method : C:\MSDCHEM\1\METHODS\A9FOOWT.M (RTE Integrator)
 Title : FOO/APPIX/BUTADIENE WT SOP: OVL MSV01 01/10/12
 Last Update : Wed Jan 11 08:27:34 2012
 Response via : Initial Calibration
 DataAcq Meth : 8260WT

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene	10.27	96	619078	25.00	ug/L	0.00
8) Chlorobenzene-d5	13.90	117	474731	25.00	ug/L	0.00
12) 1,4-Dichlorobenzene-d4	16.71	152	239835	25.00	ug/L	0.00
						Qvalue
Target Compounds	6.43	41	58343	101.46	ug/L	97
2) Acetonitrile	6.80	41	1021374	98.35	ug/L	95
3) 3-Chloro-1-propene	8.13	53	1124377	98.53	ug/L	98
4) 2-Chloro-1,3-butadiene	8.74	43	421342	99.66	ug/L	98
5) Ethyl Acetate	8.90	67	219242	89.35	ug/L	92
6) Methacrylonitrile	8.90	43	39713	84.17	ug/L	96
7) Isobutyl Alcohol	9.78	56	10128	89.34	ug/L #	64
9) 1-Butanol	10.95	41	467156	88.56	ug/L	98
10) Methyl methacrylate	11.26	43	159339	93.43	ug/L	94
11) 2-Nitropropane	15.08	55	29229	113.21	ug/L	93
13) Cyclohexanone						

(#) = qualifier out of range (m) = manual integration
 10M92454.D A9FOOWT.M Thu Jan 12 11:43:34 2012

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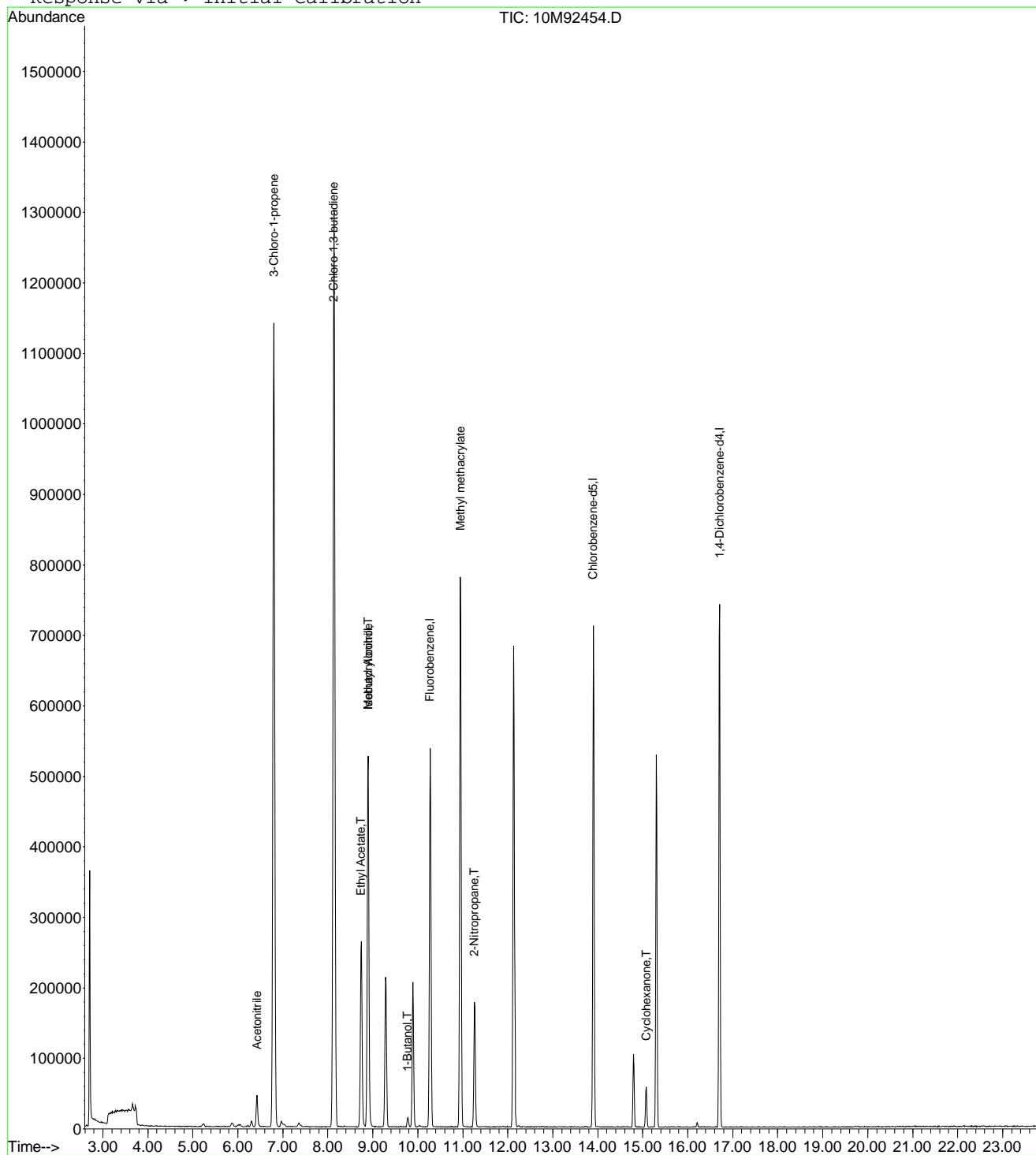


Data File : C:\MSDCHEM\1\DATA\011012\10M92454.D
 Acq On : 10 Jan 2012 14:19
 Sample : WG386582-05 100ug/L A9 STD 8260
 Misc : 1,1 STD49290
 MS Integration Params: rteint.p
 Quant Time: Jan 12 11:31 2012

Vial: 5
 Operator: TMB
 Inst : HPMS10
 Multiplr: 1.00

Quant Results File: A9FOOWT.RES

Method : C:\MSDCHEM\1\METHODS\A9FOOWT.M (RTE Integrator)
 Title : FOO/APPIX/BUTADIENE WT SOP: OVL MSV01 01/10/12
 Last Update : Wed Jan 11 08:27:34 2012
 Response via : Initial Calibration



10M92454.D A9FOOWT.M

Thu Jan 12 11:43:34 2012

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Data File : C:\MSDCHEM\1\DATA\011012\10M92455.D Vial: 6
 Acq On : 10 Jan 2012 14:54 Operator: TMB
 Sample : WG386582-06 200ug/L A9 STD 8260 Inst : HPMS10
 Misc : 1,1 STD49290 Multiplr: 1.00
 MS Integration Params: rteint.p
 Quant Time: Jan 12 11:43:45 2012 Quant Results File: A9FOOWT.RES

Quant Method : C:\MSDCHEM\1\METHODS\A9FOOWT.M (RTE Integrator)
 Title : FOO/APPIX/BUTADIENE WT SOP: OVL MSV01 01/10/12
 Last Update : Thu Jan 12 11:43:37 2012
 Response via : Initial Calibration
 DataAcq Meth : 8260WT

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene	10.27	96	630066	25.00	ug/L	0.00
8) Chlorobenzene-d5	13.90	117	483481	25.00	ug/L	0.00
12) 1,4-Dichlorobenzene-d4	16.71	152	248224	25.00	ug/L	0.00

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Acetonitrile	6.43	41	123999	211.87	ug/L	98
3) 3-Chloro-1-propene	6.80	41	2190952	207.30	ug/L	95
4) 2-Chloro-1,3-butadiene	8.13	53	2401982	206.81	ug/L	96
5) Ethyl Acetate	8.74	43	901870	209.60	ug/L	97
6) Methacrylonitrile	8.90	67	475826	186.62	ug/L	94
7) Isobutyl Alcohol	8.90	43	88060	183.37	ug/L #	97
9) 1-Butanol	9.78	56	22965	180.48	ug/L #	65
10) Methyl methacrylate	10.95	41	1025843	186.75	ug/L	98
11) 2-Nitropropane	11.26	43	356294	205.13	ug/L	96
13) Cyclohexanone	15.08	55	57380	214.73	ug/L	93

(#) = qualifier out of range (m) = manual integration
 10M92455.D A9FOOWT.M Thu Jan 12 11:43:45 2012

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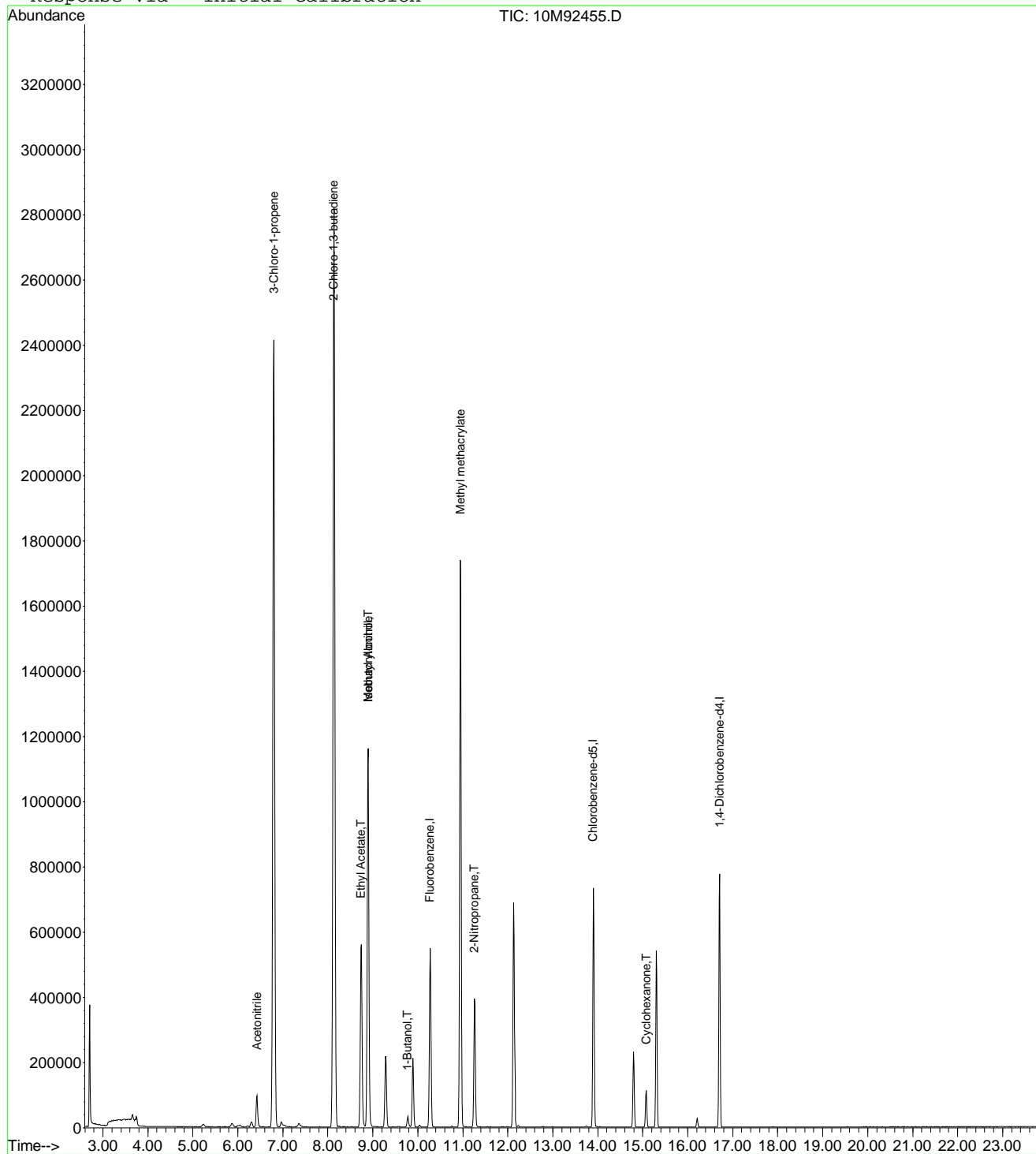


Data File : C:\MSDCHEM\1\DATA\011012\10M92455.D
 Acq On : 10 Jan 2012 14:54
 Sample : WG386582-06 200ug/L A9 STD 8260
 Misc : 1,1 STD49290
 MS Integration Params: rteint.p
 Quant Time: Jan 12 11:43 2012

Vial: 6
 Operator: TMB
 Inst : HPMS10
 Multiplr: 1.00

Quant Results File: A9FOOWT.RES

Method : C:\MSDCHEM\1\METHODS\A9FOOWT.M (RTE Integrator)
 Title : FOO/APPIX/BUTADIENE WT SOP: OVL MSV01 01/10/12
 Last Update : Thu Jan 12 11:43:37 2012
 Response via : Initial Calibration



10M92455.D A9FOOWT.M

Thu Jan 12 11:43:45 2012

Page 2



Data File : C:\MSDCHEM\1\DATA\011012\10M92456.D Vial: 7
 Acq On : 10 Jan 2012 15:29 Operator: TMB
 Sample : WG386582-07 300ug/L A9 STD 8260 Inst : HPMS10
 Misc : 1,1 STD49290 Multiplr: 1.00
 MS Integration Params: rteint.p
 Quant Time: Jan 12 11:43:53 2012 Quant Results File: A9FOOWT.RES

Quant Method : C:\MSDCHEM\1\METHODS\A9FOOWT.M (RTE Integrator)
 Title : FOO/APPIX/BUTADIENE WT SOP: OVL MSV01 01/10/12
 Last Update : Thu Jan 12 11:43:37 2012
 Response via : Initial Calibration
 DataAcq Meth : 8260WT

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene	10.28	96	626310	25.00	ug/L	0.00
8) Chlorobenzene-d5	13.90	117	481401	25.00	ug/L	0.00
12) 1,4-Dichlorobenzene-d4	16.71	152	248120	25.00	ug/L	0.00

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Acetonitrile	6.43	41	186470	320.53	ug/L	99
3) 3-Chloro-1-propene	6.79	41	3317891	315.81	ug/L	95
4) 2-Chloro-1,3-butadiene	8.13	53	3667938	317.71	ug/L	96
5) Ethyl Acetate	8.74	43	1386419	324.15	ug/L	98
6) Methacrylonitrile	8.89	67	749135	293.56	ug/L	91
7) Isobutyl Alcohol	8.90	43	142372	298.25	ug/L #	98
9) 1-Butanol	9.78	56	37437	285.92	ug/L #	66
10) Methyl methacrylate	10.95	41	1593624	289.34	ug/L	97
11) 2-Nitropropane	11.26	43	552797	319.63	ug/L	96
13) Cyclohexanone	15.08	55	83608	313.02	ug/L	93

(#) = qualifier out of range (m) = manual integration
 10M92456.D A9FOOWT.M Thu Jan 12 11:43:54 2012

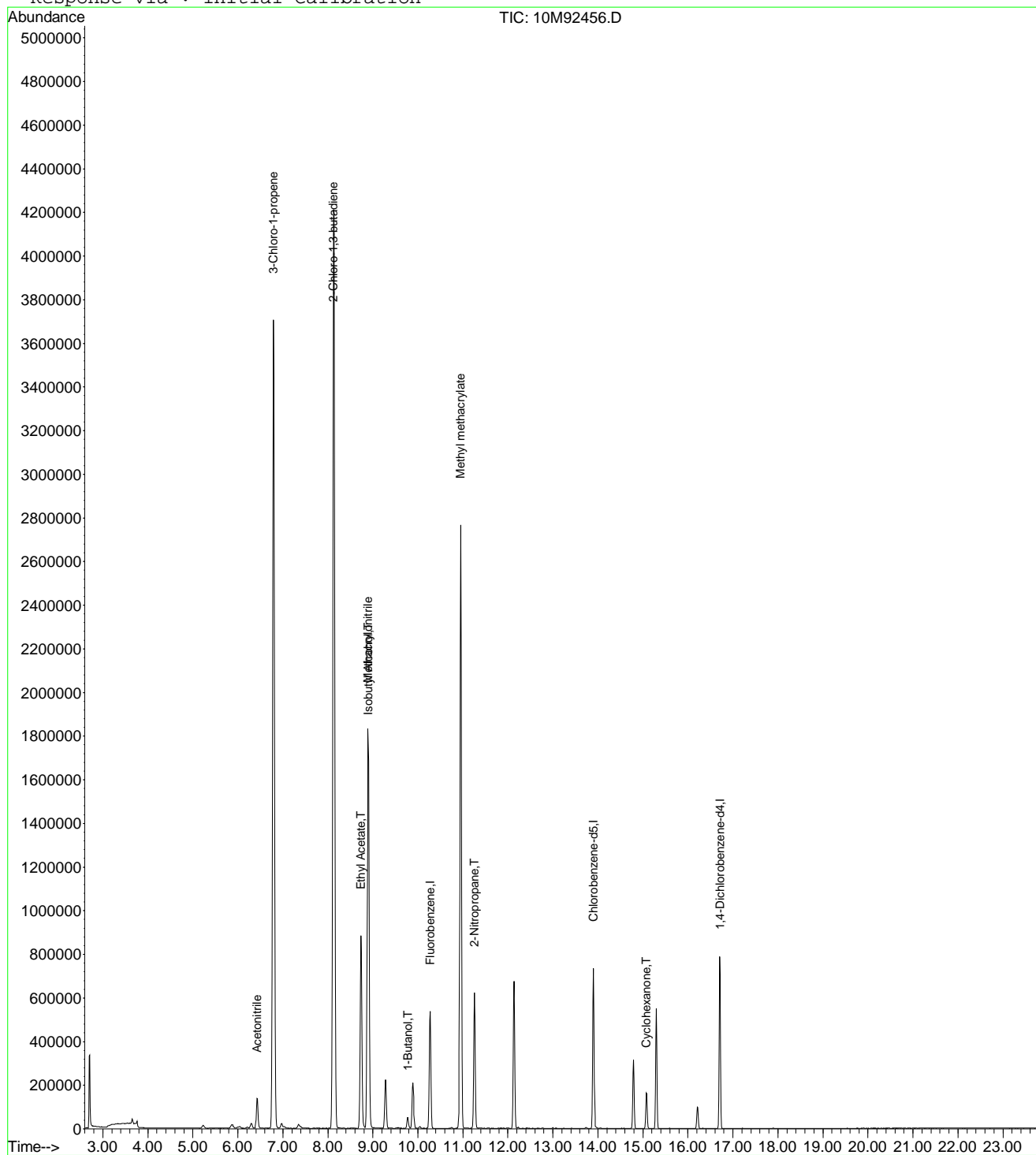


Data File : C:\MSDCHEM\1\DATA\011012\10M92456.D
 Acq On : 10 Jan 2012 15:29
 Sample : WG386582-07 300ug/L A9 STD 8260
 Misc : 1,1 STD49290
 MS Integration Params: rteint.p
 Quant Time: Jan 12 11:43 2012

Vial: 7
 Operator: TMB
 Inst : HPMS10
 Multiplr: 1.00

Quant Results File: A9FOOWT.RES

Method : C:\MSDCHEM\1\METHODS\A9FOOWT.M (RTE Integrator)
 Title : FOO/APPIX/BUTADIENE WT SOP: OVL MSV01 01/10/12
 Last Update : Thu Jan 12 11:43:37 2012
 Response via : Initial Calibration



10M92456.D A9FOOWT.M

Thu Jan 12 11:43:54 2012

Page 2



Data File : C:\MSDCHEM\1\DATA\011012\10M92457.D Vial: 8
 Acq On : 10 Jan 2012 16:05 Operator: TMB
 Sample : WG386582-08 400ug/L A9 STD 8260 Inst : HPMS10
 Misc : 1,1 STD49290 Multiplr: 1.00
 MS Integration Params: rteint.p
 Quant Time: Jan 12 11:44:02 2012 Quant Results File: A9FOOWT.RES

Quant Method : C:\MSDCHEM\1\METHODS\A9FOOWT.M (RTE Integrator)
 Title : FOO/APPIX/BUTADIENE WT SOP: OVL MSV01 01/10/12
 Last Update : Thu Jan 12 11:43:37 2012
 Response via : Initial Calibration
 DataAcq Meth : 8260WT

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene	10.27	96	622891	25.00	ug/L	0.00
8) Chlorobenzene-d5	13.90	117	465838	25.00	ug/L	0.00
12) 1,4-Dichlorobenzene-d4	16.71	152	252683	25.00	ug/L	0.00

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Acetonitrile	6.43	41	256163	442.74	ug/L	98
3) 3-Chloro-1-propene	6.79	41	4524415	433.02	ug/L	95
4) 2-Chloro-1,3-butadiene	8.13	53	5072841	441.81	ug/L	96
5) Ethyl Acetate	8.73	43	1904398	447.70	ug/L	98
6) Methacrylonitrile	8.90	67	1045011	410.36	ug/L	90
7) Isobutyl Alcohol	8.90	43	208816	439.84	ug/L #	96
9) 1-Butanol	9.78	56	54563	423.03	ug/L #	62
10) Methyl methacrylate	10.94	41	2214091	413.84	ug/L	96
11) 2-Nitropropane	11.25	43	765691	457.52	ug/L	96
13) Cyclohexanone	15.08	55	108192	397.74	ug/L	92

(#) = qualifier out of range (m) = manual integration
 10M92457.D A9FOOWT.M Thu Jan 12 11:44:03 2012

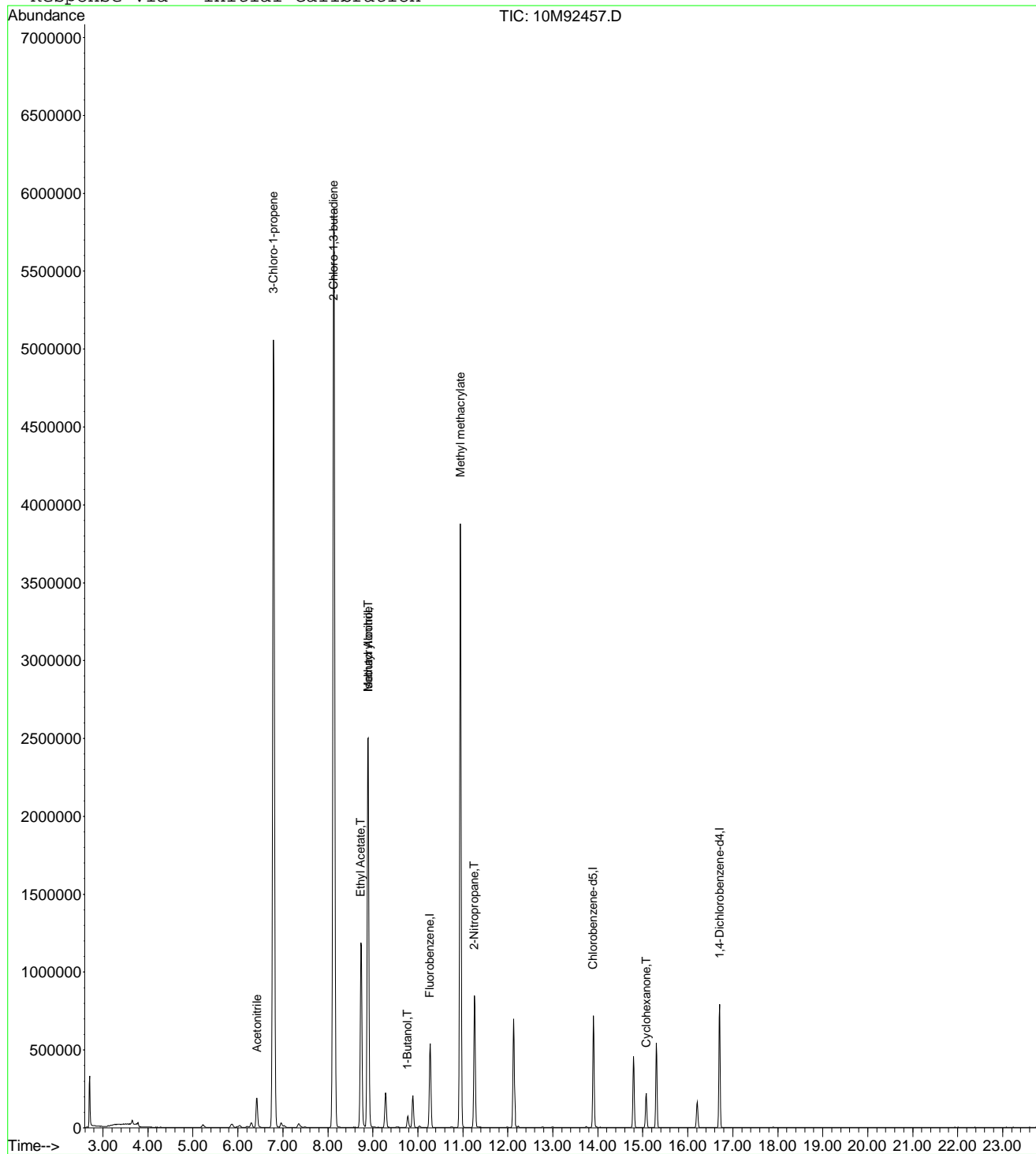


Data File : C:\MSDCHEM\1\DATA\011012\10M92457.D
 Acq On : 10 Jan 2012 16:05
 Sample : WG386582-08 400ug/L A9 STD 8260
 Misc : 1,1 STD49290
 MS Integration Params: rteint.p
 Quant Time: Jan 12 11:44 2012

Vial: 8
 Operator: TMB
 Inst : HPMS10
 Multiplr: 1.00

Quant Results File: A9FOOWT.RES

Method : C:\MSDCHEM\1\METHODS\A9FOOWT.M (RTE Integrator)
 Title : FOO/APPIX/BUTADIENE WT SOP: OVL MSV01 01/10/12
 Last Update : Thu Jan 12 11:43:37 2012
 Response via : Initial Calibration



10M92457.D A9FOOWT.M

Thu Jan 12 11:44:03 2012

Page 2



Data File : C:\MSDCHEM\1\DATA\011012\10M92458.D Vial: 9
 Acq On : 10 Jan 2012 16:42 Operator: TMB
 Sample : WG386582-09 500ug/L A9 STD 8260 Inst : HPMS10
 Misc : 1,1 STD49290 Multiplr: 1.00
 MS Integration Params: rteint.p
 Quant Time: Jan 12 11:44:11 2012 Quant Results File: A9FOOWT.RES

Quant Method : C:\MSDCHEM\1\METHODS\A9FOOWT.M (RTE Integrator)
 Title : FOO/APPIX/BUTADIENE WT SOP: OVL MSV01 01/10/12
 Last Update : Thu Jan 12 11:43:37 2012
 Response via : Initial Calibration
 DataAcq Meth : 8260WT

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene	10.27	96	626353	25.00	ug/L	0.00
8) Chlorobenzene-d5	13.90	117	472667	25.00	ug/L	0.00
12) 1,4-Dichlorobenzene-d4	16.71	152	252826	25.00	ug/L	0.00

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Acetonitrile	6.43	41	321307	552.26	ug/L	99
3) 3-Chloro-1-propene	6.79	41	5734229	545.77	ug/L	94
4) 2-Chloro-1,3-butadiene	8.12	53	6399309	554.25	ug/L	94
5) Ethyl Acetate	8.73	43	2409201	563.24	ug/L	98
6) Methacrylonitrile	8.90	67	1348397	525.58	ug/L	90
7) Isobutyl Alcohol	8.90	43	273949	573.85	ug/L #	96
9) 1-Butanol	9.78	56	68981	523.40	ug/L #	63
10) Methyl methacrylate	10.94	41	2872844	528.20	ug/L	97
11) 2-Nitropropane	11.25	43	971929	572.37	ug/L	97
13) Cyclohexanone	15.08	55	132424	486.55	ug/L	90

(#) = qualifier out of range (m) = manual integration
 10M92458.D A9FOOWT.M Thu Jan 12 11:44:12 2012

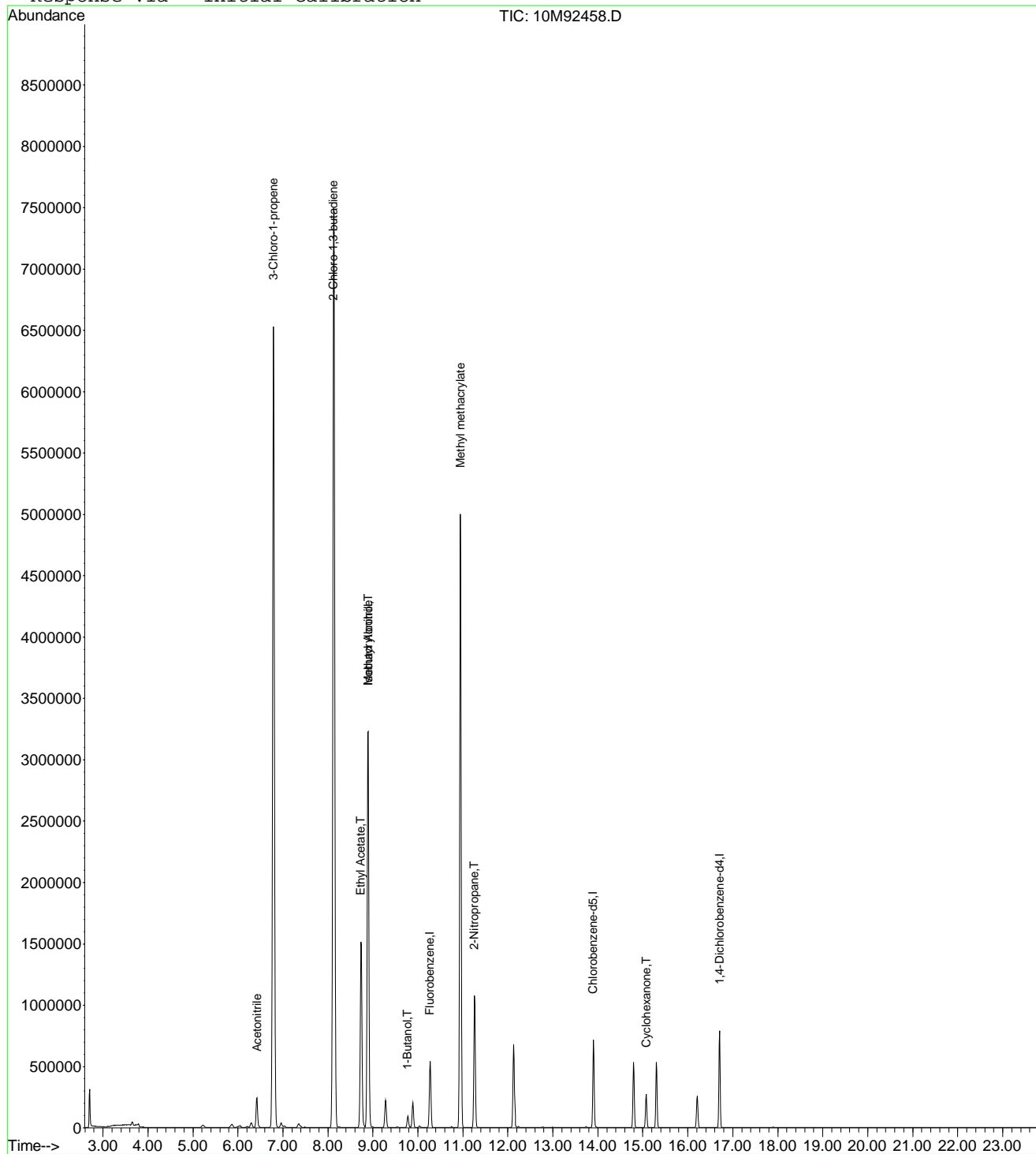


Data File : C:\MSDCHEM\1\DATA\011012\10M92458.D
 Acq On : 10 Jan 2012 16:42
 Sample : WG386582-09 500ug/L A9 STD 8260
 Misc : 1,1 STD49290
 MS Integration Params: rteint.p
 Quant Time: Jan 12 11:44 2012

Vial: 9
 Operator: TMB
 Inst : HPMS10
 Multiplr: 1.00

Quant Results File: A9FOOWT.RES

Method : C:\MSDCHEM\1\METHODS\A9FOOWT.M (RTE Integrator)
 Title : FOO/APPIX/BUTADIENE WT SOP: OVL MSV01 01/10/12
 Last Update : Thu Jan 12 11:43:37 2012
 Response via : Initial Calibration



10M92458.D A9FOOWT.M

Thu Jan 12 11:44:12 2012

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Data File : C:\MSDCHEM\1\data\011112\10M92475.D Vial: 6
 Acq On : 11 Jan 2012 11:11 Operator: TMB
 Sample : WG386582-10 A9/FOO ALT SRC STD 8260 Inst : HPMS10
 Misc : 1,1 STD49518 Multiplr: 1.00
 MS Integration Params: RTEINT.P
 Quant Time: Jan 11 11:35:30 2012 Quant Results File: 8260WT.RES

Quant Method : C:\MSDCHEM\1\METHODS\8260WT.M (RTE Integrator)
 Title : 8260B/624 WT (SOP: OVL MSV01) 1/04/12 HPMS10
 Last Update : Thu Jan 05 14:27:39 2012
 Response via : Initial Calibration
 DataAcq Meth : 8260WT

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene	10.27	96	595169	25.00	ug/L	0.00
57) Chlorobenzene-d5	13.90	117	457561	25.00	ug/L	0.00
78) 1,4-Dichlorobenzene-d4	16.71	152	232409	25.00	ug/L	0.00
System Monitoring Compounds						
37) Dibromofluoromethane	9.28	111	162592	23.51	ug/L	0.00
Spiked Amount	25.000	Range 86 - 118	Recovery	=	94.04%	
43) 1,2-Dichloroethane-d4	9.89	65	155022	22.83	ug/L	0.00
Spiked Amount	25.000	Range 80 - 120	Recovery	=	91.32%	
58) Toluene-d8	12.13	98	554646	24.02	ug/L	0.00
Spiked Amount	25.000	Range 88 - 110	Recovery	=	96.08%	
80) p-Bromofluorobenzene	15.30	95	198301	24.46	ug/L	0.00
Spiked Amount	25.000	Range 86 - 115	Recovery	=	97.84%	
Target Compounds						
4) Vinyl Chloride	3.66	62	262	Below Cal	#	42
5) 1,3-Butadiene	3.71	54	336965	143.22	ug/L	97
9) Diethyl ether	5.67	59	518220	117.73	ug/L	96
13) Acetone	5.99	43	7809	6.75	ug/L	96
19) Methylene Chloride	6.98	84	1134	0.16	ug/L	79
29) 2-Butanone	8.53	43	2489	1.61	ug/L	# 51
30) Propionitrile	8.64	54	57780	121.02	ug/L	96
51) 1,4-Dioxane	11.22	88	8173	200.16	ug/L	97
73) m-,p-Xylene	14.06	106	2905	0.23	ug/L	92
79) 1,1,2,2-Tetrachloroethane	15.08	83	3254	0.68	ug/L	# 17

(#) = qualifier out of range (m) = manual integration
 10M92475.D 8260WT.M Wed Jan 11 11:35:30 2012

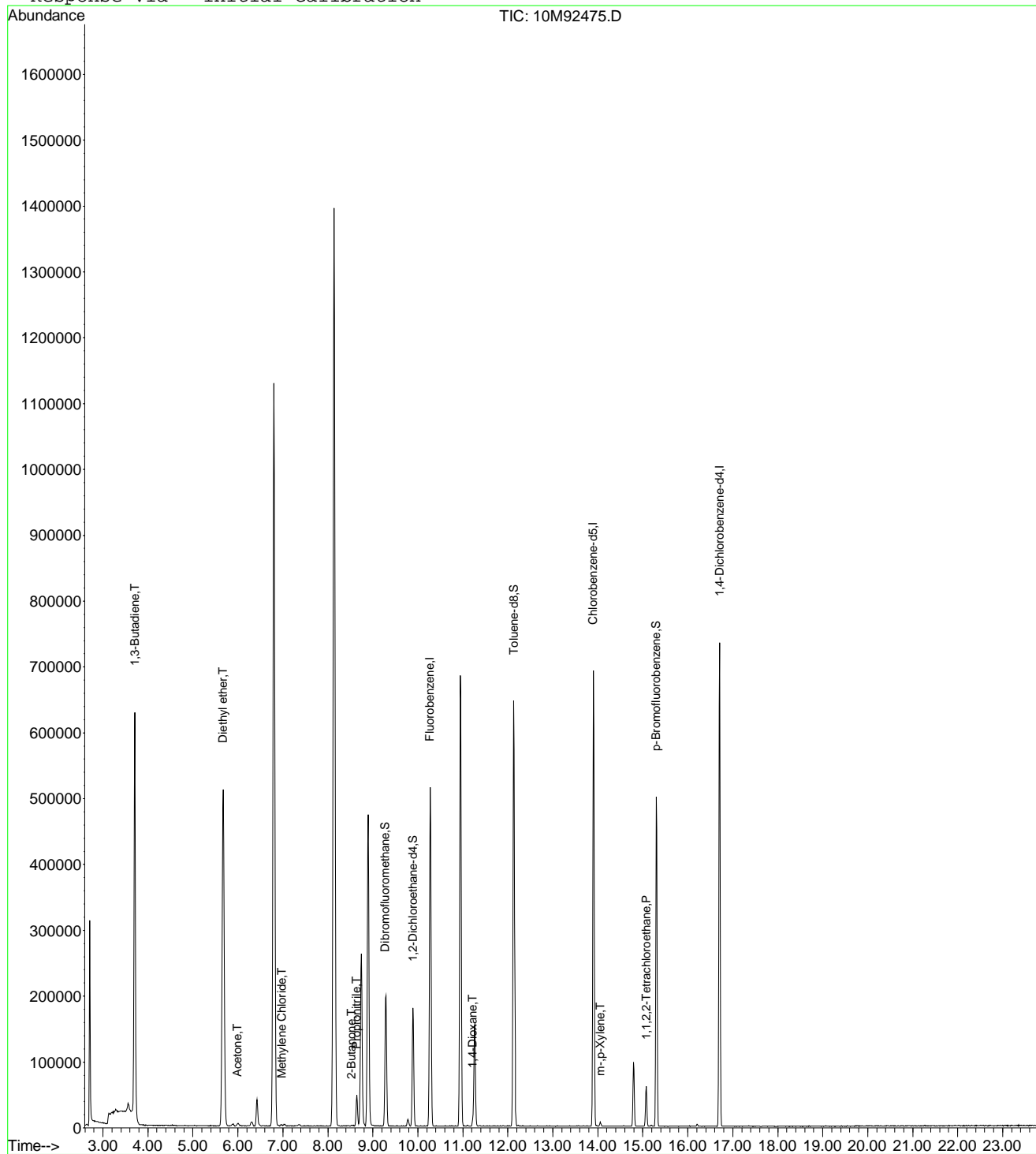


Data File : C:\MSDCHEM\1\data\011112\10M92475.D
 Acq On : 11 Jan 2012 11:11
 Sample : WG386582-10 A9/FOO ALT SRC STD 8260
 Misc : 1,1 STD49518
 MS Integration Params: RTEINT.P
 Quant Time: Jan 11 11:35 2012

Vial: 6
 Operator: TMB
 Inst : HPMS10
 Multiplr: 1.00

Quant Results File: 8260WT.RES

Method : C:\MSDCHEM\1\METHODS\8260WT.M (RTE Integrator)
 Title : 8260B/624 WT (SOP: OVL MSV01) 1/04/12 HPMS10
 Last Update : Thu Jan 05 14:27:39 2012
 Response via : Initial Calibration



10M92475.D 8260WT.M

Wed Jan 11 11:35:30 2012

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Data File : C:\MSDCHEM\1\DATA\011112\10M92475.D Vial: 6
 Acq On : 11 Jan 2012 11:11 Operator: TMB
 Sample : WG386582-10 A9/FOO ALT SRC STD 8260 Inst : HPMS10
 Misc : 1,1 STD49518 Multiplr: 1.00
 MS Integration Params: rteint.p
 Quant Time: Jan 11 12:07:53 2012 Quant Results File: A9FOOWT.RES

Quant Method : C:\MSDCHEM\1\METHODS\A9FOOWT.M (RTE Integrator)
 Title : FOO/APPIX/BUTADIENE WT SOP: OVL MSV01 01/10/12
 Last Update : Wed Jan 11 08:27:34 2012
 Response via : Initial Calibration
 DataAcq Meth : 8260WT

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene	10.27	96	595169	25.00	ug/L	0.00
8) Chlorobenzene-d5	13.90	117	457561	25.00	ug/L	0.00
12) 1,4-Dichlorobenzene-d4	16.71	152	232409	25.00	ug/L	0.00

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Acetonitrile	6.43	41	51905	93.89	ug/L	96
3) 3-Chloro-1-propene	6.80	41	1016125	101.78	ug/L	97
4) 2-Chloro-1,3-butadiene	8.13	53	1201994	109.56	ug/L	98
5) Ethyl Acetate	8.74	43	420396	103.43	ug/L	99
6) Methacrylonitrile	8.90	67	199529	84.76	ug/L	89
7) Isobutyl Alcohol	8.90	43	31233	68.85	ug/L	99
9) 1-Butanol	9.78	56	8062	76.40	ug/L #	61
10) Methyl methacrylate	10.94	41	423193	83.45	ug/L	100
11) 2-Nitropropane	11.26	43	141282	85.95	ug/L	95
13) Cyclohexanone	15.08	55	30458	121.74	ug/L	91

(#) = qualifier out of range (m) = manual integration
 10M92475.D A9FOOWT.M Wed Jan 11 12:07:53 2012

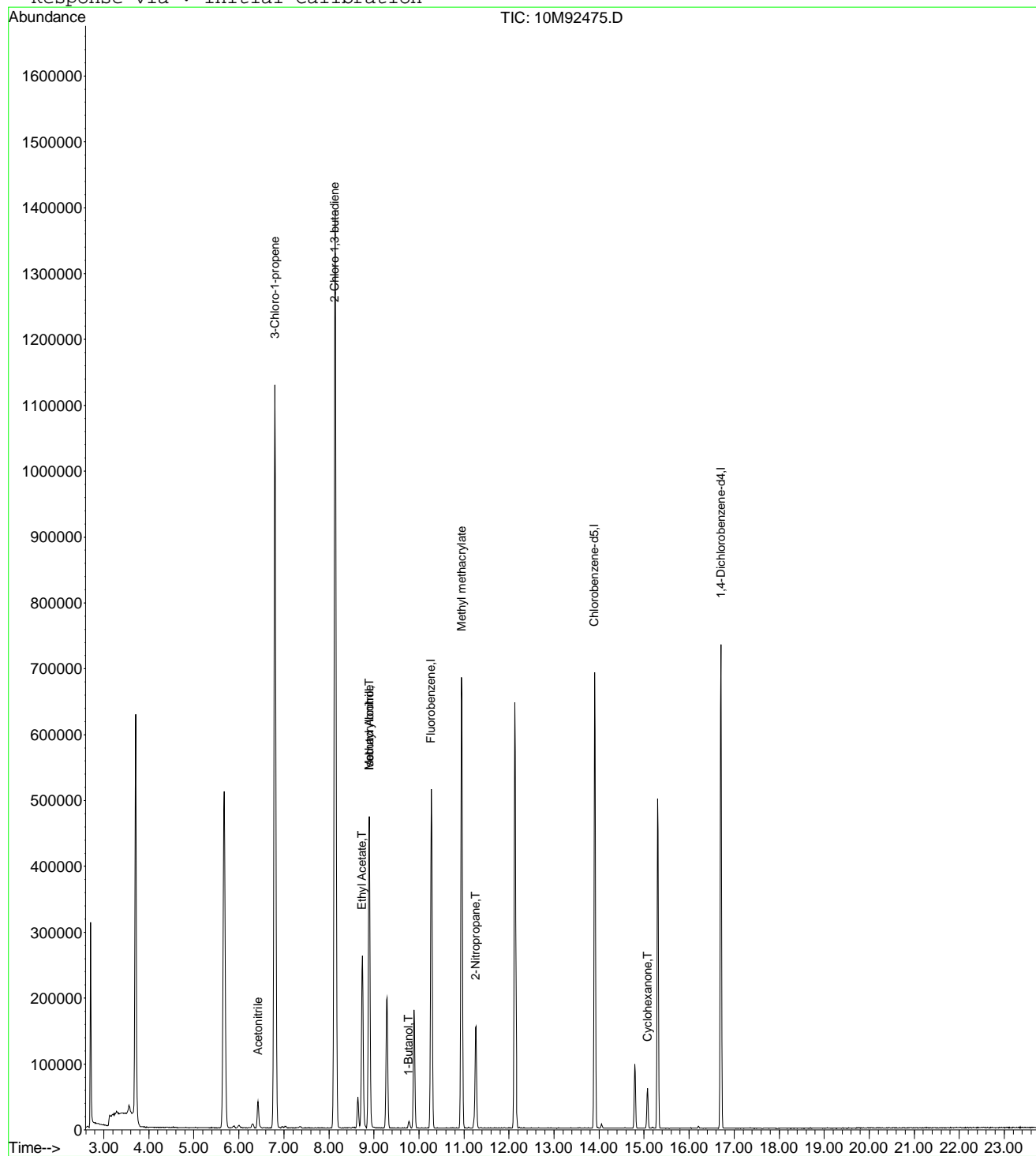


Data File : C:\MSDCHEM\1\DATA\011112\10M92475.D
Acq On : 11 Jan 2012 11:11
Sample : WG386582-10 A9/FOO ALT SRC STD 8260
Misc : 1,1 STD49518
MS Integration Params: rteint.p
Quant Time: Jan 11 12:07 2012

Vial: 6
Operator: TMB
Inst : HPMS10
Multiplr: 1.00

Quant Results File: A9FOOWT.RES

Method : C:\MSDCHEM\1\METHODS\A9FOOWT.M (RTE Integrator)
Title : FOO/APPIX/BUTADIENE WT SOP: OVL MSV01 01/10/12
Last Update : Wed Jan 11 08:27:34 2012
Response via : Initial Calibration



10M92475.D A9FOOWT.M

Wed Jan 11 12:07:53 2012

Page 2



Data File : C:\MSDCHEM\1\DATA\011112\10M92475.D Vial: 6
 Acq On : 11 Jan 2012 11:11 Operator: TMB
 Sample : WG386582-10 A9/FOO ALT SRC STD 8260 Inst : HPMS10
 Misc : 1,1 STD49518 Multiplr: 1.00
 MS Integration Params: rteint.p

Method : C:\MSDCHEM\1\METHODS\A9FOOWT.M (RTE Integrator)
 Title : FOO/APPIX/BUTADIENE WT SOP: OVL MSV01 01/10/12
 Last Update : Wed Jan 11 08:27:34 2012
 Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
 Max. RRF Dev : 25% Max. Rel. Area : 150%

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1 I	Fluorobenzene	25.0000	25.0000	0.0	96	0.00
2	Acetonitrile	100.0000	93.8891	6.1	89	0.00
3	3-Chloro-1-propene	100.0000	101.7795	-1.8	99	0.00
4	2-Chloro-1,3-butadiene	100.0000	109.5605	-9.6	107	0.00
5 T	Ethyl Acetate	100.0000	103.4327	-3.4	100	0.01
6	Methacrylonitrile	100.0000	84.7647	15.2	91	0.01
7 T	Isobutyl Alcohol	100.0000	68.8525	31.1#	79	0.00
8 I	Chlorobenzene-d5	25.0000	25.0000	0.0	96	0.00
9 T	1-Butanol	100.0000	76.4001	23.6	80	0.00
10	Methyl methacrylate	100.0000	83.4531	16.5	91	0.00
11 T	2-Nitropropane	100.0000	85.9475	14.1	89	0.01
12 I	1,4-Dichlorobenzene-d4	25.0000	25.0000	0.0	97	0.00
13 T	Cyclohexanone	100.0000	121.7398	-21.7	104	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0
 10M92475.D A9FOOWT.M Wed Jan 11 12:07:56 2012



Page 1

Data File : C:\MSDCHEM\1\DATA\062612\10M96561.D Vial: 3
 Acq On : 26 Jun 2012 10:38 Operator: TMB
 Sample : WG401620-03 0.4ug/L STD 8260 Inst : HPMS10
 Misc : 1,1 STD52427 Multiplr: 1.00
 MS Integration Params: RTEINT.P
 Quant Time: Jun 26 16:17:16 2012 Quant Results File: 8260BWT.RES

Quant Method : C:\MSDCHEM\1\METHODS\8260BWT.M (RTE Integrator)
 Title : 8260B/624 WT (SOP: OVL MSV01) 06/26/12 HPMS10
 Last Update : Tue Jun 26 15:55:32 2012
 Response via : Initial Calibration
 DataAcq Meth : 8260BWT

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene	10.13	96	751762	25.00	ug/L	-0.03
57) Chlorobenzene-d5	13.75	117	540195	25.00	ug/L	-0.03
78) 1,4-Dichlorobenzene-d4	16.54	152	283805	25.00	ug/L	-0.04

System Monitoring Compounds

37) Dibromofluoromethane	0.00	111	0	0.00	ug/L	
Spiked Amount	25.000	Range 86 - 118	Recovery	=	0.00%#	
43) 1,2-Dichloroethane-d4	0.00	65	0	0.00	ug/L	
Spiked Amount	25.000	Range 80 - 120	Recovery	=	0.00%#	
58) Toluene-d8	0.00	98	0	0.00	ug/L	
Spiked Amount	25.000	Range 88 - 110	Recovery	=	0.00%#	
80) p-Bromofluorobenzene	0.00	95	0	0.00	ug/L	
Spiked Amount	25.000	Range 86 - 115	Recovery	=	0.00%#	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	2.96	85	2364	0.37	ug/L #	66
3) Chloromethane	3.38	50	8151	0.73	ug/L #	71
4) Vinyl Chloride	3.59	62	4039	0.47	ug/L	92
5) 1,3-Butadiene	3.63	54	4163	Below Cal	#	50
6) Bromomethane	4.42	94	1529	0.35	ug/L	75
7) Chloroethane	4.58	64	1791	0.34	ug/L #	42
8) Trichlorofluoromethane	5.04	101	4342	0.37	ug/L	97
10) Isoprene	5.59	67	3627	0.33	ug/L	89
12) 1,1,2-Trichloro-1,2,2-Trif	5.80	101	2108	0.32	ug/L	88
13) Acetone	5.87	43	2264	1.28	ug/L #	65
14) 1,1-Dichloroethene	6.10	96	2270	0.36	ug/L	85
16) Dimethyl Sulfide	6.35	62	2396	0.29	ug/L	76
17) Iodomethane	6.58	142	2728	0.70	ug/L	84
18) Methyl acetate	6.62	43	1513	0.33	ug/L #	54
19) Methylene Chloride	6.84	84	3031	0.40	ug/L	78
20) Carbon Disulfide	6.88	76	8020	0.43	ug/L #	89
22) Methyl Tert Butyl Ether	7.06	73	6411	0.38	ug/L #	66
23) trans-1,2-Dichloroethene	7.29	96	2597	0.36	ug/L	95
24) n-Hexane	7.36	57	3324	0.36	ug/L #	61
27) 1,1-Dichloroethane	7.88	63	5092	0.37	ug/L #	89
29) 2-Butanone	8.40	43	620	0.25	ug/L #	51
31) 2,2-Dichloropropane	8.61	77	4478	0.42	ug/L	86
32) cis-1,2-Dichloroethene	8.67	96	2908	0.37	ug/L	98
33) Chloroform	8.87	83	5176	0.39	ug/L	96
35) Bromochloromethane	9.10	128	1149	0.33	ug/L	86
38) 1,1,1-Trichloroethane	9.36	97	4701	0.41	ug/L	87
39) Cyclohexane	9.41	56	4289	0.39	ug/L #	85
40) 1,1-Dichloropropene	9.56	75	3825	0.39	ug/L	85
41) Carbon Tetrachloride	9.69	117	3693	0.36	ug/L	96
45) 1,2-Dichloroethane	9.86	62	3742	0.39	ug/L #	82
46) Benzene	9.90	78	12193	0.42	ug/L	98
47) Trichloroethene	10.60	130	3032	0.39	ug/L	93
48) Methylcyclohexane	10.68	83	3453	0.36	ug/L	89
49) 1,2-Dichloropropane	10.81	63	2968	0.39	ug/L	74
50) Bromodichloromethane	11.08	83	3824	0.38	ug/L #	90
52) Dibromomethane	11.16	93	1220	0.30	ug/L	77
53) 2-Chloroethyl Vinyl Ether	11.37	63	905	0.23	ug/L #	42
55) cis-1,3-Dichloropropene	11.68	75	3825	0.35	ug/L	89
56) Dimethyl Disulfide	11.93	79	1280	2.84	ug/L	86
59) Toluene	12.07	91	12184	0.42	ug/L	94

(#) = qualifier out of range (m) = manual integration
 10M96561.D 8260BWT.M Tue Jun 26 16:17:17 2012

Data File : C:\MSDCHEM\1\DATA\062612\10M96561.D Vial: 3
 Acq On : 26 Jun 2012 10:38 Operator: TMB
 Sample : WG401620-03 0.4ug/L STD 8260 Inst : HPMS10
 Misc : 1,1 STD52427 Multiplr: 1.00
 MS Integration Params: RTEINT.P
 Quant Time: Jun 26 16:17:16 2012 Quant Results File: 8260BWT.RES

Quant Method : C:\MSDCHEM\1\METHODS\8260BWT.M (RTE Integrator)
 Title : 8260B/624 WT (SOP: OVL MSV01) 06/26/12 HPMS10
 Last Update : Tue Jun 26 15:55:32 2012
 Response via : Initial Calibration
 DataAcq Meth : 8260BWT

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
60) Ethyl Methacrylate	12.17	69	2094	0.32	ug/L #	56
62) trans-1,3-Dichloropropene	12.24	75	3501	0.35	ug/L #	77
63) 1,1,2-Trichloroethane	12.44	97	1978	0.37	ug/L	95
64) 2-Hexanone	12.39	43	768	0.22	ug/L #	1
65) 1,3-Dichloropropane	12.72	76	3832	0.41	ug/L	92
66) Tetrachloroethene	12.85	164	2338	0.38	ug/L	95
67) Dibromochloromethane	13.08	129	2343	0.35	ug/L	93
68) 1,2-Dibromoethane	13.32	107	1512	0.29	ug/L	67
69) 1-Chlorohexane	13.41	91	3241	0.36	ug/L	100
70) Chlorobenzene	13.79	112	7701	0.39	ug/L	99
71) 1,1,1,2-Tetrachloroethane	13.82	131	2644	0.35	ug/L	95
72) Ethylbenzene	13.82	106	4232	0.39	ug/L	96
73) m-,p-Xylene	13.89	106	9538	0.76	ug/L	90
74) o-Xylene	14.42	106	4539	0.36	ug/L	90
75) Styrene	14.46	104	6811	0.33	ug/L	96
76) Bromoform	14.91	173	1280	0.28	ug/L #	52
77) Isopropylbenzene	14.81	105	12113	0.40	ug/L	99
79) 1,1,2,2-Tetrachloroethane	15.02	83	1871	0.33	ug/L	93
81) 1,2,3-Trichloropropane	15.19	110	436	0.25	ug/L #	74
83) n-Propylbenzene	15.29	91	13706	0.40	ug/L	94
84) Bromobenzene	15.40	156	3104	0.37	ug/L	75
85) 1,3,5-Trimethylbenzene	15.45	105	9490	0.39	ug/L	100
86) 2-Chlorotoluene	15.53	91	9767	0.42	ug/L	90
87) 4-Chlorotoluene	15.58	91	8230	0.40	ug/L	98
88) a-Methylstyrene	15.82	118	3749	0.26	ug/L	96
89) tert-Butylbenzene	15.89	134	1923	0.34	ug/L	92
90) 1,2,4-Trimethylbenzene	15.93	105	9876	0.39	ug/L	93
91) sec-Butylbenzene	16.13	105	11299	0.39	ug/L	99
92) p-Isopropyltoluene	16.28	119	9343	0.37	ug/L	96
93) 1,3-Dichlorobenzene	16.45	146	5962	0.38	ug/L	87
94) 1,4-Dichlorobenzene	16.58	146	6158	0.39	ug/L #	25
95) n-Butylbenzene	16.76	91	8016	0.36	ug/L #	95
96) 1,2-Dichlorobenzene	17.03	146	5556	0.39	ug/L	96
98) 1,2,4-Trichlorobenzene	19.01	180	1463	0.54	ug/L #	67
99) Hexachlorobutadiene	19.14	225	1276	0.36	ug/L #	64
100) Naphthalene	19.35	128	2271	1.05	ug/L #	67
101) 1,2,3-Trichlorobenzene	19.64	180	1242	0.83	ug/L #	41

(#) = qualifier out of range (m) = manual integration
 10M96561.D 8260BWT.M Tue Jun 26 16:17:17 2012

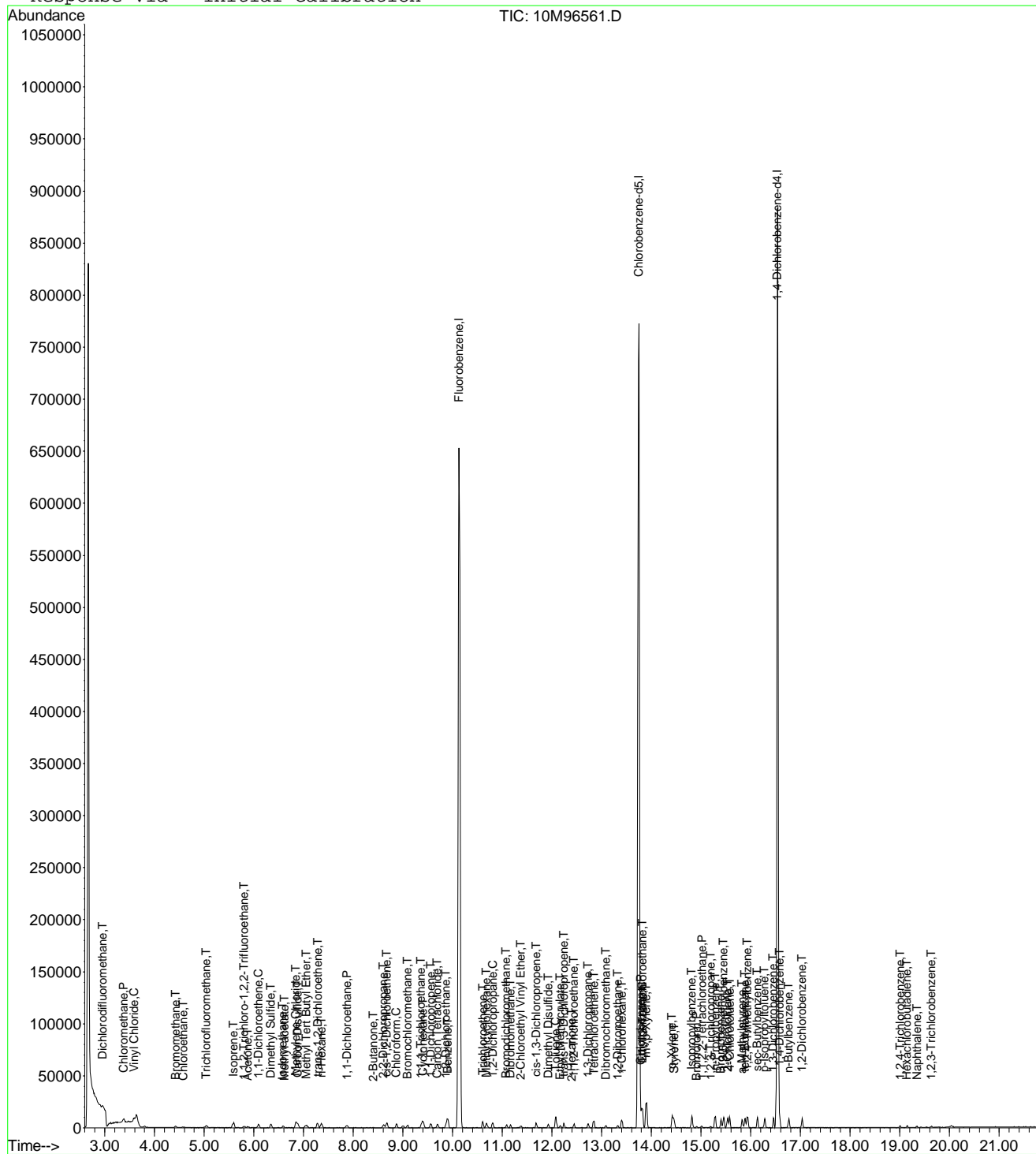
Page 2

Data File : C:\MSDCHEM\1\DATA\062612\10M96561.D
Acq On : 26 Jun 2012 10:38
Sample : WG401620-03 0.4ug/L STD 8260
Misc : 1,1 STD52427
MS Integration Params: RTEINT.P
Quant Time: Jun 26 16:17 2012

Vial: 3
Operator: TMB
Inst : HPMS10
Multiplr: 1.00

Quant Results File: 8260BWT.RES

Method : C:\MSDCHEM\1\METHODS\8260BWT.M (RTE Integrator)
Title : 8260B/624 WT (SOP: OVL MSV01) 06/26/12 HPMS10
Last Update : Tue Jun 26 15:55:32 2012
Response via : Initial Calibration



Data File : C:\MSDCHEM\1\DATA\062612\10M96562.D Vial: 4
 Acq On : 26 Jun 2012 11:09 Operator: TMB
 Sample : WG401620-03 0.3ug/L STD 8260 Inst : HPMS10
 Misc : 1,1 STD52427 Multiplr: 1.00
 MS Integration Params: RTEINT.P
 Quant Time: Jun 26 16:17:17 2012 Quant Results File: 8260BWT.RES

Quant Method : C:\MSDCHEM\1\METHODS\8260BWT.M (RTE Integrator)
 Title : 8260B/624 WT (SOP: OVL MSV01) 06/26/12 HPMS10
 Last Update : Tue Jun 26 15:55:32 2012
 Response via : Initial Calibration
 DataAcq Meth : 8260BWT

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene	10.13	96	746585	25.00	ug/L	-0.03
57) Chlorobenzene-d5	13.74	117	537982	25.00	ug/L	-0.04
78) 1,4-Dichlorobenzene-d4	16.54	152	279790	25.00	ug/L	-0.04

System Monitoring Compounds

37) Dibromofluoromethane	0.00	111	0	0.00	ug/L	
Spiked Amount	25.000	Range 86 - 118	Recovery	=	0.00%#	
43) 1,2-Dichloroethane-d4	0.00	65	0	0.00	ug/L	
Spiked Amount	25.000	Range 80 - 120	Recovery	=	0.00%#	
58) Toluene-d8	0.00	98	0	0.00	ug/L	
Spiked Amount	25.000	Range 88 - 110	Recovery	=	0.00%#	
80) p-Bromofluorobenzene	0.00	95	0	0.00	ug/L	
Spiked Amount	25.000	Range 86 - 115	Recovery	=	0.00%#	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	2.96	85	1916	0.30	ug/L	# 66
3) Chloromethane	3.37	50	7363	0.66	ug/L	92
4) Vinyl Chloride	3.58	62	3532	0.42	ug/L	92
5) 1,3-Butadiene	3.63	54	3210	Below Cal	#	41
6) Bromomethane	4.43	94	801	0.19	ug/L	93
7) Chloroethane	4.57	64	1112	0.22	ug/L	# 42
8) Trichlorofluoromethane	5.05	101	3468	0.30	ug/L	88
10) Isoprene	5.58	67	2382	0.22	ug/L	93
12) 1,1,2-Trichloro-1,2,2-Trif	5.79	101	1263	0.19	ug/L	# 29
13) Acetone	5.87	43	1736	0.99	ug/L	# 46
14) 1,1-Dichloroethene	6.09	96	1493	0.24	ug/L	65
16) Dimethyl Sulfide	6.34	62	1787	0.22	ug/L	86
17) Iodomethane	6.59	142	1605	0.60	ug/L	# 29
18) Methyl acetate	6.60	43	818	0.18	ug/L	# 54
19) Methylene Chloride	6.83	84	2417	0.32	ug/L	95
20) Carbon Disulfide	6.88	76	6111	0.33	ug/L	# 74
22) Methyl Tert Butyl Ether	7.05	73	4331	0.26	ug/L	# 62
23) trans-1,2-Dichloroethene	7.27	96	1881	0.26	ug/L	87
24) n-Hexane	7.35	57	2324	0.25	ug/L	# 61
27) 1,1-Dichloroethane	7.88	63	3608	0.26	ug/L	# 84
29) 2-Butanone	8.41	43	597	0.24	ug/L	# 51
31) 2,2-Dichloropropane	8.62	77	2999	0.28	ug/L	87
32) cis-1,2-Dichloroethene	8.67	96	2226	0.28	ug/L	87
33) Chloroform	8.87	83	4013	0.31	ug/L	88
35) Bromochloromethane	9.09	128	763	0.22	ug/L	78
38) 1,1,1-Trichloroethane	9.39	97	3272	0.29	ug/L	84
39) Cyclohexane	9.41	56	3200	0.29	ug/L	# 83
40) 1,1-Dichloropropene	9.56	75	2741	0.28	ug/L	86
41) Carbon Tetrachloride	9.69	117	2849	0.28	ug/L	# 83
45) 1,2-Dichloroethane	9.86	62	2839	0.30	ug/L	# 72
46) Benzene	9.89	78	9334	0.33	ug/L	100
47) Trichloroethene	10.61	130	2121	0.28	ug/L	95
48) Methylcyclohexane	10.69	83	2643	0.28	ug/L	89
49) 1,2-Dichloropropane	10.80	63	1861	0.24	ug/L	80
50) Bromodichloromethane	11.09	83	2525	0.25	ug/L	# 88
52) Dibromomethane	11.17	93	1016	0.25	ug/L	# 72
53) 2-Chloroethyl Vinyl Ether	11.36	63	538	0.14	ug/L	# 42
55) cis-1,3-Dichloropropene	11.68	75	2776	0.26	ug/L	91
56) Dimethyl Disulfide	11.93	79	769	2.77	ug/L	59
59) Toluene	12.07	91	8367	0.29	ug/L	96

(#) = qualifier out of range (m) = manual integration
 10M96562.D 8260BWT.M Tue Jun 26 16:17:18 2012

Data File : C:\MSDCHEM\1\DATA\062612\10M96562.D Vial: 4
 Acq On : 26 Jun 2012 11:09 Operator: TMB
 Sample : WG401620-03 0.3ug/L STD 8260 Inst : HPMS10
 Misc : 1,1 STD52427 Multiplr: 1.00
 MS Integration Params: RTEINT.P
 Quant Time: Jun 26 16:17:17 2012 Quant Results File: 8260BWT.RES

Quant Method : C:\MSDCHEM\1\METHODS\8260BWT.M (RTE Integrator)
 Title : 8260B/624 WT (SOP: OVL MSV01) 06/26/12 HPMS10
 Last Update : Tue Jun 26 15:55:32 2012
 Response via : Initial Calibration
 DataAcq Meth : 8260BWT

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
60) Ethyl Methacrylate	12.16	69	1244	0.19	ug/L #	56
62) trans-1,3-Dichloropropene	12.24	75	2329	0.24	ug/L #	68
63) 1,1,2-Trichloroethane	12.44	97	1384	0.26	ug/L	100
65) 1,3-Dichloropropane	12.73	76	2600	0.28	ug/L	99
66) Tetrachloroethene	12.84	164	1835	0.30	ug/L	87
67) Dibromochloromethane	13.09	129	1454	0.22	ug/L	99
68) 1,2-Dibromoethane	13.33	107	1337	0.26	ug/L	97
69) 1-Chlorohexane	13.41	91	2286	0.25	ug/L	91
70) Chlorobenzene	13.79	112	5654	0.29	ug/L	99
71) 1,1,1,2-Tetrachloroethane	13.81	131	1784	0.24	ug/L	98
72) Ethylbenzene	13.82	106	2756	0.25	ug/L	81
73) m-,p-Xylene	13.90	106	6997	0.56	ug/L	89
74) o-Xylene	14.42	106	3487	0.28	ug/L	94
75) Styrene	14.45	104	4913	0.24	ug/L	98
76) Bromoform	14.92	173	736	0.16	ug/L #	29
77) Isopropylbenzene	14.81	105	8959	0.29	ug/L	94
79) 1,1,2,2-Tetrachloroethane	15.01	83	1427	0.25	ug/L	85
83) n-Propylbenzene	15.28	91	10256	0.30	ug/L	96
84) Bromobenzene	15.40	156	2367	0.29	ug/L	61
85) 1,3,5-Trimethylbenzene	15.45	105	6688	0.28	ug/L	99
86) 2-Chlorotoluene	15.54	91	7274	0.32	ug/L	100
87) 4-Chlorotoluene	15.58	91	5988	0.29	ug/L	96
88) a-Methylstyrene	15.83	118	2853	0.20	ug/L	78
89) tert-Butylbenzene	15.89	134	1335	0.24	ug/L	80
90) 1,2,4-Trimethylbenzene	15.93	105	7207	0.29	ug/L	88
91) sec-Butylbenzene	16.14	105	8440	0.29	ug/L	95
92) p-Isopropyltoluene	16.28	119	6907	0.28	ug/L	87
93) 1,3-Dichlorobenzene	16.46	146	4138	0.27	ug/L	88
94) 1,4-Dichlorobenzene	16.58	146	4584	0.30	ug/L #	1
95) n-Butylbenzene	16.77	91	6041	0.28	ug/L #	84
96) 1,2-Dichlorobenzene	17.04	146	4084	0.29	ug/L	92
98) 1,2,4-Trichlorobenzene	19.01	180	865	0.49	ug/L #	44
99) Hexachlorobutadiene	19.14	225	767	0.22	ug/L #	23
100) Naphthalene	19.35	128	1586	1.02	ug/L #	67
101) 1,2,3-Trichlorobenzene	19.64	180	685	0.77	ug/L #	41

(#) = qualifier out of range (m) = manual integration
 10M96562.D 8260BWT.M Tue Jun 26 16:17:18 2012

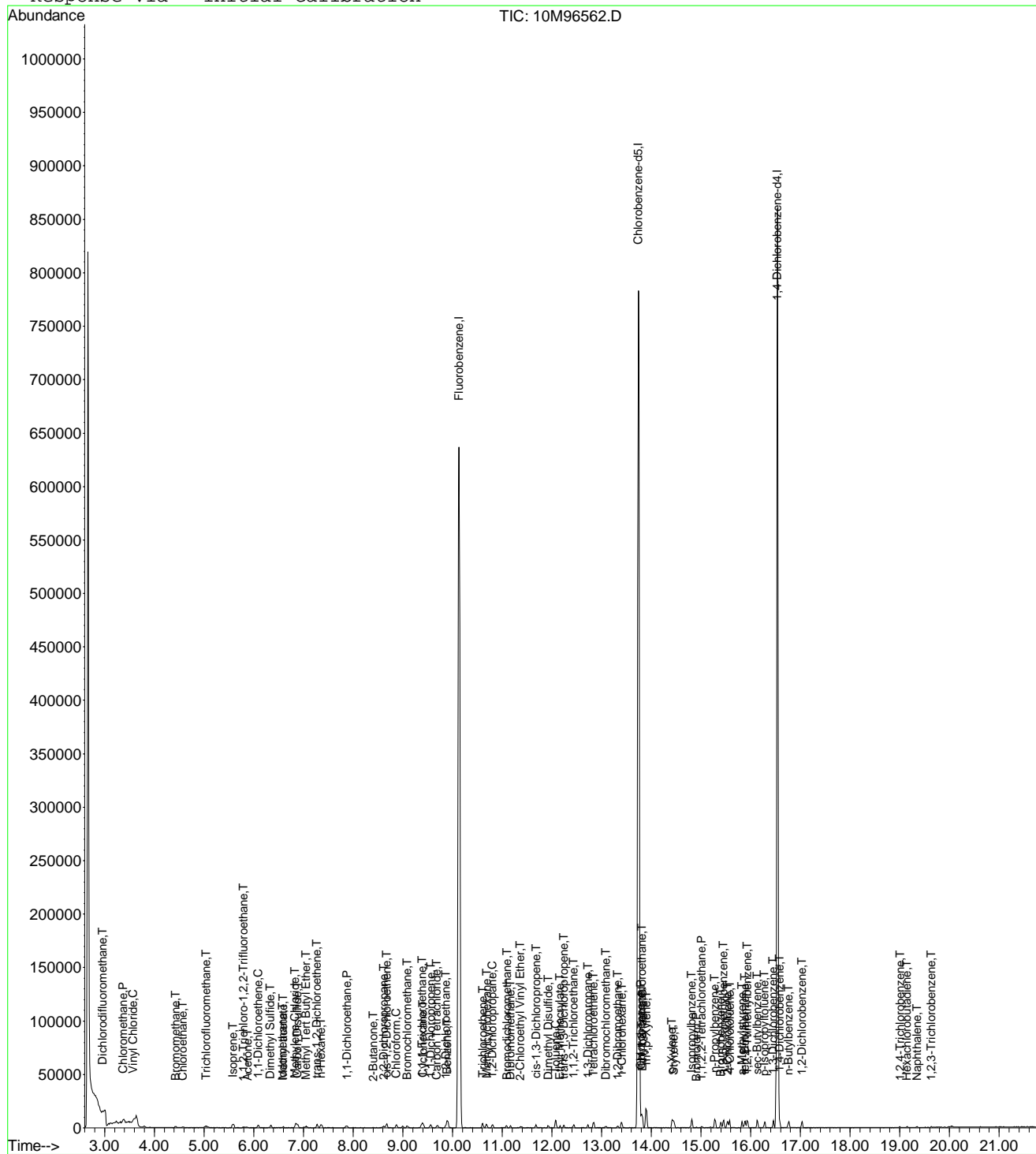
Page 2

Data File : C:\MSDCHEM\1\DATA\062612\10M96562.D
Acq On : 26 Jun 2012 11:09
Sample : WG401620-03 0.3ug/L STD 8260
Misc : 1,1 STD52427
MS Integration Params: RTEINT.P
Quant Time: Jun 26 16:17 2012

Vial: 4
Operator: TMB
Inst : HPMS10
Multiplr: 1.00

Quant Results File: 8260BWT.RES

Method : C:\MSDCHEM\1\METHODS\8260BWT.M (RTE Integrator)
Title : 8260B/624 WT (SOP: OVL MSV01) 06/26/12 HPMS10
Last Update : Tue Jun 26 15:55:32 2012
Response via : Initial Calibration



Data File : C:\MSDCHEM\1\DATA\062612\10M96563.D Vial: 5
 Acq On : 26 Jun 2012 11:39 Operator: TMB
 Sample : WG401620-04 1ug/L STD 8260 Inst : HPMS10
 Misc : 1,1 STD52427 Multiplr: 1.00
 MS Integration Params: RTEINT.P
 Quant Time: Jun 26 16:17:19 2012 Quant Results File: 8260BWT.RES

Quant Method : C:\MSDCHEM\1\METHODS\8260BWT.M (RTE Integrator)
 Title : 8260B/624 WT (SOP: OVL MSV01) 06/26/12 HPMS10
 Last Update : Tue Jun 26 15:55:32 2012
 Response via : Initial Calibration
 DataAcq Meth : 8260BWT

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene	10.13	96	737892	25.00	ug/L	-0.03
57) Chlorobenzene-d5	13.75	117	533860	25.00	ug/L	-0.03
78) 1,4-Dichlorobenzene-d4	16.54	152	282551	25.00	ug/L	-0.04

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
37) Dibromofluoromethane	9.15	111	2652	0.39	ug/L	-0.02
Spiked Amount	25.000	Range 86 - 118	Recovery	=	1.56%#	
43) 1,2-Dichloroethane-d4	9.75	65	3403	0.48	ug/L	-0.03
Spiked Amount	25.000	Range 80 - 120	Recovery	=	1.92%#	
58) Toluene-d8	11.98	98	11333	0.50	ug/L	-0.03
Spiked Amount	25.000	Range 88 - 110	Recovery	=	2.00%#	
80) p-Bromofluorobenzene	15.13	95	3856	0.46	ug/L	-0.03
Spiked Amount	25.000	Range 86 - 115	Recovery	=	1.84%#	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	2.96	85	5934	0.94	ug/L	87
3) Chloromethane	3.38	50	13695	1.24	ug/L	97
4) Vinyl Chloride	3.59	62	9652	1.15	ug/L	93
5) 1,3-Butadiene	3.64	54	9586	Below Cal	#	74
6) Bromomethane	4.42	94	3393	0.80	ug/L	93
7) Chloroethane	4.58	64	4764	0.93	ug/L	# 71
8) Trichlorofluoromethane	5.05	101	11152	0.98	ug/L	96
9) Diethyl ether	5.55	59	27109	4.80	ug/L	89
10) Isoprene	5.59	67	8870	0.83	ug/L	100
11) Acrolein	5.78	56	3583	4.08	ug/L	91
12) 1,1,2-Trichloro-1,2,2-Trif	5.79	101	5804	0.90	ug/L	93
13) Acetone	5.87	43	3354	1.94	ug/L	# 60
14) 1,1-Dichloroethene	6.09	96	5437	0.88	ug/L	86
15) Tert-Butyl Alcohol	6.19	59	4551	9.89	ug/L	# 61
16) Dimethyl Sulfide	6.35	62	6657	0.83	ug/L	90
17) Iodomethane	6.58	142	7586	1.11	ug/L	90
18) Methyl acetate	6.59	43	3460	0.77	ug/L	# 67
19) Methylene Chloride	6.84	84	7035	0.95	ug/L	89
20) Carbon Disulfide	6.88	76	17696	0.96	ug/L	94
21) Acrylonitrile	7.03	53	1423	0.66	ug/L	93
22) Methyl Tert Butyl Ether	7.05	73	15098	0.91	ug/L	100
23) trans-1,2-Dichloroethene	7.28	96	6801	0.96	ug/L	98
24) n-Hexane	7.35	57	8755	0.97	ug/L	# 81
25) Diisopropyl ether	7.69	45	128187	4.93	ug/L	95
26) Vinyl Acetate	7.84	43	2638	3.58	ug/L	# 73
27) 1,1-Dichloroethane	7.88	63	12683	0.94	ug/L	94
28) Ethyl-Tert-Butyl ether	8.24	59	109414	4.84	ug/L	97
29) 2-Butanone	8.40	43	1796	0.74	ug/L	# 51
30) Propionitrile	8.50	54	2907	4.24	ug/L	# 65
31) 2,2-Dichloropropane	8.62	77	9956	0.94	ug/L	94
32) cis-1,2-Dichloroethene	8.68	96	7142	0.92	ug/L	99
33) Chloroform	8.87	83	12350	0.96	ug/L	98
34) 1-Bromopropane	9.00	122	930	0.77	ug/L	76
35) Bromochloromethane	9.09	128	3058	0.89	ug/L	87
36) Tetrahydrofuran	9.11	42	6510	4.41	ug/L	88
38) 1,1,1-Trichloroethane	9.37	97	11019	0.97	ug/L	92
39) Cyclohexane	9.39	56	9872	0.91	ug/L	94
40) 1,1-Dichloropropene	9.56	75	8554	0.88	ug/L	95
41) Carbon Tetrachloride	9.69	117	9695	0.97	ug/L	93
42) Tert-Amyl-Methyl ether	9.66	73	86214	4.82	ug/L	96

(#) = qualifier out of range (m) = manual integration
 10M96563.D 8260BWT.M Tue Jun 26 16:17:19 2012

Data File : C:\MSDCHEM\1\DATA\062612\10M96563.D Vial: 5
 Acq On : 26 Jun 2012 11:39 Operator: TMB
 Sample : WG401620-04 Iug/L STD 8260 Inst : HPMS10
 Misc : 1,1 STD52427 Multiplr: 1.00
 MS Integration Params: RTEINT.P
 Quant Time: Jun 26 16:17:19 2012 Quant Results File: 8260BWT.RES

Quant Method : C:\MSDCHEM\1\METHODS\8260BWT.M (RTE Integrator)
 Title : 8260B/624 WT (SOP: OVL MSV01) 06/26/12 HPMS10
 Last Update : Tue Jun 26 15:55:32 2012
 Response via : Initial Calibration
 DataAcq Meth : 8260BWT

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
45) 1,2-Dichloroethane	9.86	62	9101	0.96	ug/L #	93
46) Benzene	9.90	78	27287	0.97	ug/L	98
47) Trichloroethene	10.60	130	7290	0.97	ug/L	98
48) Methylcyclohexane	10.69	83	9113	0.96	ug/L	94
49) 1,2-Dichloropropane	10.81	63	6726	0.89	ug/L	92
50) Bromodichloromethane	11.09	83	9105	0.93	ug/L	91
52) Dibromomethane	11.16	93	3554	0.90	ug/L	90
53) 2-Chloroethyl Vinyl Ether	11.37	63	2847	0.75	ug/L	92
54) 4-Methyl-2-Pentanone	11.39	58	1204	0.64	ug/L #	36
55) cis-1,3-Dichloropropene	11.68	75	8884	0.83	ug/L	95
56) Dimethyl Disulfide	11.93	79	3437	3.13	ug/L	94
59) Toluene	12.07	91	28149	0.97	ug/L	99
60) Ethyl Methacrylate	12.16	69	5131	0.79	ug/L	86
62) trans-1,3-Dichloropropene	12.24	75	8318	0.85	ug/L	96
63) 1,1,2-Trichloroethane	12.44	97	5015	0.95	ug/L	93
64) 2-Hexanone	12.38	43	2474	0.73	ug/L #	42
65) 1,3-Dichloropropane	12.72	76	8787	0.94	ug/L	97
66) Tetrachloroethene	12.84	164	5782	0.96	ug/L	89
67) Dibromochloromethane	13.08	129	5669	0.86	ug/L	97
68) 1,2-Dibromoethane	13.32	107	4619	0.90	ug/L	99
69) 1-Chlorohexane	13.40	91	8355	0.93	ug/L	95
70) Chlorobenzene	13.79	112	18710	0.96	ug/L	99
71) 1,1,1,2-Tetrachloroethane	13.82	131	6386	0.86	ug/L	86
72) Ethylbenzene	13.82	106	9929	0.92	ug/L	94
73) m-,p-Xylene	13.90	106	23654	1.90	ug/L	96
74) o-Xylene	14.42	106	11256	0.90	ug/L	95
75) Styrene	14.46	104	17190	0.85	ug/L	100
76) Bromoform	14.91	173	3388	0.76	ug/L	94
77) Isopropylbenzene	14.81	105	28050	0.93	ug/L	99
79) 1,1,2,2-Tetrachloroethane	15.01	83	5341	0.94	ug/L	97
81) 1,2,3-Trichloropropane	15.19	110	1482	0.86	ug/L	89
82) trans-1,4-Dichloro-2-Buten	15.23	53	1283	1.20	ug/L	54
83) n-Propylbenzene	15.29	91	33544	0.98	ug/L	98
84) Bromobenzene	15.40	156	8169	0.99	ug/L	64
85) 1,3,5-Trimethylbenzene	15.45	105	22550	0.93	ug/L	98
86) 2-Chlorotoluene	15.53	91	22091	0.96	ug/L	100
87) 4-Chlorotoluene	15.57	91	20071	0.98	ug/L	100
88) a-Methylstyrene	15.83	118	9146	0.64	ug/L	89
89) tert-Butylbenzene	15.88	134	5296	0.95	ug/L	88
90) 1,2,4-Trimethylbenzene	15.94	105	23918	0.94	ug/L	95
91) sec-Butylbenzene	16.13	105	27852	0.96	ug/L	100
92) p-Isopropyltoluene	16.28	119	23186	0.93	ug/L	98
93) 1,3-Dichlorobenzene	16.45	146	14716	0.95	ug/L	93
94) 1,4-Dichlorobenzene	16.58	146	15275	0.98	ug/L	74
95) n-Butylbenzene	16.76	91	19860	0.90	ug/L	99
96) 1,2-Dichlorobenzene	17.03	146	13122	0.92	ug/L	94
97) 1,2-Dibromo-3-Chloropropan	17.95	157	593	0.49	ug/L #	47
98) 1,2,4-Trichlorobenzene	19.01	180	5009	0.89	ug/L	98
99) Hexachlorobutadiene	19.15	225	3210	0.92	ug/L	94
100) Naphthalene	19.35	128	6480	1.28	ug/L	98
101) 1,2,3-Trichlorobenzene	19.63	180	4550	1.18	ug/L	87

(#) = qualifier out of range (m) = manual integration
 10M96563.D 8260BWT.M Tue Jun 26 16:17:19 2012

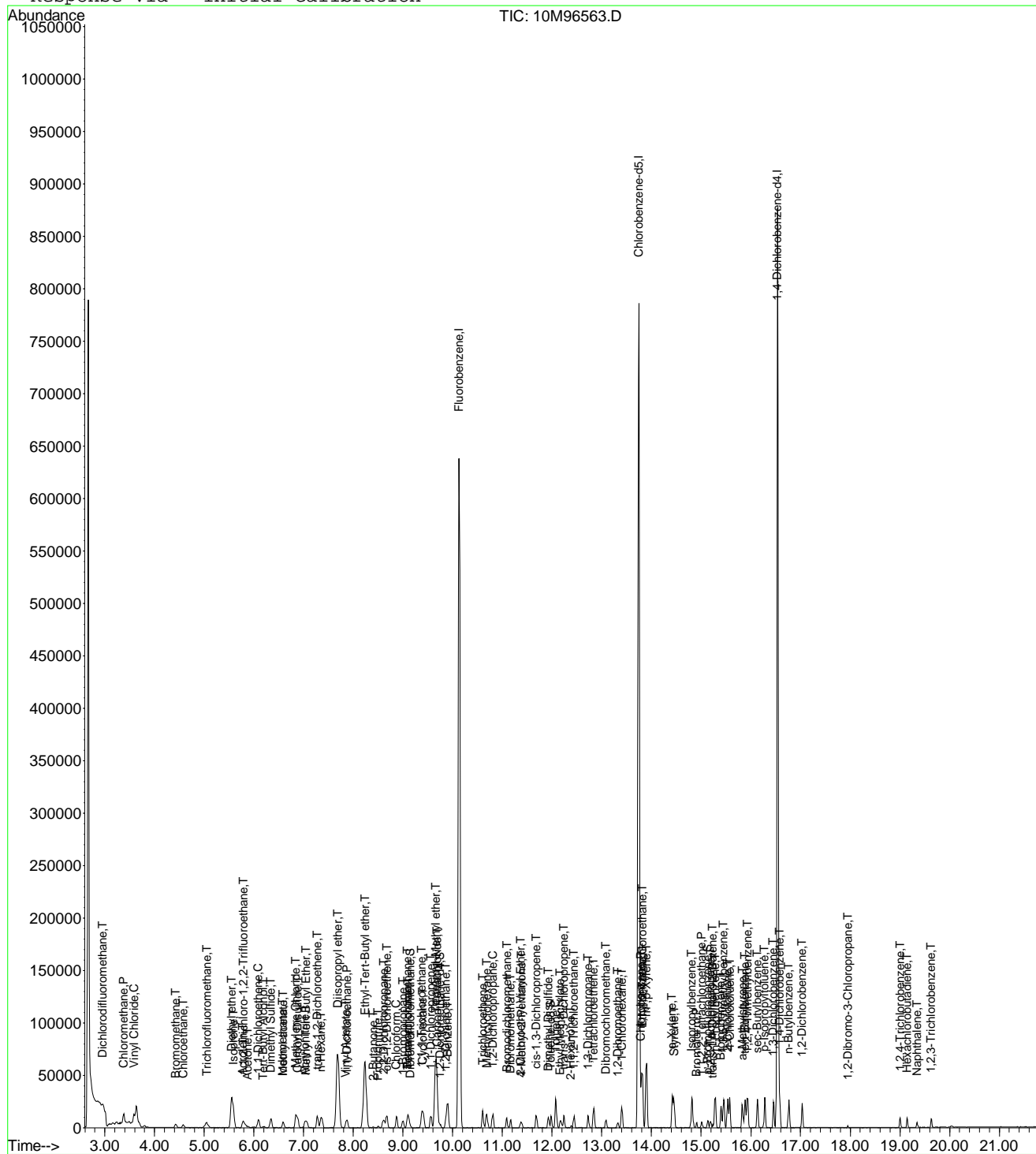
Page 2

Data File : C:\MSDCHEM\1\DATA\062612\10M96563.D
Acq On : 26 Jun 2012 11:39
Sample : WG401620-04 lug/L STD 8260
Misc : 1,1 STD52427
MS Integration Params: RTEINT.P
Quant Time: Jun 26 16:17 2012

Vial: 5
Operator: TMB
Inst : HPMS10
Multiplr: 1.00

Quant Results File: 8260BWT.RES

Method : C:\MSDCHEM\1\METHODS\8260BWT.M (RTE Integrator)
Title : 8260B/624 WT (SOP: OVL MSV01) 06/26/12 HPMS10
Last Update : Tue Jun 26 15:55:32 2012
Response via : Initial Calibration



Data File : C:\MSDCHEM\1\DATA\062612\10M96564.D Vial: 6
 Acq On : 26 Jun 2012 12:09 Operator: TMB
 Sample : WG401620-05 2ug/L STD 8260 Inst : HPMS10
 Misc : 1,1 STD52427 Multiplr: 1.00
 MS Integration Params: RTEINT.P
 Quant Time: Jun 26 16:17:20 2012 Quant Results File: 8260BWT.RES

Quant Method : C:\MSDCHEM\1\METHODS\8260BWT.M (RTE Integrator)
 Title : 8260B/624 WT (SOP: OVL MSV01) 06/26/12 HPMS10
 Last Update : Tue Jun 26 15:55:32 2012
 Response via : Initial Calibration
 DataAcq Meth : 8260BWT

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene	10.13	96	739409	25.00	ug/L	-0.03
57) Chlorobenzene-d5	13.74	117	533341	25.00	ug/L	-0.04
78) 1,4-Dichlorobenzene-d4	16.54	152	286214	25.00	ug/L	-0.04

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
37) Dibromofluoromethane	9.14	111	6440	0.95	ug/L	-0.03
Spiked Amount	25.000	Range 86 - 118	Recovery	=	3.80%#	
43) 1,2-Dichloroethane-d4	9.75	65	7623	1.08	ug/L	-0.03
Spiked Amount	25.000	Range 80 - 120	Recovery	=	4.32%#	
58) Toluene-d8	11.98	98	23692	1.04	ug/L	-0.03
Spiked Amount	25.000	Range 88 - 110	Recovery	=	4.16%#	
80) p-Bromofluorobenzene	15.13	95	9078	1.06	ug/L	-0.03
Spiked Amount	25.000	Range 86 - 115	Recovery	=	4.24%#	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	2.96	85	11078	1.75	ug/L	93
3) Chloromethane	3.38	50	24623	2.23	ug/L	100
4) Vinyl Chloride	3.58	62	17615	2.10	ug/L	96
6) Bromomethane	4.43	94	8265	1.95	ug/L	92
7) Chloroethane	4.58	64	9760	1.91	ug/L	95
8) Trichlorofluoromethane	5.06	101	22250	1.95	ug/L	98
9) Diethyl ether	5.55	59	137885	24.35	ug/L	92
10) Isoprene	5.60	67	18272	1.70	ug/L	100
11) Acrolein	5.78	56	20193	22.95	ug/L	99
12) 1,1,2-Trichloro-1,2,2-Trif	5.79	101	12052	1.86	ug/L	92
13) Acetone	5.87	43	4788	2.76	ug/L	84
14) 1,1-Dichloroethene	6.09	96	11621	1.88	ug/L	97
15) Tert-Butyl Alcohol	6.19	59	22677	49.18	ug/L	94
16) Dimethyl Sulfide	6.34	62	13937	1.74	ug/L	92
17) Iodomethane	6.59	142	17949	1.97	ug/L	92
18) Methyl acetate	6.60	43	9056	2.01	ug/L #	81
19) Methylene Chloride	6.85	84	14531	1.97	ug/L	86
20) Carbon Disulfide	6.88	76	35077	1.90	ug/L	98
21) Acrylonitrile	7.02	53	3804	1.75	ug/L	98
22) Methyl Tert Butyl Ether	7.05	73	31407	1.89	ug/L	98
23) trans-1,2-Dichloroethene	7.28	96	13652	1.93	ug/L	99
24) n-Hexane	7.35	57	18046	2.00	ug/L	95
25) Diisopropyl ether	7.68	45	636997	24.45	ug/L	96
26) Vinyl Acetate	7.85	43	8053	4.15	ug/L #	73
27) 1,1-Dichloroethane	7.87	63	26164	1.93	ug/L	95
28) Ethyl-Tert-Butyl ether	8.23	59	554431	24.49	ug/L	97
29) 2-Butanone	8.41	43	4317	1.78	ug/L	84
30) Propionitrile	8.50	54	17015	24.78	ug/L	97
31) 2,2-Dichloropropane	8.61	77	21217	2.00	ug/L	97
32) cis-1,2-Dichloroethene	8.68	96	14924	1.92	ug/L	96
33) Chloroform	8.87	83	25342	1.96	ug/L	99
34) 1-Bromopropane	9.01	122	2182	1.81	ug/L	98
35) Bromochloromethane	9.09	128	6460	1.87	ug/L	87
36) Tetrahydrofuran	9.11	42	36451	24.66	ug/L	91
38) 1,1,1-Trichloroethane	9.38	97	21536	1.90	ug/L	100
39) Cyclohexane	9.41	56	20412	1.88	ug/L	91
40) 1,1-Dichloropropene	9.56	75	18587	1.92	ug/L	100
41) Carbon Tetrachloride	9.70	117	18762	1.88	ug/L	97
42) Tert-Amyl-Methyl ether	9.66	73	439319	24.52	ug/L	97
45) 1,2-Dichloroethane	9.86	62	18985	2.01	ug/L	94

(#) = qualifier out of range (m) = manual integration
 10M96564.D 8260BWT.M Tue Jun 26 16:17:20 2012

Data File : C:\MSDCHEM\1\DATA\062612\10M96564.D Vial: 6
 Acq On : 26 Jun 2012 12:09 Operator: TMB
 Sample : WG401620-05 2ug/L STD 8260 Inst : HPMS10
 Misc : 1,1 STD52427 Multiplr: 1.00
 MS Integration Params: RTEINT.P
 Quant Time: Jun 26 16:17:20 2012 Quant Results File: 8260BWT.RES

Quant Method : C:\MSDCHEM\1\METHODS\8260BWT.M (RTE Integrator)
 Title : 8260B/624 WT (SOP: OVL MSV01) 06/26/12 HPMS10
 Last Update : Tue Jun 26 15:55:32 2012
 Response via : Initial Calibration
 DataAcq Meth : 8260BWT

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
46) Benzene	9.89	78	55713	1.97	ug/L	100
47) Trichloroethene	10.61	130	14104	1.86	ug/L	93
48) Methylcyclohexane	10.68	83	17439	1.83	ug/L	95
49) 1,2-Dichloropropane	10.80	63	15033	1.99	ug/L	90
50) Bromodichloromethane	11.08	83	18962	1.93	ug/L	97
51) 1,4-Dioxane	11.07	88	1963	40.77	ug/L	96
52) Dibromomethane	11.17	93	7610	1.92	ug/L	91
53) 2-Chloroethyl Vinyl Ether	11.37	63	6274	1.65	ug/L	91
54) 4-Methyl-2-Pentanone	11.40	58	2792	1.48	ug/L	93
55) cis-1,3-Dichloropropene	11.68	75	20221	1.89	ug/L	99
56) Dimethyl Disulfide	11.92	79	8202	3.78	ug/L	96
59) Toluene	12.08	91	57073	1.97	ug/L	99
60) Ethyl Methacrylate	12.17	69	11381	1.76	ug/L	92
61) Paraldehyde	12.19	89	2293	22.82	ug/L	39
62) trans-1,3-Dichloropropene	12.24	75	18266	1.88	ug/L	98
63) 1,1,2-Trichloroethane	12.44	97	10162	1.92	ug/L	99
64) 2-Hexanone	12.39	43	5773	1.71	ug/L #	60
65) 1,3-Dichloropropane	12.73	76	18370	1.97	ug/L	94
66) Tetrachloroethene	12.84	164	11722	1.94	ug/L	90
67) Dibromochloromethane	13.08	129	12586	1.91	ug/L	96
68) 1,2-Dibromoethane	13.32	107	9894	1.94	ug/L	99
69) 1-Chlorohexane	13.40	91	16410	1.82	ug/L	96
70) Chlorobenzene	13.79	112	37722	1.93	ug/L	99
71) 1,1,1,2-Tetrachloroethane	13.81	131	13987	1.88	ug/L	94
72) Ethylbenzene	13.81	106	19854	1.85	ug/L	92
73) m-,p-Xylene	13.89	106	47797	3.85	ug/L	96
74) o-Xylene	14.42	106	22958	1.84	ug/L	94
75) Styrene	14.45	104	35970	1.78	ug/L	99
76) Bromoform	14.91	173	7467	1.68	ug/L	98
77) Isopropylbenzene	14.81	105	58342	1.93	ug/L	98
79) 1,1,2,2-Tetrachloroethane	15.01	83	11598	2.02	ug/L	95
81) 1,2,3-Trichloropropane	15.20	110	3785	2.17	ug/L	77
82) trans-1,4-Dichloro-2-Butene	15.24	53	2959	1.96	ug/L	57
83) n-Propylbenzene	15.28	91	69462	2.01	ug/L	97
84) Bromobenzene	15.40	156	16451	1.96	ug/L	70
85) 1,3,5-Trimethylbenzene	15.46	105	47781	1.96	ug/L	97
86) 2-Chlorotoluene	15.53	91	50848	2.17	ug/L	98
87) 4-Chlorotoluene	15.58	91	38735	1.86	ug/L	98
88) a-Methylstyrene	15.83	118	23496	1.63	ug/L	96
89) tert-Butylbenzene	15.89	134	10812	1.91	ug/L	87
90) 1,2,4-Trimethylbenzene	15.93	105	50452	1.96	ug/L	98
91) sec-Butylbenzene	16.14	105	57112	1.95	ug/L	98
92) p-Isopropyltoluene	16.28	119	47688	1.89	ug/L	98
93) 1,3-Dichlorobenzene	16.46	146	31030	1.99	ug/L	93
94) 1,4-Dichlorobenzene	16.58	146	31022	1.97	ug/L	92
95) n-Butylbenzene	16.77	91	42990	1.92	ug/L	99
96) 1,2-Dichlorobenzene	17.04	146	28236	1.96	ug/L	94
97) 1,2-Dibromo-3-Chloropropane	17.96	157	1818	1.50	ug/L	100
98) 1,2,4-Trichlorobenzene	19.00	180	14648	1.80	ug/L	99
99) Hexachlorobutadiene	19.14	225	7027	1.99	ug/L	96
100) Naphthalene	19.35	128	18717	1.93	ug/L	97
101) 1,2,3-Trichlorobenzene	19.63	180	12680	2.03	ug/L	98

(#) = qualifier out of range (m) = manual integration
 10M96564.D 8260BWT.M Tue Jun 26 16:17:20 2012

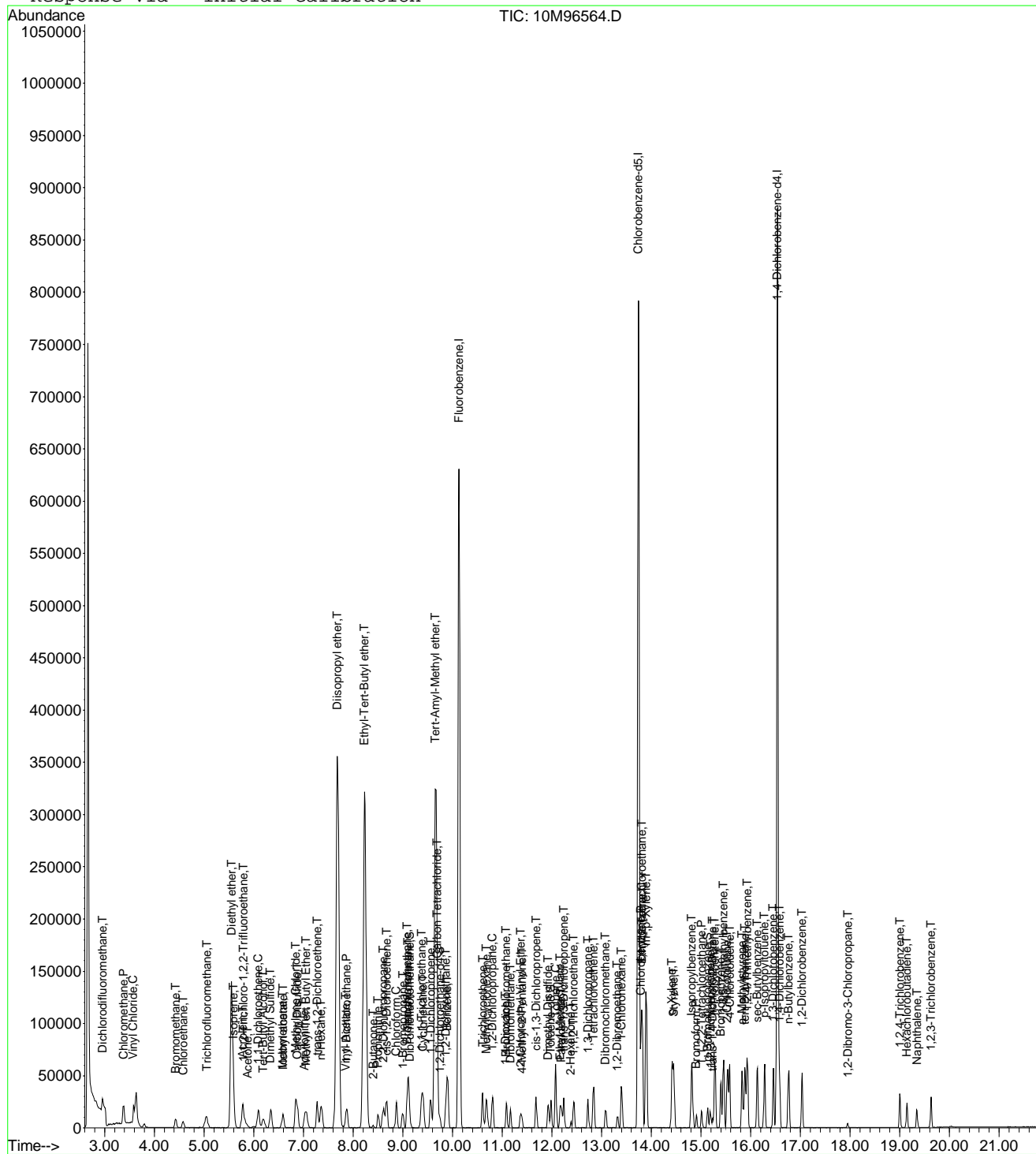
Page 2

Data File : C:\MSDCHEM\1\DATA\062612\10M96564.D
Acq On : 26 Jun 2012 12:09
Sample : WG401620-05 2ug/L STD 8260
Misc : 1,1 STD52427
MS Integration Params: RTEINT.P
Quant Time: Jun 26 16:17 2012

Vial: 6
Operator: TMB
Inst : HPMS10
Multiplr: 1.00

Quant Results File: 8260BWT.RES

Method : C:\MSDCHEM\1\METHODS\8260BWT.M (RTE Integrator)
Title : 8260B/624 WT (SOP: OVL MSV01) 06/26/12 HPMS10
Last Update : Tue Jun 26 15:55:32 2012
Response via : Initial Calibration



Data File : C:\MSDCHEM\1\DATA\062612\10M96565.D Vial: 7
 Acq On : 26 Jun 2012 12:39 Operator: TMB
 Sample : WG401620-06 5ug/L STD 8260 Inst : HPMS10
 Misc : 1,1 STD52427 Multiplr: 1.00
 MS Integration Params: RTEINT.P
 Quant Time: Jun 26 16:17:21 2012 Quant Results File: 8260BWT.RES

Quant Method : C:\MSDCHEM\1\METHODS\8260BWT.M (RTE Integrator)
 Title : 8260B/624 WT (SOP: OVL MSV01) 06/26/12 HPMS10
 Last Update : Tue Jun 26 15:55:32 2012
 Response via : Initial Calibration
 DataAcq Meth : 8260BWT

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene	10.13	96	755451	25.00	ug/L	-0.03
57) Chlorobenzene-d5	13.75	117	547528	25.00	ug/L	-0.03
78) 1,4-Dichlorobenzene-d4	16.54	152	299300	25.00	ug/L	-0.04

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
37) Dibromofluoromethane	9.15	111	17747	2.56	ug/L	-0.02
Spiked Amount	25.000	Range 86 - 118	Recovery	=	10.24%#	
43) 1,2-Dichloroethane-d4	9.75	65	19293	2.67	ug/L	-0.03
Spiked Amount	25.000	Range 80 - 120	Recovery	=	10.68%#	
58) Toluene-d8	11.98	98	61321	2.62	ug/L	-0.03
Spiked Amount	25.000	Range 88 - 110	Recovery	=	10.48%#	
80) p-Bromofluorobenzene	15.13	95	23638	2.64	ug/L	-0.03
Spiked Amount	25.000	Range 86 - 115	Recovery	=	10.56%#	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	2.96	85	29861	4.61	ug/L	99
3) Chloromethane	3.38	50	58814	5.21	ug/L	99
4) Vinyl Chloride	3.58	62	42373	4.95	ug/L	98
5) 1,3-Butadiene	3.63	54	32365	3.69	ug/L	86
6) Bromomethane	4.42	94	19698	4.54	ug/L	97
7) Chloroethane	4.58	64	25230	4.83	ug/L	96
8) Trichlorofluoromethane	5.04	101	59826	5.14	ug/L	100
9) Diethyl ether	5.55	59	283379	48.98	ug/L	93
10) Isoprene	5.58	67	49306	4.49	ug/L	94
11) Acrolein	5.78	56	43362	48.23	ug/L	97
12) 1,1,2-Trichloro-1,2,2-Trif	5.79	101	34164	5.17	ug/L	96
13) Acetone	5.87	43	9789	5.52	ug/L	96
14) 1,1-Dichloroethene	6.10	96	31373	4.97	ug/L	98
15) Tert-Butyl Alcohol	6.19	59	47711	101.28	ug/L	98
16) Dimethyl Sulfide	6.35	62	37706	4.60	ug/L	92
17) Iodomethane	6.58	142	54271	4.90	ug/L	91
18) Methyl acetate	6.60	43	22849	4.96	ug/L	89
19) Methylene Chloride	6.84	84	37071	4.91	ug/L	89
20) Carbon Disulfide	6.87	76	90073	4.78	ug/L	100
21) Acrylonitrile	7.02	53	10336	4.66	ug/L	99
22) Methyl Tert Butyl Ether	7.05	73	83091	4.89	ug/L	97
23) trans-1,2-Dichloroethene	7.28	96	35714	4.94	ug/L	97
24) n-Hexane	7.36	57	48938	5.30	ug/L	95
25) Diisopropyl ether	7.69	45	1330413	49.98	ug/L	95
26) Vinyl Acetate	7.84	43	27572	6.16	ug/L	92
27) 1,1-Dichloroethane	7.87	63	69822	5.04	ug/L	99
28) Ethyl-Tert-Butyl ether	8.24	59	1155877	49.98	ug/L	97
29) 2-Butanone	8.40	43	11863	4.78	ug/L	87
30) Propionitrile	8.51	54	34590	49.30	ug/L	97
31) 2,2-Dichloropropane	8.61	77	57020	5.26	ug/L	99
32) cis-1,2-Dichloroethene	8.67	96	38608	4.86	ug/L	93
33) Chloroform	8.87	83	67079	5.09	ug/L	100
34) 1-Bromopropane	9.00	122	6428	5.21	ug/L	94
35) Bromochloromethane	9.09	128	18252	5.17	ug/L	91
36) Tetrahydrofuran	9.12	42	73004	48.35	ug/L	92
38) 1,1,1-Trichloroethane	9.37	97	58041	5.01	ug/L	100
39) Cyclohexane	9.40	56	54442	4.91	ug/L	95
40) 1,1-Dichloropropene	9.56	75	49672	5.01	ug/L	100
41) Carbon Tetrachloride	9.69	117	51846	5.09	ug/L	99
42) Tert-Amyl-Methyl ether	9.66	73	905319	49.45	ug/L	98

(#) = qualifier out of range (m) = manual integration
 10M96565.D 8260BWT.M Tue Jun 26 16:17:22 2012

Data File : C:\MSDCHEM\1\DATA\062612\10M96565.D Vial: 7
 Acq On : 26 Jun 2012 12:39 Operator: TMB
 Sample : WG401620-06 5ug/L STD 8260 Inst : HPMS10
 Misc : 1,1 STD52427 Multiplr: 1.00
 MS Integration Params: RTEINT.P
 Quant Time: Jun 26 16:17:21 2012 Quant Results File: 8260BWT.RES

Quant Method : C:\MSDCHEM\1\METHODS\8260BWT.M (RTE Integrator)
 Title : 8260B/624 WT (SOP: OVL MSV01) 06/26/12 HPMS10
 Last Update : Tue Jun 26 15:55:32 2012
 Response via : Initial Calibration
 DataAcq Meth : 8260BWT

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
45) 1,2-Dichloroethane	9.86	62	49047	5.07	ug/L	92
46) Benzene	9.90	78	146174	5.05	ug/L	100
47) Trichloroethene	10.60	130	38586	4.99	ug/L	97
48) Methylcyclohexane	10.69	83	48379	4.97	ug/L	96
49) 1,2-Dichloropropane	10.81	63	39382	5.11	ug/L	94
50) Bromodichloromethane	11.09	83	49550	4.94	ug/L	99
51) 1,4-Dioxane	11.08	88	4011	81.54	ug/L	95
52) Dibromomethane	11.16	93	21129	5.21	ug/L	95
53) 2-Chloroethyl Vinyl Ether	11.37	63	17535	4.51	ug/L	97
54) 4-Methyl-2-Pentanone	11.40	58	8209	4.26	ug/L	97
55) cis-1,3-Dichloropropene	11.69	75	55215	5.04	ug/L	99
56) Dimethyl Disulfide	11.93	79	24855	5.95	ug/L	96
59) Toluene	12.07	91	152211	5.12	ug/L	97
60) Ethyl Methacrylate	12.16	69	32115	4.84	ug/L	96
61) Paraldehyde	12.19	89	5429	52.64	ug/L	42
62) trans-1,3-Dichloropropene	12.24	75	49589	4.96	ug/L	98
63) 1,1,2-Trichloroethane	12.44	97	27324	5.03	ug/L	99
64) 2-Hexanone	12.38	43	15473	4.46	ug/L #	57
65) 1,3-Dichloropropane	12.72	76	47570	4.96	ug/L	94
66) Tetrachloroethene	12.84	164	31853	5.14	ug/L	91
67) Dibromochloromethane	13.08	129	33250	4.92	ug/L	100
68) 1,2-Dibromoethane	13.32	107	26848	5.13	ug/L	98
69) 1-Chlorohexane	13.40	91	46272	5.01	ug/L	94
70) Chlorobenzene	13.79	112	99397	4.97	ug/L	99
71) 1,1,1,2-Tetrachloroethane	13.82	131	37725	4.95	ug/L	94
72) Ethylbenzene	13.82	106	54015	4.90	ug/L	94
73) m-,p-Xylene	13.90	106	127592	10.00	ug/L	93
74) o-Xylene	14.42	106	62474	4.87	ug/L	94
75) Styrene	14.46	104	101352	4.87	ug/L	98
76) Bromoform	14.91	173	21549	4.72	ug/L	100
77) Isopropylbenzene	14.81	105	158365	5.10	ug/L	98
79) 1,1,2,2-Tetrachloroethane	15.02	83	30773	5.13	ug/L	97
81) 1,2,3-Trichloropropane	15.19	110	9095	4.99	ug/L	91
82) trans-1,4-Dichloro-2-Butene	15.23	53	9898	4.96	ug/L	93
83) n-Propylbenzene	15.29	91	190143	5.27	ug/L	98
84) Bromobenzene	15.40	156	45322	5.16	ug/L	63
85) 1,3,5-Trimethylbenzene	15.45	105	131297	5.14	ug/L	99
86) 2-Chlorotoluene	15.53	91	125170	5.11	ug/L	99
87) 4-Chlorotoluene	15.57	91	113165	5.20	ug/L	98
88) a-Methylstyrene	15.83	118	64889	4.30	ug/L	99
89) tert-Butylbenzene	15.88	134	29358	4.96	ug/L	87
90) 1,2,4-Trimethylbenzene	15.94	105	137200	5.10	ug/L	99
91) sec-Butylbenzene	16.13	105	160271	5.23	ug/L	99
92) p-Isopropyltoluene	16.28	119	135349	5.13	ug/L	98
93) 1,3-Dichlorobenzene	16.45	146	82610	5.05	ug/L	93
94) 1,4-Dichlorobenzene	16.58	146	84134	5.11	ug/L	99
95) n-Butylbenzene	16.76	91	121283	5.18	ug/L	100
96) 1,2-Dichlorobenzene	17.03	146	77045	5.12	ug/L	93
97) 1,2-Dibromo-3-Chloropropane	17.95	157	5811	4.58	ug/L	83
98) 1,2,4-Trichlorobenzene	19.01	180	46543	4.64	ug/L	97
99) Hexachlorobutadiene	19.14	225	20162	5.46	ug/L	97
100) Naphthalene	19.35	128	65604	4.26	ug/L	97
101) 1,2,3-Trichlorobenzene	19.64	180	40410	4.77	ug/L	95

(#) = qualifier out of range (m) = manual integration
 10M96565.D 8260BWT.M Tue Jun 26 16:17:22 2012

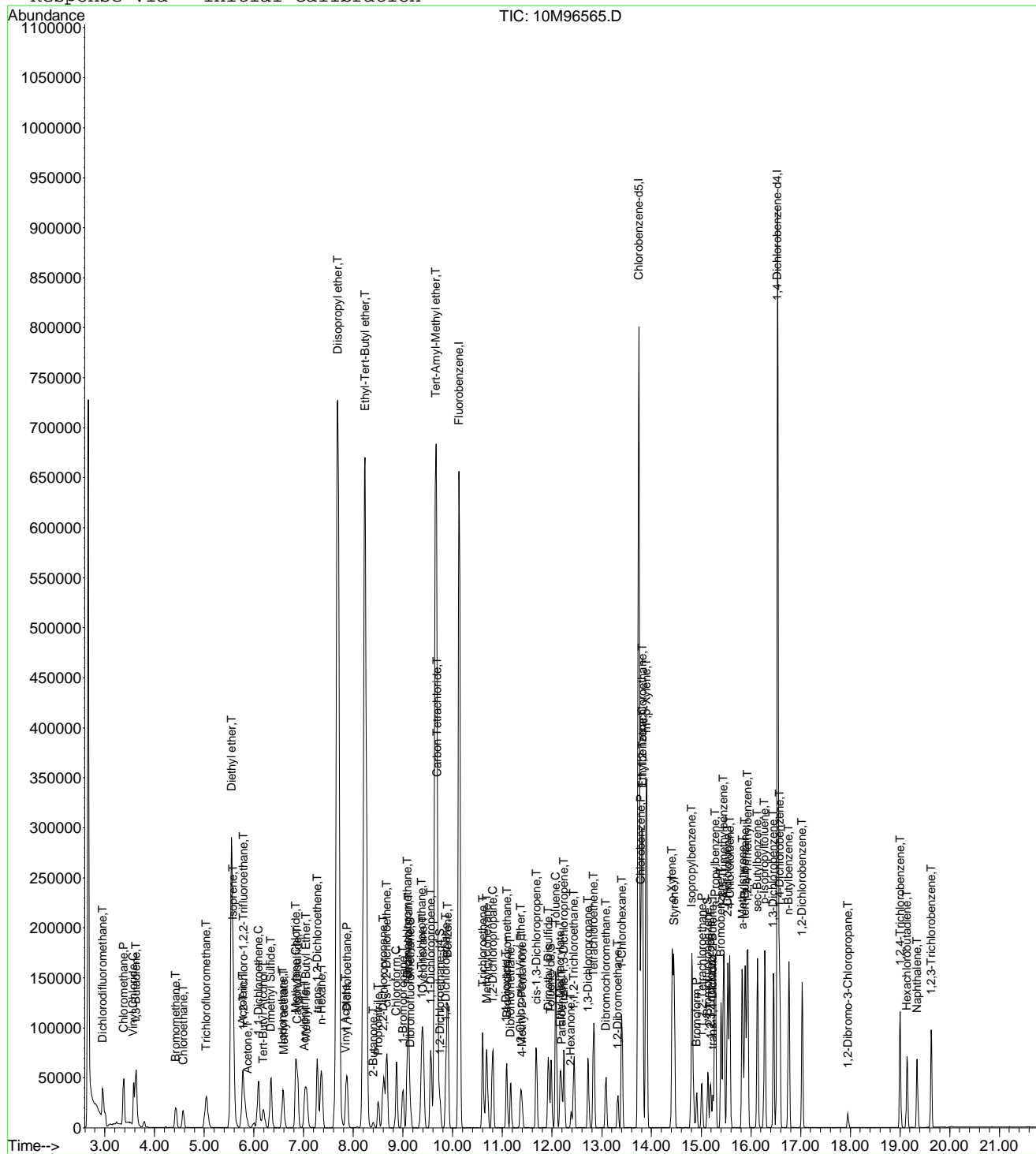
Page 2

Data File : C:\MSDCHEM\1\DATA\062612\10M96565.D
Acq On : 26 Jun 2012 12:39
Sample : WG401620-06 5ug/L STD 8260
Misc : 1,1 STD52427
MS Integration Params: RTEINT.P
Quant Time: Jun 26 16:17 2012

Vial: 7
Operator: TMB
Inst : HPMS10
Multiplr: 1.00

Quant Results File: 8260BWT.RES

Method : C:\MSDCHEM\1\METHODS\8260BWT.M (RTE Integrator)
Title : 8260B/624 WT (SOP: OVL MSV01) 06/26/12 HPMS10
Last Update : Tue Jun 26 15:55:32 2012
Response via : Initial Calibration



Data File : C:\MSDCHEM\1\DATA\062612\10M96566.D Vial: 8
 Acq On : 26 Jun 2012 13:10 Operator: TMB
 Sample : WG401620-07 20ug/L STD 8260 Inst : HPMS10
 Misc : 1,1 STD52427 Multiplr: 1.00
 MS Integration Params: RTEINT.P
 Quant Time: Jun 26 16:17:22 2012 Quant Results File: 8260BWT.RES

Quant Method : C:\MSDCHEM\1\METHODS\8260BWT.M (RTE Integrator)
 Title : 8260B/624 WT (SOP: OVL MSV01) 06/26/12 HPMS10
 Last Update : Tue Jun 26 15:55:32 2012
 Response via : Initial Calibration
 DataAcq Meth : 8260BWT

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene	10.13	96	767977	25.00	ug/L	-0.03
57) Chlorobenzene-d5	13.75	117	562522	25.00	ug/L	-0.03
78) 1,4-Dichlorobenzene-d4	16.54	152	318461	25.00	ug/L	-0.04

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
37) Dibromofluoromethane	9.15	111	69816	9.92	ug/L	-0.02
Spiked Amount	25.000	Range 86 - 118	Recovery	=	39.68%#	
43) 1,2-Dichloroethane-d4	9.75	65	75853	10.31	ug/L	-0.03
Spiked Amount	25.000	Range 80 - 120	Recovery	=	41.24%#	
58) Toluene-d8	11.98	98	240761	10.02	ug/L	-0.03
Spiked Amount	25.000	Range 88 - 110	Recovery	=	40.08%#	
80) p-Bromofluorobenzene	15.13	95	95341	10.00	ug/L	-0.03
Spiked Amount	25.000	Range 86 - 115	Recovery	=	40.00%#	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	2.96	85	141413	21.46	ug/L	99
3) Chloromethane	3.38	50	226707	19.74	ug/L	97
4) Vinyl Chloride	3.59	62	172318	19.81	ug/L	100
5) 1,3-Butadiene	3.63	54	128794	27.13	ug/L	92
6) Bromomethane	4.42	94	87010	19.73	ug/L	99
7) Chloroethane	4.58	64	102498	19.32	ug/L	97
8) Trichlorofluoromethane	5.04	101	238440	20.15	ug/L	99
9) Diethyl ether	5.55	59	468869	79.71	ug/L	93
10) Isoprene	5.59	67	210762	18.86	ug/L	96
11) Acrolein	5.78	56	72300	79.11	ug/L	99
12) 1,1,2-Trichloro-1,2,2-Trif	5.80	101	133959	19.93	ug/L	94
13) Acetone	5.87	43	36158	20.06	ug/L	97
14) 1,1-Dichloroethene	6.10	96	127924	19.92	ug/L	98
15) Tert-Butyl Alcohol	6.19	59	77669	162.18	ug/L	97
16) Dimethyl Sulfide	6.35	62	157574	18.91	ug/L	90
17) Iodomethane	6.58	142	234302	19.30	ug/L	91
18) Methyl acetate	6.60	43	87280	18.62	ug/L	92
19) Methylene Chloride	6.84	84	146983	19.16	ug/L	89
20) Carbon Disulfide	6.88	76	375080	19.56	ug/L	99
21) Acrylonitrile	7.02	53	41444	18.39	ug/L	99
22) Methyl Tert Butyl Ether	7.05	73	339401	19.63	ug/L	96
23) trans-1,2-Dichloroethene	7.28	96	143033	19.48	ug/L	97
24) n-Hexane	7.36	57	179764	19.17	ug/L	96
25) Diisopropyl ether	7.69	45	2209790	81.66	ug/L	95
26) Vinyl Acetate	7.84	43	134493	17.02	ug/L	95
27) 1,1-Dichloroethane	7.87	63	277801	19.71	ug/L	99
28) Ethyl-Tert-Butyl ether	8.24	59	1911877	81.32	ug/L	97
29) 2-Butanone	8.40	43	47887	18.99	ug/L	95
30) Propionitrile	8.51	54	58452	81.96	ug/L	99
31) 2,2-Dichloropropane	8.61	77	208026	18.88	ug/L	100
32) cis-1,2-Dichloroethene	8.67	96	158428	19.62	ug/L	100
33) Chloroform	8.87	83	263925	19.69	ug/L	99
34) 1-Bromopropane	9.00	122	25096	19.99	ug/L	99
35) Bromochloromethane	9.09	128	72990	20.33	ug/L	90
36) Tetrahydrofuran	9.11	42	125214	81.57	ug/L	92
38) 1,1,1-Trichloroethane	9.37	97	229861	19.53	ug/L	99
39) Cyclohexane	9.40	56	222364	19.71	ug/L	94
40) 1,1-Dichloropropene	9.56	75	199109	19.76	ug/L	100
41) Carbon Tetrachloride	9.69	117	206707	19.96	ug/L	99
42) Tert-Amyl-Methyl ether	9.66	73	1515112	81.40	ug/L	98

(#) = qualifier out of range (m) = manual integration
 10M96566.D 8260BWT.M Tue Jun 26 16:17:23 2012

Data File : C:\MSDCHEM\1\DATA\062612\10M96566.D Vial: 8
 Acq On : 26 Jun 2012 13:10 Operator: TMB
 Sample : WG401620-07 20ug/L STD 8260 Inst : HPMS10
 Misc : 1,1 STD52427 Multiplr: 1.00
 MS Integration Params: RTEINT.P
 Quant Time: Jun 26 16:17:22 2012 Quant Results File: 8260BWT.RES

Quant Method : C:\MSDCHEM\1\METHODS\8260BWT.M (RTE Integrator)
 Title : 8260B/624 WT (SOP: OVL MSV01) 06/26/12 HPMS10
 Last Update : Tue Jun 26 15:55:32 2012
 Response via : Initial Calibration
 DataAcq Meth : 8260BWT

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
45) 1,2-Dichloroethane	9.86	62	195950	19.94	ug/L	91
46) Benzene	9.90	78	575684	19.58	ug/L	100
47) Trichloroethene	10.60	130	151732	19.31	ug/L	96
48) Methylcyclohexane	10.69	83	191554	19.38	ug/L	97
49) 1,2-Dichloropropane	10.81	63	153295	19.58	ug/L	93
50) Bromodichloromethane	11.09	83	203179	19.93	ug/L	99
51) 1,4-Dioxane	11.08	88	7617	152.31	ug/L	98
52) Dibromomethane	11.16	93	84777	20.55	ug/L	93
53) 2-Chloroethyl Vinyl Ether	11.37	63	74825	18.93	ug/L	99
54) 4-Methyl-2-Pentanone	11.40	58	36753	18.76	ug/L	97
55) cis-1,3-Dichloropropene	11.68	75	223853	20.10	ug/L	99
56) Dimethyl Disulfide	11.93	79	120729	18.34	ug/L	99
59) Toluene	12.07	91	599349	19.61	ug/L	99
60) Ethyl Methacrylate	12.16	69	143445	21.06	ug/L	98
61) Paraldehyde	12.19	89	9389	88.61	ug/L	57
62) trans-1,3-Dichloropropene	12.24	75	207064	20.16	ug/L	99
63) 1,1,2-Trichloroethane	12.44	97	111978	20.05	ug/L	99
64) 2-Hexanone	12.38	43	67611	18.99	ug/L #	61
65) 1,3-Dichloropropane	12.72	76	196254	19.94	ug/L	98
66) Tetrachloroethene	12.84	164	124239	19.49	ug/L	92
67) Dibromochloromethane	13.08	129	140326	20.22	ug/L	100
68) 1,2-Dibromoethane	13.32	107	111779	20.78	ug/L	98
69) 1-Chlorohexane	13.40	91	191370	20.18	ug/L	97
70) Chlorobenzene	13.79	112	396830	19.29	ug/L	100
71) 1,1,1,2-Tetrachloroethane	13.82	131	155825	19.89	ug/L	95
72) Ethylbenzene	13.82	106	217490	19.20	ug/L	95
73) m-,p-Xylene	13.90	106	521946	39.82	ug/L	97
74) o-Xylene	14.42	106	255727	19.42	ug/L	97
75) Styrene	14.46	104	437849	20.49	ug/L	98
76) Bromoform	14.91	173	96677	20.62	ug/L	100
77) Isopropylbenzene	14.81	105	646943	20.28	ug/L	99
79) 1,1,2,2-Tetrachloroethane	15.02	83	126803	19.87	ug/L	99
81) 1,2,3-Trichloropropane	15.19	110	38239	19.74	ug/L	97
82) trans-1,4-Dichloro-2-Butene	15.23	53	41604	17.84	ug/L	88
83) n-Propylbenzene	15.29	91	772214	20.11	ug/L	98
84) Bromobenzene	15.40	156	181669	19.44	ug/L	65
85) 1,3,5-Trimethylbenzene	15.45	105	538045	19.79	ug/L	99
86) 2-Chlorotoluene	15.53	91	499949	19.20	ug/L	99
87) 4-Chlorotoluene	15.57	91	463783	20.02	ug/L	99
88) a-Methylstyrene	15.83	118	301690	18.78	ug/L	98
89) tert-Butylbenzene	15.88	134	119995	19.06	ug/L	87
90) 1,2,4-Trimethylbenzene	15.94	105	571535	19.98	ug/L	99
91) sec-Butylbenzene	16.13	105	650680	19.97	ug/L	98
92) p-Isopropyltoluene	16.28	119	559394	19.94	ug/L	97
93) 1,3-Dichlorobenzene	16.45	146	340822	19.60	ug/L	93
94) 1,4-Dichlorobenzene	16.58	146	341960	19.51	ug/L	94
95) n-Butylbenzene	16.76	91	500029	20.07	ug/L	99
96) 1,2-Dichlorobenzene	17.03	146	318829	19.91	ug/L	94
97) 1,2-Dibromo-3-Chloropropane	17.95	157	26611	19.71	ug/L	87
98) 1,2,4-Trichlorobenzene	19.01	180	213902	18.65	ug/L	98
99) Hexachlorobutadiene	19.15	225	78336	19.95	ug/L	97
100) Naphthalene	19.35	128	362896	18.26	ug/L	98
101) 1,2,3-Trichlorobenzene	19.64	180	185851	18.31	ug/L	98

(#) = qualifier out of range (m) = manual integration
 10M96566.D 8260BWT.M Tue Jun 26 16:17:23 2012

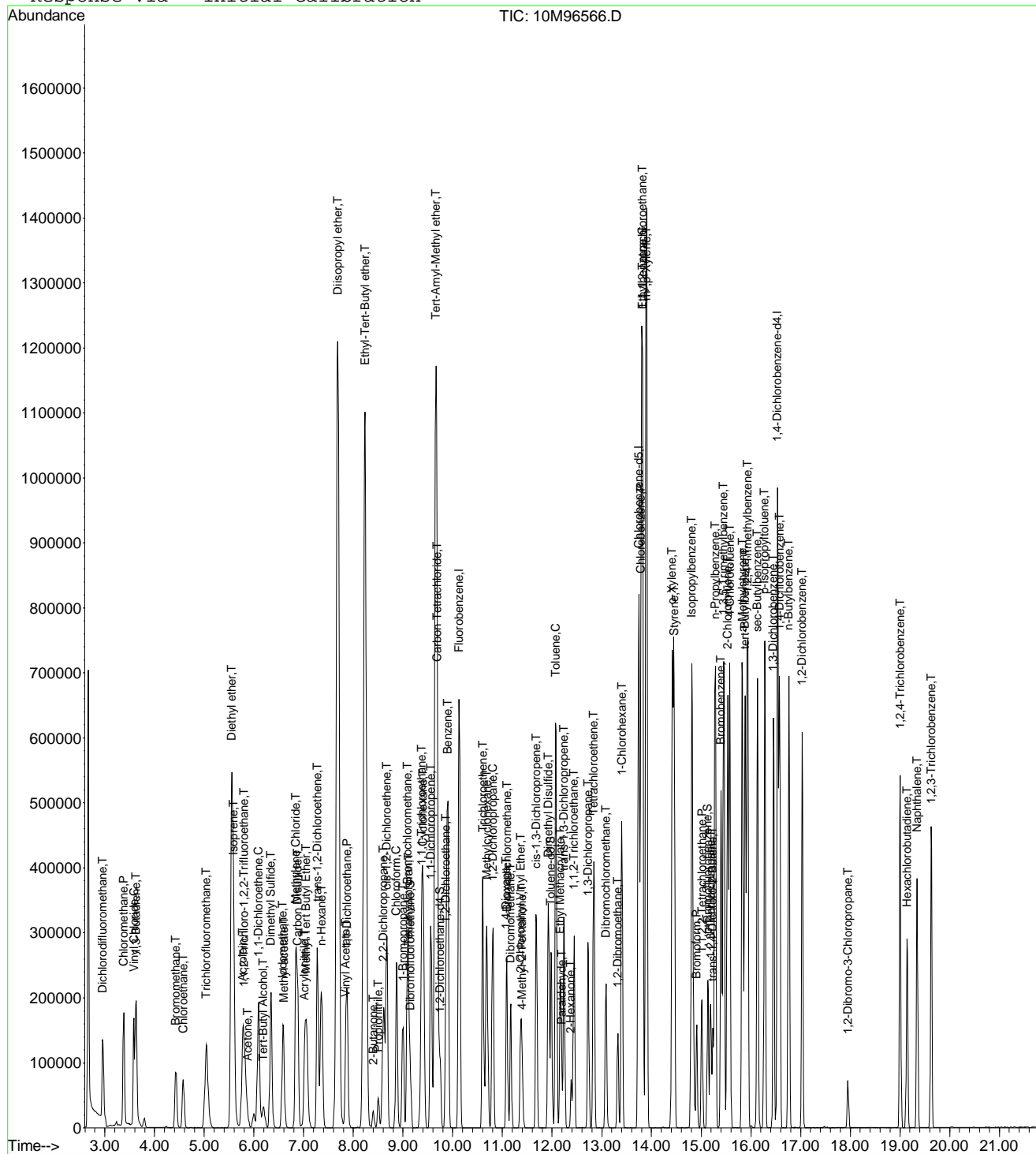
Page 2

Data File : C:\MSDCHEM\1\DATA\062612\10M96566.D
Acq On : 26 Jun 2012 13:10
Sample : WG401620-07 20ug/L STD 8260
Misc : 1,1 STD52427
MS Integration Params: RTEINT.P
Quant Time: Jun 26 16:17 2012

Vial: 8
Operator: TMB
Inst : HPMS10
Multiplr: 1.00

Quant Results File: 8260BWT.RES

Method : C:\MSDCHEM\1\METHODS\8260BWT.M (RTE Integrator)
Title : 8260B/624 WT (SOP: OVL MSV01) 06/26/12 HPMS10
Last Update : Tue Jun 26 15:55:32 2012
Response via : Initial Calibration



Data File : C:\MSDCHEM\1\DATA\062612\10M96567.D Vial: 9
 Acq On : 26 Jun 2012 13:40 Operator: TMB
 Sample : WG401620-08 50ug/L STD 8260 Inst : HPMS10
 Misc : 1,1 STD52427 Multiplr: 1.00
 MS Integration Params: RTEINT.P
 Quant Time: Jun 26 16:17:23 2012 Quant Results File: 8260BWT.RES

Quant Method : C:\MSDCHEM\1\METHODS\8260BWT.M (RTE Integrator)
 Title : 8260B/624 WT (SOP: OVL MSV01) 06/26/12 HPMS10
 Last Update : Tue Jun 26 15:55:32 2012
 Response via : Initial Calibration
 DataAcq Meth : 8260BWT

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene	10.13	96	805772	25.00	ug/L	-0.03
57) Chlorobenzene-d5	13.75	117	586339	25.00	ug/L	-0.03
78) 1,4-Dichlorobenzene-d4	16.54	152	335735	25.00	ug/L	-0.04

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
37) Dibromofluoromethane	9.15	111	190627	25.80	ug/L	-0.02
Spiked Amount	25.000	Range 86 - 118	Recovery	=	103.20%	
43) 1,2-Dichloroethane-d4	9.75	65	205504	26.63	ug/L	-0.03
Spiked Amount	25.000	Range 80 - 120	Recovery	=	106.52%	
58) Toluene-d8	11.98	98	656523	26.22	ug/L	-0.03
Spiked Amount	25.000	Range 88 - 110	Recovery	=	104.88%	
80) p-Bromofluorobenzene	15.13	95	260371	25.90	ug/L	-0.03
Spiked Amount	25.000	Range 86 - 115	Recovery	=	103.60%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	2.96	85	371362	53.71	ug/L	99
3) Chloromethane	3.38	50	564339	46.83	ug/L	98
4) Vinyl Chloride	3.58	62	426558	46.74	ug/L	100
5) 1,3-Butadiene	3.62	54	220294	47.64	ug/L	93
6) Bromomethane	4.42	94	259787	56.14	ug/L	98
7) Chloroethane	4.58	64	284605	51.13	ug/L	97
8) Trichlorofluoromethane	5.04	101	634344	51.09	ug/L	100
9) Diethyl ether	5.55	59	602087	97.56	ug/L	93
10) Isoprene	5.58	67	557682	47.57	ug/L	96
11) Acrolein	5.78	56	98269	102.48	ug/L	100
12) 1,1,2-Trichloro-1,2,2-Trif	5.79	101	361887	51.31	ug/L	94
13) Acetone	5.87	43	91751	48.52	ug/L	99
14) 1,1-Dichloroethene	6.09	96	352142	52.27	ug/L	99
15) Tert-Butyl Alcohol	6.19	59	99797	198.61	ug/L	99
16) Dimethyl Sulfide	6.35	62	421562	48.21	ug/L	91
17) Iodomethane	6.58	142	615398	47.59	ug/L	91
18) Methyl acetate	6.59	43	231634	47.10	ug/L	93
19) Methylene Chloride	6.84	84	403254	50.10	ug/L	90
20) Carbon Disulfide	6.87	76	986740	49.05	ug/L	99
21) Acrylonitrile	7.02	53	116287	49.18	ug/L	98
22) Methyl Tert Butyl Ether	7.05	73	892993	49.23	ug/L	97
23) trans-1,2-Dichloroethene	7.28	96	393092	51.01	ug/L	96
24) n-Hexane	7.36	57	469651	47.73	ug/L	97
25) Diisopropyl ether	7.68	45	2829273	99.65	ug/L	95
26) Vinyl Acetate	7.85	43	437673	45.86	ug/L	96
27) 1,1-Dichloroethane	7.87	63	765566	51.77	ug/L	99
28) Ethyl-Tert-Butyl ether	8.23	59	2461494	99.79	ug/L	97
29) 2-Butanone	8.40	43	131523	49.72	ug/L	95
30) Propionitrile	8.51	54	75724	101.19	ug/L	99
31) 2,2-Dichloropropane	8.61	77	572984	49.57	ug/L	99
32) cis-1,2-Dichloroethene	8.67	96	439674	51.89	ug/L	99
33) Chloroform	8.87	83	718734	51.10	ug/L	100
34) 1-Bromopropane	9.00	122	66637	50.60	ug/L	98
35) Bromochloromethane	9.09	128	198959	52.82	ug/L	90
36) Tetrahydrofuran	9.11	42	162578	100.94	ug/L	92
38) 1,1,1-Trichloroethane	9.37	97	627610	50.81	ug/L	100
39) Cyclohexane	9.41	56	571378	48.28	ug/L	95
40) 1,1-Dichloropropene	9.56	75	543618	51.42	ug/L	100
41) Carbon Tetrachloride	9.70	117	566993	52.17	ug/L	100
42) Tert-Amyl-Methyl ether	9.66	73	1935573	99.12	ug/L	98

(#) = qualifier out of range (m) = manual integration
 10M96567.D 8260BWT.M Tue Jun 26 16:17:24 2012

Data File : C:\MSDCHEM\1\DATA\062612\10M96567.D Vial: 9
 Acq On : 26 Jun 2012 13:40 Operator: TMB
 Sample : WG401620-08 50ug/L STD 8260 Inst : HPMS10
 Misc : 1,1 STD52427 Multiplr: 1.00
 MS Integration Params: RTEINT.P
 Quant Time: Jun 26 16:17:23 2012 Quant Results File: 8260BWT.RES

Quant Method : C:\MSDCHEM\1\METHODS\8260BWT.M (RTE Integrator)
 Title : 8260B/624 WT (SOP: OVL MSV01) 06/26/12 HPMS10
 Last Update : Tue Jun 26 15:55:32 2012
 Response via : Initial Calibration
 DataAcq Meth : 8260BWT

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
45) 1,2-Dichloroethane	9.86	62	524690	50.90	ug/L	91
46) Benzene	9.90	78	1558623	50.53	ug/L	99
47) Trichloroethene	10.60	130	417775	50.68	ug/L	97
48) Methylcyclohexane	10.69	83	492511	47.48	ug/L	98
49) 1,2-Dichloropropane	10.80	63	417023	50.76	ug/L	93
50) Bromodichloromethane	11.09	83	553324	51.73	ug/L	99
51) 1,4-Dioxane	11.08	88	10817	206.16	ug/L	89
52) Dibromomethane	11.16	93	229830	53.10	ug/L	93
53) 2-Chloroethyl Vinyl Ether	11.37	63	204985	49.42	ug/L	100
54) 4-Methyl-2-Pentanone	11.40	58	100936	49.11	ug/L	98
55) cis-1,3-Dichloropropene	11.68	75	616906	52.79	ug/L	98
56) Dimethyl Disulfide	11.93	79	341775	44.94	ug/L	99
59) Toluene	12.07	91	1657577	52.04	ug/L	99
60) Ethyl Methacrylate	12.17	69	395290	55.67	ug/L	97
61) Paraldehyde	12.20	89	10844	98.18	ug/L	99
62) trans-1,3-Dichloropropene	12.24	75	570231	53.27	ug/L	99
63) 1,1,2-Trichloroethane	12.44	97	304819	52.36	ug/L	100
64) 2-Hexanone	12.38	43	189084	50.95	ug/L #	62
65) 1,3-Dichloropropane	12.72	76	531720	51.82	ug/L	97
66) Tetrachloroethene	12.84	164	338745	50.99	ug/L	89
67) Dibromochloromethane	13.09	129	389726	53.88	ug/L	100
68) 1,2-Dibromoethane	13.32	107	305742	54.54	ug/L	100
69) 1-Chlorohexane	13.41	91	494933	50.06	ug/L	98
70) Chlorobenzene	13.79	112	1111423	51.84	ug/L	100
71) 1,1,1,2-Tetrachloroethane	13.82	131	437924	53.63	ug/L	95
72) Ethylbenzene	13.82	106	598623	50.69	ug/L	93
73) m-,p-Xylene	13.90	106	1452009	106.28	ug/L	99
74) o-Xylene	14.42	106	710373	51.74	ug/L	97
75) Styrene	14.45	104	1248652	56.05	ug/L	97
76) Bromoform	14.91	173	266285	54.49	ug/L	98
77) Isopropylbenzene	14.81	105	1762233	53.00	ug/L	100
79) 1,1,2,2-Tetrachloroethane	15.01	83	345773	51.39	ug/L	99
81) 1,2,3-Trichloropropane	15.19	110	101583	49.73	ug/L #	22
82) trans-1,4-Dichloro-2-Butene	15.23	53	114353	45.56	ug/L #	35
83) n-Propylbenzene	15.29	91	2074706	51.25	ug/L	99
84) Bromobenzene	15.40	156	500114	50.77	ug/L	65
85) 1,3,5-Trimethylbenzene	15.45	105	1476460	51.51	ug/L	100
86) 2-Chlorotoluene	15.53	91	1375216	50.09	ug/L	99
87) 4-Chlorotoluene	15.58	91	1240180	50.79	ug/L	99
88) a-Methylstyrene	15.82	118	813592	48.03	ug/L	99
89) tert-Butylbenzene	15.89	134	331469	49.93	ug/L	86
90) 1,2,4-Trimethylbenzene	15.93	105	1564638	51.88	ug/L	100
91) sec-Butylbenzene	16.13	105	1765098	51.37	ug/L	98
92) p-Isopropyltoluene	16.28	119	1533713	51.85	ug/L	97
93) 1,3-Dichlorobenzene	16.45	146	934887	50.99	ug/L	94
94) 1,4-Dichlorobenzene	16.58	146	933685	50.52	ug/L	93
95) n-Butylbenzene	16.76	91	1353615	51.53	ug/L	98
96) 1,2-Dichlorobenzene	17.03	146	865658	51.29	ug/L	94
97) 1,2-Dibromo-3-Chloropropane	17.95	157	72943	51.24	ug/L	89
98) 1,2,4-Trichlorobenzene	19.01	180	600647	48.65	ug/L	99
99) Hexachlorobutadiene	19.14	225	207002	50.00	ug/L	98
100) Naphthalene	19.35	128	1046657	48.33	ug/L	99
101) 1,2,3-Trichlorobenzene	19.63	180	512753	46.81	ug/L	98

(#) = qualifier out of range (m) = manual integration
 10M96567.D 8260BWT.M Tue Jun 26 16:17:24 2012

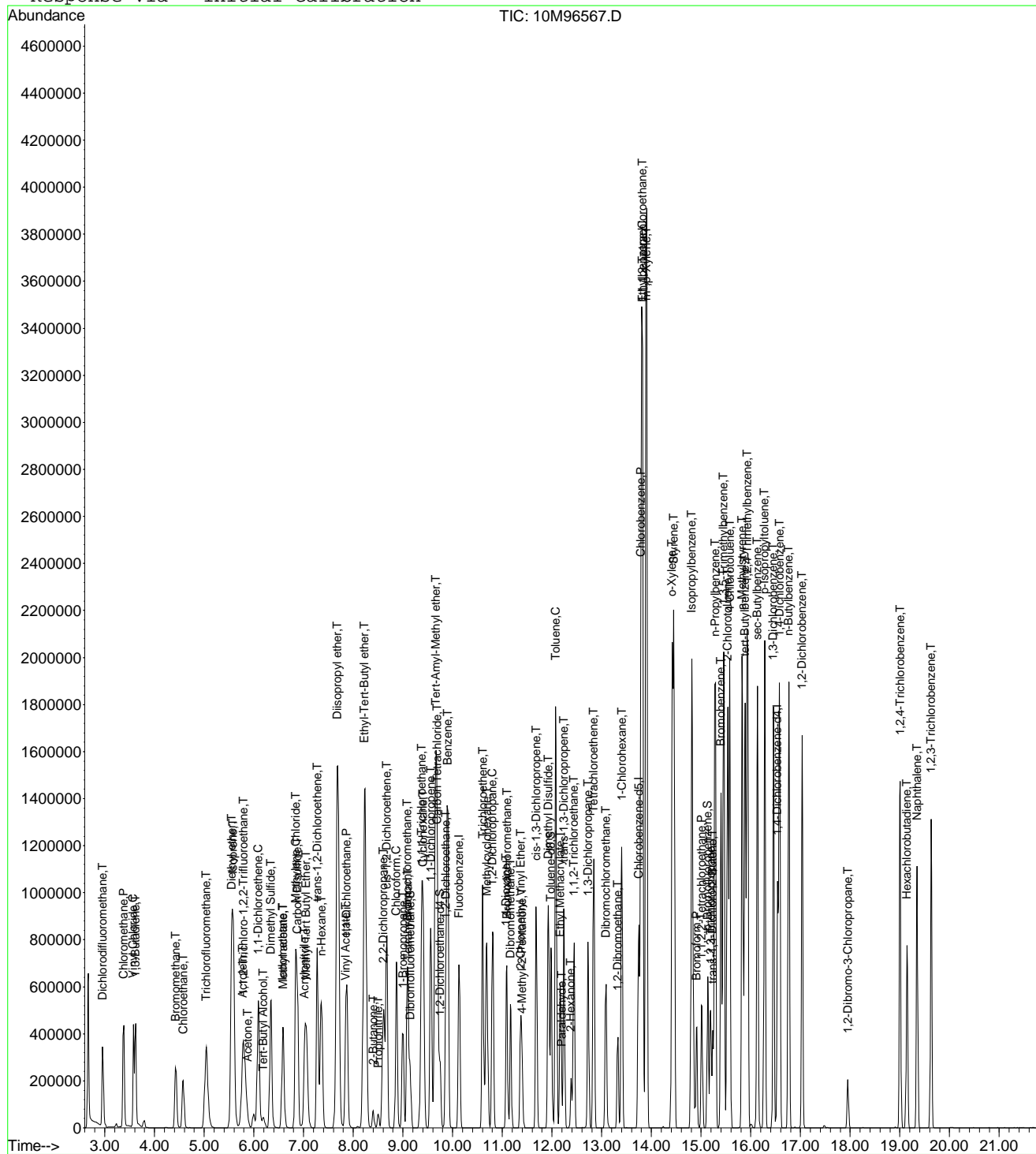
Page 2

Data File : C:\MSDCHEM\1\DATA\062612\10M96567.D
Acq On : 26 Jun 2012 13:40
Sample : WG401620-08 50ug/L STD 8260
Misc : 1,1 STD52427
MS Integration Params: RTEINT.P
Quant Time: Jun 26 16:17 2012

Vial: 9
Operator: TMB
Inst : HPMS10
Multiplr: 1.00

Quant Results File: 8260BWT.RES

Method : C:\MSDCHEM\1\METHODS\8260BWT.M (RTE Integrator)
Title : 8260B/624 WT (SOP: OVL MSV01) 06/26/12 HPMS10
Last Update : Tue Jun 26 15:55:32 2012
Response via : Initial Calibration



Data File : C:\MSDCHEM\1\DATA\062612\10M96568.D Vial: 10
 Acq On : 26 Jun 2012 14:10 Operator: TMB
 Sample : WG401620-09 100ug/L STD 8260 Inst : HPMS10
 Misc : 1,1 STD52427 Multiplr: 1.00
 MS Integration Params: RTEINT.P
 Quant Time: Jun 26 16:17:25 2012 Quant Results File: 8260BWT.RES

Quant Method : C:\MSDCHEM\1\METHODS\8260BWT.M (RTE Integrator)
 Title : 8260B/624 WT (SOP: OVL MSV01) 06/26/12 HPMS10
 Last Update : Tue Jun 26 15:55:32 2012
 Response via : Initial Calibration
 DataAcq Meth : 8260BWT

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene	10.13	96	819320	25.00	ug/L	-0.03
57) Chlorobenzene-d5	13.75	117	605092	25.00	ug/L	-0.03
78) 1,4-Dichlorobenzene-d4	16.54	152	346237	25.00	ug/L	-0.04

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
37) Dibromofluoromethane	9.15	111	374847	49.90	ug/L	-0.02
Spiked Amount	25.000	Range 86 - 118	Recovery	=	199.60%#	
43) 1,2-Dichloroethane-d4	9.75	65	398775	50.82	ug/L	-0.03
Spiked Amount	25.000	Range 80 - 120	Recovery	=	203.28%#	
58) Toluene-d8	11.98	98	1321365	51.14	ug/L	-0.03
Spiked Amount	25.000	Range 88 - 110	Recovery	=	204.56%#	
80) p-Bromofluorobenzene	15.13	95	532149	51.32	ug/L	-0.03
Spiked Amount	25.000	Range 86 - 115	Recovery	=	205.28%#	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	2.96	85	775054	110.24	ug/L	98
3) Chloromethane	3.38	50	1103112	90.03	ug/L	97
4) Vinyl Chloride	3.58	62	823089	88.71	ug/L	100
5) 1,3-Butadiene	3.62	54	416666	95.81	ug/L	94
6) Bromomethane	4.42	94	568928	120.91	ug/L	99
7) Chloroethane	4.57	64	581860	102.81	ug/L	98
8) Trichlorofluoromethane	5.04	101	1301767	103.11	ug/L	100
9) Diethyl ether	5.55	59	1295083	206.39	ug/L	93
10) Isoprene	5.58	67	1265185	106.14	ug/L	97
11) Acrolein	5.77	56	216477	222.02	ug/L	99
12) 1,1,2-Trichloro-1,2,2-Trif	5.80	101	756199	105.44	ug/L	93
13) Acetone	5.87	43	185306	96.37	ug/L	99
14) 1,1-Dichloroethene	6.09	96	726833	106.10	ug/L	100
15) Tert-Butyl Alcohol	6.19	59	214792	420.40	ug/L	99
16) Dimethyl Sulfide	6.34	62	913073	102.70	ug/L	92
17) Iodomethane	6.58	142	1311769	99.25	ug/L	90
18) Methyl acetate	6.59	43	510512	102.08	ug/L	95
19) Methylene Chloride	6.84	84	824541	100.75	ug/L	91
20) Carbon Disulfide	6.87	76	2156730	105.44	ug/L	100
21) Acrylonitrile	7.02	53	245845	102.25	ug/L	98
22) Methyl Tert Butyl Ether	7.05	73	1946303	105.53	ug/L	96
23) trans-1,2-Dichloroethene	7.28	96	810315	103.42	ug/L	97
24) n-Hexane	7.36	57	1038304	103.78	ug/L	97
25) Diisopropyl ether	7.69	45	5918192	204.99	ug/L	95
26) Vinyl Acetate	7.84	43	953338	94.47	ug/L	96
27) 1,1-Dichloroethane	7.87	63	1555690	103.47	ug/L	99
28) Ethyl-Tert-Butyl ether	8.24	59	5188025	206.85	ug/L	97
29) 2-Butanone	8.40	43	279061	103.75	ug/L	95
30) Propionitrile	8.51	54	162630	213.74	ug/L	99
31) 2,2-Dichloropropane	8.61	77	1189588	101.22	ug/L	98
32) cis-1,2-Dichloroethene	8.67	96	894553	103.82	ug/L	99
33) Chloroform	8.87	83	1433607	100.24	ug/L	100
34) 1-Bromopropane	9.00	122	144244	107.72	ug/L	98
35) Bromochloromethane	9.09	128	406821	106.22	ug/L	91
36) Tetrahydrofuran	9.11	42	348378	212.72	ug/L	92
38) 1,1,1-Trichloroethane	9.37	97	1281598	102.05	ug/L	100
39) Cyclohexane	9.41	56	1299517	107.98	ug/L	94
40) 1,1-Dichloropropene	9.56	75	1120480	104.24	ug/L	99
41) Carbon Tetrachloride	9.69	117	1168461	105.74	ug/L	100
42) Tert-Amyl-Methyl ether	9.66	73	4104894	206.73	ug/L	99

(#) = qualifier out of range (m) = manual integration
 10M96568.D 8260BWT.M Tue Jun 26 16:17:25 2012

Data File : C:\MSDCHEM\1\DATA\062612\10M96568.D Vial: 10
 Acq On : 26 Jun 2012 14:10 Operator: TMB
 Sample : WG401620-09 100ug/L STD 8260 Inst : HPMS10
 Misc : 1,1 STD52427 Multiplr: 1.00
 MS Integration Params: RTEINT.P
 Quant Time: Jun 26 16:17:25 2012 Quant Results File: 8260BWT.RES

Quant Method : C:\MSDCHEM\1\METHODS\8260BWT.M (RTE Integrator)
 Title : 8260B/624 WT (SOP: OVL MSV01) 06/26/12 HPMS10
 Last Update : Tue Jun 26 15:55:32 2012
 Response via : Initial Calibration
 DataAcq Meth : 8260BWT

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
45) 1,2-Dichloroethane	9.86	62	1053545	100.51	ug/L	90
46) Benzene	9.90	78	3157705	100.68	ug/L	99
47) Trichloroethene	10.60	130	857329	102.29	ug/L	97
48) Methylcyclohexane	10.69	83	1103035	104.58	ug/L	97
49) 1,2-Dichloropropane	10.81	63	844032	101.03	ug/L	92
50) Bromodichloromethane	11.09	83	1118819	102.86	ug/L	99
51) 1,4-Dioxane	11.08	88	22472	421.20	ug/L	96
52) Dibromomethane	11.16	93	462894	105.17	ug/L	93
53) 2-Chloroethyl Vinyl Ether	11.37	63	429626	101.88	ug/L	100
54) 4-Methyl-2-Pentanone	11.40	58	212677	101.77	ug/L	99
55) cis-1,3-Dichloropropene	11.68	75	1256921	105.79	ug/L	97
56) Dimethyl Disulfide	11.93	79	760954	95.23	ug/L	99
59) Toluene	12.07	91	3360463	102.23	ug/L	99
60) Ethyl Methacrylate	12.17	69	872629	119.08	ug/L	98
61) Paraldehyde	12.20	89	22599	198.27	ug/L	90
62) trans-1,3-Dichloropropene	12.24	75	1152218	104.30	ug/L	99
63) 1,1,2-Trichloroethane	12.44	97	613958	102.19	ug/L	99
64) 2-Hexanone	12.38	43	396333	103.49	ug/L #	65
65) 1,3-Dichloropropane	12.72	76	1065412	100.61	ug/L	98
66) Tetrachloroethene	12.84	164	701614	102.35	ug/L	92
67) Dibromochloromethane	13.08	129	798290	106.95	ug/L	100
68) 1,2-Dibromoethane	13.32	107	620107	107.19	ug/L	99
69) 1-Chlorohexane	13.41	91	1124954	110.26	ug/L	98
70) Chlorobenzene	13.79	112	2338315	105.70	ug/L	99
71) 1,1,1,2-Tetrachloroethane	13.82	131	936581	111.14	ug/L	96
72) Ethylbenzene	13.82	106	1343056	110.21	ug/L	99
73) m-,p-Xylene	13.90	106	3078631	218.35	ug/L	96
74) o-Xylene	14.42	106	1517194	107.09	ug/L	100
75) Styrene	14.46	104	2636962	114.70	ug/L	97
76) Bromoform	14.91	173	573241	113.67	ug/L	99
77) Isopropylbenzene	14.81	105	3729153	108.68	ug/L	99
79) 1,1,2,2-Tetrachloroethane	15.02	83	697781	100.57	ug/L	100
81) 1,2,3-Trichloropropane	15.19	110	207838	98.67	ug/L #	23
82) trans-1,4-Dichloro-2-Butene	15.23	53	255488	97.99	ug/L #	30
83) n-Propylbenzene	15.29	91	4351743	104.23	ug/L	100
84) Bromobenzene	15.40	156	1040100	102.38	ug/L	65
85) 1,3,5-Trimethylbenzene	15.45	105	3104976	105.04	ug/L	98
86) 2-Chlorotoluene	15.53	91	2814535	99.40	ug/L	100
87) 4-Chlorotoluene	15.58	91	2635284	104.66	ug/L	100
88) a-Methylstyrene	15.83	118	1868135	106.94	ug/L	98
89) tert-Butylbenzene	15.89	134	717525	104.80	ug/L	85
90) 1,2,4-Trimethylbenzene	15.94	105	3269329	105.11	ug/L	98
91) sec-Butylbenzene	16.13	105	3735155	105.42	ug/L	96
92) p-Isopropyltoluene	16.28	119	3275421	107.38	ug/L	96
93) 1,3-Dichlorobenzene	16.45	146	1948948	103.07	ug/L	95
94) 1,4-Dichlorobenzene	16.58	146	1947996	102.20	ug/L	94
95) n-Butylbenzene	16.76	91	2923662	107.92	ug/L	98
96) 1,2-Dichlorobenzene	17.03	146	1796112	103.19	ug/L	95
97) 1,2-Dibromo-3-Chloropropane	17.95	157	155241	105.74	ug/L	88
98) 1,2,4-Trichlorobenzene	19.01	180	1290424	99.64	ug/L	99
99) Hexachlorobutadiene	19.14	225	444096	104.01	ug/L	98
100) Naphthalene	19.35	128	2245093	99.53	ug/L	98
101) 1,2,3-Trichlorobenzene	19.63	180	1088784	95.64	ug/L	98

(#) = qualifier out of range (m) = manual integration
 10M96568.D 8260BWT.M Tue Jun 26 16:17:25 2012

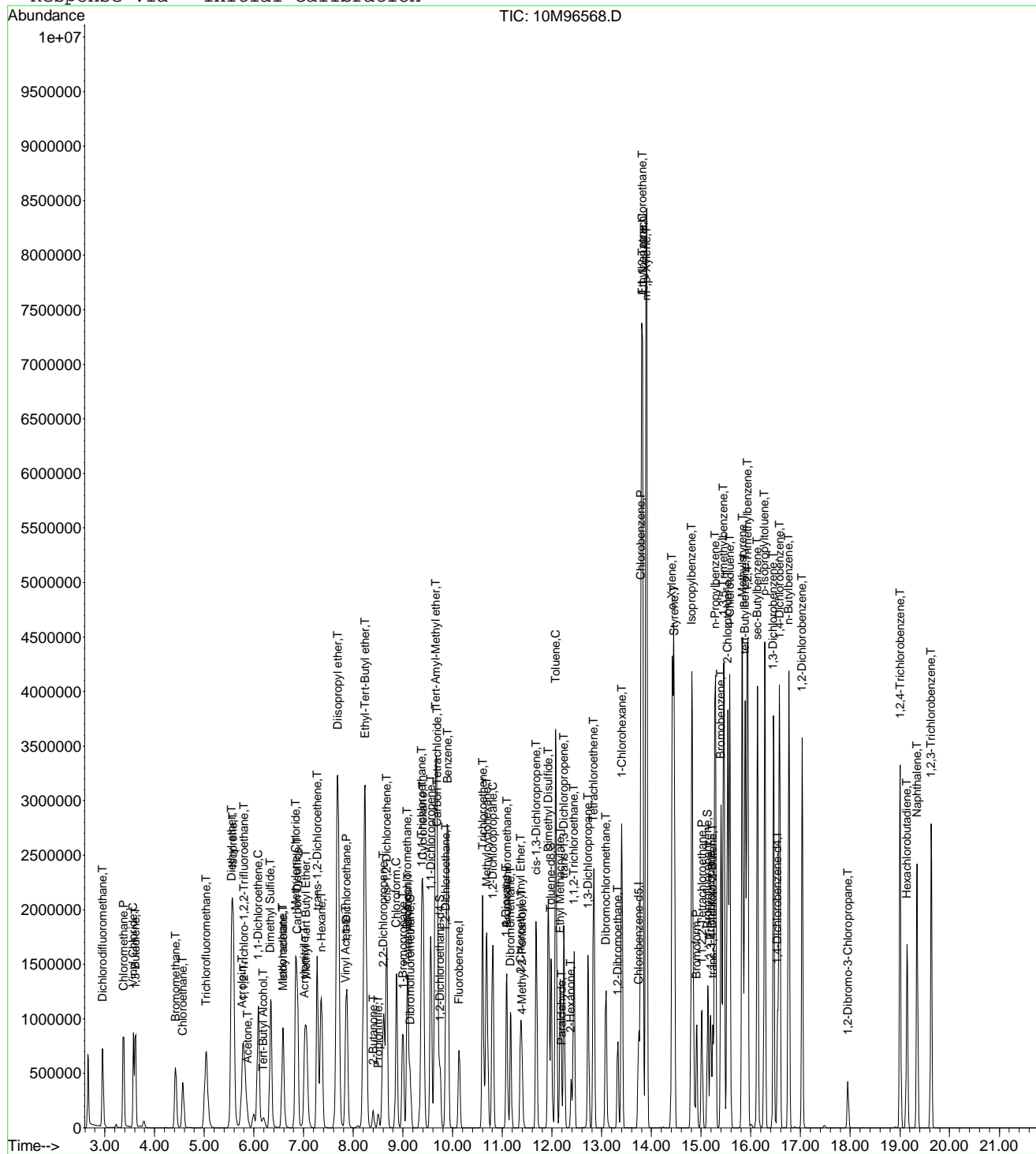
Page 2

Data File : C:\MSDCHEM\1\DATA\062612\10M96568.D
Acq On : 26 Jun 2012 14:10
Sample : WG401620-09 100ug/L STD 8260
Misc : 1,1 STD52427
MS Integration Params: RTEINT.P
Quant Time: Jun 26 16:17 2012

Vial: 10
Operator: TMB
Inst : HPMS10
Multiplr: 1.00

Quant Results File: 8260BWT.RES

Method : C:\MSDCHEM\1\METHODS\8260BWT.M (RTE Integrator)
Title : 8260B/624 WT (SOP: OVL MSV01) 06/26/12 HPMS10
Last Update : Tue Jun 26 15:55:32 2012
Response via : Initial Calibration



Data File : C:\MSDCHEM\1\DATA\062612\10M96569.D Vial: 11
 Acq On : 26 Jun 2012 14:41 Operator: TMB
 Sample : WG401620-10 200ug/L STD 8260 Inst : HPMS10
 Misc : 1,1 STD52427 Multiplr: 1.00
 MS Integration Params: RTEINT.P
 Quant Time: Jun 26 16:17:26 2012 Quant Results File: 8260BWT.RES

Quant Method : C:\MSDCHEM\1\METHODS\8260BWT.M (RTE Integrator)
 Title : 8260B/624 WT (SOP: OVL MSV01) 06/26/12 HPMS10
 Last Update : Tue Jun 26 15:55:32 2012
 Response via : Initial Calibration
 DataAcq Meth : 8260BWT

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene	10.13	96	842396	25.00	ug/L	-0.03
57) Chlorobenzene-d5	13.74	117	641858	25.00	ug/L	-0.04
78) 1,4-Dichlorobenzene-d4	16.54	152	346959	25.00	ug/L	-0.04

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
37) Dibromofluoromethane	9.14	111	775140	100.36	ug/L	-0.03
Spiked Amount	25.000	Range 86 - 118	Recovery	=	401.44%#	
43) 1,2-Dichloroethane-d4	9.75	65	817921	101.39	ug/L	-0.03
Spiked Amount	25.000	Range 80 - 120	Recovery	=	405.56%#	
58) Toluene-d8	11.98	98	2787293	101.69	ug/L	-0.03
Spiked Amount	25.000	Range 88 - 110	Recovery	=	406.76%#	
80) p-Bromofluorobenzene	15.13	95	1147929	110.48	ug/L	-0.03
Spiked Amount	25.000	Range 86 - 115	Recovery	=	441.92%#	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	2.96	85	1439107	199.09	ug/L	99
3) Chloromethane	3.37	50	1966919	156.13	ug/L	98
4) Vinyl Chloride	3.57	62	1534317	160.83	ug/L	100
5) 1,3-Butadiene	3.61	54	791497	196.11	ug/L	94
6) Bromomethane	4.42	94	1268228	262.14	ug/L	99
7) Chloroethane	4.57	64	1219708	209.62	ug/L	98
8) Trichlorofluoromethane	5.04	101	2586379	199.24	ug/L	100
9) Diethyl ether	5.54	59	5197	0.81	ug/L #	52
10) Isoprene	5.58	67	2565488	209.33	ug/L	98
11) Acrolein	5.77	56	2787	2.78	ug/L	80
12) 1,1,2-Trichloro-1,2,2-Trif	5.79	101	1468349	199.13	ug/L	93
13) Acetone	5.87	43	390065	197.30	ug/L	98
14) 1,1-Dichloroethene	6.09	96	1511209	214.55	ug/L	98
16) Dimethyl Sulfide	6.34	62	1960602	214.49	ug/L	93
17) Iodomethane	6.58	142	2776522	203.83	ug/L	90
18) Methyl acetate	6.60	43	1088692	211.74	ug/L	97
19) Methylene Chloride	6.84	84	1771708	210.56	ug/L	92
20) Carbon Disulfide	6.88	76	4482819	213.15	ug/L	100
21) Acrylonitrile	7.02	53	534751	216.32	ug/L	98
22) Methyl Tert Butyl Ether	7.05	73	4157075	219.23	ug/L	96
23) trans-1,2-Dichloroethene	7.28	96	1718927	213.37	ug/L	98
24) n-Hexane	7.35	57	2029271	197.27	ug/L	97
26) Vinyl Acetate	7.85	43	2226647	210.42	ug/L	97
27) 1,1-Dichloroethane	7.87	63	3265729	211.25	ug/L	99
28) Ethyl-Tert-Butyl ether	8.24	59	24370	0.95	ug/L #	46
29) 2-Butanone	8.40	43	578974	209.36	ug/L	96
30) Propionitrile	8.50	54	205	0.26	ug/L #	57
31) 2,2-Dichloropropane	8.61	77	2413911	199.76	ug/L	97
32) cis-1,2-Dichloroethene	8.68	96	1881674	212.40	ug/L	98
33) Chloroform	8.87	83	2978973	202.60	ug/L	99
34) 1-Bromopropane	9.00	122	301446	218.94	ug/L	98
35) Bromochloromethane	9.09	128	864099	219.43	ug/L	91
36) Tetrahydrofuran	9.11	42	887	0.53	ug/L #	33
38) 1,1,1-Trichloroethane	9.38	97	2634472	204.02	ug/L	100
39) Cyclohexane	9.40	56	2595428	209.76	ug/L	94
40) 1,1-Dichloropropene	9.56	75	2295794	207.73	ug/L	99
41) Carbon Tetrachloride	9.70	117	2316509	203.90	ug/L	100
42) Tert-Amyl-Methyl ether	9.56	73	334330	16.38	ug/L #	58
45) 1,2-Dichloroethane	9.86	62	2206042	204.69	ug/L	89
46) Benzene	9.89	78	6531907	202.56	ug/L	97

(#) = qualifier out of range (m) = manual integration
 10M96569.D 8260BWT.M Tue Jun 26 16:17:27 2012

Data File : C:\MSDCHEM\1\DATA\062612\10M96569.D Vial: 11
 Acq On : 26 Jun 2012 14:41 Operator: TMB
 Sample : WG401620-10 200ug/L STD 8260 Inst : HPMS10
 Misc : 1,1 STD52427 Multiplr: 1.00
 MS Integration Params: RTEINT.P
 Quant Time: Jun 26 16:17:26 2012 Quant Results File: 8260BWT.RES

Quant Method : C:\MSDCHEM\1\METHODS\8260BWT.M (RTE Integrator)
 Title : 8260B/624 WT (SOP: OVL MSV01) 06/26/12 HPMS10
 Last Update : Tue Jun 26 15:55:32 2012
 Response via : Initial Calibration
 DataAcq Meth : 8260BWT

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
47) Trichloroethene	10.61	130	1801296	209.03	ug/L	97
48) Methylcyclohexane	10.68	83	2159319	199.12	ug/L	97
49) 1,2-Dichloropropane	10.80	63	1803225	209.94	ug/L	91
50) Bromodichloromethane	11.08	83	2357239	210.78	ug/L	100
51) 1,4-Dioxane	11.08	88	2973	54.20	ug/L #	14
52) Dibromomethane	11.17	93	1002024	221.43	ug/L	94
53) 2-Chloroethyl Vinyl Ether	11.37	63	912403	210.43	ug/L	99
54) 4-Methyl-2-Pentanone	11.39	58	467156	217.42	ug/L	98
55) cis-1,3-Dichloropropene	11.68	75	2671156	218.66	ug/L	97
56) Dimethyl Disulfide	11.93	79	1704898	204.36	ug/L	99
59) Toluene	12.08	91	6814858	195.44	ug/L	97
60) Ethyl Methacrylate	12.17	69	1881668	242.06	ug/L	98
62) trans-1,3-Dichloropropene	12.24	75	2444998	208.64	ug/L	98
63) 1,1,2-Trichloroethane	12.45	97	1326928	208.22	ug/L	100
64) 2-Hexanone	12.39	43	856891	210.93	ug/L #	65
65) 1,3-Dichloropropane	12.73	76	2282627	203.22	ug/L	98
66) Tetrachloroethene	12.84	164	1461854	201.03	ug/L	91
67) Dibromochloromethane	13.09	129	1712457	216.27	ug/L	99
68) 1,2-Dibromoethane	13.33	107	1329640	216.68	ug/L	99
69) 1-Chlorohexane	13.41	91	2284318	211.06	ug/L	98
70) Chlorobenzene	13.79	112	4927288	209.96	ug/L	97
71) 1,1,1,2-Tetrachloroethane	13.82	131	1970775	220.48	ug/L	96
72) Ethylbenzene	13.81	106	2782337	215.24	ug/L	88
73) m-,p-Xylene	13.90	106	6238129	417.10	ug/L	84
74) o-Xylene	14.42	106	3215642	213.97	ug/L	94
75) Styrene	14.45	104	5438022	223.00	ug/L	99
76) Bromoform	14.91	173	1215056	227.13	ug/L	98
77) Isopropylbenzene	14.81	105	7312955	200.91	ug/L	96
79) 1,1,2,2-Tetrachloroethane	15.01	83	1575792	226.64	ug/L	99
81) 1,2,3-Trichloropropane	15.20	110	454135	215.15	ug/L #	30
82) trans-1,4-Dichloro-2-Butene	15.24	53	546025	208.31	ug/L #	38
83) n-Propylbenzene	15.28	91	8272217	197.72	ug/L	96
84) Bromobenzene	15.40	156	2159543	212.13	ug/L	66
85) 1,3,5-Trimethylbenzene	15.45	105	6149943	207.62	ug/L	95
86) 2-Chlorotoluene	15.54	91	5871147	206.91	ug/L	98
87) 4-Chlorotoluene	15.58	91	4949177	196.14	ug/L	96
88) a-Methylstyrene	15.83	118	3859483	220.47	ug/L	99
89) tert-Butylbenzene	15.89	134	1449972	211.34	ug/L	82
90) 1,2,4-Trimethylbenzene	15.93	105	6379660	204.69	ug/L	95
91) sec-Butylbenzene	16.14	105	7095272	199.83	ug/L	94
92) p-Isopropyltoluene	16.28	119	6246657	204.37	ug/L	94
93) 1,3-Dichlorobenzene	16.46	146	3933119	207.57	ug/L	97
94) 1,4-Dichlorobenzene	16.58	146	3919000	205.18	ug/L	96
95) n-Butylbenzene	16.77	91	5494518	202.40	ug/L	96
96) 1,2-Dichlorobenzene	17.04	146	3640792	208.73	ug/L	97
97) 1,2-Dibromo-3-Chloropropane	17.96	157	336575	228.78	ug/L	87
98) 1,2,4-Trichlorobenzene	19.01	180	2787929	208.69	ug/L	99
99) Hexachlorobutadiene	19.14	225	869275	203.17	ug/L	98
100) Naphthalene	19.35	128	4748387	209.03	ug/L	96
101) 1,2,3-Trichlorobenzene	19.63	180	2350321	205.21	ug/L	98

(#) = qualifier out of range (m) = manual integration
 10M96569.D 8260BWT.M Tue Jun 26 16:17:27 2012

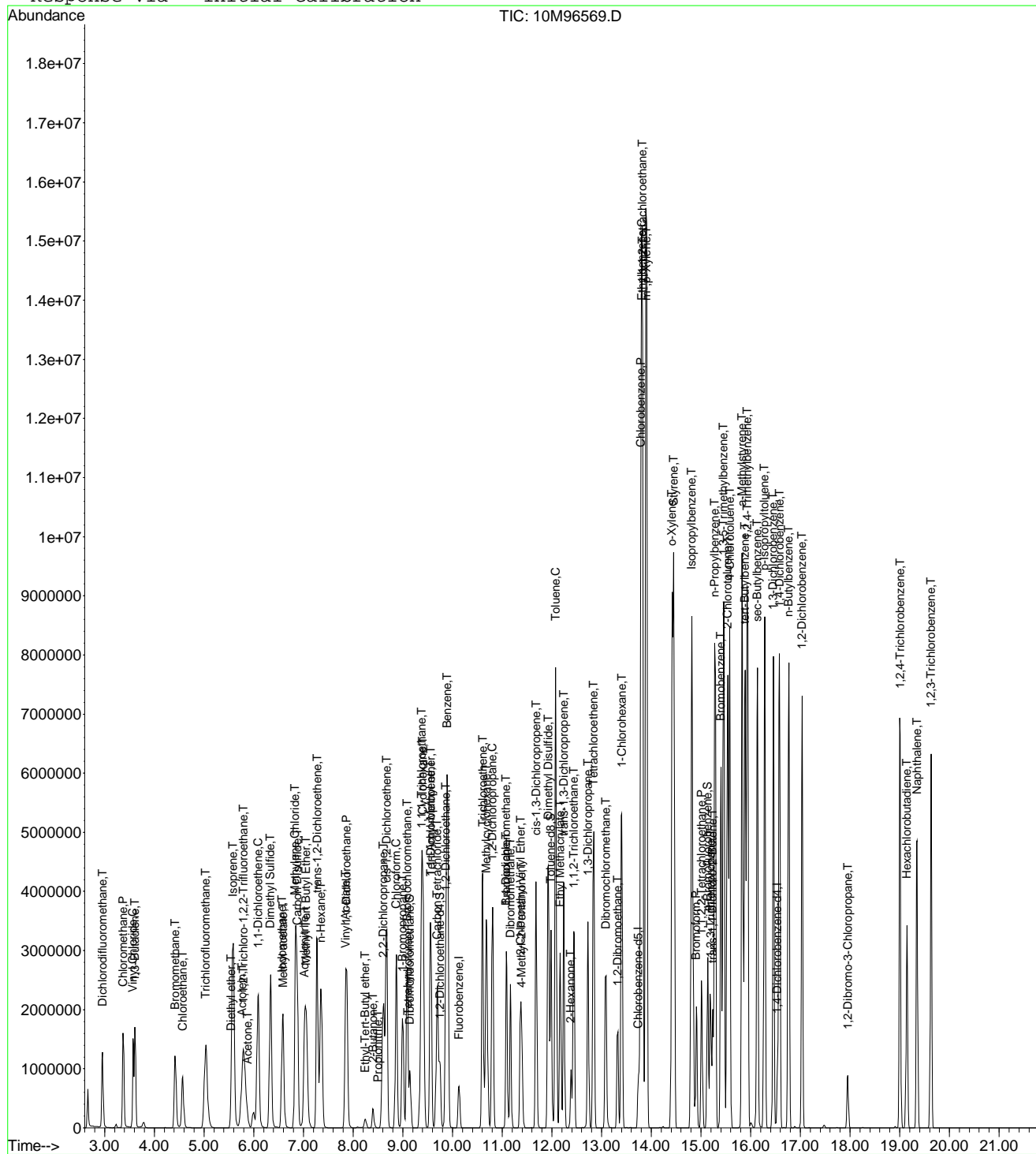
Page 2

Data File : C:\MSDCHEM\1\DATA\062612\10M96569.D
Acq On : 26 Jun 2012 14:41
Sample : WG401620-10 200ug/L STD 8260
Misc : 1,1 STD52427
MS Integration Params: RTEINT.P
Quant Time: Jun 26 16:17 2012

Vial: 11
Operator: TMB
Inst : HPMS10
Multiplr: 1.00

Quant Results File: 8260BWT.RES

Method : C:\MSDCHEM\1\METHODS\8260BWT.M (RTE Integrator)
Title : 8260B/624 WT (SOP: OVL MSV01) 06/26/12 HPMS10
Last Update : Tue Jun 26 15:55:32 2012
Response via : Initial Calibration



Data File : C:\MSDCHEM\1\DATA\062612\10M96570.D Vial: 12
 Acq On : 26 Jun 2012 15:11 Operator: TMB
 Sample : WG401620-11 300ug/L STD 8260 Inst : HPMS10
 Misc : 1,1 STD52427 Multiplr: 1.00
 MS Integration Params: RTEINT.P
 Quant Time: Jun 26 16:17:27 2012 Quant Results File: 8260BWT.RES

Quant Method : C:\MSDCHEM\1\METHODS\8260BWT.M (RTE Integrator)
 Title : 8260B/624 WT (SOP: OVL MSV01) 06/26/12 HPMS10
 Last Update : Tue Jun 26 15:55:32 2012
 Response via : Initial Calibration
 DataAcq Meth : 8260BWT

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene	10.13	96	882942	25.00	ug/L	-0.03
57) Chlorobenzene-d5	13.75	117	652621	25.00	ug/L	-0.03
78) 1,4-Dichlorobenzene-d4	16.55	152	355413	25.00	ug/L	-0.03

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
37) Dibromofluoromethane	9.15	111	1218876	150.56	ug/L	-0.02
Spiked Amount	25.000	Range 86 - 118	Recovery	=	602.24%#	
43) 1,2-Dichloroethane-d4	9.75	65	1296648	153.35	ug/L	-0.03
Spiked Amount	25.000	Range 80 - 120	Recovery	=	613.40%#	
58) Toluene-d8	11.99	98	4602137	165.14	ug/L	-0.02
Spiked Amount	25.000	Range 88 - 110	Recovery	=	660.56%#	
80) p-Bromofluorobenzene	15.13	95	1719400	161.54	ug/L	-0.03
Spiked Amount	25.000	Range 86 - 115	Recovery	=	646.16%#	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	2.96	85	2325993	307.01	ug/L	99
3) Chloromethane	3.38	50	3169817	240.05	ug/L	98
4) Vinyl Chloride	3.57	62	2244527	224.47	ug/L	99
5) 1,3-Butadiene	3.61	54	1164265	305.29	ug/L	94
6) Bromomethane	4.41	94	2008726	396.13	ug/L	99
7) Chloroethane	4.56	64	1972088	323.35	ug/L	98
8) Trichlorofluoromethane	5.03	101	4170146	306.49	ug/L	99
9) Diethyl ether	5.55	59	2197423	324.95	ug/L	94
10) Isoprene	5.58	67	4239762	330.05	ug/L	99
11) Acrolein	5.78	56	371226	353.30	ug/L	100
12) 1,1,2-Trichloro-1,2,2-Trif	5.79	101	2468175	319.35	ug/L	94
13) Acetone	5.87	43	604275	291.62	ug/L	98
14) 1,1-Dichloroethene	6.09	96	2453001	332.27	ug/L	96
15) Tert-Butyl Alcohol	6.21	59	312480	567.53	ug/L	96
16) Dimethyl Sulfide	6.34	62	3078021	321.27	ug/L	95
17) Iodomethane	6.58	142	4287100	300.05	ug/L	90
18) Methyl acetate	6.60	43	1708064	316.94	ug/L	97
19) Methylene Chloride	6.84	84	2801296	317.63	ug/L	94
20) Carbon Disulfide	6.87	76	6977128	316.51	ug/L	99
21) Acrylonitrile	7.02	53	824149	318.08	ug/L	97
22) Methyl Tert Butyl Ether	7.05	73	6275583	315.75	ug/L	95
23) trans-1,2-Dichloroethene	7.28	96	2746061	325.22	ug/L	100
24) n-Hexane	7.35	57	3240606	300.56	ug/L	98
25) Diisopropyl ether	7.69	45	9280607	298.29	ug/L	96
26) Vinyl Acetate	7.84	43	3355252	301.07	ug/L	97
27) 1,1-Dichloroethane	7.86	63	5139196	317.18	ug/L	98
28) Ethyl-Tert-Butyl ether	8.24	59	8133310	300.92	ug/L	97
29) 2-Butanone	8.40	43	882615	304.49	ug/L	97
30) Propionitrile	8.51	54	263041	320.79	ug/L	99
31) 2,2-Dichloropropane	8.61	77	3883542	306.63	ug/L	96
32) cis-1,2-Dichloroethene	8.67	96	3091409	332.93	ug/L	96
33) Chloroform	8.87	83	4657573	302.21	ug/L	98
34) 1-Bromopropane	9.00	122	476822	330.41	ug/L	98
35) Bromochloromethane	9.08	128	1356599	328.68	ug/L	92
36) Tetrahydrofuran	9.12	42	567198	321.38	ug/L	93
38) 1,1,1-Trichloroethane	9.37	97	4142240	306.06	ug/L	99
39) Cyclohexane	9.40	56	4234194	326.49	ug/L	95
40) 1,1-Dichloropropene	9.56	75	3678701	317.57	ug/L	99
41) Carbon Tetrachloride	9.69	117	3709926	311.55	ug/L	100
42) Tert-Amyl-Methyl ether	9.66	73	6573112	307.17	ug/L	99

(#) = qualifier out of range (m) = manual integration
 10M96570.D 8260BWT.M Tue Jun 26 16:17:28 2012

Data File : C:\MSDCHEM\1\DATA\062612\10M96570.D Vial: 12
 Acq On : 26 Jun 2012 15:11 Operator: TMB
 Sample : WG401620-11 300ug/L STD 8260 Inst : HPMS10
 Misc : 1,1 STD52427 Multiplr: 1.00
 MS Integration Params: RTEINT.P
 Quant Time: Jun 26 16:17:27 2012 Quant Results File: 8260BWT.RES

Quant Method : C:\MSDCHEM\1\METHODS\8260BWT.M (RTE Integrator)
 Title : 8260B/624 WT (SOP: OVL MSV01) 06/26/12 HPMS10
 Last Update : Tue Jun 26 15:55:32 2012
 Response via : Initial Calibration
 DataAcq Meth : 8260BWT

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
45) 1,2-Dichloroethane	9.86	62	3393244	300.39	ug/L	88
46) Benzene	9.90	78	9839932	291.13	ug/L	94
47) Trichloroethene	10.60	130	2900150	321.09	ug/L	97
48) Methylcyclohexane	10.69	83	3564004	313.56	ug/L	97
49) 1,2-Dichloropropane	10.81	63	2874609	319.31	ug/L	91
50) Bromodichloromethane	11.09	83	3675846	313.59	ug/L	99
51) 1,4-Dioxane	11.08	88	39634	689.34	ug/L	91
52) Dibromomethane	11.16	93	1565935	330.16	ug/L	94
53) 2-Chloroethyl Vinyl Ether	11.37	63	1489177	327.68	ug/L	100
54) 4-Methyl-2-Pentanone	11.40	58	758515	336.81	ug/L	97
55) cis-1,3-Dichloropropene	11.69	75	4338993	338.88	ug/L	94
56) Dimethyl Disulfide	11.93	79	2689169	306.19	ug/L	98
59) Toluene	12.08	91	10236923	288.73	ug/L	93
60) Ethyl Methacrylate	12.17	69	2900764	367.00	ug/L	98
61) Paraldehyde	12.20	89	31955	259.94	ug/L #	1
62) trans-1,3-Dichloropropene	12.24	75	3778477	317.11	ug/L	96
63) 1,1,2-Trichloroethane	12.44	97	2049721	316.33	ug/L	99
64) 2-Hexanone	12.39	43	1299808	314.68	ug/L #	65
65) 1,3-Dichloropropane	12.73	76	3472938	304.09	ug/L	99
66) Tetrachloroethene	12.84	164	2370511	320.61	ug/L	91
67) Dibromochloromethane	13.08	129	2607666	323.90	ug/L	99
68) 1,2-Dibromoethane	13.32	107	2024554	324.49	ug/L	99
69) 1-Chlorohexane	13.40	91	3630943	329.95	ug/L	99
70) Chlorobenzene	13.79	112	7143566	299.38	ug/L	95
71) 1,1,1,2-Tetrachloroethane	13.82	131	2863866	315.10	ug/L	95
72) Ethylbenzene	13.82	106	4132706	314.43	ug/L	78
73) m-,p-Xylene	13.90	106	8646531	568.59	ug/L	76
74) o-Xylene	14.42	106	4855056	317.73	ug/L	87
75) Styrene	14.46	104	7835942	316.03	ug/L	98
76) Bromoform	14.91	173	1731323	318.30	ug/L	98
77) Isopropylbenzene	14.81	105	10381240	280.50	ug/L	92
79) 1,1,2,2-Tetrachloroethane	15.02	83	2215703	311.09	ug/L	99
81) 1,2,3-Trichloropropane	15.19	110	653897	302.42	ug/L #	34
82) trans-1,4-Dichloro-2-Butene	15.23	53	806681	300.17	ug/L #	39
83) n-Propylbenzene	15.29	91	11483146	267.93	ug/L	90
84) Bromobenzene	15.40	156	3247169	311.39	ug/L	68
85) 1,3,5-Trimethylbenzene	15.46	105	8852665	291.75	ug/L	92
86) 2-Chlorotoluene	15.53	91	7788041	267.94	ug/L	94
87) 4-Chlorotoluene	15.57	91	7846013	303.55	ug/L	93
88) a-Methylstyrene	15.83	118	5753598	320.85	ug/L	98
89) tert-Butylbenzene	15.88	134	2211252	314.64	ug/L	77
90) 1,2,4-Trimethylbenzene	15.94	105	9049081	283.43	ug/L	91
91) sec-Butylbenzene	16.13	105	10214443	280.84	ug/L	91
92) p-Isopropyltoluene	16.28	119	9079431	289.98	ug/L	90
93) 1,3-Dichlorobenzene	16.46	146	5900725	304.00	ug/L	99
94) 1,4-Dichlorobenzene	16.58	146	5878169	300.43	ug/L	98
95) n-Butylbenzene	16.76	91	8183049	294.26	ug/L	93
96) 1,2-Dichlorobenzene	17.03	146	5535920	309.82	ug/L	98
97) 1,2-Dibromo-3-Chloropropane	17.95	157	508112	337.16	ug/L	86
98) 1,2,4-Trichlorobenzene	19.01	180	4121550	294.84	ug/L	99
99) Hexachlorobutadiene	19.15	225	1349148	307.82	ug/L	98
100) Naphthalene	19.35	128	6882771	295.39	ug/L	93
101) 1,2,3-Trichlorobenzene	19.64	180	3571057	304.05	ug/L	99

(#) = qualifier out of range (m) = manual integration
 10M96570.D 8260BWT.M Tue Jun 26 16:17:28 2012

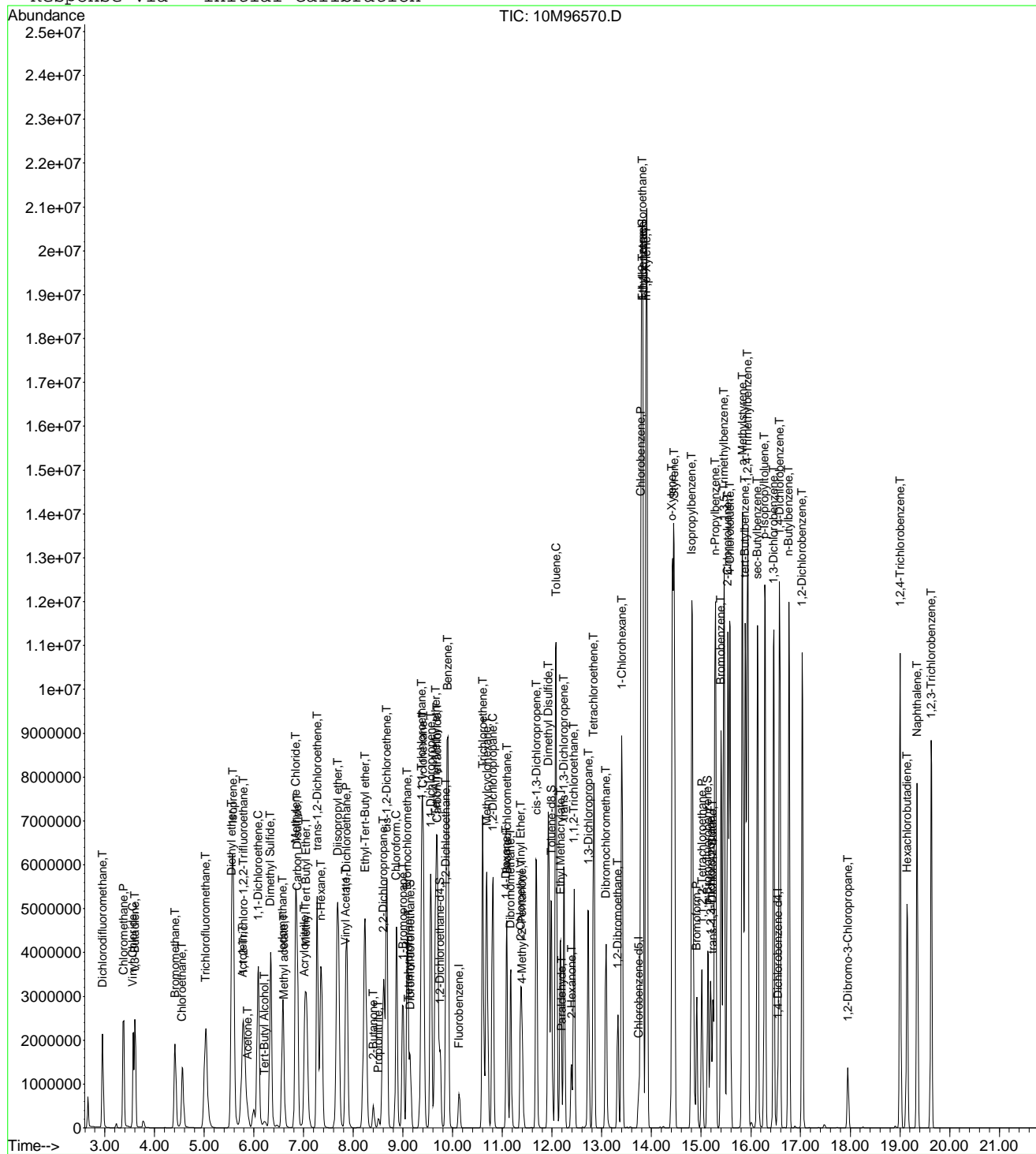
Page 2

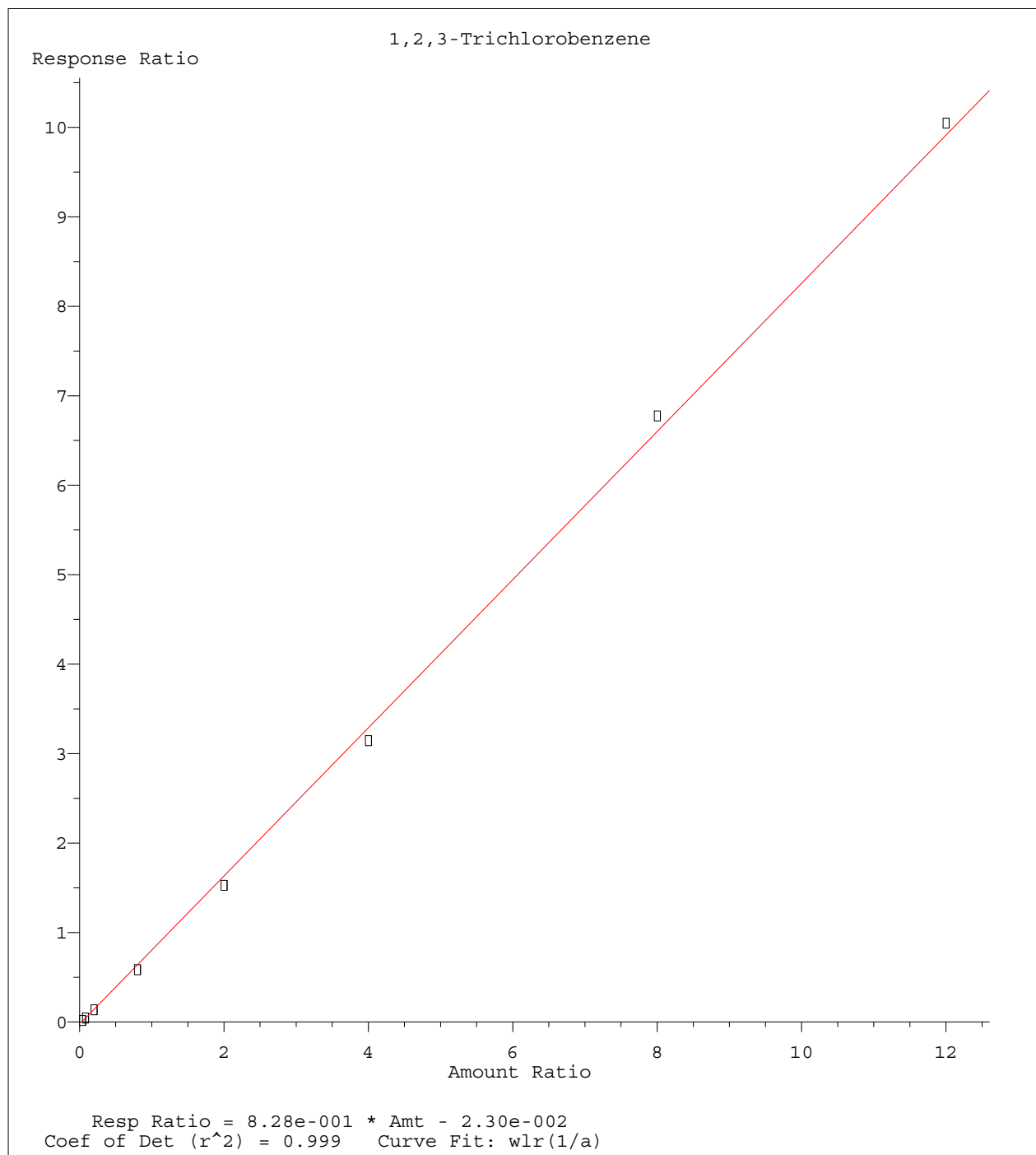
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Acq On : 26 Jun 2012 15:11
Sample : WG401620-11 300ug/L STD 8260
Misc : 1,1 STD52427
MS Integration Params: RTEINT.P
Quant Time: Jun 26 16:17 2012

Vial: 12
Operator: TMB
Inst : HPMS10
Multiplr: 1.00

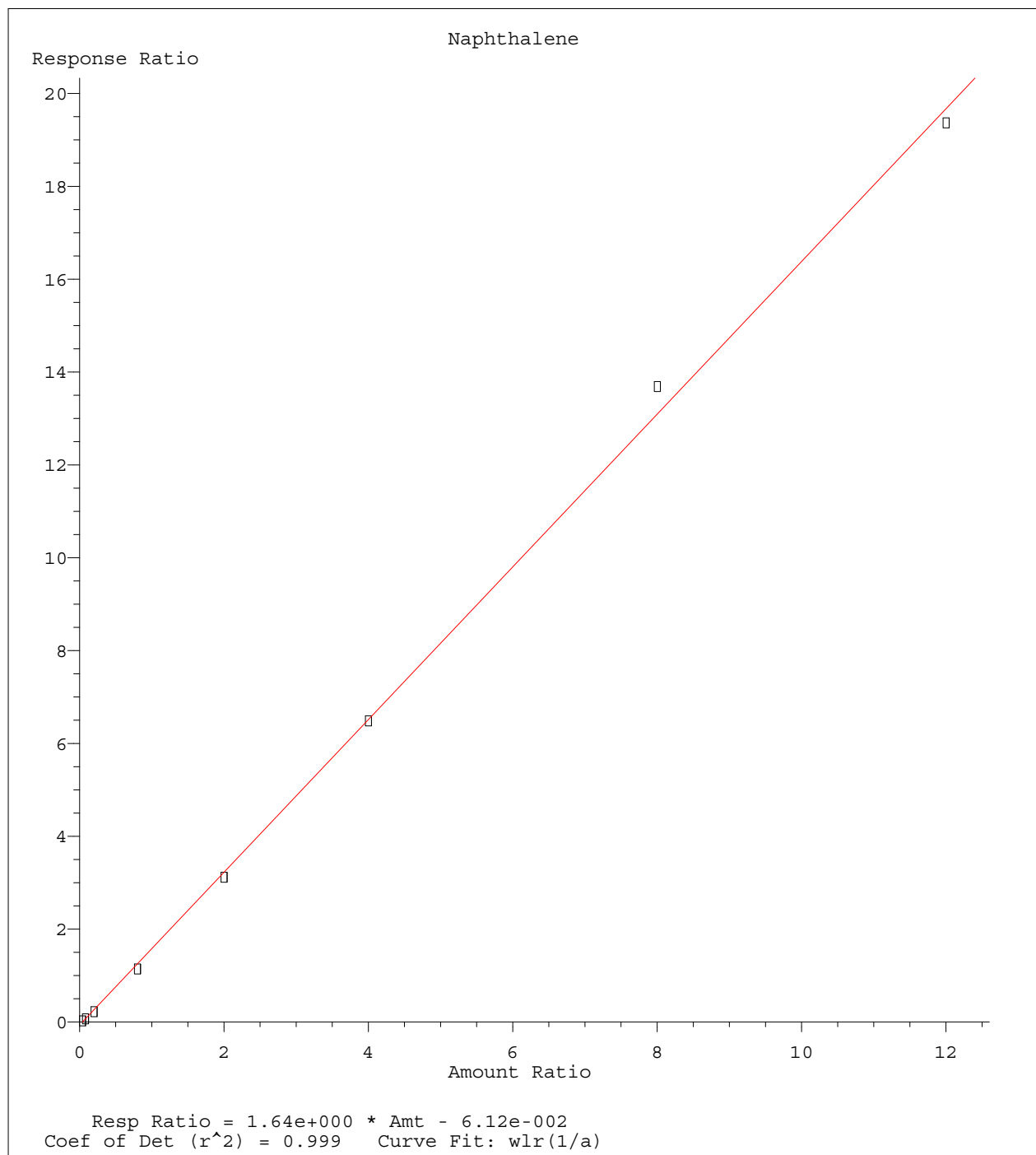
Quant Results File: 8260BWT.RES

Method : C:\MSDCHEM\1\METHODS\8260BWT.M (RTE Integrator)
Title : 8260B/624 WT (SOP: OVL MSV01) 06/26/12 HPMS10
Last Update : Tue Jun 26 15:55:32 2012
Response via : Initial Calibration

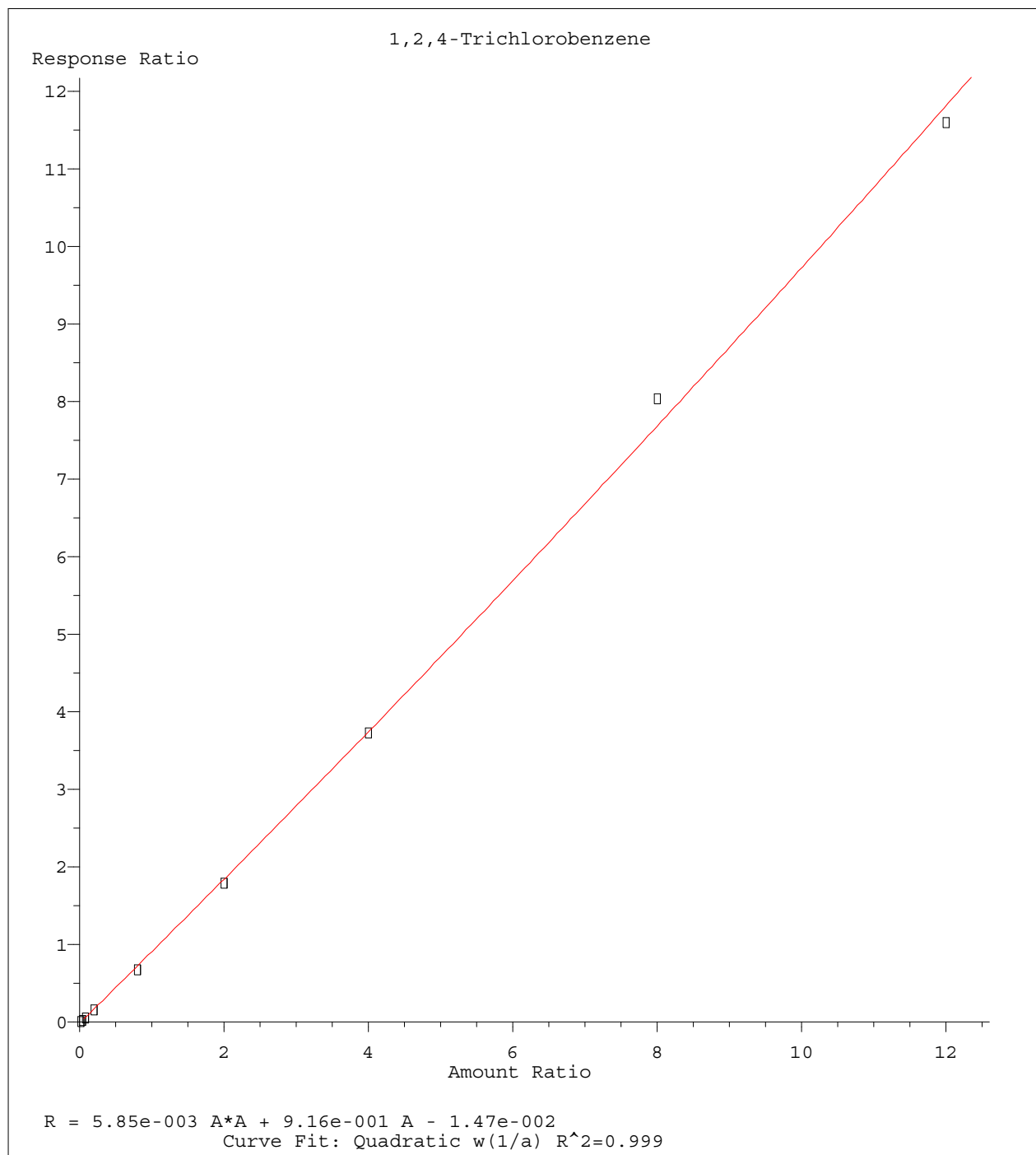




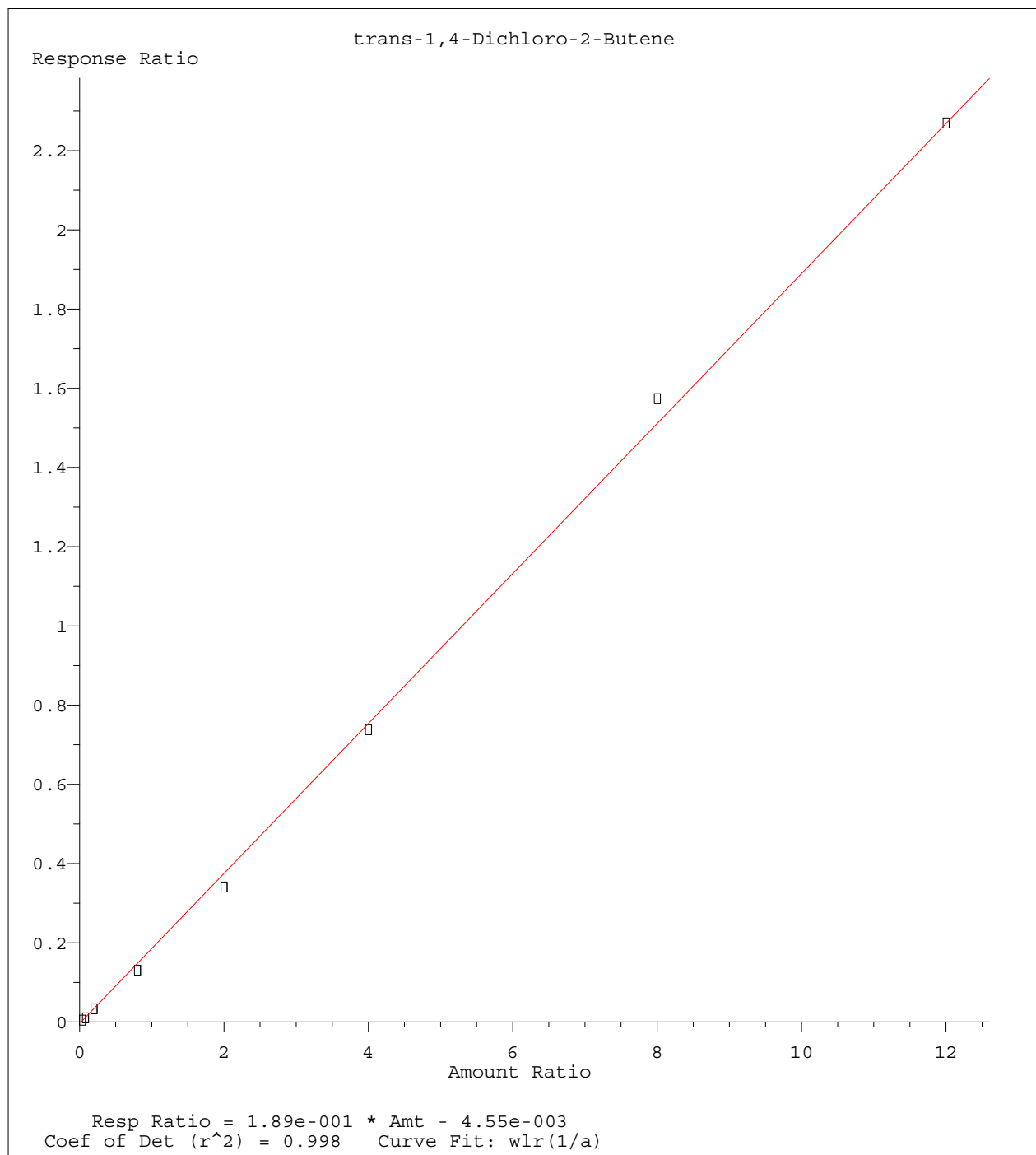
Method Name: C:\MSDCHEM\1\METHODS\8260BWT.M
Calibration Table Last Updated: Tue Jun 26 15:55:32 2012



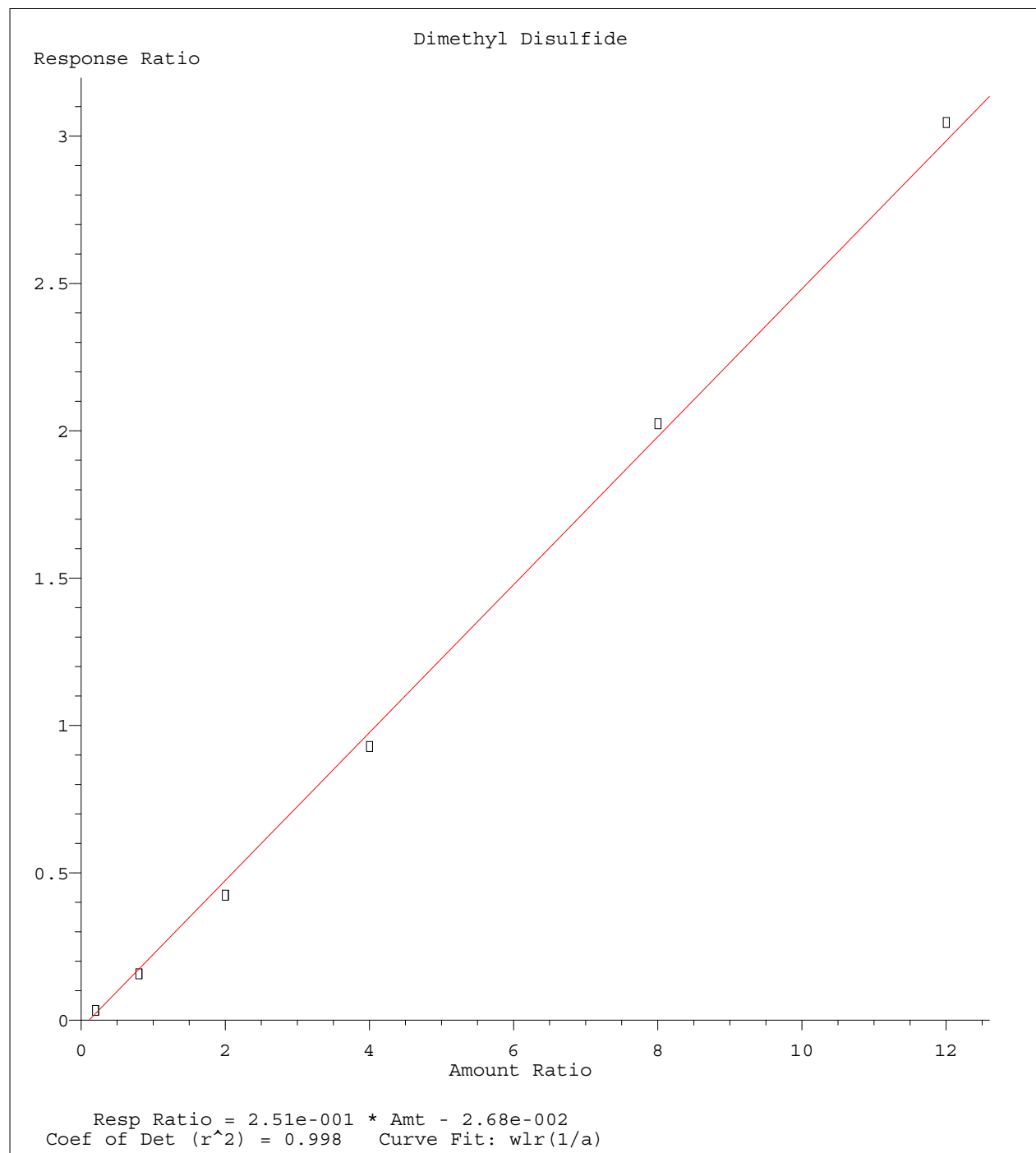
Method Name: C:\MSDCHEM\1\METHODS\8260BWT.M
Calibration Table Last Updated: Tue Jun 26 15:55:32 2012



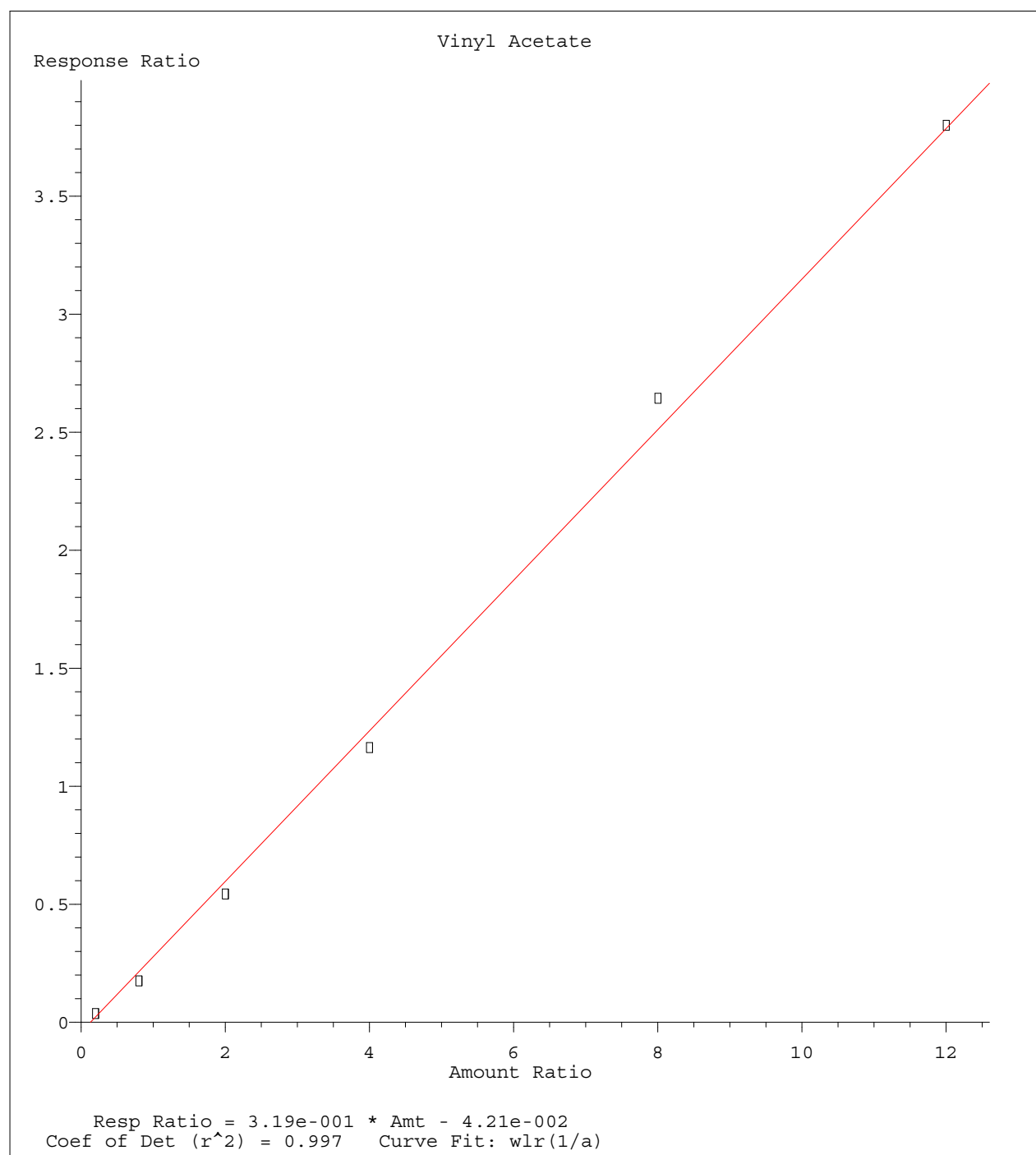
Method Name: C:\MSDCHEM\1\METHODS\8260BWT.M
Calibration Table Last Updated: Tue Jun 26 15:55:32 2012



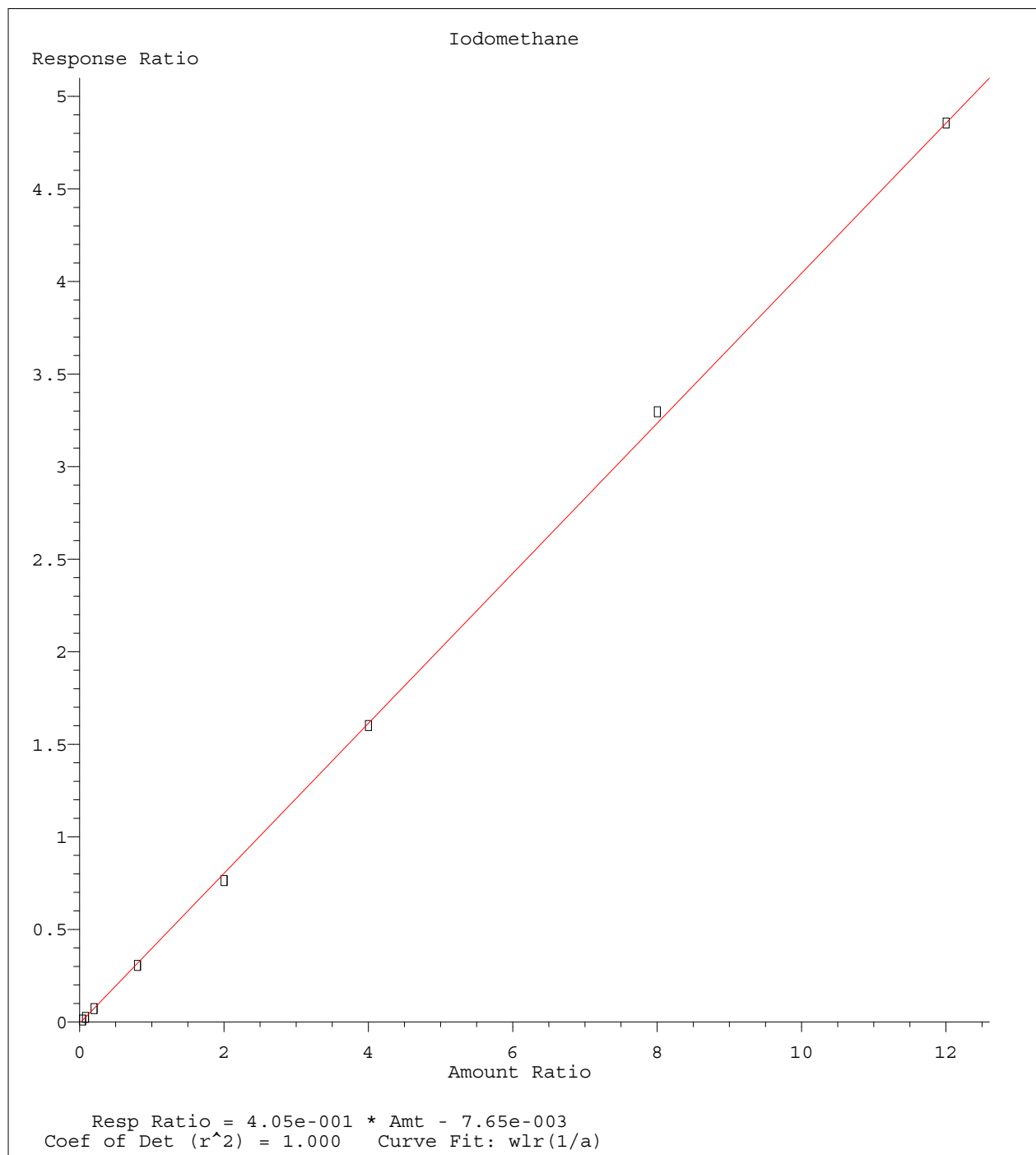
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Calibration Table Last Updated: Tue Jun 26 15:55:32 2012



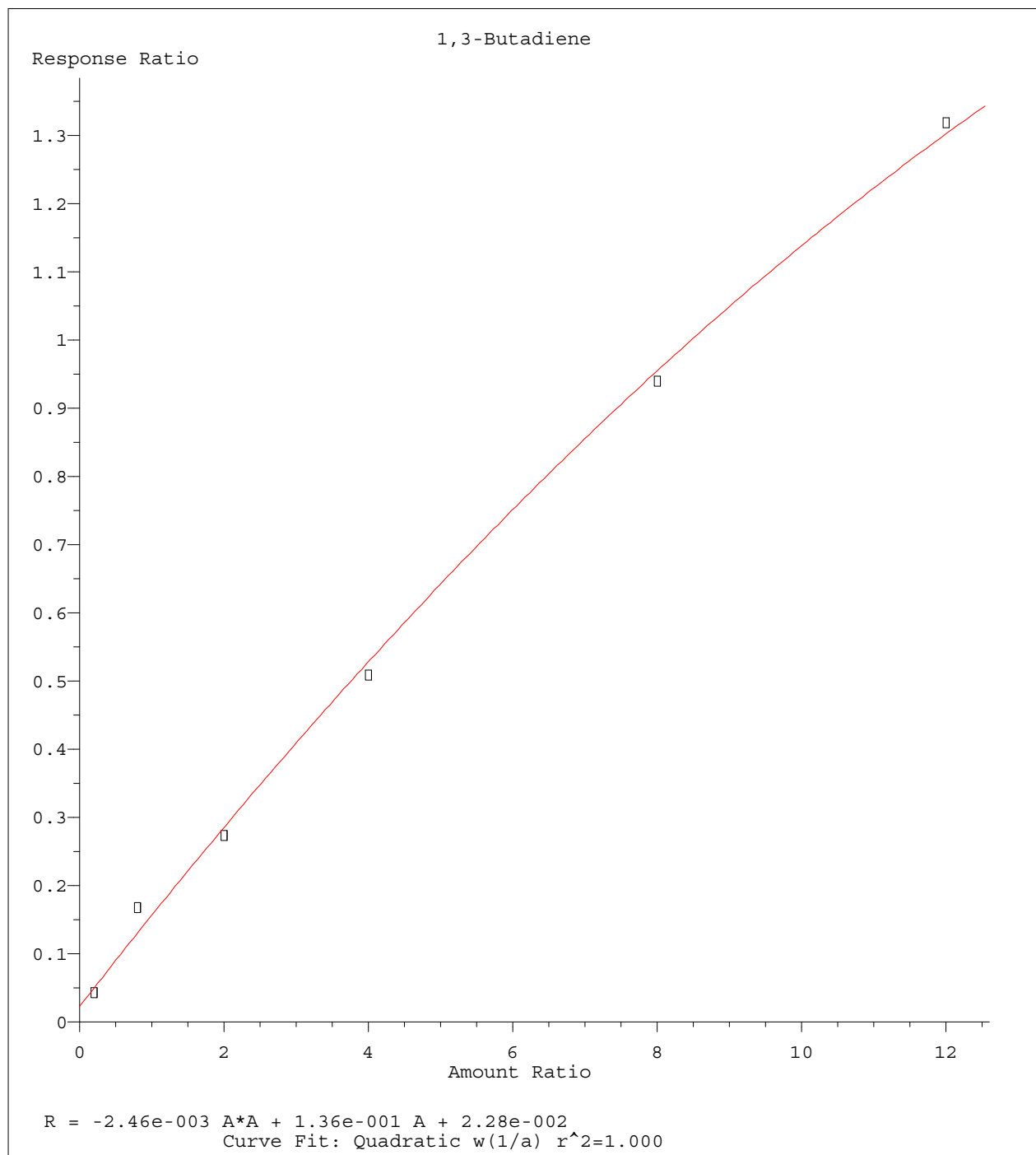
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Calibration Table Last Updated: Tue Jun 26 15:55:32 2012



Method Name: C:\MSDCHEM\1\METHODS\8260BWT.M
Calibration Table Last Updated: Tue Jun 26 15:55:32 2012



Method Name: C:\MSDCHEM\1\METHODS\8260BWT.M
Calibration Table Last Updated: Tue Jun 26 15:55:32 2012



Method Name: C:\MSDCHEM\1\METHODS\8260BWT.M
Calibration Table Last Updated: Tue Jun 26 15:55:32 2012

Data File : C:\MSDCHEM\1\DATA\062612\10M96573.D Vial: 15
 Acq On : 26 Jun 2012 16:55 Operator: TMB
 Sample : WG401620-12 20ug/L ALT SRC STD 8260 Inst : HPMS10
 Misc : 1,1 STD52408 Multiplr: 1.00
 MS Integration Params: RTEINT.P
 Quant Time: Jun 26 17:22:27 2012 Quant Results File: 8260BWT.RES

Quant Method : C:\MSDCHEM\1\METHODS\8260BWT.M (RTE Integrator)
 Title : 8260B/624 WT (SOP: OVL MSV01) 06/26/12 HPMS10
 Last Update : Tue Jun 26 15:55:32 2012
 Response via : Initial Calibration
 DataAcq Meth : 8260BWT

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene	10.13	96	854702	25.00	ug/L	-0.03
57) Chlorobenzene-d5	13.74	117	619449	25.00	ug/L	-0.04
78) 1,4-Dichlorobenzene-d4	16.54	152	377696	25.00	ug/L	-0.04

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
37) Dibromofluoromethane	9.14	111	184430	23.53	ug/L	-0.03
Spiked Amount	25.000	Range 86 - 118	Recovery	=	94.12%	
43) 1,2-Dichloroethane-d4	9.75	65	186166	22.74	ug/L	-0.03
Spiked Amount	25.000	Range 80 - 120	Recovery	=	90.96%	
58) Toluene-d8	11.98	98	664304	25.11	ug/L	-0.03
Spiked Amount	25.000	Range 88 - 110	Recovery	=	100.44%	
80) p-Bromofluorobenzene	15.13	95	255757	22.61	ug/L	-0.03
Spiked Amount	25.000	Range 86 - 115	Recovery	=	90.44%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	2.96	85	195719	26.69	ug/L	97
3) Chloromethane	3.37	50	232305	18.17	ug/L	98
4) Vinyl Chloride	3.58	62	172748	17.85	ug/L	100
5) 1,3-Butadiene	3.61	54	50763	6.75	ug/L	92
6) Bromomethane	4.42	94	121049	24.66	ug/L	99
7) Chloroethane	4.57	64	117419	19.89	ug/L	96
8) Trichlorofluoromethane	5.04	101	247381	18.78	ug/L	100
9) Diethyl ether	5.55	59	612950	93.64	ug/L	93
10) Isoprene	5.58	67	222172	17.87	ug/L	97
11) Acrolein	5.77	56	73348	72.11	ug/L	99
12) 1,1,2-Trichloro-1,2,2-Trif	5.79	101	150921	20.17	ug/L	93
13) Acetone	5.87	43	38409	19.15	ug/L	92
14) 1,1-Dichloroethene	6.09	96	138256	19.35	ug/L	100
15) Tert-Butyl Alcohol	6.20	59	95022	178.28	ug/L	98
16) Dimethyl Sulfide	6.34	62	203181	21.91	ug/L	93
17) Iodomethane	6.58	142	187741	14.02	ug/L	90
18) Methyl acetate	6.60	43	95426	18.29	ug/L	95
19) Methylene Chloride	6.83	84	169624	19.87	ug/L	93
20) Carbon Disulfide	6.88	76	479081	22.45	ug/L	99
21) Acrylonitrile	7.02	53	45276	18.05	ug/L	100
22) Methyl Tert Butyl Ether	7.05	73	397199	20.65	ug/L	97
23) trans-1,2-Dichloroethene	7.28	96	160193	19.60	ug/L	98
24) n-Hexane	7.35	57	220020	21.08	ug/L	98
25) Diisopropyl ether	7.68	45	2876864	95.52	ug/L	95
26) Vinyl Acetate	7.85	43	215270	23.03	ug/L	95
27) 1,1-Dichloroethane	7.87	63	306777	19.56	ug/L	99
28) Ethyl-Tert-Butyl ether	8.23	59	2404327	91.89	ug/L	97
29) 2-Butanone	8.40	43	50460	17.98	ug/L	97
30) Propionitrile	8.50	54	71425	89.98	ug/L	98
31) 2,2-Dichloropropane	8.61	77	241165	19.67	ug/L	98
32) cis-1,2-Dichloroethene	8.67	96	183948	20.46	ug/L	98
33) Chloroform	8.87	83	299365	20.07	ug/L	100
34) 1-Bromopropane	8.99	122	35909	25.71	ug/L	100
35) Bromochloromethane	9.09	128	82632	20.68	ug/L	92
36) Tetrahydrofuran	9.11	42	151503	88.68	ug/L	93
38) 1,1,1-Trichloroethane	9.38	97	250393	19.11	ug/L	99
39) Cyclohexane	9.40	56	267509	21.31	ug/L	96
40) 1,1-Dichloropropene	9.56	75	213120	19.01	ug/L	98
41) Carbon Tetrachloride	9.70	117	219058	19.00	ug/L	99
42) Tert-Amyl-Methyl ether	9.66	73	1944408	93.87	ug/L	99

(#) = qualifier out of range (m) = manual integration
 10M96573.D 8260BWT.M Tue Jun 26 17:22:28 2012

Data File : C:\MSDCHEM\1\DATA\062612\10M96573.D Vial: 15
 Acq On : 26 Jun 2012 16:55 Operator: TMB
 Sample : WG401620-12 20ug/L ALT SRC STD 8260 Inst : HPMS10
 Misc : 1,1 STD52408 Multiplr: 1.00
 MS Integration Params: RTEINT.P
 Quant Time: Jun 26 17:22:27 2012 Quant Results File: 8260BWT.RES

Quant Method : C:\MSDCHEM\1\METHODS\8260BWT.M (RTE Integrator)
 Title : 8260B/624 WT (SOP: OVL MSV01) 06/26/12 HPMS10
 Last Update : Tue Jun 26 15:55:32 2012
 Response via : Initial Calibration
 DataAcq Meth : 8260BWT

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
45) 1,2-Dichloroethane	9.86	62	211385	19.33	ug/L	92
46) Benzene	9.89	78	646426	19.76	ug/L	99
47) Trichloroethene	10.61	130	171858	19.66	ug/L	96
48) Methylcyclohexane	10.68	83	234333	21.30	ug/L	97
49) 1,2-Dichloropropane	10.80	63	170422	19.56	ug/L	94
50) Bromodichloromethane	11.09	83	225164	19.84	ug/L	98
51) 1,4-Dioxane	11.07	88	9616	172.77	ug/L	95
52) Dibromomethane	11.17	93	89826	19.56	ug/L	93
53) 2-Chloroethyl Vinyl Ether	11.37	63	79825	18.14	ug/L	99
54) 4-Methyl-2-Pentanone	11.39	58	40081	18.39	ug/L	98
55) cis-1,3-Dichloropropene	11.68	75	256169	20.67	ug/L	97
56) Dimethyl Disulfide	11.93	79	137575	18.71	ug/L	95
59) Toluene	12.07	91	718714	21.36	ug/L	99
60) Ethyl Methacrylate	12.17	69	175390	23.38	ug/L	97
61) Paraldehyde	12.20	89	10864	93.11	ug/L	61
62) trans-1,3-Dichloropropene	12.24	75	221576	19.59	ug/L	97
63) 1,1,2-Trichloroethane	12.45	97	133201	21.66	ug/L	99
64) 2-Hexanone	12.38	43	75702	19.31	ug/L #	63
65) 1,3-Dichloropropane	12.73	76	222096	20.49	ug/L	100
66) Tetrachloroethene	12.84	164	139140	19.83	ug/L	90
67) Dibromochloromethane	13.09	129	148973	19.50	ug/L	99
68) 1,2-Dibromoethane	13.33	107	120680	20.38	ug/L	99
69) 1-Chlorohexane	13.41	91	210236	20.13	ug/L	99
70) Chlorobenzene	13.79	112	444080	19.61	ug/L	100
71) 1,1,1,2-Tetrachloroethane	13.82	131	172152	19.96	ug/L	94
72) Ethylbenzene	13.81	106	238626	19.13	ug/L	94
73) m-,p-Xylene	13.89	106	575891	39.90	ug/L	96
74) o-Xylene	14.42	106	280697	19.35	ug/L	97
75) Styrene	14.45	104	478322	20.32	ug/L	97
76) Bromoform	14.91	173	99144	19.20	ug/L	99
77) Isopropylbenzene	14.81	105	625088	17.79	ug/L	99
79) 1,1,2,2-Tetrachloroethane	15.01	83	130837	17.29	ug/L	98
81) 1,2,3-Trichloropropane	15.20	110	39625	17.24	ug/L	88
82) trans-1,4-Dichloro-2-Buten	15.24	53	38902	14.19	ug/L	83
83) n-Propylbenzene	15.28	91	835597	18.35	ug/L	99
84) Bromobenzene	15.40	156	207225	18.70	ug/L	65
85) 1,3,5-Trimethylbenzene	15.45	105	601775	18.66	ug/L	100
86) 2-Chlorotoluene	15.54	91	584470	18.92	ug/L	99
87) 4-Chlorotoluene	15.58	91	475770	17.32	ug/L	99
88) a-Methylstyrene	15.83	118	348814	18.30	ug/L	99
89) tert-Butylbenzene	15.89	134	139035	18.62	ug/L	87
90) 1,2,4-Trimethylbenzene	15.93	105	693436	20.44	ug/L	99
91) sec-Butylbenzene	16.14	105	742538	19.21	ug/L	97
92) p-Isopropyltoluene	16.28	119	670924	20.16	ug/L	96
93) 1,3-Dichlorobenzene	16.46	146	420583	20.39	ug/L	93
94) 1,4-Dichlorobenzene	16.58	146	422298	20.31	ug/L	93
95) n-Butylbenzene	16.77	91	618790	20.94	ug/L	98
96) 1,2-Dichlorobenzene	17.04	146	387027	20.38	ug/L	93
97) 1,2-Dibromo-3-Chloropropan	17.96	157	28793	17.98	ug/L	83
98) 1,2,4-Trichlorobenzene	19.01	180	261347	19.20	ug/L	98
99) Hexachlorobutadiene	19.14	225	100634	21.61	ug/L	98
100) Naphthalene	19.35	128	396796	16.91	ug/L	99
101) 1,2,3-Trichlorobenzene	19.63	180	202729	16.90	ug/L	98

(#) = qualifier out of range (m) = manual integration
 10M96573.D 8260BWT.M Tue Jun 26 17:22:28 2012

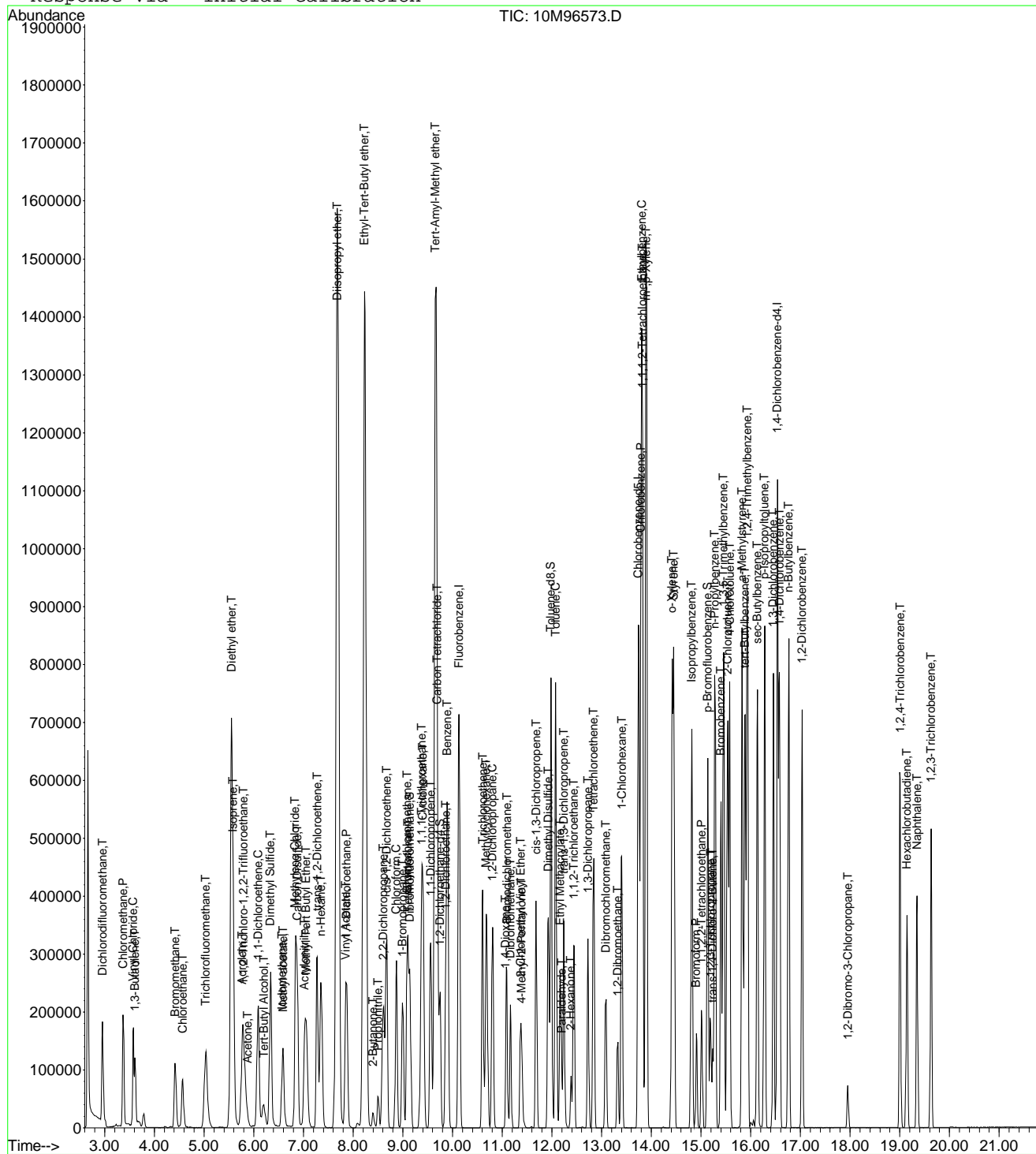
Page 2

Data File : C:\MSDCHEM\1\DATA\062612\10M96573.D
Acq On : 26 Jun 2012 16:55
Sample : WG401620-12 20ug/L ALT SRC STD 8260
Misc : 1,1 STD52408
MS Integration Params: RTEINT.P
Quant Time: Jun 26 17:22 2012

Vial: 15
Operator: TMB
Inst : HPMS10
Multiplr: 1.00

Quant Results File: 8260BWT.RES

Method : C:\MSDCHEM\1\METHODS\8260BWT.M (RTE Integrator)
Title : 8260B/624 WT (SOP: OVL MSV01) 06/26/12 HPMS10
Last Update : Tue Jun 26 15:55:32 2012
Response via : Initial Calibration



Data File : C:\MSDCHEM\1\DATA\062612\10M96573.D Vial: 15
 Acq On : 26 Jun 2012 16:55 Operator: TMB
 Sample : WG401620-12 20ug/L ALT SRC STD 8260 Inst : HPMS10
 Misc : 1,1 STD52408 Multiplr: 1.00
 MS Integration Params: RTEINT.P

Method : C:\MSDCHEM\1\METHODS\8260BWT.M (RTE Integrator)
 Title : 8260B/624 WT (SOP: OVL MSV01) 06/26/12 HPMS10
 Last Update : Tue Jun 26 15:55:32 2012
 Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
 Max. RRF Dev : 25% Max. Rel. Area : 150%

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1 I	Fluorobenzene	25.0000	25.0000	0.0	111	-0.03
2 T	Dichlorodifluoromethane	20.0000	26.6868	-33.4#	138	0.02
3 P	Chloromethane	20.0000	18.1741	9.1	102	0.01
4 C	Vinyl Chloride	20.0000	17.8466	10.8	100	0.01
5 T	1,3-Butadiene	20.0000	6.7495	66.3#	39	0.01
6 T	Bromomethane	20.0000	24.6601	-23.3	139	0.00
7 T	Chloroethane	20.0000	19.8888	0.6	115	0.00
8 T	Trichlorofluoromethane	20.0000	18.7824	6.1	104	0.00
9 T	Diethyl ether	80.0000	93.6366	-17.0	131	0.00
10 T	Isoprene	20.0000	17.8668	10.7	105	0.00
11 T	Acrolein	80.0000	72.1116	9.9	101	0.00
12 T	1,1,2-Trichloro-1,2,2-Trifl	20.0000	20.1725	-0.9	113	0.00
13 T	Acetone	20.0000	19.1483	4.3	106	0.00
14 C	1,1-Dichloroethene	20.0000	19.3461	3.3	108	0.00
15 T	Tert-Butyl Alcohol	160.0000	178.2834	-11.4	122	0.00
16 T	Dimethyl Sulfide	20.0000	21.9076	-9.5	129	0.00
17 T	Iodomethane	20.0000	14.0242	29.9#	80	-0.02
18 T	Methyl acetate	20.0000	18.2919	8.5	109	0.00
19 T	Methylene Chloride	20.0000	19.8688	0.7	115	-0.02
20 T	Carbon Disulfide	20.0000	22.4512	-12.3	128	0.00
21 T	Acrylonitrile	20.0000	18.0518	9.7	109	0.00
22 T	Methyl Tert Butyl Ether	20.0000	20.6452	-3.2	117	0.00
23 T	trans-1,2-Dichloroethene	20.0000	19.5986	2.0	112	0.00
24 T	n-Hexane	20.0000	21.0806	-5.4	122	-0.02
25 T	Diisopropyl ether	80.0000	95.5225	-19.4	130	-0.02
26 T	Vinyl Acetate	20.0000	23.0332	-15.2	160	-0.02
27 P	1,1-Dichloroethane	20.0000	19.5589	2.2	110	-0.02
28 T	Ethyl-Tert-Butyl ether	80.0000	91.8945	-14.9	126	-0.02
29 T	2-Butanone	20.0000	17.9835	10.1	105	-0.02
30 T	Propionitrile	80.0000	89.9842	-12.5	122	-0.02
31 T	2,2-Dichloropropane	20.0000	19.6704	1.6	116	-0.02
32 T	cis-1,2-Dichloroethene	20.0000	20.4650	-2.3	116	-0.02
33 C	Chloroform	20.0000	20.0665	-0.3	113	-0.02
34 T	1-Bromopropane	20.0000	25.7054	-28.5#	143	-0.03
35 T	Bromochloromethane	20.0000	20.6816	-3.4	113	-0.03
36 T	Tetrahydrofuran	80.0000	88.6788	-10.8	121	-0.03
37 S	Dibromofluoromethane	10.0000	23.5347	-135.3#	264	-0.03
38 T	1,1,1-Trichloroethane	20.0000	19.1122	4.4	109	-0.02
39 T	Cyclohexane	20.0000	21.3087	-6.5	120	-0.03
40 T	1,1-Dichloropropene	20.0000	19.0057	5.0	107	-0.02
41 T	Carbon Tetrachloride	20.0000	19.0036	5.0	106	-0.02
42 T	Tert-Amyl-Methyl ether	80.0000	93.8683	-17.3	128	-0.03
43 S	1,2-Dichloroethane-d4	10.0000	22.7442	-127.4#	245	-0.03
44	Heptane	-1.0000	0.0000	0.0	122	-0.03
45 T	1,2-Dichloroethane	20.0000	19.3312	3.3	108	-0.03
46 T	Benzene	20.0000	19.7572	1.2	112	-0.03
47 T	Trichloroethene	20.0000	19.6558	1.7	113	-0.03
48 T	Methylcyclohexane	20.0000	21.2979	-6.5	122	-0.04
49 C	1,2-Dichloropropane	20.0000	19.5558	2.2	111	-0.03
50 T	Bromodichloromethane	20.0000	19.8437	0.8	111	-0.03
51 T	1,4-Dioxane	160.0000	172.7749	-8.0	126	-0.03
52 T	Dibromomethane	20.0000	19.5644	2.2	106	-0.03
53 T	2-Chloroethyl Vinyl Ether	20.0000	18.1450	9.3	107	-0.03
54 T	4-Methyl-2-Pentanone	20.0000	18.3858	8.1	109	-0.04

(#) = Out of Range

10M96573.D 8260BWT.M

Tue Jun 26 17:22:42 2012

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Data File : C:\MSDCHEM\1\DATA\062612\10M96573.D Vial: 15
 Acq On : 26 Jun 2012 16:55 Operator: TMB
 Sample : WG401620-12 20ug/L ALT SRC STD 8260 Inst : HPMS10
 Misc : 1,1 STD52408 Multiplr: 1.00
 MS Integration Params: RTEINT.P

Method : C:\MSDCHEM\1\METHODS\8260BWT.M (RTE Integrator)
 Title : 8260B/624 WT (SOP: OVL MSV01) 06/26/12 HPMS10
 Last Update : Tue Jun 26 15:55:32 2012
 Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
 Max. RRF Dev : 25% Max. Rel. Area : 150%

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
55 T	cis-1,3-Dichloropropene	20.0000	20.6679	-3.3	114	-0.03
56 T	Dimethyl Disulfide	20.0000	18.7106	6.4	114	-0.03
57 I	Chlorobenzene-d5	25.0000	25.0000	0.0	110	-0.04
58 S	Toluene-d8	10.0000	25.1132	-151.1#	276	-0.03
59 C	Toluene	20.0000	21.3568	-6.8	120	-0.04
60 T	Ethyl Methacrylate	20.0000	23.3785	-16.9	122	-0.03
61 T	Paraldehyde	80.0000	93.1055	-16.4	116	-0.03
62 T	trans-1,3-Dichloropropene	20.0000	19.5917	2.0	107	-0.03
63 T	1,1,2-Trichloroethane	20.0000	21.6575	-8.3	119	-0.03
64 T	2-Hexanone	20.0000	19.3087	3.5	112	-0.03
65 T	1,3-Dichloropropane	20.0000	20.4879	-2.4	113	-0.04
66 T	Tetrachloroethene	20.0000	19.8265	0.9	112	-0.03
67 T	Dibromochloromethane	20.0000	19.4950	2.5	106	-0.03
68 T	1,2-Dibromoethane	20.0000	20.3778	-1.9	108	-0.03
69 T	1-Chlorohexane	20.0000	20.1275	-0.6	110	-0.03
70 P	Chlorobenzene	20.0000	19.6079	2.0	112	-0.03
71 T	1,1,1,2-Tetrachloroethane	20.0000	19.9558	0.2	110	-0.03
72 C	Ethylbenzene	20.0000	19.1276	4.4	110	-0.04
73 T	m-,p-Xylene	40.0000	39.8984	0.3	110	-0.04
74 T	o-Xylene	20.0000	19.3536	3.2	110	-0.03
75 T	Styrene	20.0000	20.3241	-1.6	109	-0.04
76 P	Bromoform	20.0000	19.2036	4.0	103	-0.04
77 T	Isopropylbenzene	20.0000	17.7946	11.0	97	-0.04
78 I	1,4-Dichlorobenzene-d4	25.0000	25.0000	0.0	119	-0.04
79 P	1,1,2,2-Tetrachloroethane	20.0000	17.2861	13.6	103	-0.04
80 S	p-Bromofluorobenzene	10.0000	22.6117	-126.1#	268	-0.03
81 T	1,2,3-Trichloropropane	20.0000	17.2447	13.8	104	-0.03
82 T	trans-1,4-Dichloro-2-Butene	20.0000	14.1944	29.0#	94	-0.03
83 T	n-Propylbenzene	20.0000	18.3465	8.3	108	-0.04
84 T	Bromobenzene	20.0000	18.6993	6.5	114	-0.04
85 T	1,3,5-Trimethylbenzene	20.0000	18.6622	6.7	112	-0.04
86 T	2-Chlorotoluene	20.0000	18.9215	5.4	117	-0.03
87 T	4-Chlorotoluene	20.0000	17.3207	13.4	103	-0.03
88 T	a-Methylstyrene	20.0000	18.3041	8.5	116	-0.04
89 T	tert-Butylbenzene	20.0000	18.6160	6.9	116	-0.03
90 T	1,2,4-Trimethylbenzene	20.0000	20.4382	-2.2	121	-0.04
91 T	sec-Butylbenzene	20.0000	19.2112	3.9	114	-0.03
92 T	p-Isopropyltoluene	20.0000	20.1636	-0.8	120	-0.04
93 T	1,3-Dichlorobenzene	20.0000	20.3895	-1.9	123	-0.04
94 T	1,4-Dichlorobenzene	20.0000	20.3100	-1.6	123	-0.03
95 T	n-Butylbenzene	20.0000	20.9389	-4.7	124	-0.03
96 T	1,2-Dichlorobenzene	20.0000	20.3825	-1.9	121	-0.04
97 T	1,2-Dibromo-3-Chloropropane	20.0000	17.9784	10.1	108	-0.04
98 T	1,2,4-Trichlorobenzene	20.0000	19.2029	4.0	122	-0.03
99 T	Hexachlorobutadiene	20.0000	21.6060	-8.0	128	-0.04
100 T	Naphthalene	20.0000	16.9053	15.5	109	-0.03
101 T	1,2,3-Trichlorobenzene	20.0000	16.9005	15.5	109	-0.04

(#) = Out of Range SPCC's out = 0 CCC's out = 0
 10M96573.D 8260BWT.M Tue Jun 26 17:22:43 2012

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Data File : C:\MSDCHEM\1\DATA\050312\11M83330.D Vial: 2
 Acq On : 3 May 2012 17:01 Operator: ADC
 Sample : WG396851-02 0.3ug/L STD 8260 Inst : HPMS11
 Misc : 1,1 STD51468 Multiplr: 1.00
 MS Integration Params: rteint.p
 Quant Time: May 04 08:37:10 2012 Quant Results File: 8260WTR.RES

Quant Method : C:\MSDCHEM\1\METHODS\8260WTR.M (RTE Integrator)
 Title : 8260B/624 (SOP: OVL MSV01) Water 05/03/12 HPMS11
 Last Update : Fri May 04 08:32:33 2012
 Response via : Initial Calibration
 DataAcq Meth : 8260WTR

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene	10.31	96	603349	25.00	ug/L	0.00
57) Chlorobenzene-d5	13.94	117	458535	25.00	ug/L	0.00
78) 1,4-Dichlorobenzene-d4	16.75	152	228662	25.00	ug/L	0.01

System Monitoring Compounds

37) Dibromofluoromethane	0.00	111	0	0.0000	ug/L	
Spiked Amount	25.000	Range 86 - 118	Recovery	=	0.00%#	
43) 1,2-Dichloroethane-d4	0.00	65	0	0.0000	ug/L	
Spiked Amount	25.000	Range 80 - 120	Recovery	=	0.00%#	
58) Toluene-d8	0.00	98	0	0.0000	ug/L	
Spiked Amount	25.000	Range 88 - 110	Recovery	=	0.00%#	
80) p-Bromofluorobenzene	0.00	95	0	0.0000	ug/L	
Spiked Amount	25.000	Range 86 - 115	Recovery	=	0.00%#	

Target Compounds

						Qvalue
5) 1,3-Butadiene	3.62	54	2147	0.3206	ug/L	88
13) Acetone	6.04	43	245	Below Cal	#	45
14) 1,1-Dichloroethene	6.26	61	2850	0.3112	ug/L	92
19) Methylene Chloride	7.01	84	2172	0.3337	ug/L	84
22) Methyl Tert Butyl Ether	7.24	73	4165	0.2739	ug/L	87
23) trans-1,2-Dichloroethene	7.44	96	2143	0.3277	ug/L	75
27) 1,1-Dichloroethane	8.04	63	3474	0.3170	ug/L	# 83
31) 2,2-Dichloropropane	8.78	77	3003	0.3391	ug/L	# 56
32) cis-1,2-Dichloroethene	8.84	96	1978	0.2791	ug/L	95
33) Chloroform	9.05	83	3456	0.2983	ug/L	92
35) Bromochloromethane	9.26	130	852	0.1893	ug/L	# 61
38) 1,1,1-Trichloroethane	9.55	97	3120	0.2871	ug/L	# 78
40) 1,1-Dichloropropene	9.74	75	2539	0.2938	ug/L	98
41) Carbon Tetrachloride	9.88	117	2863	0.5677	ug/L	# 84
45) 1,2-Dichloroethane	10.04	62	2374	0.2915	ug/L	# 57
46) Benzene	10.07	78	8253	0.3269	ug/L	98
47) Trichloroethene	10.78	130	3634	0.4390	ug/L	96
49) 1,2-Dichloropropane	10.98	63	1728	0.2973	ug/L	# 67
51) Bromodichloromethane	11.27	83	2291	0.2880	ug/L	# 89
52) Dibromomethane	11.34	93	870	0.4493	ug/L	96
55) cis-1,3-Dichloropropene	11.86	75	2340	0.2554	ug/L	99
59) Toluene	12.26	91	8764	0.3178	ug/L	98
62) trans-1,3-Dichloropropene	12.42	75	1727	0.2336	ug/L	# 49
63) 1,1,2-Trichloroethane	12.62	97	1049	0.2303	ug/L	97
65) 1,3-Dichloropropane	12.91	76	2278	0.2977	ug/L	74
66) Tetrachloroethene	13.04	164	1419	0.2511	ug/L	76
67) Dibromochloromethane	13.28	129	1202	0.4376	ug/L	85
68) 1,2-Dibromoethane	13.51	107	871	0.1846	ug/L	69
70) Chlorobenzene	13.99	112	5942	0.3237	ug/L	88
71) 1,1,1,2-Tetrachloroethane	14.01	131	1323	0.4387	ug/L	79
72) Ethylbenzene	14.01	106	2851	0.2862	ug/L	90
73) m-,p-Xylene	14.09	106	7915	0.6434	ug/L	95
74) o-Xylene	14.62	106	3949	0.3295	ug/L	85
75) Styrene	14.65	104	5406	0.2835	ug/L	98
76) Bromoform	15.12	173	237	0.4125	ug/L	# 28
77) Isopropylbenzene	15.01	105	8925	0.3163	ug/L	99
79) 1,1,2,2-Tetrachloroethane	15.22	83	984	0.2417	ug/L	82
81) 1,2,3-Trichloropropane	15.39	110	198	0.1607	ug/L	95
83) n-Propylbenzene	15.49	91	9668	0.3250	ug/L	95
84) Bromobenzene	15.60	156	2047	0.2880	ug/L	94

(#) = qualifier out of range (m) = manual integration
 11M83330.D 8260WTR.M Fri May 04 08:37:11 2012

Data File : C:\MSDCHEM\1\DATA\050312\11M83330.D Vial: 2
 Acq On : 3 May 2012 17:01 Operator: ADC
 Sample : WG396851-02 0.3ug/L STD 8260 Inst : HPMS11
 Misc : 1,1 STD51468 Multiplr: 1.00
 MS Integration Params: rteint.p
 Quant Time: May 04 08:37:10 2012 Quant Results File: 8260WTR.RES

Quant Method : C:\MSDCHEM\1\METHODS\8260WTR.M (RTE Integrator)
 Title : 8260B/624 (SOP: OVL MSV01) Water 05/03/12 HPMS11
 Last Update : Fri May 04 08:32:33 2012
 Response via : Initial Calibration
 DataAcq Meth : 8260WTR

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
85) 1,3,5-Trimethylbenzene	15.65	105	6558	0.2968	ug/L	95
86) 2-Chlorotoluene	15.74	91	6610	0.3304	ug/L	95
87) 4-Chlorotoluene	15.78	91	5834	0.3332	ug/L	93
89) tert-Butylbenzene	16.09	134	1267	0.2635	ug/L	70
90) 1,2,4-Trimethylbenzene	16.14	105	7433	0.3233	ug/L	92
91) sec-Butylbenzene	16.34	105	8643	0.3350	ug/L	96
92) p-Isopropyltoluene	16.48	119	6527	0.2949	ug/L	92
93) 1,3-Dichlorobenzene	16.67	146	3911	0.2806	ug/L	99
94) 1,4-Dichlorobenzene	16.78	146	4300	0.3030	ug/L #	1
95) n-Butylbenzene	16.97	91	5178	0.3071	ug/L #	91
96) 1,2-Dichlorobenzene	17.25	146	3542	0.2803	ug/L	98
98) 1,2,4-Trichlorobenzene	19.22	180	1737	0.2431	ug/L #	66
99) Hexachlorobutadiene	19.36	225	747	0.5063	ug/L #	21
100) Naphthalene	19.56	128	2836	0.4281	ug/L #	72
101) 1,2,3-Trichlorobenzene	19.84	180	1338	0.2004	ug/L #	76

 (#) = qualifier out of range (m) = manual integration
 11M83330.D 8260WTR.M Fri May 04 08:37:11 2012

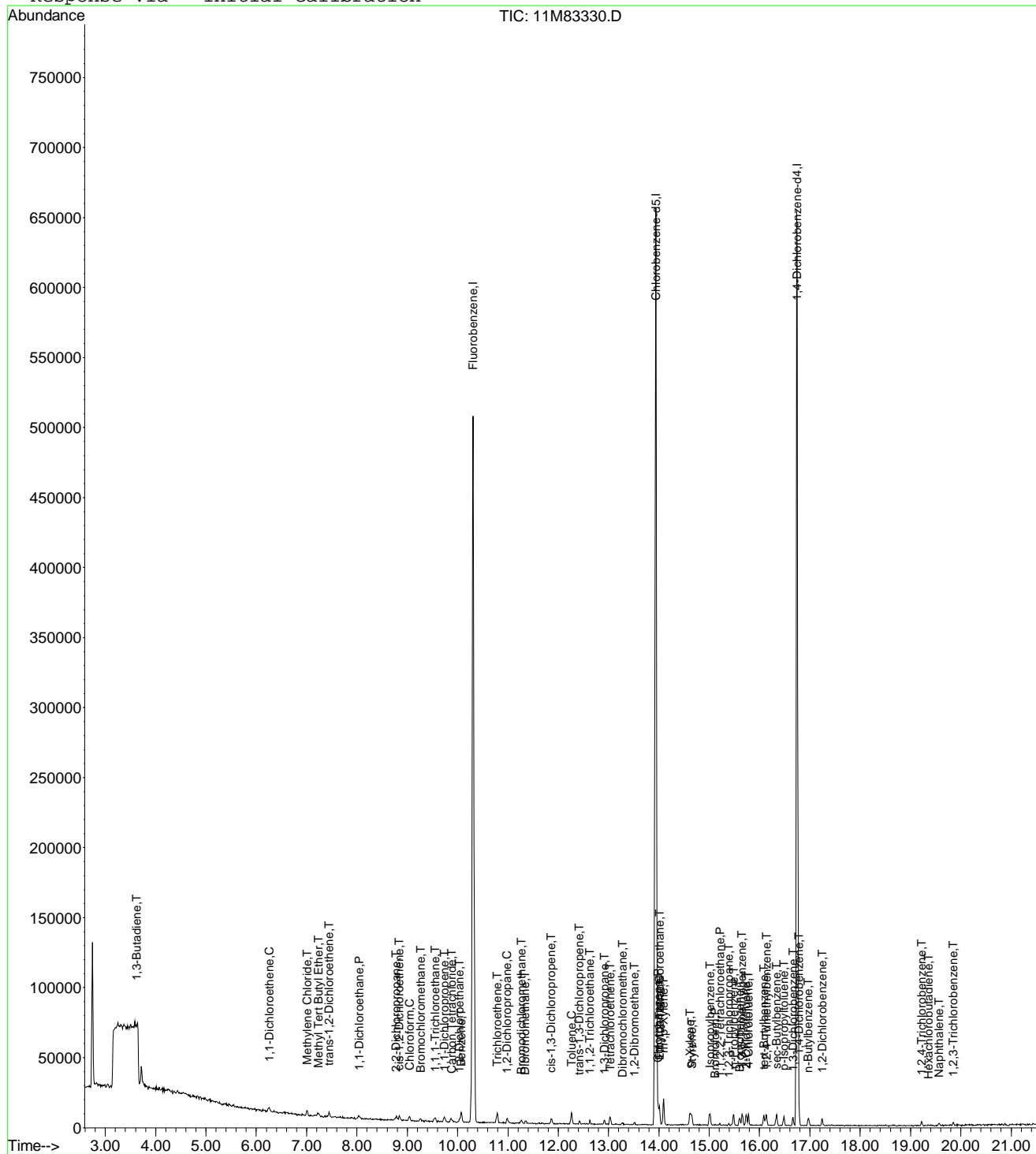
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Data File : C:\MSDCHEM\1\DATA\050312\11M83330.D
 Acq On : 3 May 2012 17:01
 Sample : WG396851-02 0.3ug/L STD 8260
 Misc : 1,1 STD51468
 MS Integration Params: rteint.p
 Quant Time: May 4 8:37 2012

Vial: 2
 Operator: ADC
 Inst : HPMS11
 Multiplr: 1.00

Quant Results File: 8260WTR.RES

Method : C:\MSDCHEM\1\METHODS\8260WTR.M (RTE Integrator)
 Title : 8260B/624 (SOP: OVL MSV01) Water 05/03/12 HPMS11
 Last Update : Fri May 04 08:32:33 2012
 Response via : Initial Calibration



Data File : C:\MSDCHEM\1\DATA\050312\11M83331.D Vial: 3
 Acq On : 3 May 2012 17:32 Operator: ADC
 Sample : WG396851-03 0.4ug/L STD 8260 Inst : HPMS11
 Misc : 1,1 STD51468 Multiplr: 1.00
 MS Integration Params: rteint.p
 Quant Time: May 04 08:37:12 2012 Quant Results File: 8260WTR.RES

Quant Method : C:\MSDCHEM\1\METHODS\8260WTR.M (RTE Integrator)
 Title : 8260B/624 (SOP: OVL MSV01) Water 05/03/12 HPMS11
 Last Update : Fri May 04 08:32:33 2012
 Response via : Initial Calibration
 DataAcq Meth : 8260WTR

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene	10.31	96	549265	25.00	ug/L	0.00
57) Chlorobenzene-d5	13.94	117	422702	25.00	ug/L	0.00
78) 1,4-Dichlorobenzene-d4	16.74	152	216998	25.00	ug/L	0.00

System Monitoring Compounds

37) Dibromofluoromethane	0.00	111	0	0.0000	ug/L	
Spiked Amount	25.000	Range 86 - 118	Recovery	=	0.00%#	
43) 1,2-Dichloroethane-d4	0.00	65	0	0.0000	ug/L	
Spiked Amount	25.000	Range 80 - 120	Recovery	=	0.00%#	
58) Toluene-d8	0.00	98	0	0.0000	ug/L	
Spiked Amount	25.000	Range 88 - 110	Recovery	=	0.00%#	
80) p-Bromofluorobenzene	0.00	95	0	0.0000	ug/L	
Spiked Amount	25.000	Range 86 - 115	Recovery	=	0.00%#	

Target Compounds

					Qvalue	
2) Dichlorodifluoromethane	3.05	85	2902	0.4094	ug/L	# 68
3) Chloromethane	3.49	50	4642	0.3814	ug/L	# 42
4) Vinyl Chloride	3.70	62	3675	0.3610	ug/L	99
6) Bromomethane	4.57	94	1529	0.3917	ug/L	97
7) Chloroethane	4.73	64	1468	0.3500	ug/L	# 43
8) Trichlorofluoromethane	5.19	101	4591	0.3877	ug/L	96
10) Isoprene	5.75	67	3146	0.3414	ug/L	76
12) 1,1,2-Trichloro-1,2,2-Trif	5.97	101	1850	0.3013	ug/L	95
13) Acetone	6.05	43	195	Below Cal		# 45
14) 1,1-Dichloroethene	6.26	61	2847	0.3415	ug/L	91
16) Dimethyl Sulfide	6.50	62	2704	0.3960	ug/L	88
17) Iodomethane	6.74	142	1360	0.5060	ug/L	# 60
19) Methylene Chloride	7.01	84	2526	0.4263	ug/L	93
20) Carbon Disulfide	7.04	76	6446	0.3792	ug/L	# 85
22) Methyl Tert Butyl Ether	7.23	73	5372	0.3880	ug/L	# 68
23) trans-1,2-Dichloroethene	7.43	96	1970	0.3309	ug/L	77
24) n-Hexane	7.52	57	2394	0.3981	ug/L	# 63
27) 1,1-Dichloroethane	8.04	63	4009	0.4019	ug/L	# 64
31) 2,2-Dichloropropane	8.79	77	2974	0.3689	ug/L	# 42
32) cis-1,2-Dichloroethene	8.84	96	2390	0.3705	ug/L	87
33) Chloroform	9.04	83	3988	0.3781	ug/L	85
35) Bromochloromethane	9.26	130	1405	0.3428	ug/L	94
38) 1,1,1-Trichloroethane	9.55	97	3518	0.3556	ug/L	# 75
39) Cyclohexane	9.59	56	2851	0.3577	ug/L	93
40) 1,1-Dichloropropene	9.74	75	2732	0.3473	ug/L	85
41) Carbon Tetrachloride	9.86	117	2389	0.5471	ug/L	# 76
45) 1,2-Dichloroethane	10.04	62	2697	0.3637	ug/L	# 75
46) Benzene	10.07	78	9082	0.3951	ug/L	94
47) Trichloroethene	10.78	130	3274	0.4345	ug/L	96
48) Methylcyclohexane	10.86	83	2735	0.3467	ug/L	88
49) 1,2-Dichloropropane	10.98	63	1959	0.3702	ug/L	73
51) Bromodichloromethane	11.27	83	2321	0.3205	ug/L	# 94
52) Dibromomethane	11.35	93	686	0.4195	ug/L	# 14
55) cis-1,3-Dichloropropene	11.86	75	2909	0.3487	ug/L	93
56) Dimethyl Disulfide	12.12	79	638	1.0191	ug/L	83
59) Toluene	12.26	91	10107	0.3975	ug/L	89
60) Ethyl Methacrylate	12.36	69	1513	0.8605	ug/L	77
62) trans-1,3-Dichloropropene	12.43	75	2477	0.3634	ug/L	# 64
63) 1,1,2-Trichloroethane	12.62	97	1468	0.3496	ug/L	96
65) 1,3-Dichloropropane	12.91	76	2607	0.3696	ug/L	85

(#) = qualifier out of range (m) = manual integration
 11M83331.D 8260WTR.M Fri May 04 08:37:12 2012

Data File : C:\MSDCHEM\1\DATA\050312\11M83331.D Vial: 3
 Acq On : 3 May 2012 17:32 Operator: ADC
 Sample : WG396851-03 0.4ug/L STD 8260 Inst : HPMS11
 Misc : 1,1 STD51468 Multiplr: 1.00
 MS Integration Params: rteint.p
 Quant Time: May 04 08:37:12 2012 Quant Results File: 8260WTR.RES

Quant Method : C:\MSDCHEM\1\METHODS\8260WTR.M (RTE Integrator)
 Title : 8260B/624 (SOP: OVL MSV01) Water 05/03/12 HPMS11
 Last Update : Fri May 04 08:32:33 2012
 Response via : Initial Calibration
 DataAcq Meth : 8260WTR

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
66) Tetrachloroethene	13.03	164	1542	0.2960	ug/L	69
67) Dibromochloromethane	13.27	129	1559	0.5165	ug/L	99
68) 1,2-Dibromoethane	13.51	107	1528	0.3514	ug/L	91
69) 1-Chlorohexane	13.60	91	2326	0.3191	ug/L	85
70) Chlorobenzene	13.98	112	6136	0.3626	ug/L	98
71) 1,1,1,2-Tetrachloroethane	14.01	131	1421	0.4723	ug/L	81
72) Ethylbenzene	14.01	106	3067	0.3340	ug/L	86
73) m-,p-Xylene	14.09	106	8481	0.7478	ug/L	90
74) o-Xylene	14.61	106	4007	0.3627	ug/L	98
75) Styrene	14.65	104	6355	0.3615	ug/L	95
76) Bromoform	15.12	173	560	0.5236	ug/L #	28
77) Isopropylbenzene	15.01	105	9010	0.3464	ug/L	96
79) 1,1,2,2-Tetrachloroethane	15.21	83	1419	0.3674	ug/L	83
83) n-Propylbenzene	15.48	91	10456	0.3703	ug/L	90
84) Bromobenzene	15.60	156	2604	0.3861	ug/L	64
85) 1,3,5-Trimethylbenzene	15.65	105	7524	0.3588	ug/L	99
86) 2-Chlorotoluene	15.74	91	7308	0.3849	ug/L	100
87) 4-Chlorotoluene	15.78	91	6058	0.3646	ug/L	98
88) a-Methylstyrene	16.03	118	3825	0.3276	ug/L	91
89) tert-Butylbenzene	16.09	134	1625	0.3561	ug/L	81
90) 1,2,4-Trimethylbenzene	16.13	105	7548	0.3460	ug/L	96
91) sec-Butylbenzene	16.34	105	8328	0.3402	ug/L	100
92) p-Isopropyltoluene	16.48	119	6955	0.3311	ug/L	87
93) 1,3-Dichlorobenzene	16.67	146	5234	0.3956	ug/L	85
94) 1,4-Dichlorobenzene	16.78	146	5094	0.3783	ug/L #	13
95) n-Butylbenzene	16.97	91	5025	0.3140	ug/L #	93
96) 1,2-Dichlorobenzene	17.25	146	4607	0.3842	ug/L	95
98) 1,2,4-Trichlorobenzene	19.22	180	2398	0.3536	ug/L #	60
99) Hexachlorobutadiene	19.36	225	491	0.4257	ug/L #	47
100) Naphthalene	19.56	128	3723	0.4988	ug/L #	72
101) 1,2,3-Trichlorobenzene	19.85	180	2196	0.3466	ug/L	80

(#) = qualifier out of range (m) = manual integration
 11M83331.D 8260WTR.M Fri May 04 08:37:12 2012

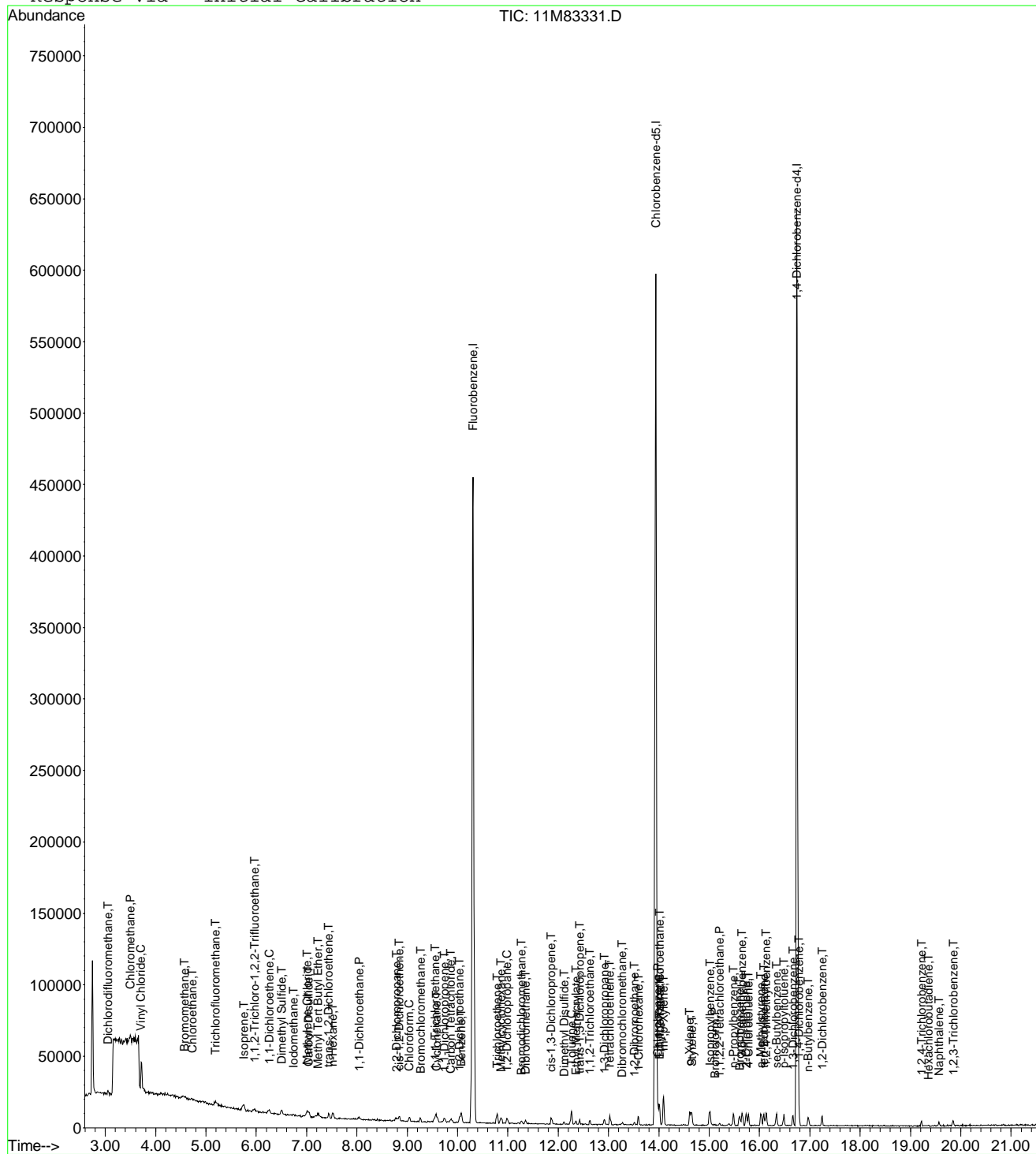
Page 2

Data File : C:\MSDCHEM\1\DATA\050312\11M83331.D
 Acq On : 3 May 2012 17:32
 Sample : WG396851-03 0.4ug/L STD 8260
 Misc : 1,1 STD51468
 MS Integration Params: rteint.p
 Quant Time: May 4 8:37 2012

Vial: 3
 Operator: ADC
 Inst : HPMS11
 Multiplr: 1.00

Quant Results File: 8260WTR.RES

Method : C:\MSDCHEM\1\METHODS\8260WTR.M (RTE Integrator)
 Title : 8260B/624 (SOP: OVL MSV01) Water 05/03/12 HPMS11
 Last Update : Fri May 04 08:32:33 2012
 Response via : Initial Calibration



Data File : C:\MSDCHEM\1\DATA\050312\11M83332.D Vial: 4
 Acq On : 3 May 2012 18:02 Operator: ADC
 Sample : WG396851-04 1ug/L STD 8260 Inst : HPMS11
 Misc : 1,1 STD51468 Multiplr: 1.00
 MS Integration Params: rteint.p
 Quant Time: May 04 08:37:13 2012 Quant Results File: 8260WTR.RES

Quant Method : C:\MSDCHEM\1\METHODS\8260WTR.M (RTE Integrator)
 Title : 8260B/624 (SOP: OVL MSV01) Water 05/03/12 HPMS11
 Last Update : Fri May 04 08:32:33 2012
 Response via : Initial Calibration
 DataAcq Meth : 8260WTR

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene	10.31	96	534064	25.00	ug/L	0.00
57) Chlorobenzene-d5	13.94	117	410761	25.00	ug/L	0.00
78) 1,4-Dichlorobenzene-d4	16.74	152	209178	25.00	ug/L	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
37) Dibromofluoromethane	9.33	111	3612	0.5550	ug/L	0.01
Spiked Amount	25.000	Range 86 - 118	Recovery	=	2.24%#	
43) 1,2-Dichloroethane-d4	9.93	65	3770	0.6054	ug/L	0.01
Spiked Amount	25.000	Range 80 - 120	Recovery	=	2.44%#	
58) Toluene-d8	12.17	98	12642	0.5835	ug/L	0.00
Spiked Amount	25.000	Range 88 - 110	Recovery	=	2.32%#	
80) p-Bromofluorobenzene	15.33	95	4012	0.5803	ug/L	0.00
Spiked Amount	25.000	Range 86 - 115	Recovery	=	2.32%#	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	3.05	85	7319	1.0620	ug/L	93
3) Chloromethane	3.48	50	12577	1.0626	ug/L	96
4) Vinyl Chloride	3.70	62	14477	1.1317	ug/L	99
5) 1,3-Butadiene	3.75	54	8464	1.4280	ug/L	80
6) Bromomethane	4.57	94	4210	1.1092	ug/L	97
7) Chloroethane	4.71	64	4336	1.0631	ug/L	87
8) Trichlorofluoromethane	5.20	101	11279	0.9795	ug/L	92
9) Diethyl ether	5.71	59	19078	4.6934	ug/L	97
10) Isoprene	5.75	67	9229	1.0301	ug/L	91
11) Acrolein	5.93	56	207	0.7332	ug/L	# 13
12) 1,1,2-Trichloro-1,2,2-Trif	5.95	101	6048	1.0129	ug/L	100
13) Acetone	6.04	43	1576	0.7690	ug/L	# 45
14) 1,1-Dichloroethene	6.26	61	7901	0.9746	ug/L	96
15) Tert-Butyl Alcohol	6.36	59	1735	6.4423	ug/L	# 59
16) Dimethyl Sulfide	6.50	62	6695	1.0083	ug/L	99
17) Iodomethane	6.74	142	5516	1.0109	ug/L	97
18) Methyl acetate	6.76	43	3606	1.0454	ug/L	# 74
19) Methylene Chloride	7.01	84	5966	1.0354	ug/L	93
20) Carbon Disulfide	7.05	76	16752	1.0136	ug/L	98
21) Acrylonitrile	7.19	53	924	0.7852	ug/L	97
22) Methyl Tert Butyl Ether	7.23	73	13880	1.0311	ug/L	94
23) trans-1,2-Dichloroethene	7.44	96	5867	1.0136	ug/L	98
24) n-Hexane	7.52	57	5560	0.9508	ug/L	# 76
25) Diisopropyl ether	7.86	45	80883	4.7711	ug/L	98
26) Vinyl Acetate	8.00	43	1526	3.0165	ug/L	# 70
27) 1,1-Dichloroethane	8.04	63	9199	0.9484	ug/L	# 91
28) Ethyl-Tert-Butyl ether	8.41	59	78234	4.7262	ug/L	100
29) 2-Butanone	8.57	43	1293	0.9408	ug/L	# 49
30) Propionitrile	8.67	54	1733	4.2728	ug/L	# 60
31) 2,2-Dichloropropane	8.79	77	7802	0.9952	ug/L	88
32) cis-1,2-Dichloroethene	8.85	96	6173	0.9842	ug/L	96
33) Chloroform	9.04	83	10622	1.0358	ug/L	100
34) 1-Bromopropane	9.17	122	859	0.7323	ug/L	85
35) Bromochloromethane	9.25	130	3819	0.9584	ug/L	95
36) Tetrahydrofuran	9.29	42	4411	4.9451	ug/L	93
38) 1,1,1-Trichloroethane	9.55	97	9481	0.9856	ug/L	# 97
39) Cyclohexane	9.58	56	7789	1.0050	ug/L	98
40) 1,1-Dichloropropene	9.73	75	7631	0.9976	ug/L	100
41) Carbon Tetrachloride	9.86	117	7454	1.0454	ug/L	96
42) Tert-Amyl-Methyl ether	9.83	73	70273	4.6433	ug/L	# 99

(#) = qualifier out of range (m) = manual integration
 11M83332.D 8260WTR.M Fri May 04 08:37:14 2012

Data File : C:\MSDCHEM\1\DATA\050312\11M83332.D Vial: 4
 Acq On : 3 May 2012 18:02 Operator: ADC
 Sample : WG396851-04 ug/L STD 8260 Inst : HPMS11
 Misc : 1,1 STD51468 Multiplr: 1.00
 MS Integration Params: rteint.p
 Quant Time: May 04 08:37:13 2012 Quant Results File: 8260WTR.RES

Quant Method : C:\MSDCHEM\1\METHODS\8260WTR.M (RTE Integrator)
 Title : 8260B/624 (SOP: OVL MSV01) Water 05/03/12 HPMS11
 Last Update : Fri May 04 08:32:33 2012
 Response via : Initial Calibration
 DataAcq Meth : 8260WTR

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
45) 1,2-Dichloroethane	10.03	62	7319	1.0152	ug/L	94
46) Benzene	10.07	78	22548	1.0090	ug/L	96
47) Trichloroethene	10.78	130	7722	1.0539	ug/L	95
48) Methylcyclohexane	10.87	83	7687	1.0021	ug/L	98
49) 1,2-Dichloropropane	10.98	63	5252	1.0209	ug/L	88
51) Bromodichloromethane	11.26	83	6552	0.9304	ug/L #	93
52) Dibromomethane	11.35	93	2815	1.0407	ug/L	92
53) 2-Chloroethyl Vinyl Ether	11.55	63	1611	0.7341	ug/L #	44
54) 4-Methyl-2-Pentanone	11.58	58	785	0.6531	ug/L #	50
55) cis-1,3-Dichloropropene	11.87	75	7574	0.9338	ug/L	94
56) Dimethyl Disulfide	12.11	79	2068	1.3522	ug/L	99
59) Toluene	12.26	91	23197	0.9389	ug/L	95
60) Ethyl Methacrylate	12.36	69	3766	1.2956	ug/L	94
62) trans-1,3-Dichloropropene	12.43	75	5796	0.8750	ug/L	92
63) 1,1,2-Trichloroethane	12.64	97	4310	1.0561	ug/L	95
64) 2-Hexanone	12.58	43	2106	1.0206	ug/L #	75
65) 1,3-Dichloropropane	12.91	76	6701	0.9775	ug/L	95
66) Tetrachloroethene	13.03	164	4982	0.9842	ug/L	93
67) Dibromochloromethane	13.28	129	3954	0.9555	ug/L	97
68) 1,2-Dibromoethane	13.51	107	4250	1.0057	ug/L	97
69) 1-Chlorohexane	13.60	91	6867	0.9695	ug/L	99
70) Chlorobenzene	13.99	112	15766	0.9587	ug/L	98
71) 1,1,1,2-Tetrachloroethane	14.01	131	4630	1.0287	ug/L	100
72) Ethylbenzene	14.01	106	8536	0.9565	ug/L	96
73) m-,p-Xylene	14.09	106	20303	1.8423	ug/L	98
74) o-Xylene	14.62	106	9693	0.9029	ug/L	93
75) Styrene	14.65	104	15602	0.9134	ug/L	96
76) Bromoform	15.12	173	1782	0.9374	ug/L	95
77) Isopropylbenzene	15.01	105	24398	0.9653	ug/L	99
79) 1,1,2,2-Tetrachloroethane	15.21	83	3395	0.9118	ug/L	90
81) 1,2,3-Trichloropropane	15.39	110	1050	0.9317	ug/L	62
82) trans-1,4-Dichloro-2-Buten	15.43	53	187	1.7318	ug/L #	1
83) n-Propylbenzene	15.48	91	26870	0.9873	ug/L	99
84) Bromobenzene	15.60	156	6390	0.9828	ug/L	66
85) 1,3,5-Trimethylbenzene	15.65	105	19712	0.9752	ug/L	97
86) 2-Chlorotoluene	15.74	91	18038	0.9855	ug/L	97
87) 4-Chlorotoluene	15.78	91	16095	1.0048	ug/L	99
88) a-Methylstyrene	16.03	118	10366	0.9209	ug/L	97
89) tert-Butylbenzene	16.09	134	4034	0.9171	ug/L	84
90) 1,2,4-Trimethylbenzene	16.14	105	18899	0.8987	ug/L	99
91) sec-Butylbenzene	16.34	105	23274	0.9862	ug/L	98
92) p-Isopropyltoluene	16.48	119	18989	0.9377	ug/L	97
93) 1,3-Dichlorobenzene	16.67	146	11949	0.9370	ug/L	100
94) 1,4-Dichlorobenzene	16.78	146	12277	0.9458	ug/L #	68
95) n-Butylbenzene	16.97	91	14655	0.9501	ug/L	96
96) 1,2-Dichlorobenzene	17.25	146	11011	0.9527	ug/L	98
98) 1,2,4-Trichlorobenzene	19.22	180	5969	0.9132	ug/L	99
99) Hexachlorobutadiene	19.36	225	2297	1.1255	ug/L	96
100) Naphthalene	19.56	128	11059	1.0294	ug/L #	93
101) 1,2,3-Trichlorobenzene	19.84	180	5374	0.8798	ug/L	87

(#) = qualifier out of range (m) = manual integration
 11M83332.D 8260WTR.M Fri May 04 08:37:14 2012

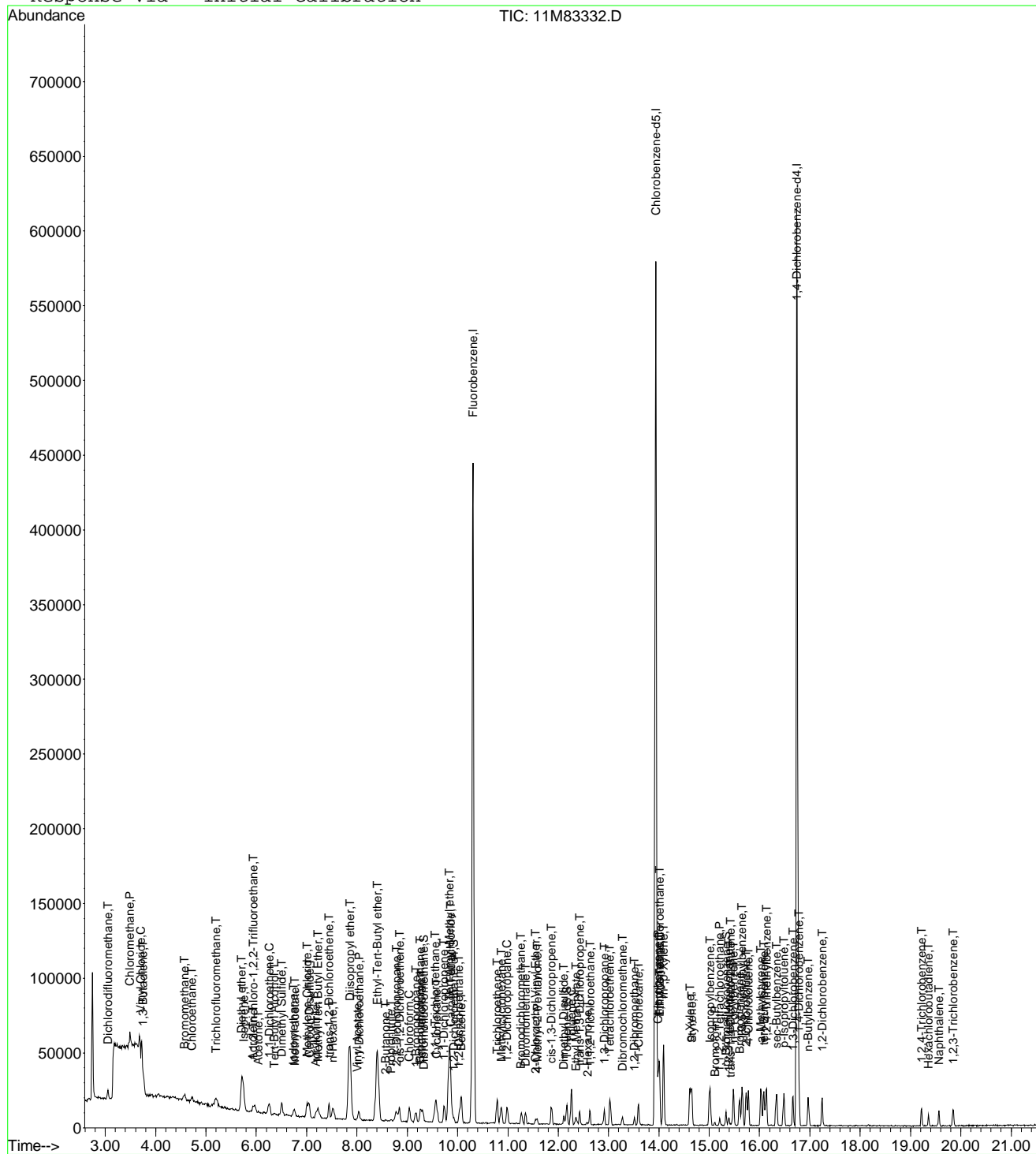
Page 2

Data File : C:\MSDCHEM\1\DATA\050312\11M83332.D
Acq On : 3 May 2012 18:02
Sample : WG396851-04 lug/L STD 8260
Misc : 1,1 STD51468
MS Integration Params: rteint.p
Quant Time: May 4 8:37 2012

Vial: 4
Operator: ADC
Inst : HPMS11
Multiplr: 1.00

Quant Results File: 8260WTR.RES

Method : C:\MSDCHEM\1\METHODS\8260WTR.M (RTE Integrator)
Title : 8260B/624 (SOP: OVL MSV01) Water 05/03/12 HPMS11
Last Update : Fri May 04 08:32:33 2012
Response via : Initial Calibration



Data File : C:\MSDCHEM\1\DATA\050312\11M83333.D Vial: 5
 Acq On : 3 May 2012 18:33 Operator: ADC
 Sample : WG396851-05 2ug/L STD 8260 Inst : HPMS11
 Misc : 1,1 STD51468 Multiplr: 1.00
 MS Integration Params: rteint.p
 Quant Time: May 04 08:37:14 2012 Quant Results File: 8260WTR.RES

Quant Method : C:\MSDCHEM\1\METHODS\8260WTR.M (RTE Integrator)
 Title : 8260B/624 (SOP: OVL MSV01) Water 05/03/12 HPMS11
 Last Update : Fri May 04 08:32:33 2012
 Response via : Initial Calibration
 DataAcq Meth : 8260WTR

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene	10.31	96	518293	25.00	ug/L	0.00
57) Chlorobenzene-d5	13.94	117	398843	25.00	ug/L	0.00
78) 1,4-Dichlorobenzene-d4	16.74	152	209309	25.00	ug/L	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
37) Dibromofluoromethane	9.32	111	6316	1.0000	ug/L	0.00
Spiked Amount	25.000	Range 86 - 118	Recovery	=	4.00%#	
43) 1,2-Dichloroethane-d4	9.93	65	5891	0.9748	ug/L	0.01
Spiked Amount	25.000	Range 80 - 120	Recovery	=	3.88%#	
58) Toluene-d8	12.17	98	20839	0.9905	ug/L	0.00
Spiked Amount	25.000	Range 88 - 110	Recovery	=	3.96%#	
80) p-Bromofluorobenzene	15.33	95	6864	0.9921	ug/L	0.00
Spiked Amount	25.000	Range 86 - 115	Recovery	=	3.96%#	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	3.05	85	12736	1.9043	ug/L	100
3) Chloromethane	3.48	50	22761	1.9816	ug/L #	74
4) Vinyl Chloride	3.70	62	23042	1.7901	ug/L	98
5) 1,3-Butadiene	3.74	54	20696	3.5980	ug/L	81
6) Bromomethane	4.57	94	7327	1.9892	ug/L	100
7) Chloroethane	4.72	64	8046	2.0328	ug/L	86
8) Trichlorofluoromethane	5.19	101	21370	1.9123	ug/L	99
9) Diethyl ether	5.71	59	94149	23.8666	ug/L	100
10) Isoprene	5.75	67	16600	1.9092	ug/L	96
11) Acrolein	5.95	56	475	1.7336	ug/L	70
12) 1,1,2-Trichloro-1,2,2-Trif	5.96	101	11562	1.9953	ug/L	97
13) Acetone	6.03	43	2653	1.9616	ug/L #	45
14) 1,1-Dichloroethene	6.26	61	15337	1.9494	ug/L	100
15) Tert-Butyl Alcohol	6.37	59	10628	40.6643	ug/L #	91
16) Dimethyl Sulfide	6.50	62	12407	1.9254	ug/L	97
17) Iodomethane	6.75	142	12634	1.9142	ug/L	99
18) Methyl acetate	6.77	43	6740	2.0134	ug/L #	78
19) Methylene Chloride	7.00	84	11127	1.9899	ug/L	96
20) Carbon Disulfide	7.04	76	30703	1.9143	ug/L	99
21) Acrylonitrile	7.18	53	1998	1.7495	ug/L	99
22) Methyl Tert Butyl Ether	7.21	73	25713	1.9682	ug/L	99
23) trans-1,2-Dichloroethene	7.44	96	10652	1.8963	ug/L	99
24) n-Hexane	7.53	57	10701	1.8856	ug/L #	85
25) Diisopropyl ether	7.85	45	385743	23.4467	ug/L	99
26) Vinyl Acetate	8.01	43	2699	3.3660	ug/L #	70
27) 1,1-Dichloroethane	8.03	63	17889	1.9005	ug/L	98
28) Ethyl-Tert-Butyl ether	8.40	59	376774	23.4540	ug/L	99
29) 2-Butanone	8.57	43	2729	2.0461	ug/L #	63
30) Propionitrile	8.66	54	9921	25.2051	ug/L	94
31) 2,2-Dichloropropane	8.79	77	13514	1.7763	ug/L	96
32) cis-1,2-Dichloroethene	8.84	96	11960	1.9648	ug/L	96
33) Chloroform	9.04	83	19676	1.9772	ug/L	94
34) 1-Bromopropane	9.17	122	1966	1.7271	ug/L	97
35) Bromochloromethane	9.26	130	7581	1.9604	ug/L	96
36) Tetrahydrofuran	9.29	42	20833	24.0663	ug/L	97
38) 1,1,1-Trichloroethane	9.55	97	17496	1.8741	ug/L	97
39) Cyclohexane	9.57	56	14288	1.8996	ug/L	99
40) 1,1-Dichloropropene	9.74	75	13987	1.8842	ug/L	94
41) Carbon Tetrachloride	9.87	117	14081	1.7305	ug/L	98
42) Tert-Amyl-Methyl ether	9.83	73	342481	23.3182	ug/L	100

(#) = qualifier out of range (m) = manual integration
 11M83333.D 8260WTR.M Fri May 04 08:37:15 2012

Data File : C:\MSDCHEM\1\DATA\050312\11M83333.D Vial: 5
 Acq On : 3 May 2012 18:33 Operator: ADC
 Sample : WG396851-05 2ug/L STD 8260 Inst : HPMS11
 Misc : 1,1 STD51468 Multiplr: 1.00
 MS Integration Params: rteint.p
 Quant Time: May 04 08:37:14 2012 Quant Results File: 8260WTR.RES

Quant Method : C:\MSDCHEM\1\METHODS\8260WTR.M (RTE Integrator)
 Title : 8260B/624 (SOP: OVL MSV01) Water 05/03/12 HPMS11
 Last Update : Fri May 04 08:32:33 2012
 Response via : Initial Calibration
 DataAcq Meth : 8260WTR

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
45) 1,2-Dichloroethane	10.03	62	12958	1.8521	ug/L	99
46) Benzene	10.07	78	40253	1.8560	ug/L	99
47) Trichloroethene	10.78	130	13753	1.9341	ug/L	98
48) Methylcyclohexane	10.87	83	14286	1.9190	ug/L	97
49) 1,2-Dichloropropane	10.99	63	9763	1.9554	ug/L	95
50) 1,4-Dioxane	11.26	88	1335	37.6086	ug/L	99
51) Bromodichloromethane	11.27	83	12614	1.8458	ug/L	95
52) Dibromomethane	11.35	93	6200	2.0741	ug/L	95
53) 2-Chloroethyl Vinyl Ether	11.55	63	3787	1.7781	ug/L	90
54) 4-Methyl-2-Pentanone	11.58	58	2177	1.8664	ug/L #	75
55) cis-1,3-Dichloropropene	11.87	75	14043	1.7840	ug/L	99
56) Dimethyl Disulfide	12.11	79	4422	1.9238	ug/L	89
59) Toluene	12.26	91	45395	1.8923	ug/L	100
60) Ethyl Methacrylate	12.35	69	7157	1.9787	ug/L	92
61) Paraldehyde	12.39	89	437	28.5992	ug/L #	1
62) trans-1,3-Dichloropropene	12.43	75	11482	1.7852	ug/L	95
63) 1,1,2-Trichloroethane	12.64	97	7697	1.9425	ug/L	98
64) 2-Hexanone	12.57	43	4032	2.0123	ug/L	81
65) 1,3-Dichloropropane	12.91	76	13466	2.0231	ug/L	100
66) Tetrachloroethene	13.03	164	9904	2.0150	ug/L	97
67) Dibromochloromethane	13.28	129	8395	1.7989	ug/L	97
68) 1,2-Dibromoethane	13.51	107	7945	1.9362	ug/L	100
69) 1-Chlorohexane	13.60	91	12357	1.7967	ug/L	97
70) Chlorobenzene	13.98	112	29745	1.8627	ug/L	97
71) 1,1,1,2-Tetrachloroethane	14.01	131	9179	1.8508	ug/L	92
72) Ethylbenzene	14.01	106	15594	1.7995	ug/L	97
73) m-,p-Xylene	14.09	106	38442	3.5925	ug/L	100
74) o-Xylene	14.62	106	18420	1.7671	ug/L	100
75) Styrene	14.65	104	29854	1.8000	ug/L	97
76) Bromoform	15.11	173	4229	1.7945	ug/L	88
77) Isopropylbenzene	15.01	105	45389	1.8495	ug/L	99
79) 1,1,2,2-Tetrachloroethane	15.21	83	6972	1.8712	ug/L	96
81) 1,2,3-Trichloropropane	15.40	110	2120	1.8799	ug/L	75
82) trans-1,4-Dichloro-2-Butene	15.44	53	1131	2.5856	ug/L #	26
83) n-Propylbenzene	15.48	91	51127	1.8773	ug/L	99
84) Bromobenzene	15.60	156	12541	1.9275	ug/L	99
85) 1,3,5-Trimethylbenzene	15.65	105	37817	1.8698	ug/L	95
86) 2-Chlorotoluene	15.74	91	34649	1.8918	ug/L	98
87) 4-Chlorotoluene	15.78	91	29008	1.8098	ug/L	100
88) a-Methylstyrene	16.03	118	20707	1.8384	ug/L	99
89) tert-Butylbenzene	16.08	134	8477	1.9259	ug/L	92
90) 1,2,4-Trimethylbenzene	16.13	105	37557	1.7848	ug/L	99
91) sec-Butylbenzene	16.34	105	42988	1.8204	ug/L	98
92) p-Isopropyltoluene	16.48	119	34961	1.7254	ug/L	99
93) 1,3-Dichlorobenzene	16.67	146	22715	1.7801	ug/L	98
94) 1,4-Dichlorobenzene	16.78	146	24047	1.8514	ug/L	90
95) n-Butylbenzene	16.97	91	27963	1.8117	ug/L	99
96) 1,2-Dichlorobenzene	17.25	146	21392	1.8497	ug/L	99
97) 1,2-Dibromo-3-Chloropropane	18.16	75	491	1.2705	ug/L	57
98) 1,2,4-Trichlorobenzene	19.22	180	11442	1.7494	ug/L	100
99) Hexachlorobutadiene	19.36	225	4775	2.0752	ug/L	90
100) Naphthalene	19.56	128	21734	1.7860	ug/L	99
101) 1,2,3-Trichlorobenzene	19.85	180	10899	1.7832	ug/L	98

(#) = qualifier out of range (m) = manual integration
 11M83333.D 8260WTR.M Fri May 04 08:37:15 2012

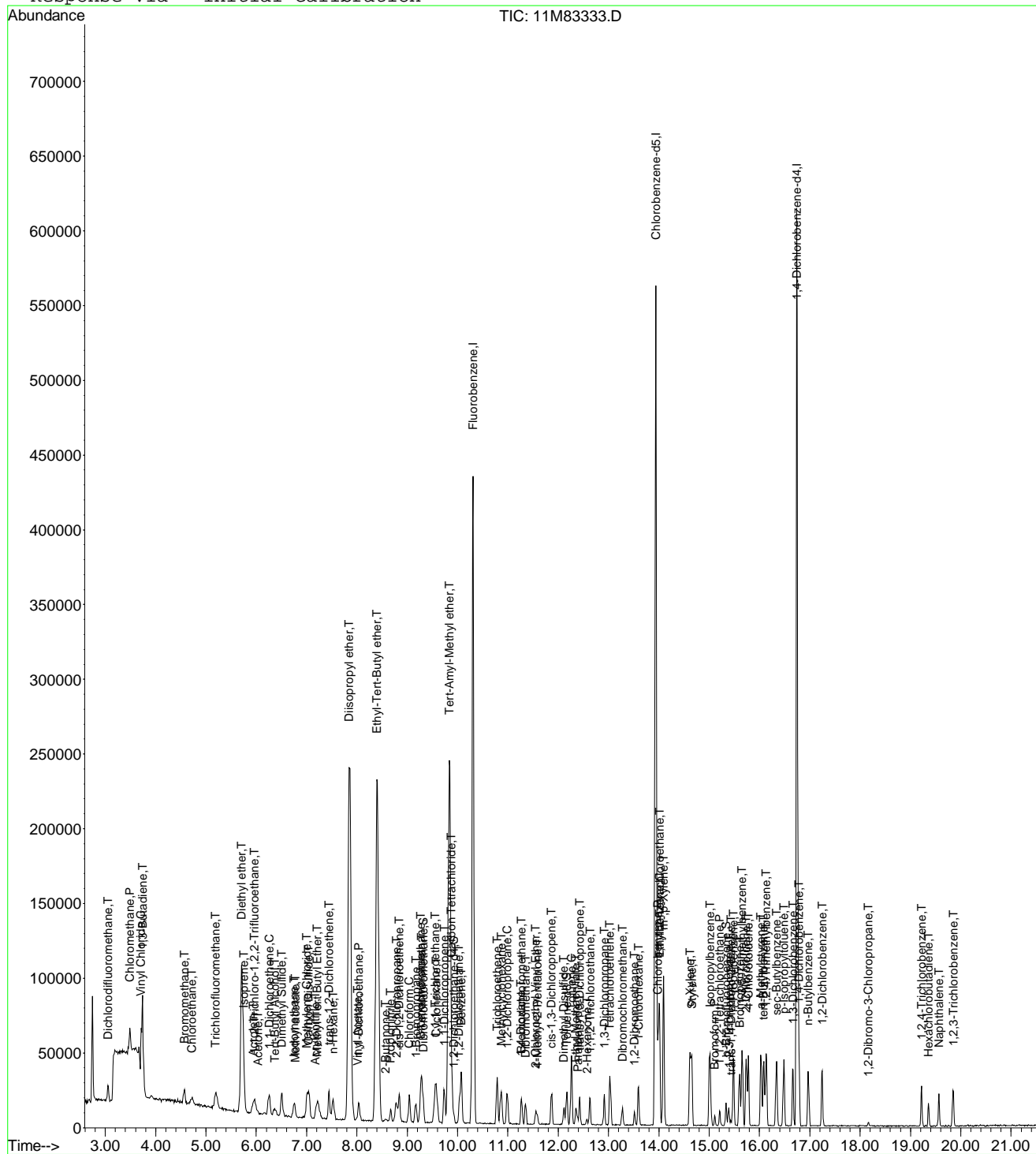
Page 2

Data File : C:\MSDCHEM\1\DATA\050312\11M83333.D
Acq On : 3 May 2012 18:33
Sample : WG396851-05 2ug/L STD 8260
Misc : 1,1 STD51468
MS Integration Params: rteint.p
Quant Time: May 4 8:37 2012

Vial: 5
Operator: ADC
Inst : HPMS11
Multiplr: 1.00

Quant Results File: 8260WTR.RES

Method : C:\MSDCHEM\1\METHODS\8260WTR.M (RTE Integrator)
Title : 8260B/624 (SOP: OVL MSV01) Water 05/03/12 HPMS11
Last Update : Fri May 04 08:32:33 2012
Response via : Initial Calibration



Data File : C:\MSDCHEM\1\DATA\050312\11M83334.D Vial: 6
 Acq On : 3 May 2012 19:04 Operator: ADC
 Sample : WG396851-06 5ug/L STD 8260 Inst : HPMS11
 Misc : 1,1 STD51468 Multiplr: 1.00
 MS Integration Params: rteint.p
 Quant Time: May 04 08:37:16 2012 Quant Results File: 8260WTR.RES

Quant Method : C:\MSDCHEM\1\METHODS\8260WTR.M (RTE Integrator)
 Title : 8260B/624 (SOP: OVL MSV01) Water 05/03/12 HPMS11
 Last Update : Fri May 04 08:32:33 2012
 Response via : Initial Calibration
 DataAcq Meth : 8260WTR

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene	10.31	96	503454	25.00	ug/L	0.00
57) Chlorobenzene-d5	13.94	117	391947	25.00	ug/L	0.00
78) 1,4-Dichlorobenzene-d4	16.74	152	206722	25.00	ug/L	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
37) Dibromofluoromethane	9.32	111	14515	2.3660	ug/L	0.00
Spiked Amount	25.000	Range 86 - 118	Recovery	=	9.48%#	
43) 1,2-Dichloroethane-d4	9.93	65	13685	2.3311	ug/L	0.01
Spiked Amount	25.000	Range 80 - 120	Recovery	=	9.32%#	
58) Toluene-d8	12.17	98	49354	2.3872	ug/L	0.00
Spiked Amount	25.000	Range 88 - 110	Recovery	=	9.56%#	
80) p-Bromofluorobenzene	15.33	95	16301	2.3857	ug/L	0.00
Spiked Amount	25.000	Range 86 - 115	Recovery	=	9.56%#	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	3.05	85	30912	4.7582	ug/L	100
3) Chloromethane	3.48	50	51914	4.6530	ug/L	86
4) Vinyl Chloride	3.70	62	65691	5.1020	ug/L	98
5) 1,3-Butadiene	3.74	54	43618	7.8065	ug/L	96
6) Bromomethane	4.57	94	16076	4.4932	ug/L	97
7) Chloroethane	4.71	64	17043	4.4328	ug/L	97
8) Trichlorofluoromethane	5.19	101	50667	4.6675	ug/L	99
9) Diethyl ether	5.71	59	183634	47.9229	ug/L	99
10) Isoprene	5.75	67	38137	4.5155	ug/L	100
11) Acrolein	5.92	56	2491	9.3595	ug/L	96
12) 1,1,2-Trichloro-1,2,2-Trif	5.96	101	27572	4.8985	ug/L	97
13) Acetone	6.04	43	6057	5.7646	ug/L	91
14) 1,1-Dichloroethene	6.26	61	37740	4.9383	ug/L	97
15) Tert-Butyl Alcohol	6.36	59	21827	85.9748	ug/L	98
16) Dimethyl Sulfide	6.50	62	28334	4.5268	ug/L	99
17) Iodomethane	6.75	142	33186	4.5854	ug/L	97
18) Methyl acetate	6.76	43	16189	4.9785	ug/L #	89
19) Methylene Chloride	7.00	84	25640	4.7205	ug/L	97
20) Carbon Disulfide	7.05	76	71069	4.5616	ug/L	99
21) Acrylonitrile	7.19	53	5820	5.2465	ug/L	93
22) Methyl Tert Butyl Ether	7.23	73	59988	4.7272	ug/L	99
23) trans-1,2-Dichloroethene	7.44	96	26654	4.8850	ug/L	98
24) n-Hexane	7.53	57	25840	4.6875	ug/L	97
25) Diisopropyl ether	7.85	45	766207	47.9451	ug/L	99
26) Vinyl Acetate	8.01	43	10005	5.5472	ug/L #	89
27) 1,1-Dichloroethane	8.04	63	42703	4.6703	ug/L	98
28) Ethyl-Tert-Butyl ether	8.40	59	745333	47.7642	ug/L	99
29) 2-Butanone	8.57	43	6928	5.3475	ug/L	90
30) Propionitrile	8.66	54	18931	49.5134	ug/L	98
31) 2,2-Dichloropropane	8.79	77	34505	4.6689	ug/L	99
32) cis-1,2-Dichloroethene	8.84	96	27486	4.6486	ug/L	95
33) Chloroform	9.04	83	46323	4.7920	ug/L	99
34) 1-Bromopropane	9.17	122	5267	4.7633	ug/L	98
35) Bromochloromethane	9.26	130	18195	4.8439	ug/L	98
36) Tetrahydrofuran	9.28	42	42153	50.1305	ug/L	96
38) 1,1,1-Trichloroethane	9.54	97	40907	4.5109	ug/L	99
39) Cyclohexane	9.58	56	33695	4.6118	ug/L	99
40) 1,1-Dichloropropene	9.74	75	33975	4.7116	ug/L	99
41) Carbon Tetrachloride	9.87	117	37917	4.2273	ug/L	99
42) Tert-Amyl-Methyl ether	9.83	73	685005	48.0141	ug/L	100

(#) = qualifier out of range (m) = manual integration
 11M83334.D 8260WTR.M Fri May 04 08:37:16 2012

Data File : C:\MSDCHEM\1\DATA\050312\11M83334.D Vial: 6
 Acq On : 3 May 2012 19:04 Operator: ADC
 Sample : WG396851-06 5ug/L STD 8260 Inst : HPMS11
 Misc : 1,1 STD51468 Multiplr: 1.00
 MS Integration Params: rteint.p
 Quant Time: May 04 08:37:16 2012 Quant Results File: 8260WTR.RES

Quant Method : C:\MSDCHEM\1\METHODS\8260WTR.M (RTE Integrator)
 Title : 8260B/624 (SOP: OVL MSV01) Water 05/03/12 HPMS11
 Last Update : Fri May 04 08:32:33 2012
 Response via : Initial Calibration
 DataAcq Meth : 8260WTR

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
45) 1,2-Dichloroethane	10.04	62	33533	4.9341	ug/L	96
46) Benzene	10.07	78	96837	4.5966	ug/L	98
47) Trichloroethene	10.78	130	31046	4.4947	ug/L	97
48) Methylcyclohexane	10.87	83	33341	4.6106	ug/L	99
49) 1,2-Dichloropropane	10.98	63	22711	4.6829	ug/L	100
50) 1,4-Dioxane	11.25	88	3140	91.0648	ug/L	84
51) Bromodichloromethane	11.27	83	31584	4.7579	ug/L	98
52) Dibromomethane	11.34	93	14730	4.7453	ug/L	96
53) 2-Chloroethyl Vinyl Ether	11.55	63	9654	4.6665	ug/L	97
54) 4-Methyl-2-Pentanone	11.58	58	5319	4.6945	ug/L	99
55) cis-1,3-Dichloropropene	11.87	75	35513	4.6444	ug/L	100
56) Dimethyl Disulfide	12.11	79	11665	3.7092	ug/L	93
59) Toluene	12.26	91	107843	4.5745	ug/L	99
60) Ethyl Methacrylate	12.35	69	18430	4.2420	ug/L	98
61) Paraldehyde	12.38	89	1447	42.6994	ug/L	24
62) trans-1,3-Dichloropropene	12.43	75	28945	4.5794	ug/L	99
63) 1,1,2-Trichloroethane	12.64	97	18621	4.7820	ug/L	97
64) 2-Hexanone	12.57	43	9296	4.7211	ug/L	96
65) 1,3-Dichloropropane	12.91	76	31572	4.8268	ug/L	100
66) Tetrachloroethene	13.03	164	23228	4.8091	ug/L	100
67) Dibromochloromethane	13.28	129	21684	4.3211	ug/L	99
68) 1,2-Dibromoethane	13.51	107	19755	4.8990	ug/L	98
69) 1-Chlorohexane	13.60	91	31575	4.6717	ug/L	99
70) Chlorobenzene	13.98	112	74173	4.7266	ug/L	98
71) 1,1,1,2-Tetrachloroethane	14.01	131	23517	4.4112	ug/L	96
72) Ethylbenzene	14.01	106	40324	4.7352	ug/L	97
73) m-,p-Xylene	14.09	106	95354	9.0678	ug/L	99
74) o-Xylene	14.61	106	45918	4.4826	ug/L	96
75) Styrene	14.65	104	74701	4.5831	ug/L	99
76) Bromoform	15.11	173	11226	4.2392	ug/L	96
77) Isopropylbenzene	15.01	105	112351	4.6587	ug/L	99
79) 1,1,2,2-Tetrachloroethane	15.21	83	18681	5.0766	ug/L	99
81) 1,2,3-Trichloropropane	15.39	110	5832	5.2362	ug/L	78
82) trans-1,4-Dichloro-2-Butene	15.43	53	2927	4.2433	ug/L #	21
83) n-Propylbenzene	15.48	91	128083	4.7619	ug/L	99
84) Bromobenzene	15.60	156	31269	4.8662	ug/L	97
85) 1,3,5-Trimethylbenzene	15.65	105	92830	4.6473	ug/L	98
86) 2-Chlorotoluene	15.74	91	84597	4.6767	ug/L	99
87) 4-Chlorotoluene	15.78	91	72125	4.5561	ug/L	98
88) a-Methylstyrene	16.03	118	50520	4.5413	ug/L	99
89) tert-Butylbenzene	16.09	134	19927	4.5838	ug/L	99
90) 1,2,4-Trimethylbenzene	16.13	105	94663	4.5550	ug/L	99
91) sec-Butylbenzene	16.34	105	109377	4.6896	ug/L	98
92) p-Isopropyltoluene	16.48	119	92965	4.6454	ug/L	99
93) 1,3-Dichlorobenzene	16.67	146	59294	4.7048	ug/L	96
94) 1,4-Dichlorobenzene	16.78	146	60800	4.7396	ug/L	97
95) n-Butylbenzene	16.97	91	73650	4.8313	ug/L	99
96) 1,2-Dichlorobenzene	17.25	146	54364	4.7595	ug/L	96
97) 1,2-Dibromo-3-Chloropropane	18.17	75	2154	3.7703	ug/L	98
98) 1,2,4-Trichlorobenzene	19.22	180	29980	4.6411	ug/L	98
99) Hexachlorobutadiene	19.36	225	10674	4.3886	ug/L	96
100) Naphthalene	19.56	128	57065	4.3358	ug/L	99
101) 1,2,3-Trichlorobenzene	19.85	180	27923	4.6256	ug/L	97

(#) = qualifier out of range (m) = manual integration
 11M83334.D 8260WTR.M Fri May 04 08:37:17 2012

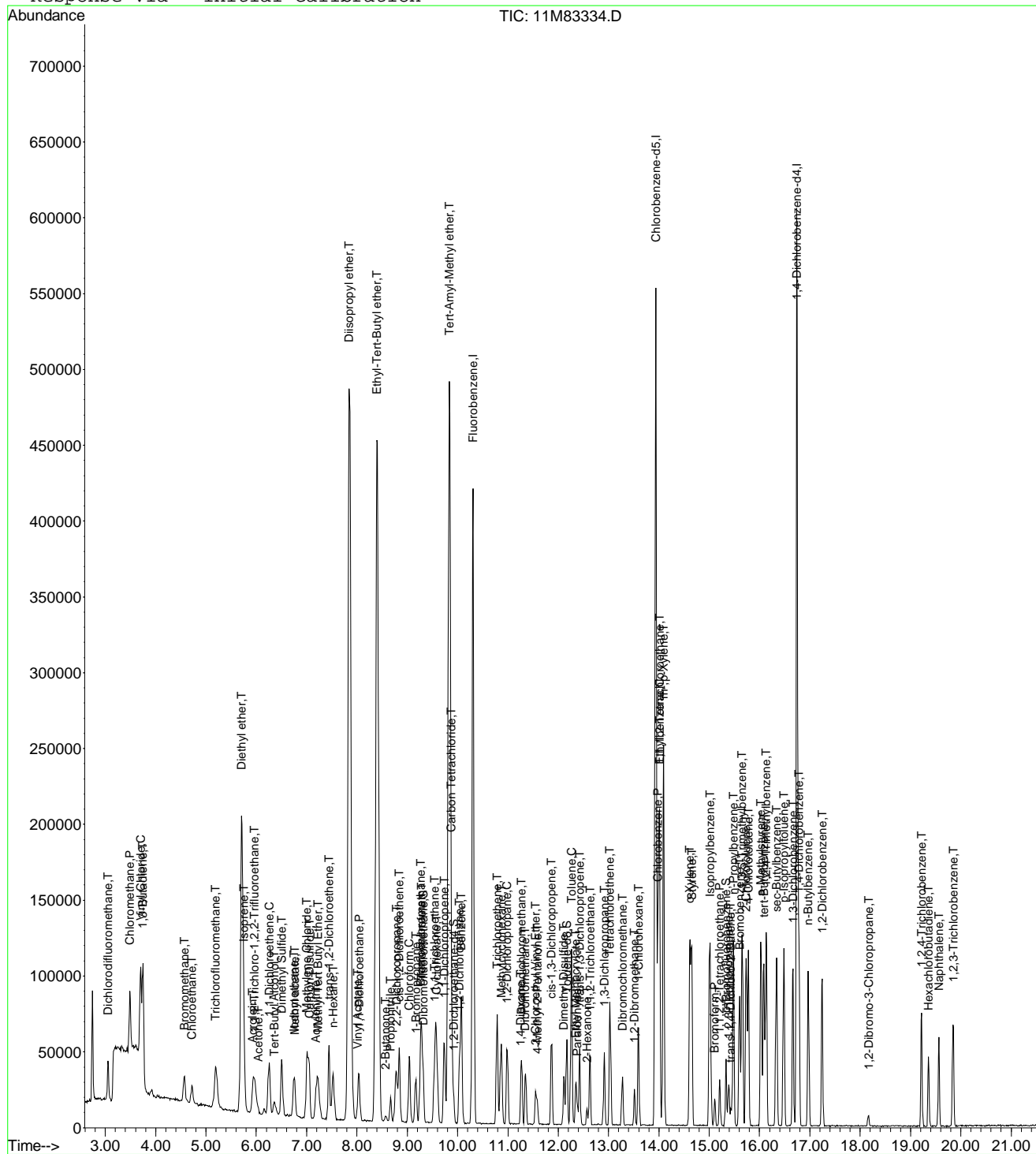
Page 2

Data File : C:\MSDCHEM\1\DATA\050312\11M83334.D
Acq On : 3 May 2012 19:04
Sample : WG396851-06 5ug/L STD 8260
Misc : 1,1 STD51468
MS Integration Params: rteint.p
Quant Time: May 4 8:37 2012

Vial: 6
Operator: ADC
Inst : HPMS11
Multiplr: 1.00

Quant Results File: 8260WTR.RES

Method : C:\MSDCHEM\1\METHODS\8260WTR.M (RTE Integrator)
Title : 8260B/624 (SOP: OVL MSV01) Water 05/03/12 HPMS11
Last Update : Fri May 04 08:32:33 2012
Response via : Initial Calibration



Data File : C:\MSDCHEM\1\DATA\050312\11M83335.D Vial: 7
 Acq On : 3 May 2012 19:34 Operator: ADC
 Sample : WG396851-07 20ug/L STD 8260 Inst : HPMS11
 Misc : 1,1 STD51468 Multiplr: 1.00
 MS Integration Params: rteint.p
 Quant Time: May 04 08:37:18 2012 Quant Results File: 8260WTR.RES

Quant Method : C:\MSDCHEM\1\METHODS\8260WTR.M (RTE Integrator)
 Title : 8260B/624 (SOP: OVL MSV01) Water 05/03/12 HPMS11
 Last Update : Fri May 04 08:32:33 2012
 Response via : Initial Calibration
 DataAcq Meth : 8260WTR

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene	10.31	96	504254	25.00	ug/L	0.00
57) Chlorobenzene-d5	13.94	117	394623	25.00	ug/L	0.00
78) 1,4-Dichlorobenzene-d4	16.74	152	217927	25.00	ug/L	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
37) Dibromofluoromethane	9.32	111	56858	9.2532	ug/L	0.00
Spiked Amount	25.000	Range 86 - 118	Recovery	=	37.00%#	
43) 1,2-Dichloroethane-d4	9.93	65	53945	9.1746	ug/L	0.01
Spiked Amount	25.000	Range 80 - 120	Recovery	=	36.68%#	
58) Toluene-d8	12.17	98	188061	9.0347	ug/L	0.00
Spiked Amount	25.000	Range 88 - 110	Recovery	=	36.12%#	
80) p-Bromofluorobenzene	15.33	95	66677	9.2565	ug/L	0.00
Spiked Amount	25.000	Range 86 - 115	Recovery	=	37.04%#	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	3.05	85	132635	20.3839	ug/L	99
3) Chloromethane	3.48	50	221719	19.8408	ug/L	100
4) Vinyl Chloride	3.70	62	275695	22.4469	ug/L	99
5) 1,3-Butadiene	3.73	54	128779	23.0114	ug/L	99
6) Bromomethane	4.56	94	65223	18.2007	ug/L	98
7) Chloroethane	4.71	64	74645	19.3842	ug/L	99
8) Trichlorofluoromethane	5.19	101	218630	20.1084	ug/L	100
9) Diethyl ether	5.71	59	306304	79.8092	ug/L	99
10) Isoprene	5.74	67	167911	19.8494	ug/L	99
11) Acrolein	5.94	56	10552	39.5846	ug/L	98
12) 1,1,2-Trichloro-1,2,2-Trif	5.96	101	116029	20.5813	ug/L	100
13) Acetone	6.03	43	19491	20.4115	ug/L	95
14) 1,1-Dichloroethene	6.26	61	156029	20.3841	ug/L	98
15) Tert-Butyl Alcohol	6.36	59	40914	160.9013	ug/L	98
16) Dimethyl Sulfide	6.50	62	121955	19.4531	ug/L	99
17) Iodomethane	6.74	142	163899	21.2474	ug/L	100
18) Methyl acetate	6.76	43	60073	18.4447	ug/L	100
19) Methylene Chloride	7.00	84	103618	19.0467	ug/L	100
20) Carbon Disulfide	7.04	76	302977	19.4157	ug/L	100
21) Acrylonitrile	7.18	53	22628	20.3657	ug/L	99
22) Methyl Tert Butyl Ether	7.22	73	249921	19.6631	ug/L	98
23) trans-1,2-Dichloroethene	7.44	96	110195	20.1638	ug/L	98
24) n-Hexane	7.53	57	109324	19.8002	ug/L	100
25) Diisopropyl ether	7.85	45	1276533	79.7519	ug/L	100
26) Vinyl Acetate	8.01	43	50946	17.6180	ug/L	99
27) 1,1-Dichloroethane	8.03	63	179901	19.6442	ug/L	99
28) Ethyl-Tert-Butyl ether	8.40	59	1249608	79.9533	ug/L	100
29) 2-Butanone	8.57	43	25982	20.0228	ug/L	99
30) Propionitrile	8.68	54	31316	81.7760	ug/L	99
31) 2,2-Dichloropropane	8.78	77	145801	19.6973	ug/L	100
32) cis-1,2-Dichloroethene	8.84	96	116663	19.6994	ug/L	98
33) Chloroform	9.04	83	187798	19.3966	ug/L	98
34) 1-Bromopropane	9.17	122	22540	20.3519	ug/L	97
35) Bromochloromethane	9.26	130	76485	20.3296	ug/L	99
36) Tetrahydrofuran	9.29	42	67948	80.6790	ug/L	99
38) 1,1,1-Trichloroethane	9.54	97	177976	19.5948	ug/L	99
39) Cyclohexane	9.57	56	143330	19.5864	ug/L	98
40) 1,1-Dichloropropene	9.73	75	145571	20.1555	ug/L	100
41) Carbon Tetrachloride	9.87	117	169303	17.7335	ug/L	100
42) Tert-Amyl-Methyl ether	9.83	73	1142423	79.9489	ug/L	100

(#) = qualifier out of range (m) = manual integration
 11M83335.D 8260WTR.M Fri May 04 08:37:18 2012

Data File : C:\MSDCHEM\1\DATA\050312\11M83335.D Vial: 7
 Acq On : 3 May 2012 19:34 Operator: ADC
 Sample : WG396851-07 20ug/L STD 8260 Inst : HPMS11
 Misc : 1,1 STD51468 Multiplr: 1.00
 MS Integration Params: rteint.p
 Quant Time: May 04 08:37:18 2012 Quant Results File: 8260WTR.RES

Quant Method : C:\MSDCHEM\1\METHODS\8260WTR.M (RTE Integrator)
 Title : 8260B/624 (SOP: OVL MSV01) Water 05/03/12 HPMS11
 Last Update : Fri May 04 08:32:33 2012
 Response via : Initial Calibration
 DataAcq Meth : 8260WTR

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
45) 1,2-Dichloroethane	10.04	62	133505	19.6128	ug/L	99
46) Benzene	10.07	78	407963	19.3343	ug/L	99
47) Trichloroethene	10.78	130	131634	19.0272	ug/L	100
48) Methylcyclohexane	10.87	83	145964	20.1530	ug/L	99
49) 1,2-Dichloropropane	10.99	63	95354	19.6303	ug/L	98
50) 1,4-Dioxane	11.26	88	5892	170.6059	ug/L	97
51) Bromodichloromethane	11.27	83	135736	20.4153	ug/L	100
52) Dibromomethane	11.34	93	61085	18.9356	ug/L	98
53) 2-Chloroethyl Vinyl Ether	11.55	63	41168	19.8682	ug/L	98
54) 4-Methyl-2-Pentanone	11.58	58	21756	19.1711	ug/L	96
55) cis-1,3-Dichloropropene	11.87	75	154470	20.1695	ug/L	100
56) Dimethyl Disulfide	12.11	79	72686	17.9282	ug/L	97
59) Toluene	12.26	91	458914	19.3343	ug/L	100
60) Ethyl Methacrylate	12.35	69	88109	17.9613	ug/L	97
61) Paraldehyde	12.38	89	3747	74.2185	ug/L	62
62) trans-1,3-Dichloropropene	12.43	75	135848	21.3469	ug/L	100
63) 1,1,2-Trichloroethane	12.62	97	79302	20.2271	ug/L	99
64) 2-Hexanone	12.57	43	39124	19.7350	ug/L	98
65) 1,3-Dichloropropane	12.91	76	132004	20.0443	ug/L	99
66) Tetrachloroethene	13.03	164	97440	20.0369	ug/L	98
67) Dibromochloromethane	13.28	129	103648	19.3127	ug/L	99
68) 1,2-Dibromoethane	13.51	107	82436	20.3045	ug/L	100
69) 1-Chlorohexane	13.60	91	139336	20.4757	ug/L	100
70) Chlorobenzene	13.98	112	315279	19.9547	ug/L	99
71) 1,1,1,2-Tetrachloroethane	14.01	131	113479	19.2985	ug/L	100
72) Ethylbenzene	14.01	106	172803	20.1545	ug/L	99
73) m-,p-Xylene	14.09	106	421771	39.8366	ug/L	99
74) o-Xylene	14.61	106	199414	19.3350	ug/L	98
75) Styrene	14.65	104	333044	20.2948	ug/L	99
76) Bromoform	15.11	173	57953	19.4899	ug/L	99
77) Isopropylbenzene	15.01	105	496481	20.4472	ug/L	99
79) 1,1,2,2-Tetrachloroethane	15.21	83	81431	20.9911	ug/L	99
81) 1,2,3-Trichloropropane	15.39	110	24224	20.6309	ug/L	96
82) trans-1,4-Dichloro-2-Butene	15.43	53	19032	18.0972	ug/L	87
83) n-Propylbenzene	15.48	91	561375	19.7979	ug/L	99
84) Bromobenzene	15.60	156	133970	19.7769	ug/L	98
85) 1,3,5-Trimethylbenzene	15.65	105	411635	19.5479	ug/L	99
86) 2-Chlorotoluene	15.74	91	370972	19.4535	ug/L	100
87) 4-Chlorotoluene	15.78	91	321231	19.2486	ug/L	100
88) a-Methylstyrene	16.03	118	235638	20.0929	ug/L	100
89) tert-Butylbenzene	16.09	134	88664	19.3469	ug/L	99
90) 1,2,4-Trimethylbenzene	16.13	105	426954	19.4879	ug/L	100
91) sec-Butylbenzene	16.34	105	486415	19.7831	ug/L	99
92) p-Isopropyltoluene	16.48	119	420961	19.9535	ug/L	100
93) 1,3-Dichlorobenzene	16.67	146	256621	19.3153	ug/L	99
94) 1,4-Dichlorobenzene	16.78	146	259579	19.1948	ug/L	99
95) n-Butylbenzene	16.97	91	342774	21.3294	ug/L	99
96) 1,2-Dichlorobenzene	17.25	146	239676	19.9045	ug/L	100
97) 1,2-Dibromo-3-Chloropropane	18.16	75	11643	17.0858	ug/L	100
98) 1,2,4-Trichlorobenzene	19.22	180	143256	21.0367	ug/L	99
99) Hexachlorobutadiene	19.36	225	50825	18.9640	ug/L	97
100) Naphthalene	19.56	128	277305	18.8934	ug/L	99
101) 1,2,3-Trichlorobenzene	19.85	180	125942	19.7902	ug/L	100

(#) = qualifier out of range (m) = manual integration
 11M83335.D 8260WTR.M Fri May 04 08:37:18 2012

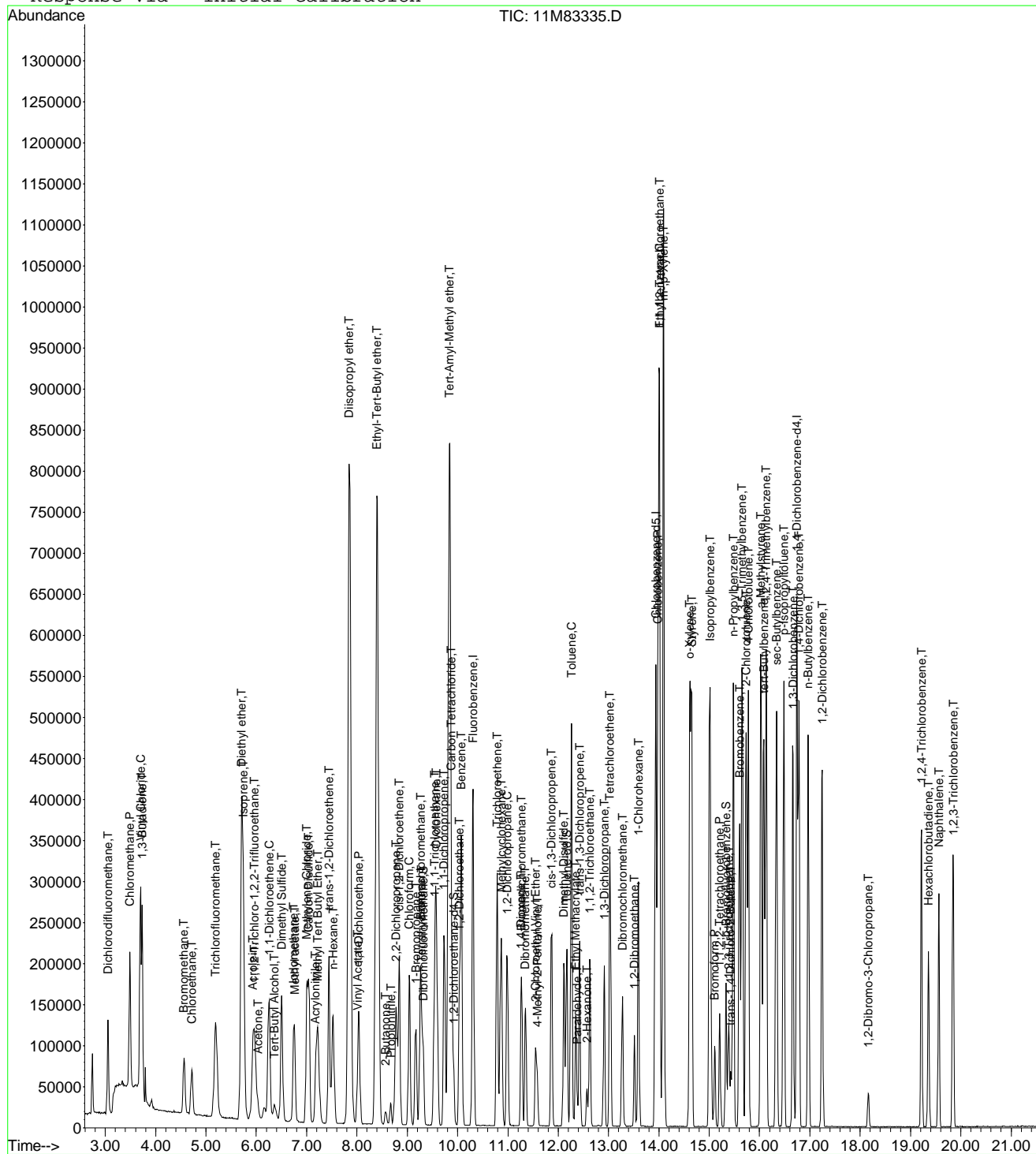
Page 2

Data File : C:\MSDCHEM\1\DATA\050312\11M83335.D
Acq On : 3 May 2012 19:34
Sample : WG396851-07 20ug/L STD 8260
Misc : 1,1 STD51468
MS Integration Params: rteint.p
Quant Time: May 4 8:37 2012

Vial: 7
Operator: ADC
Inst : HPMS11
Multiplr: 1.00

Quant Results File: 8260WTR.RES

Method : C:\MSDCHEM\1\METHODS\8260WTR.M (RTE Integrator)
Title : 8260B/624 (SOP: OVL MSV01) Water 05/03/12 HPMS11
Last Update : Fri May 04 08:32:33 2012
Response via : Initial Calibration



Data File : C:\MSDCHEM\1\DATA\050312\11M83336.D Vial: 8
 Acq On : 3 May 2012 20:05 Operator: ADC
 Sample : WG396851-08 50ug/L STD 8260 Inst : HPMS11
 Misc : 1,1 STD51468 Multiplr: 1.00
 MS Integration Params: rteint.p
 Quant Time: May 04 08:37:19 2012 Quant Results File: 8260WTR.RES

Quant Method : C:\MSDCHEM\1\METHODS\8260WTR.M (RTE Integrator)
 Title : 8260B/624 (SOP: OVL MSV01) Water 05/03/12 HPMS11
 Last Update : Fri May 04 08:32:33 2012
 Response via : Initial Calibration
 DataAcq Meth : 8260WTR

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene	10.31	96	480987	25.00	ug/L	0.00
57) Chlorobenzene-d5	13.94	117	384086	25.00	ug/L	0.00
78) 1,4-Dichlorobenzene-d4	16.74	152	223120	25.00	ug/L	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
37) Dibromofluoromethane	9.32	111	145401	24.8076	ug/L	0.00
Spiked Amount	25.000	Range 86 - 118	Recovery	=	99.24%	
43) 1,2-Dichloroethane-d4	9.92	65	137797	24.5692	ug/L	0.00
Spiked Amount	25.000	Range 80 - 120	Recovery	=	98.28%	
58) Toluene-d8	12.17	98	484290	23.9042	ug/L	0.00
Spiked Amount	25.000	Range 88 - 110	Recovery	=	95.60%	
80) p-Bromofluorobenzene	15.33	95	176477	23.9294	ug/L	0.00
Spiked Amount	25.000	Range 86 - 115	Recovery	=	95.72%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	3.05	85	318854	51.3733	ug/L	100
3) Chloromethane	3.48	50	563739	52.8872	ug/L	100
4) Vinyl Chloride	3.69	62	482108	45.0205	ug/L	100
5) 1,3-Butadiene	3.73	54	268855	50.3654	ug/L	100
6) Bromomethane	4.56	94	171174	50.0773	ug/L	100
7) Chloroethane	4.71	64	188407	51.2932	ug/L	100
8) Trichlorofluoromethane	5.19	101	531021	51.2031	ug/L	100
9) Diethyl ether	5.71	59	363507	99.2954	ug/L	100
10) Isoprene	5.74	67	422799	52.3984	ug/L	100
11) Acrolein	5.94	56	25506	100.3112	ug/L	100
12) 1,1,2-Trichloro-1,2,2-Trif	5.95	101	280955	52.2467	ug/L	100
13) Acetone	6.04	43	44817	50.4094	ug/L	98
14) 1,1-Dichloroethene	6.25	61	376546	51.5728	ug/L	100
15) Tert-Butyl Alcohol	6.38	59	50544	208.3883	ug/L	100
16) Dimethyl Sulfide	6.50	62	301714	50.4547	ug/L	100
17) Iodomethane	6.74	142	401579	54.0338	ug/L	100
18) Methyl acetate	6.76	43	149397	48.0894	ug/L	100
19) Methylene Chloride	7.00	84	256318	49.3946	ug/L	100
20) Carbon Disulfide	7.04	76	752620	50.5634	ug/L	100
21) Acrylonitrile	7.18	53	57797	54.5350	ug/L	100
22) Methyl Tert Butyl Ether	7.22	73	607604	50.1170	ug/L	100
23) trans-1,2-Dichloroethene	7.44	96	268312	51.4716	ug/L	100
24) n-Hexane	7.52	57	271740	51.5970	ug/L	100
25) Diisopropyl ether	7.85	45	1501361	98.3355	ug/L	100
26) Vinyl Acetate	8.01	43	156564	51.0038	ug/L	100
27) 1,1-Dichloroethane	8.03	63	447578	51.2371	ug/L	100
28) Ethyl-Tert-Butyl ether	8.40	59	1460808	97.9878	ug/L	100
29) 2-Butanone	8.57	43	61992	50.0845	ug/L	100
30) Propionitrile	8.66	54	37445	102.5107	ug/L	100
31) 2,2-Dichloropropane	8.78	77	365024	51.6992	ug/L	100
32) cis-1,2-Dichloroethene	8.84	96	289632	51.2722	ug/L	100
33) Chloroform	9.04	83	459935	49.8019	ug/L	100
34) 1-Bromopropane	9.17	122	56406	53.3940	ug/L	100
35) Bromochloromethane	9.26	130	186215	51.8900	ug/L	100
36) Tetrahydrofuran	9.29	42	79210	98.6006	ug/L	100
38) 1,1,1-Trichloroethane	9.54	97	448385	51.7542	ug/L	100
39) Cyclohexane	9.57	56	360938	51.7091	ug/L	100
40) 1,1-Dichloropropene	9.73	75	358842	52.0881	ug/L	100
41) Carbon Tetrachloride	9.87	117	437910	47.5369	ug/L	100
42) Tert-Amyl-Methyl ether	9.83	73	1352091	99.1990	ug/L	100

(#) = qualifier out of range (m) = manual integration
 11M83336.D 8260WTR.M Fri May 04 08:37:20 2012

Data File : C:\MSDCHEM\1\DATA\050312\11M83336.D Vial: 8
 Acq On : 3 May 2012 20:05 Operator: ADC
 Sample : WG396851-08 50ug/L STD 8260 Inst : HPMS11
 Misc : 1,1 STD51468 Multiplr: 1.00
 MS Integration Params: rteint.p
 Quant Time: May 04 08:37:19 2012 Quant Results File: 8260WTR.RES

Quant Method : C:\MSDCHEM\1\METHODS\8260WTR.M (RTE Integrator)
 Title : 8260B/624 (SOP: OVL MSV01) Water 05/03/12 HPMS11
 Last Update : Fri May 04 08:32:33 2012
 Response via : Initial Calibration
 DataAcq Meth : 8260WTR

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
45) 1,2-Dichloroethane	10.03	62	331634	51.0761	ug/L	100
46) Benzene	10.07	78	1014283	50.3944	ug/L	100
47) Trichloroethene	10.78	130	319371	48.3971	ug/L	100
48) Methylcyclohexane	10.87	83	363222	52.5753	ug/L	100
49) 1,2-Dichloropropane	10.98	63	235571	50.8425	ug/L	100
50) 1,4-Dioxane	11.26	88	7073	214.7094	ug/L	100
51) Bromodichloromethane	11.27	83	342196	53.9576	ug/L	100
52) Dibromomethane	11.34	93	151823	48.9761	ug/L	100
53) 2-Chloroethyl Vinyl Ether	11.55	63	106821	54.0469	ug/L	100
54) 4-Methyl-2-Pentanone	11.58	58	56892	52.5575	ug/L	100
55) cis-1,3-Dichloropropene	11.87	75	390095	53.3994	ug/L	100
56) Dimethyl Disulfide	12.11	79	221567	51.4860	ug/L	100
59) Toluene	12.26	91	1166067	50.4748	ug/L	100
60) Ethyl Methacrylate	12.35	69	232413	47.6827	ug/L	100
61) Paraldehyde	12.38	89	5647	102.5004	ug/L	100
62) trans-1,3-Dichloropropene	12.43	75	355211	57.3484	ug/L	100
63) 1,1,2-Trichloroethane	12.62	97	194154	50.8804	ug/L	100
64) 2-Hexanone	12.57	43	97295	50.4241	ug/L	100
65) 1,3-Dichloropropane	12.91	76	325226	50.7390	ug/L	100
66) Tetrachloroethene	13.03	164	244709	51.7009	ug/L	100
67) Dibromochloromethane	13.28	129	274454	50.5581	ug/L	100
68) 1,2-Dibromoethane	13.51	107	203481	51.4935	ug/L	100
69) 1-Chlorohexane	13.60	91	350854	52.9732	ug/L	100
70) Chlorobenzene	13.98	112	824217	53.5976	ug/L	100
71) 1,1,1,2-Tetrachloroethane	14.01	131	320949	50.5991	ug/L	100
72) Ethylbenzene	14.01	106	460199	55.1468	ug/L	100
73) m-,p-Xylene	14.09	106	1137041	110.3408	ug/L	100
74) o-Xylene	14.62	106	516447	51.4479	ug/L	100
75) Styrene	14.65	104	888031	55.5987	ug/L	100
76) Bromoform	15.11	173	166003	52.0664	ug/L	100
77) Isopropylbenzene	15.01	105	1304516	55.1993	ug/L	100
79) 1,1,2,2-Tetrachloroethane	15.21	83	209817	52.8274	ug/L	100
81) 1,2,3-Trichloropropane	15.39	110	61181	50.8934	ug/L	100
82) trans-1,4-Dichloro-2-Butene	15.43	53	53324	46.8112	ug/L	100
83) n-Propylbenzene	15.48	91	1474159	50.7789	ug/L	100
84) Bromobenzene	15.60	156	343197	49.4841	ug/L	100
85) 1,3,5-Trimethylbenzene	15.65	105	1089009	50.5117	ug/L	100
86) 2-Chlorotoluene	15.74	91	977532	50.0679	ug/L	100
87) 4-Chlorotoluene	15.78	91	860249	50.3477	ug/L	100
88) a-Methylstyrene	16.03	118	648787	54.0345	ug/L	100
89) tert-Butylbenzene	16.09	134	238570	50.8454	ug/L	100
90) 1,2,4-Trimethylbenzene	16.13	105	1180981	52.6503	ug/L	100
91) sec-Butylbenzene	16.34	105	1308564	51.9822	ug/L	100
92) p-Isopropyltoluene	16.48	119	1138543	52.7108	ug/L	100
93) 1,3-Dichlorobenzene	16.67	146	688661	50.6276	ug/L	100
94) 1,4-Dichlorobenzene	16.78	146	697020	50.3421	ug/L	100
95) n-Butylbenzene	16.97	91	929872	56.5153	ug/L	100
96) 1,2-Dichlorobenzene	17.25	146	630711	51.1598	ug/L	100
97) 1,2-Dibromo-3-Chloropropane	18.17	75	32882	46.1734	ug/L	100
98) 1,2,4-Trichlorobenzene	19.22	180	388041	55.6565	ug/L	100
99) Hexachlorobutadiene	19.36	225	129587	46.8627	ug/L	100
100) Naphthalene	19.56	128	764777	49.3200	ug/L	100
101) 1,2,3-Trichlorobenzene	19.85	180	339025	52.0337	ug/L	100

(#) = qualifier out of range (m) = manual integration
 11M83336.D 8260WTR.M Fri May 04 08:37:20 2012

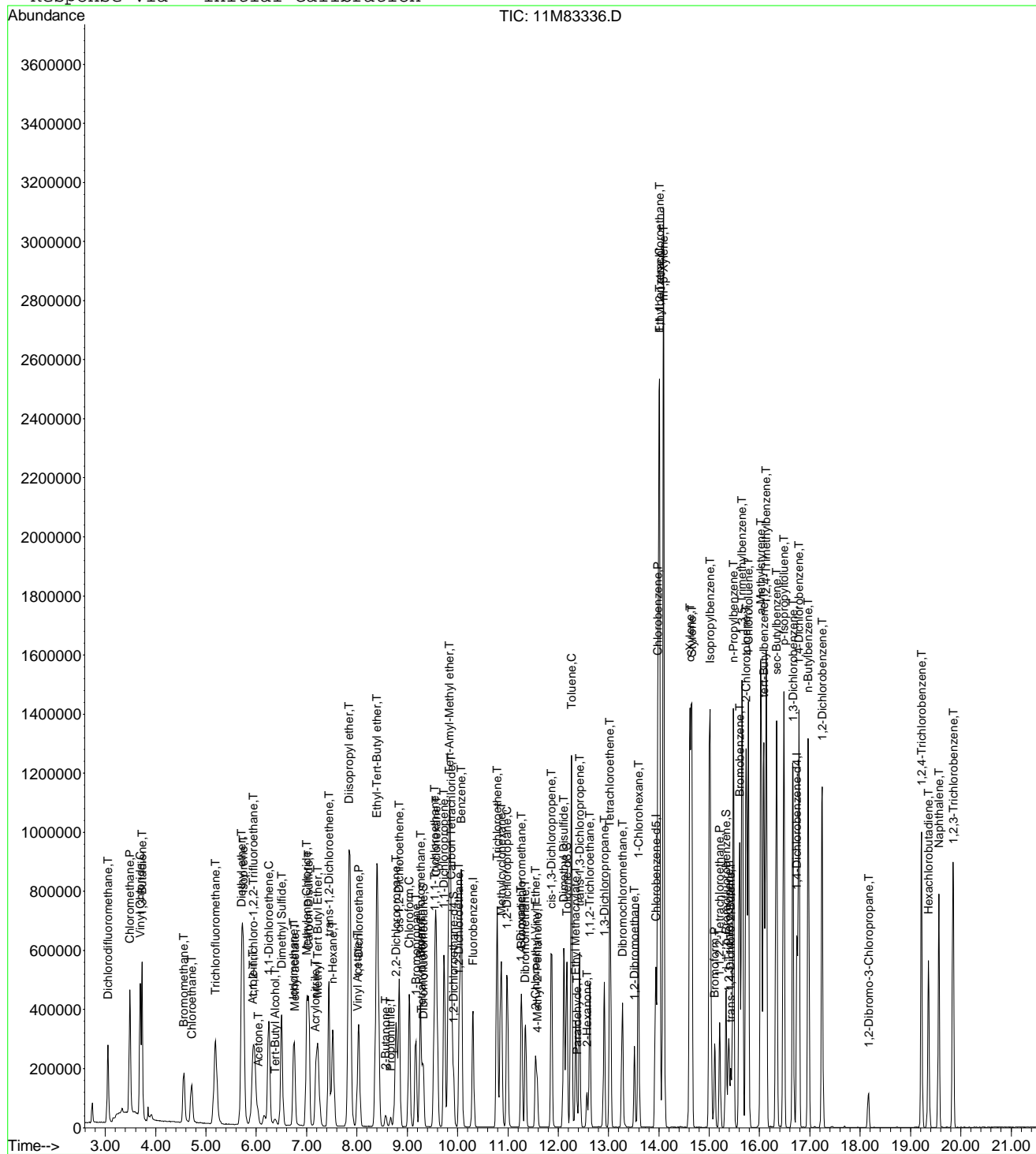
Page 2

Data File : C:\MSDCHEM\1\DATA\050312\11M83336.D
Acq On : 3 May 2012 20:05
Sample : WG396851-08 50ug/L STD 8260
Misc : 1,1 STD51468
MS Integration Params: rteint.p
Quant Time: May 4 8:37 2012

Vial: 8
Operator: ADC
Inst : HPMS11
Multiplr: 1.00

Quant Results File: 8260WTR.RES

Method : C:\MSDCHEM\1\METHODS\8260WTR.M (RTE Integrator)
Title : 8260B/624 (SOP: OVL MSV01) Water 05/03/12 HPMS11
Last Update : Fri May 04 08:32:33 2012
Response via : Initial Calibration



Data File : C:\MSDCHEM\1\DATA\050312\11M83337.D Vial: 9
 Acq On : 3 May 2012 20:35 Operator: ADC
 Sample : WG396851-09 100ug/L STD 8260 Inst : HPMS11
 Misc : 1,1 STD51468 Multiplr: 1.00
 MS Integration Params: rteint.p
 Quant Time: May 04 08:37:20 2012 Quant Results File: 8260WTR.RES

Quant Method : C:\MSDCHEM\1\METHODS\8260WTR.M (RTE Integrator)
 Title : 8260B/624 (SOP: OVL MSV01) Water 05/03/12 HPMS11
 Last Update : Fri May 04 08:32:33 2012
 Response via : Initial Calibration
 DataAcq Meth : 8260WTR

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene	10.31	96	475952	25.00	ug/L	0.00
57) Chlorobenzene-d5	13.94	117	379141	25.00	ug/L	0.00
78) 1,4-Dichlorobenzene-d4	16.74	152	222659	25.00	ug/L	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
37) Dibromofluoromethane	9.32	111	289025	49.8337	ug/L	0.00
Spiked Amount	25.000	Range 86 - 118	Recovery	=	199.32%#	
43) 1,2-Dichloroethane-d4	9.93	65	271598	48.9382	ug/L	0.01
Spiked Amount	25.000	Range 80 - 120	Recovery	=	195.76%#	
58) Toluene-d8	12.17	98	986309	49.3185	ug/L	0.00
Spiked Amount	25.000	Range 88 - 110	Recovery	=	197.28%#	
80) p-Bromofluorobenzene	15.33	95	361298	49.0915	ug/L	0.00
Spiked Amount	25.000	Range 86 - 115	Recovery	=	196.36%#	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	3.05	85	613942	99.9640	ug/L	99
3) Chloromethane	3.48	50	1077547	102.1595	ug/L	99
4) Vinyl Chloride	3.69	62	826689	104.6089	ug/L	99
5) 1,3-Butadiene	3.73	54	277444	52.5243	ug/L	97
6) Bromomethane	4.55	94	356356	105.3555	ug/L	100
7) Chloroethane	4.70	64	363245	99.9385	ug/L	98
8) Trichlorofluoromethane	5.18	101	1065466	103.8232	ug/L	99
9) Diethyl ether	5.71	59	777466	214.6189	ug/L	100
10) Isoprene	5.74	67	876027	109.7165	ug/L	100
11) Acrolein	5.94	56	50907	202.3274	ug/L	97
12) 1,1,2-Trichloro-1,2,2-Trif	5.95	101	563837	105.9609	ug/L	99
13) Acetone	6.04	43	84705	97.0603	ug/L	98
14) 1,1-Dichloroethene	6.25	61	751332	103.9931	ug/L	100
15) Tert-Butyl Alcohol	6.38	59	104800	436.6518	ug/L	100
16) Dimethyl Sulfide	6.50	62	604358	102.1341	ug/L	99
17) Iodomethane	6.74	142	731406	99.1627	ug/L	100
18) Methyl acetate	6.76	43	305888	99.5039	ug/L	98
19) Methylene Chloride	7.00	84	511922	99.6953	ug/L	100
20) Carbon Disulfide	7.04	76	1519962	103.1961	ug/L	99
21) Acrylonitrile	7.19	53	112614	107.3822	ug/L	99
22) Methyl Tert Butyl Ether	7.22	73	1213756	101.1733	ug/L	100
23) trans-1,2-Dichloroethene	7.44	96	542125	105.0986	ug/L	100
24) n-Hexane	7.52	57	541585	103.9220	ug/L	99
25) Diisopropyl ether	7.86	45	3186065	210.8870	ug/L	99
26) Vinyl Acetate	8.01	43	313224	100.4704	ug/L	98
27) 1,1-Dichloroethane	8.03	63	899413	104.0508	ug/L	100
28) Ethyl-Tert-Butyl ether	8.40	59	3115064	211.1621	ug/L	100
29) 2-Butanone	8.57	43	121004	98.7956	ug/L	96
30) Propionitrile	8.68	54	75544	208.9997	ug/L	99
31) 2,2-Dichloropropane	8.78	77	762450	109.1300	ug/L	99
32) cis-1,2-Dichloroethene	8.84	96	584814	104.6221	ug/L	99
33) Chloroform	9.04	83	933051	102.0999	ug/L	99
34) 1-Bromopropane	9.17	122	112899	108.0010	ug/L	99
35) Bromochloromethane	9.26	130	376559	106.0407	ug/L	99
36) Tetrahydrofuran	9.29	42	165046	207.6227	ug/L	97
38) 1,1,1-Trichloroethane	9.54	97	925852	107.9956	ug/L	99
39) Cyclohexane	9.57	56	731391	105.8897	ug/L	100
40) 1,1-Dichloropropene	9.73	75	722828	106.0328	ug/L	100
41) Carbon Tetrachloride	9.86	117	934580	102.1537	ug/L	100
42) Tert-Amyl-Methyl ether	9.83	73	2891406	214.3782	ug/L	99

(#) = qualifier out of range (m) = manual integration
 11M83337.D 8260WTR.M Fri May 04 08:37:21 2012

Data File : C:\MSDCHEM\1\DATA\050312\11M83337.D Vial: 9
 Acq On : 3 May 2012 20:35 Operator: ADC
 Sample : WG396851-09 100ug/L STD 8260 Inst : HPMS11
 Misc : 1,1 STD51468 Multiplr: 1.00
 MS Integration Params: rteint.p
 Quant Time: May 04 08:37:20 2012 Quant Results File: 8260WTR.RES

Quant Method : C:\MSDCHEM\1\METHODS\8260WTR.M (RTE Integrator)
 Title : 8260B/624 (SOP: OVL MSV01) Water 05/03/12 HPMS11
 Last Update : Fri May 04 08:32:33 2012
 Response via : Initial Calibration
 DataAcq Meth : 8260WTR

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
45) 1,2-Dichloroethane	10.03	62	668513	104.0491	ug/L	99
46) Benzene	10.07	78	2075430	104.2082	ug/L	100
47) Trichloroethene	10.78	130	647324	99.1324	ug/L	100
48) Methylcyclohexane	10.87	83	729508	106.7111	ug/L	99
49) 1,2-Dichloropropane	10.98	63	473243	103.2189	ug/L	98
50) 1,4-Dioxane	11.26	88	15350	470.8970	ug/L	97
51) Bromodichloromethane	11.27	83	695861	110.8843	ug/L	100
52) Dibromomethane	11.34	93	299567	97.4334	ug/L	98
53) 2-Chloroethyl Vinyl Ether	11.55	63	209350	107.0428	ug/L	98
54) 4-Methyl-2-Pentanone	11.58	58	110758	103.4019	ug/L	99
55) cis-1,3-Dichloropropene	11.87	75	796754	110.2201	ug/L	100
56) Dimethyl Disulfide	12.11	79	486425	102.2347	ug/L	99
59) Toluene	12.26	91	2422169	106.2143	ug/L	100
60) Ethyl Methacrylate	12.35	69	475262	98.1546	ug/L	99
61) Paraldehyde	12.38	89	13471	215.6210	ug/L	78
62) trans-1,3-Dichloropropene	12.43	75	729910	119.3800	ug/L	100
63) 1,1,2-Trichloroethane	12.62	97	389691	103.4551	ug/L	99
64) 2-Hexanone	12.57	43	193975	101.8406	ug/L	98
65) 1,3-Dichloropropane	12.91	76	653083	103.2174	ug/L	98
66) Tetrachloroethene	13.03	164	504216	107.9176	ug/L	99
67) Dibromochloromethane	13.28	129	572790	101.6235	ug/L	99
68) 1,2-Dibromoethane	13.51	107	406578	104.2317	ug/L	100
69) 1-Chlorohexane	13.60	91	722083	110.4447	ug/L	99
70) Chlorobenzene	13.99	112	1804231	118.8567	ug/L	99
71) 1,1,1,2-Tetrachloroethane	14.01	131	725623	100.8952	ug/L	99
72) Ethylbenzene	14.01	106	1030673	125.1190	ug/L	97
73) m-,p-Xylene	14.09	106	2522393	247.9707	ug/L	98
74) o-Xylene	14.62	106	1097950	110.8031	ug/L	100
75) Styrene	14.65	104	1954186	123.9453	ug/L	99
76) Bromoform	15.11	173	350632	99.2511	ug/L	99
77) Isopropylbenzene	15.01	105	2766231	118.5770	ug/L	100
79) 1,1,2,2-Tetrachloroethane	15.21	83	417762	105.4012	ug/L	99
81) 1,2,3-Trichloropropane	15.39	110	121811	101.5382	ug/L	75
82) trans-1,4-Dichloro-2-Butene	15.43	53	113682	98.2283	ug/L #	23
83) n-Propylbenzene	15.48	91	3065069	105.7981	ug/L	100
84) Bromobenzene	15.60	156	721041	104.1791	ug/L	98
85) 1,3,5-Trimethylbenzene	15.65	105	2316045	107.6480	ug/L	99
86) 2-Chlorotoluene	15.74	91	2048817	105.1551	ug/L	99
87) 4-Chlorotoluene	15.78	91	1819984	106.7385	ug/L	99
88) a-Methylstyrene	16.03	118	1397503	116.6326	ug/L	100
89) tert-Butylbenzene	16.09	134	510886	109.1084	ug/L	99
90) 1,2,4-Trimethylbenzene	16.13	105	2554897	114.1377	ug/L	99
91) sec-Butylbenzene	16.34	105	2734986	108.8712	ug/L	99
92) p-Isopropyltoluene	16.48	119	2428890	112.6824	ug/L	100
93) 1,3-Dichlorobenzene	16.67	146	1444483	106.4124	ug/L	100
94) 1,4-Dichlorobenzene	16.78	146	1463808	105.9421	ug/L	99
95) n-Butylbenzene	16.97	91	1963774	119.6005	ug/L	100
96) 1,2-Dichlorobenzene	17.25	146	1319263	107.2329	ug/L	100
97) 1,2-Dibromo-3-Chloropropane	18.16	75	73001	102.0549	ug/L	95
98) 1,2,4-Trichlorobenzene	19.22	180	859132	123.4799	ug/L	100
99) Hexachlorobutadiene	19.36	225	269332	97.3363	ug/L	99
100) Naphthalene	19.56	128	1680267	103.9854	ug/L	99
101) 1,2,3-Trichlorobenzene	19.85	180	759572	116.8207	ug/L	99

(#) = qualifier out of range (m) = manual integration
 11M83337.D 8260WTR.M Fri May 04 08:37:21 2012

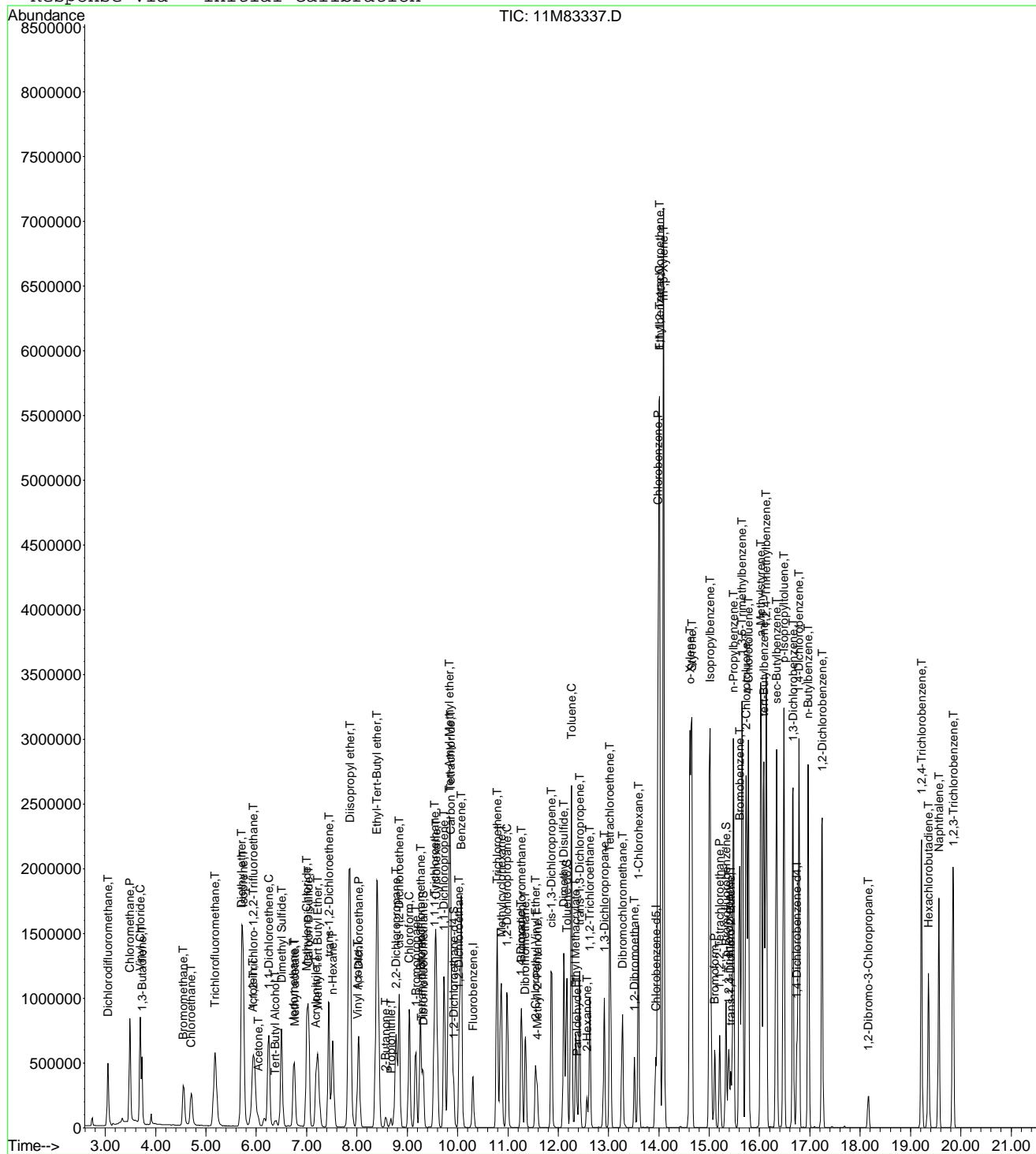
Page 2

Data File : C:\MSDCHEM\1\DATA\050312\11M83337.D
Acq On : 3 May 2012 20:35
Sample : WG396851-09 100ug/L STD 8260
Misc : 1,1 STD51468
MS Integration Params: rteint.p
Quant Time: May 4 8:37 2012

Vial: 9
Operator: ADC
Inst : HPMS11
Multiplr: 1.00

Quant Results File: 8260WTR.RES

Method : C:\MSDCHEM\1\METHODS\8260WTR.M (RTE Integrator)
Title : 8260B/624 (SOP: OVL MSV01) Water 05/03/12 HPMS11
Last Update : Fri May 04 08:32:33 2012
Response via : Initial Calibration



Data File : C:\MSDCHEM\1\DATA\050312\11M83338.D Vial: 10
 Acq On : 3 May 2012 21:06 Operator: ADC
 Sample : WG396851-10 200ug/L STD 8260 Inst : HPMS11
 Misc : 1,1 STD51468 Multiplr: 1.00
 MS Integration Params: rteint.p
 Quant Time: May 04 08:37:22 2012 Quant Results File: 8260WTR.RES

Quant Method : C:\MSDCHEM\1\METHODS\8260WTR.M (RTE Integrator)
 Title : 8260B/624 (SOP: OVL MSV01) Water 05/03/12 HPMS11
 Last Update : Fri May 04 08:32:33 2012
 Response via : Initial Calibration
 DataAcq Meth : 8260WTR

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene	10.31	96	507738	25.00	ug/L	0.00
57) Chlorobenzene-d5	13.94	117	407952	25.00	ug/L	0.00
78) 1,4-Dichlorobenzene-d4	16.75	152	240834	25.00	ug/L	0.01

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
37) Dibromofluoromethane	9.32	111	636806	102.9244	ug/L	0.00
Spiked Amount	25.000	Range 86 - 118	Recovery	=	411.68%#	
43) 1,2-Dichloroethane-d4	9.93	65	593828	100.3012	ug/L	0.01
Spiked Amount	25.000	Range 80 - 120	Recovery	=	401.20%#	
58) Toluene-d8	12.17	98	2241381	104.1608	ug/L	0.00
Spiked Amount	25.000	Range 88 - 110	Recovery	=	416.64%#	
80) p-Bromofluorobenzene	15.33	95	818664	102.8417	ug/L	0.00
Spiked Amount	25.000	Range 86 - 115	Recovery	=	411.36%#	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	3.05	85	1294453	197.5723	ug/L	100
3) Chloromethane	3.50	50	2239815	199.0574	ug/L	99
4) Vinyl Chloride	3.69	62	1615332	Below Cal		99
5) 1,3-Butadiene	3.73	54	558404	99.0961	ug/L	98
6) Bromomethane	4.55	94	745022	206.4741	ug/L	100
7) Chloroethane	4.70	64	806049	207.8826	ug/L	99
8) Trichlorofluoromethane	5.17	101	2395450	218.8091	ug/L	100
9) Diethyl ether	5.72	59	11977	3.0993	ug/L	# 49
10) Isoprene	5.73	67	1909743	224.2088	ug/L	100
11) Acrolein	5.94	56	114195	425.4492	ug/L	98
12) 1,1,2-Trichloro-1,2,2-Trif	5.95	101	1274910	224.5923	ug/L	99
13) Acetone	6.05	43	195342	210.8152	ug/L	99
14) 1,1-Dichloroethene	6.25	61	1724593	223.7601	ug/L	100
15) Tert-Butyl Alcohol	6.41	59	2252	8.7956	ug/L	# 72
16) Dimethyl Sulfide	6.50	62	1427360	226.1172	ug/L	100
17) Iodomethane	6.74	142	1545241	196.0456	ug/L	99
18) Methyl acetate	6.77	43	703874	214.6329	ug/L	97
19) Methylene Chloride	7.00	84	1192308	217.6621	ug/L	98
20) Carbon Disulfide	7.03	76	3629186	230.9741	ug/L	100
21) Acrylonitrile	7.19	53	255978	228.8053	ug/L	99
22) Methyl Tert Butyl Ether	7.22	73	2744145	214.4198	ug/L	100
23) trans-1,2-Dichloroethene	7.43	96	1260397	229.0489	ug/L	99
24) n-Hexane	7.52	57	1231696	221.5480	ug/L	99
25) Diisopropyl ether	7.88	45	3184	0.1976	ug/L	# 67
26) Vinyl Acetate	8.01	43	640489	190.2072	ug/L	99
27) 1,1-Dichloroethane	8.03	63	2056553	223.0229	ug/L	100
28) Ethyl-Tert-Butyl ether	8.42	59	4179	0.2655	ug/L	81
29) 2-Butanone	8.58	43	253505	194.0206	ug/L	98
31) 2,2-Dichloropropane	8.78	77	1715139	230.1207	ug/L	100
32) cis-1,2-Dichloroethene	8.84	96	1336710	224.1642	ug/L	98
33) Chloroform	9.04	83	2126281	218.1042	ug/L	99
34) 1-Bromopropane	9.17	122	250779	224.8807	ug/L	100
35) Bromochloromethane	9.26	130	849150	224.1545	ug/L	99
36) Tetrahydrofuran	9.31	42	1677	1.9775	ug/L	# 64
38) 1,1,1-Trichloroethane	9.54	97	2179319	238.2917	ug/L	98
39) Cyclohexane	9.57	56	1703984	231.2561	ug/L	100
40) 1,1-Dichloropropene	9.73	75	1658024	227.9920	ug/L	100
41) Carbon Tetrachloride	9.87	117	1988503	203.4255	ug/L	100
42) Tert-Amyl-Methyl ether	9.84	73	6016	0.4181	ug/L	# 99
45) 1,2-Dichloroethane	10.04	62	1535255	223.9920	ug/L	98

(#) = qualifier out of range (m) = manual integration
 11M83338.D 8260WTR.M Fri May 04 08:37:23 2012

Data File : C:\MSDCHEM\1\DATA\050312\11M83338.D Vial: 10
 Acq On : 3 May 2012 21:06 Operator: ADC
 Sample : WG396851-10 200ug/L STD 8260 Inst : HPMS11
 Misc : 1,1 STD51468 Multiplr: 1.00
 MS Integration Params: rteint.p
 Quant Time: May 04 08:37:22 2012 Quant Results File: 8260WTR.RES

Quant Method : C:\MSDCHEM\1\METHODS\8260WTR.M (RTE Integrator)
 Title : 8260B/624 (SOP: OVL MSV01) Water 05/03/12 HPMS11
 Last Update : Fri May 04 08:32:33 2012
 Response via : Initial Calibration
 DataAcq Meth : 8260WTR

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
46) Benzene	10.07	78	4840631	227.8343	ug/L	100
47) Trichloroethene	10.78	130	1509290	216.6657	ug/L	100
48) Methylcyclohexane	10.87	83	1638455	224.6661	ug/L	99
49) 1,2-Dichloropropane	10.98	63	1084498	221.7315	ug/L	99
50) 1,4-Dioxane	11.27	88	2254	64.8179	ug/L #	24
51) Bromodichloromethane	11.27	83	1586759	237.0184	ug/L	100
52) Dibromomethane	11.35	93	672467	204.7754	ug/L	98
53) 2-Chloroethyl Vinyl Ether	11.55	63	469127	224.8529	ug/L	98
54) 4-Methyl-2-Pentanone	11.58	58	234017	204.7973	ug/L	98
55) cis-1,3-Dichloropropene	11.87	75	1842994	238.9923	ug/L	99
56) Dimethyl Disulfide	12.11	79	1202862	199.0474	ug/L	98
59) Toluene	12.26	91	5731359	233.5759	ug/L	98
60) Ethyl Methacrylate	12.36	69	1080185	206.6852	ug/L	98
62) trans-1,3-Dichloropropene	12.43	75	1693760	257.4577	ug/L	100
63) 1,1,2-Trichloroethane	12.62	97	874491	215.7638	ug/L	100
64) 2-Hexanone	12.57	43	408677	199.4100	ug/L	94
65) 1,3-Dichloropropane	12.91	76	1460267	214.4907	ug/L	99
66) Tetrachloroethene	13.03	164	1197844	238.2691	ug/L	99
67) Dibromochloromethane	13.28	129	1318531	199.2592	ug/L	99
68) 1,2-Dibromoethane	13.51	107	907115	216.1275	ug/L	99
69) 1-Chlorohexane	13.60	91	1705774	242.4773	ug/L	99
70) Chlorobenzene	13.99	112	4591336	281.1010	ug/L	100
71) 1,1,1,2-Tetrachloroethane	14.01	131	1933357	199.6362	ug/L	99
72) Ethylbenzene	14.01	106	2748752	310.1200	ug/L	88
73) m-,p-Xylene	14.09	106	6483932	592.4036	ug/L	80
74) o-Xylene	14.62	106	2786078	261.3089	ug/L	97
75) Styrene	14.65	104	4922555	290.1660	ug/L	99
76) Bromoform	15.11	173	802717	178.7971	ug/L	98
77) Isopropylbenzene	15.01	105	6709825	267.3098	ug/L	98
79) 1,1,2,2-Tetrachloroethane	15.21	83	907844	211.7631	ug/L	99
81) 1,2,3-Trichloropropane	15.39	110	263765	203.2743	ug/L	75
82) trans-1,4-Dichloro-2-Buten	15.43	53	261366	207.0344	ug/L #	17
83) n-Propylbenzene	15.48	91	7097016	226.4831	ug/L	97
84) Bromobenzene	15.60	156	1699059	226.9611	ug/L	99
85) 1,3,5-Trimethylbenzene	15.65	105	5581330	239.8387	ug/L	100
86) 2-Chlorotoluene	15.74	91	4828379	229.1136	ug/L	100
87) 4-Chlorotoluene	15.78	91	4540425	246.1911	ug/L	100
88) a-Methylstyrene	16.03	118	3566392	275.1812	ug/L	99
89) tert-Butylbenzene	16.09	134	1253642	247.5312	ug/L	99
90) 1,2,4-Trimethylbenzene	16.14	105	6121138	252.8194	ug/L	98
91) sec-Butylbenzene	16.34	105	6509371	239.5628	ug/L	98
92) p-Isopropyltoluene	16.48	119	5894422	252.8203	ug/L	99
93) 1,3-Dichlorobenzene	16.67	146	3525117	240.0910	ug/L	99
94) 1,4-Dichlorobenzene	16.78	146	3582936	239.7431	ug/L	100
95) n-Butylbenzene	16.97	91	4723299	265.9557	ug/L	100
96) 1,2-Dichlorobenzene	17.25	146	3153089	236.9493	ug/L	99
97) 1,2-Dibromo-3-Chloropropan	18.16	75	159706	205.8620	ug/L	96
98) 1,2,4-Trichlorobenzene	19.22	180	2049376	272.3206	ug/L	99
99) Hexachlorobutadiene	19.36	225	621019	207.2219	ug/L	99
100) Naphthalene	19.56	128	3712076	198.4803	ug/L	99
101) 1,2,3-Trichlorobenzene	19.85	180	1742378	247.7512	ug/L	99

(#) = qualifier out of range (m) = manual integration
 11M83338.D 8260WTR.M Fri May 04 08:37:23 2012

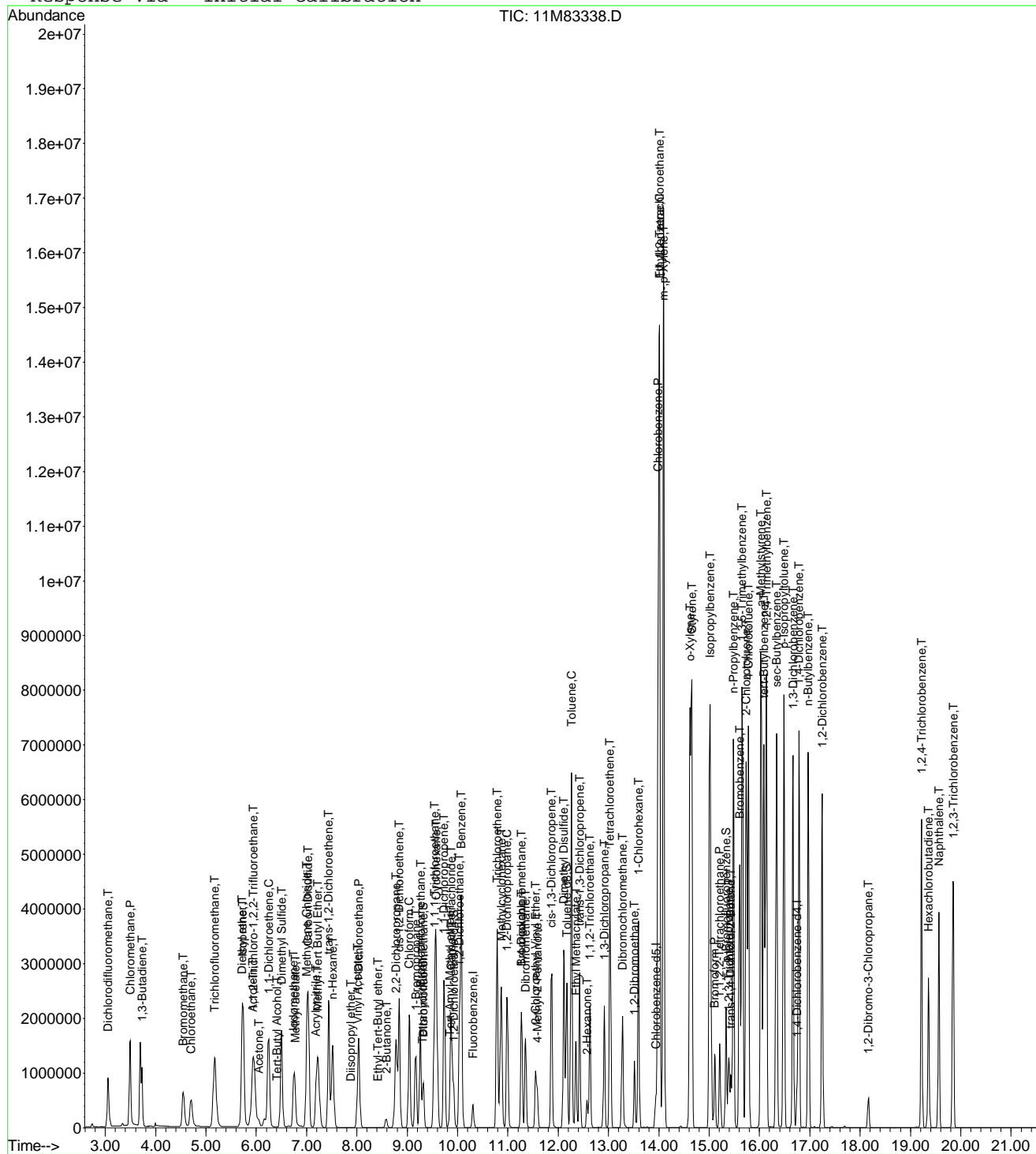
Page 2

Data File : C:\MSDCHEM\1\DATA\050312\11M83338.D
Acq On : 3 May 2012 21:06
Sample : WG396851-10 200ug/L STD 8260
Misc : 1,1 STD51468
MS Integration Params: rteint.p
Quant Time: May 4 8:37 2012

Vial: 10
Operator: ADC
Inst : HPMS11
Multiplr: 1.00

Quant Results File: 8260WTR.RES

Method : C:\MSDCHEM\1\METHODS\8260WTR.M (RTE Integrator)
Title : 8260B/624 (SOP: OVL MSV01) Water 05/03/12 HPMS11
Last Update : Fri May 04 08:32:33 2012
Response via : Initial Calibration



Data File : C:\MSDCHEM\1\DATA\050312\11M83339.D Vial: 11
 Acq On : 3 May 2012 21:37 Operator: ADC
 Sample : WG396851-11 300ug/L STD 8260 Inst : HPMS11
 Misc : 1,1 STD51468 Multiplr: 1.00
 MS Integration Params: rteint.p
 Quant Time: May 04 08:37:23 2012 Quant Results File: 8260WTR.RES

Quant Method : C:\MSDCHEM\1\METHODS\8260WTR.M (RTE Integrator)
 Title : 8260B/624 (SOP: OVL MSV01) Water 05/03/12 HPMS11
 Last Update : Fri May 04 08:32:33 2012
 Response via : Initial Calibration
 DataAcq Meth : 8260WTR

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene	10.31	96	510742	25.00	ug/L	0.00
57) Chlorobenzene-d5	13.94	117	384633	25.00	ug/L	0.00
78) 1,4-Dichlorobenzene-d4	16.75	152	199122	25.00	ug/L	0.01

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
37) Dibromofluoromethane	0.00	111	0	0.0000	ug/L	
Spiked Amount	25.000	Range 86 - 118	Recovery	=	0.00%#	
43) 1,2-Dichloroethane-d4	9.93	65	792	0.1330	ug/L	0.01
Spiked Amount	25.000	Range 80 - 120	Recovery	=	0.52%#	
58) Toluene-d8	12.18	98	1096	0.0540	ug/L	0.01
Spiked Amount	25.000	Range 88 - 110	Recovery	=	0.20%#	
80) p-Bromofluorobenzene	15.33	95	1679	0.2551	ug/L	0.00
Spiked Amount	25.000	Range 86 - 115	Recovery	=	1.04%#	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	3.48	50	22076	1.9504	ug/L	85
4) Vinyl Chloride	3.69	62	1948	0.2528	ug/L #	60
5) 1,3-Butadiene	3.73	54	784122	138.3343	ug/L	97
6) Bromomethane	4.54	94	23963	6.6020	ug/L	99
9) Diethyl ether	5.72	59	1265745	325.6074	ug/L	99
10) Isoprene	5.74	67	1049	0.1224	ug/L	95
11) Acrolein	5.93	56	161361	597.6367	ug/L	96
13) Acetone	6.04	43	268911	288.8197	ug/L	98
15) Tert-Butyl Alcohol	6.40	59	183546	712.6568	ug/L	97
17) Iodomethane	6.74	142	4745	0.9442	ug/L	88
18) Methyl acetate	6.76	43	341640	103.5638	ug/L	99
19) Methylene Chloride	7.01	84	1342	0.2435	ug/L	87
20) Carbon Disulfide	7.04	76	15879	1.0047	ug/L	93
21) Acrylonitrile	7.19	53	325426	289.1704	ug/L	92
22) Methyl Tert Butyl Ether	7.25	73	6173	0.4795	ug/L	88
23) trans-1,2-Dichloroethene	7.43	96	1833	0.3311	ug/L	91
24) n-Hexane	7.52	57	4635	0.8288	ug/L #	77
25) Diisopropyl ether	7.86	45	5419661	334.2942	ug/L	98
26) Vinyl Acetate	8.01	43	1056178	310.1534	ug/L	98
28) Ethyl-Tert-Butyl ether	8.41	59	5348442	337.8609	ug/L	100
29) 2-Butanone	8.57	43	396559	301.7222	ug/L	98
30) Propionitrile	8.67	54	122723	316.3976	ug/L	100
32) cis-1,2-Dichloroethene	8.85	96	898	0.1497	ug/L #	1
34) 1-Bromopropane	9.17	122	390914	348.4820	ug/L	100
35) Bromochloromethane	9.26	130	948	0.2488	ug/L #	63
36) Tetrahydrofuran	9.29	42	259266	303.9324	ug/L	98
39) Cyclohexane	9.57	56	2100	0.2833	ug/L #	90
40) 1,1-Dichloropropene	9.73	75	1388	0.1897	ug/L #	37
42) Tert-Amyl-Methyl ether	9.83	73	4841658	334.5240	ug/L	99
45) 1,2-Dichloroethane	10.03	62	2103	0.3050	ug/L #	74
46) Benzene	10.07	78	3071	0.1437	ug/L	82
47) Trichloroethene	10.78	130	1549	0.2211	ug/L	79
48) Methylcyclohexane	10.87	83	2644	0.3604	ug/L	78
50) 1,4-Dioxane	11.26	88	21410	612.0626	ug/L	94
52) Dibromomethane	11.35	93	1310	0.6227	ug/L	95
53) 2-Chloroethyl Vinyl Ether	11.55	63	739475	352.3462	ug/L	100
54) 4-Methyl-2-Pentanone	11.58	58	365593	318.0627	ug/L	98
55) cis-1,3-Dichloropropene	11.87	75	1775	0.2288	ug/L #	66
56) Dimethyl Disulfide	12.11	79	816	1.0727	ug/L	54
59) Toluene	12.26	91	3406	0.1472	ug/L	97

(#) = qualifier out of range (m) = manual integration
 11M83339.D 8260WTR.M Fri May 04 08:37:24 2012

Data File : C:\MSDCHEM\1\DATA\050312\11M83339.D Vial: 11
 Acq On : 3 May 2012 21:37 Operator: ADC
 Sample : WG396851-11 300ug/L STD 8260 Inst : HPMS11
 Misc : 1,1 STD51468 Multiplr: 1.00
 MS Integration Params: rteint.p
 Quant Time: May 04 08:37:23 2012 Quant Results File: 8260WTR.RES

Quant Method : C:\MSDCHEM\1\METHODS\8260WTR.M (RTE Integrator)
 Title : 8260B/624 (SOP: OVL MSV01) Water 05/03/12 HPMS11
 Last Update : Fri May 04 08:32:33 2012
 Response via : Initial Calibration
 DataAcq Meth : 8260WTR

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
60) Ethyl Methacrylate	12.36	69	2511	1.0901	ug/L #	2
61) Paraldehyde	12.38	89	19030	291.3615	ug/L	15
62) trans-1,3-Dichloropropene	12.43	75	3069	0.4948	ug/L	99
63) 1,1,2-Trichloroethane	12.64	97	1432	0.3747	ug/L	100
64) 2-Hexanone	12.57	43	590330	305.5090	ug/L #	32
65) 1,3-Dichloropropane	12.91	76	2393	0.3728	ug/L	70
66) Tetrachloroethene	13.03	164	853	0.1800	ug/L	85
67) Dibromochloromethane	13.29	129	1617	0.5547	ug/L	97
68) 1,2-Dibromoethane	13.51	107	1821	0.4602	ug/L	74
69) 1-Chlorohexane	13.60	91	1478	0.2228	ug/L	84
70) Chlorobenzene	13.99	112	3122	0.2027	ug/L	86
73) m-,p-Xylene	14.10	106	3136	0.3039	ug/L	96
75) Styrene	14.65	104	4129	0.2581	ug/L	94
76) Bromoform	15.11	173	1373	0.8319	ug/L	74
77) Isopropylbenzene	15.01	105	4540	0.1918	ug/L	92
79) 1,1,2,2-Tetrachloroethane	15.21	83	2338	0.6596	ug/L	85
81) 1,2,3-Trichloropropane	15.40	110	213	0.1985	ug/L #	15
82) trans-1,4-Dichloro-2-Buten	15.43	53	476	2.0151	ug/L #	79
83) n-Propylbenzene	15.49	91	5780	0.2231	ug/L	98
84) Bromobenzene	15.60	156	1846	0.2982	ug/L	94
85) 1,3,5-Trimethylbenzene	15.65	105	3652	0.1898	ug/L	90
86) 2-Chlorotoluene	15.74	91	2629	0.1509	ug/L #	37
87) 4-Chlorotoluene	15.78	91	4411	0.2893	ug/L #	70
88) a-Methylstyrene	16.04	118	2004	0.1870	ug/L	91
90) 1,2,4-Trimethylbenzene	16.14	105	3577	0.1787	ug/L	91
91) sec-Butylbenzene	16.34	105	6008	0.2674	ug/L	93
92) p-Isopropyltoluene	16.48	119	5059	0.2624	ug/L	94
93) 1,3-Dichlorobenzene	16.67	146	4747	0.3910	ug/L	93
94) 1,4-Dichlorobenzene	16.79	146	5312	0.4299	ug/L #	16
95) n-Butylbenzene	16.97	91	7067	0.4813	ug/L #	87
96) 1,2-Dichlorobenzene	17.25	146	4182	0.3801	ug/L	98
97) 1,2-Dibromo-3-Chloropropan	18.17	75	471	1.2765	ug/L	77
98) 1,2,4-Trichlorobenzene	19.22	180	7966	1.2803	ug/L	97
99) Hexachlorobutadiene	19.36	225	5649	2.5212	ug/L	97
100) Naphthalene	19.56	128	20915	1.8038	ug/L #	98
101) 1,2,3-Trichlorobenzene	19.85	180	10057	1.7296	ug/L	91

(#) = qualifier out of range (m) = manual integration
 11M83339.D 8260WTR.M Fri May 04 08:37:24 2012

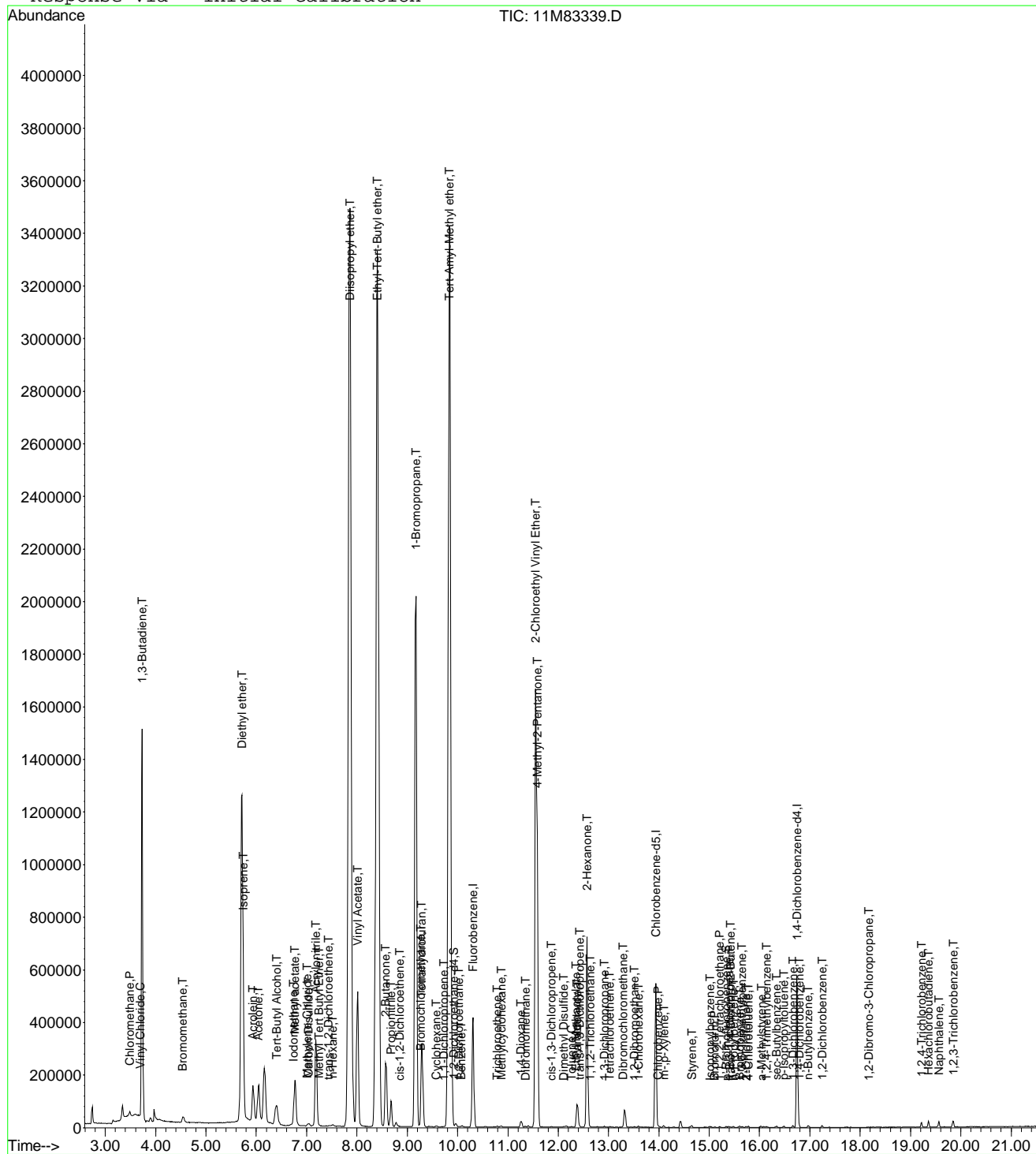
Page 2

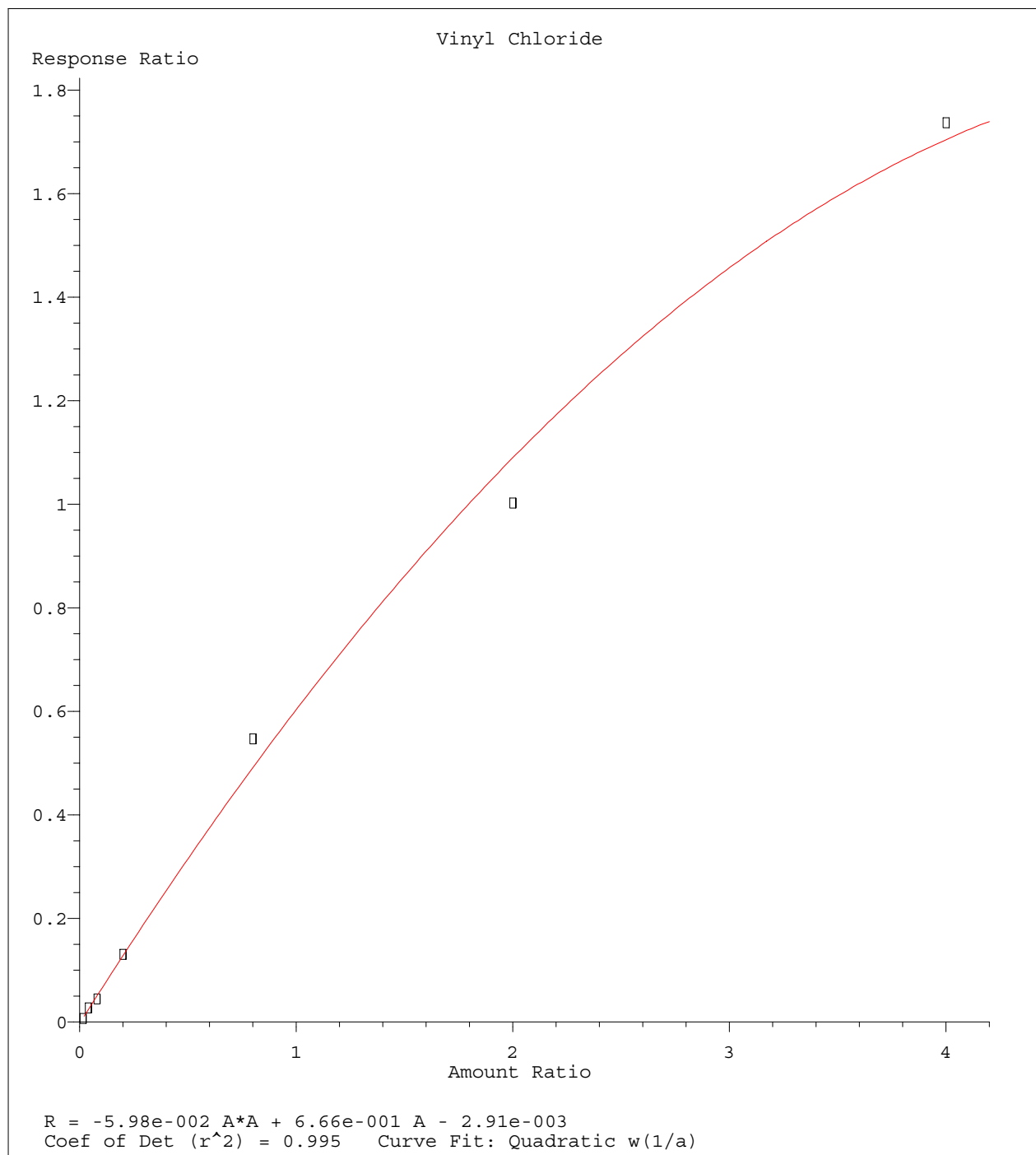
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Acq On : 3 May 2012 21:37
Sample : WG396851-11 300ug/L STD 8260
Misc : 1,1 STD51468
MS Integration Params: rteint.p
Quant Time: May 4 8:37 2012

Vial: 11
Operator: ADC
Inst : HPMS11
Multiplr: 1.00

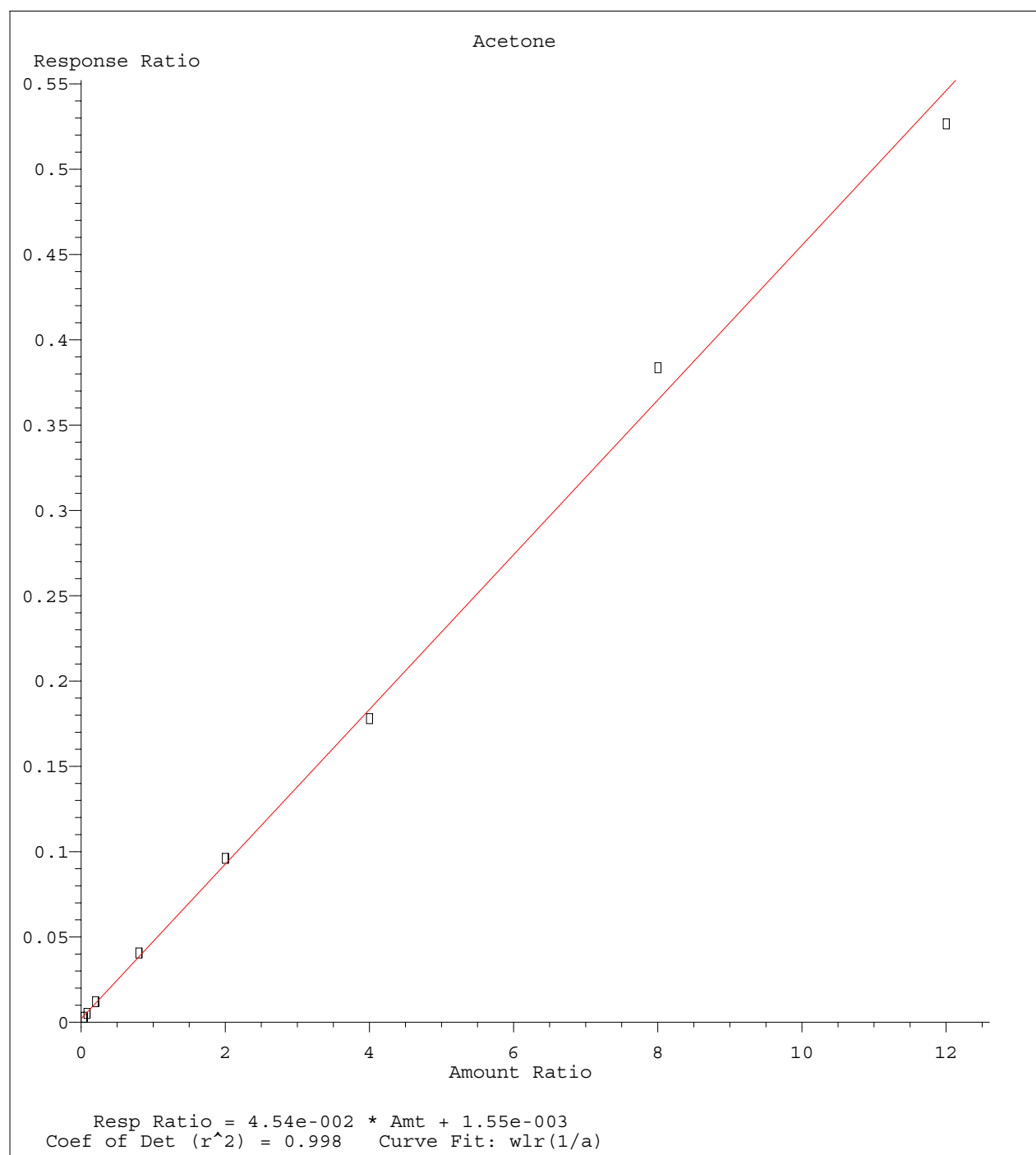
Quant Results File: 8260WTR.RES

Method : C:\MSDCHEM\1\METHODS\8260WTR.M (RTE Integrator)
Title : 8260B/624 (SOP: OVL MSV01) Water 05/03/12 HPMS11
Last Update : Fri May 04 08:32:33 2012
Response via : Initial Calibration

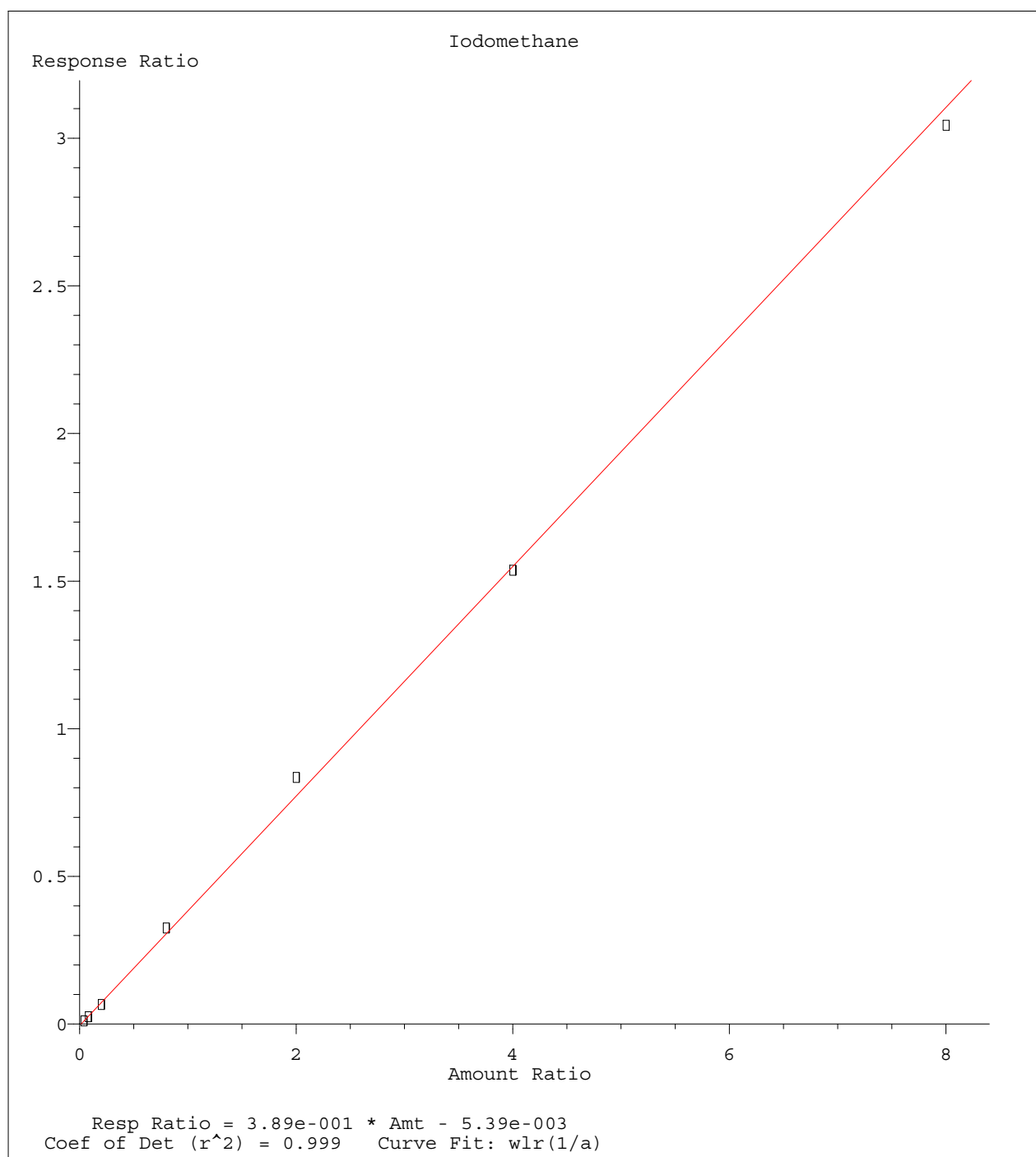




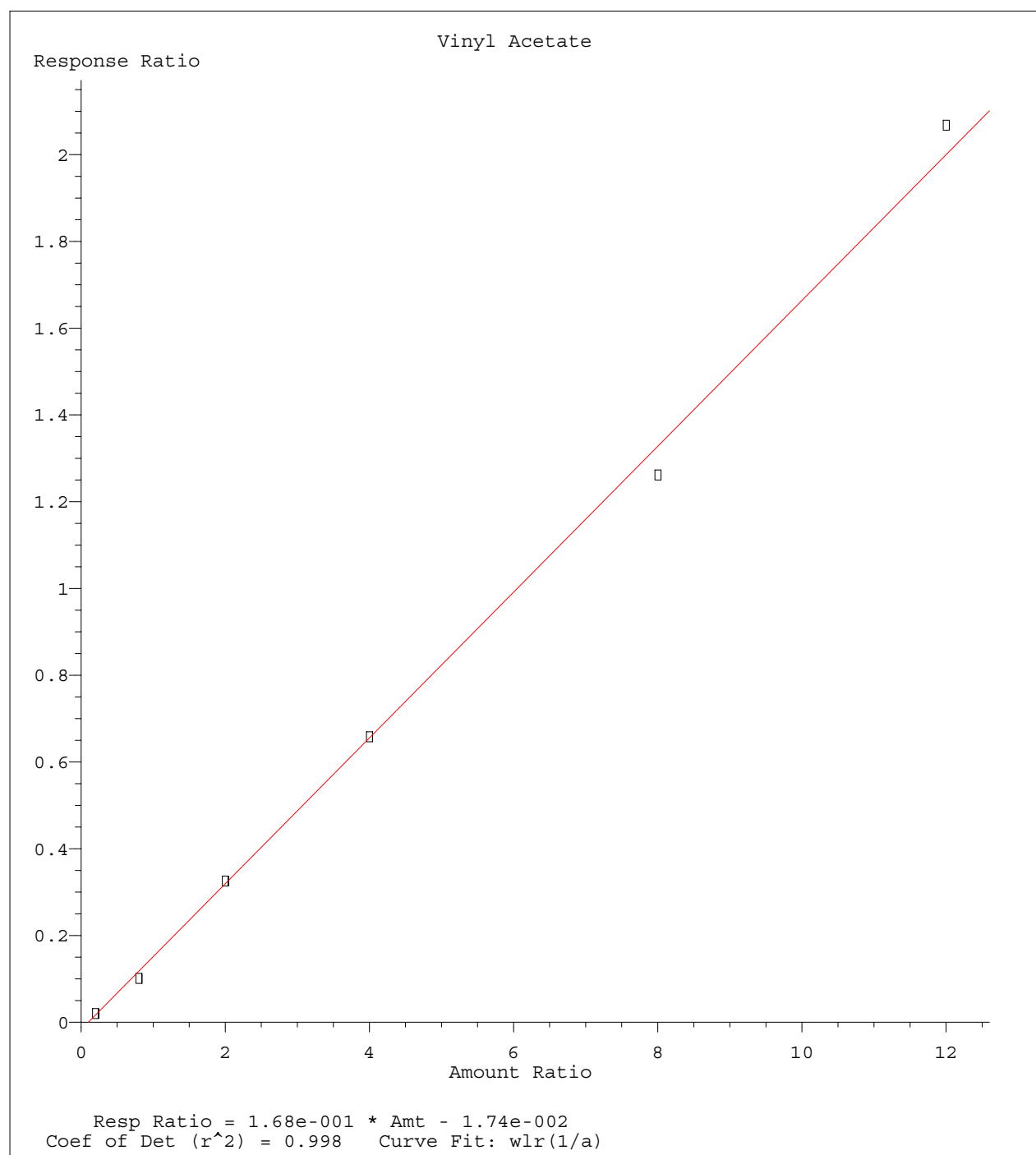
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Calibration Table Last Updated: Fri May 04 08:32:33 2012



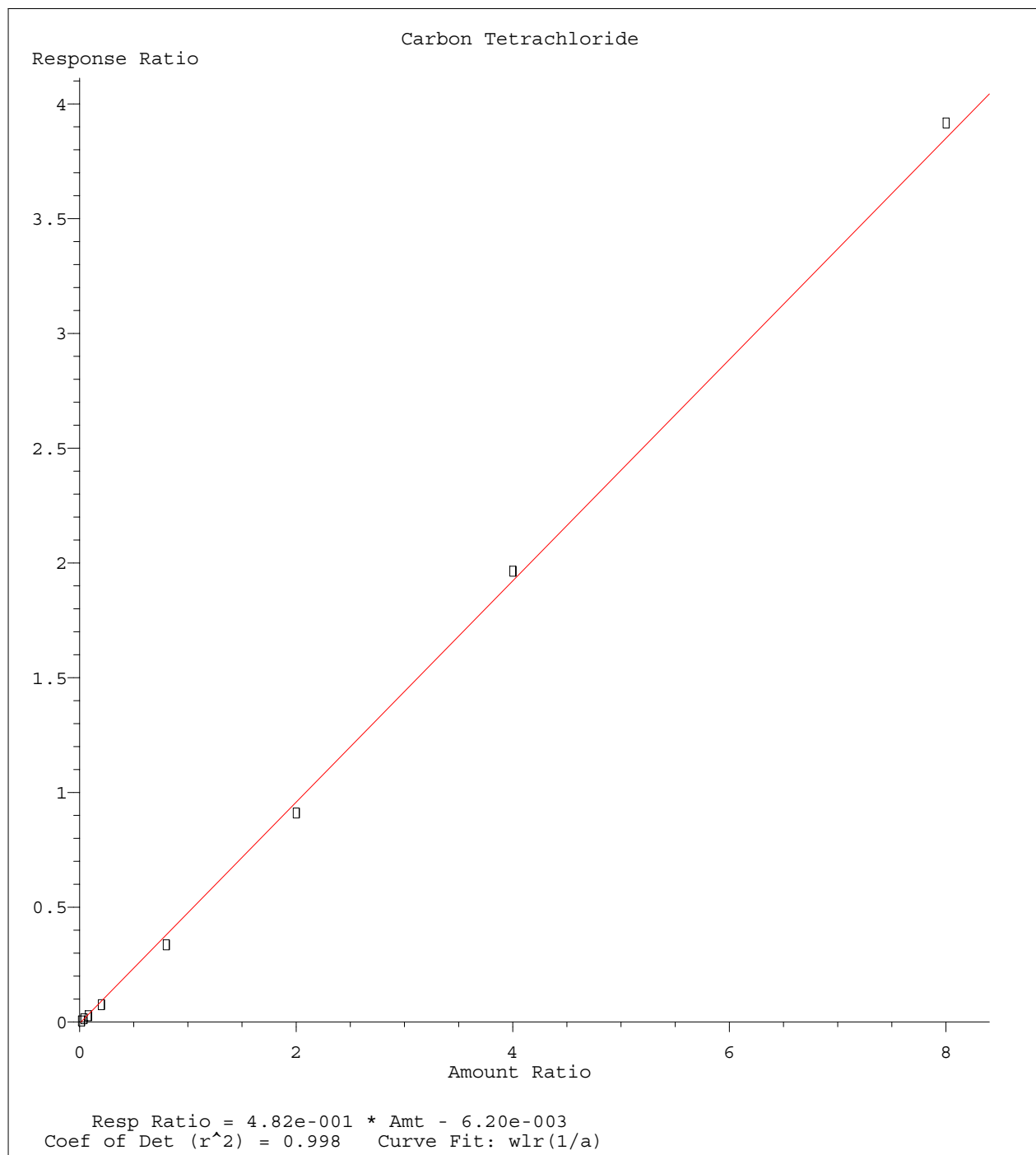
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Calibration Table Last Updated: Fri May 04 08:32:33 2012



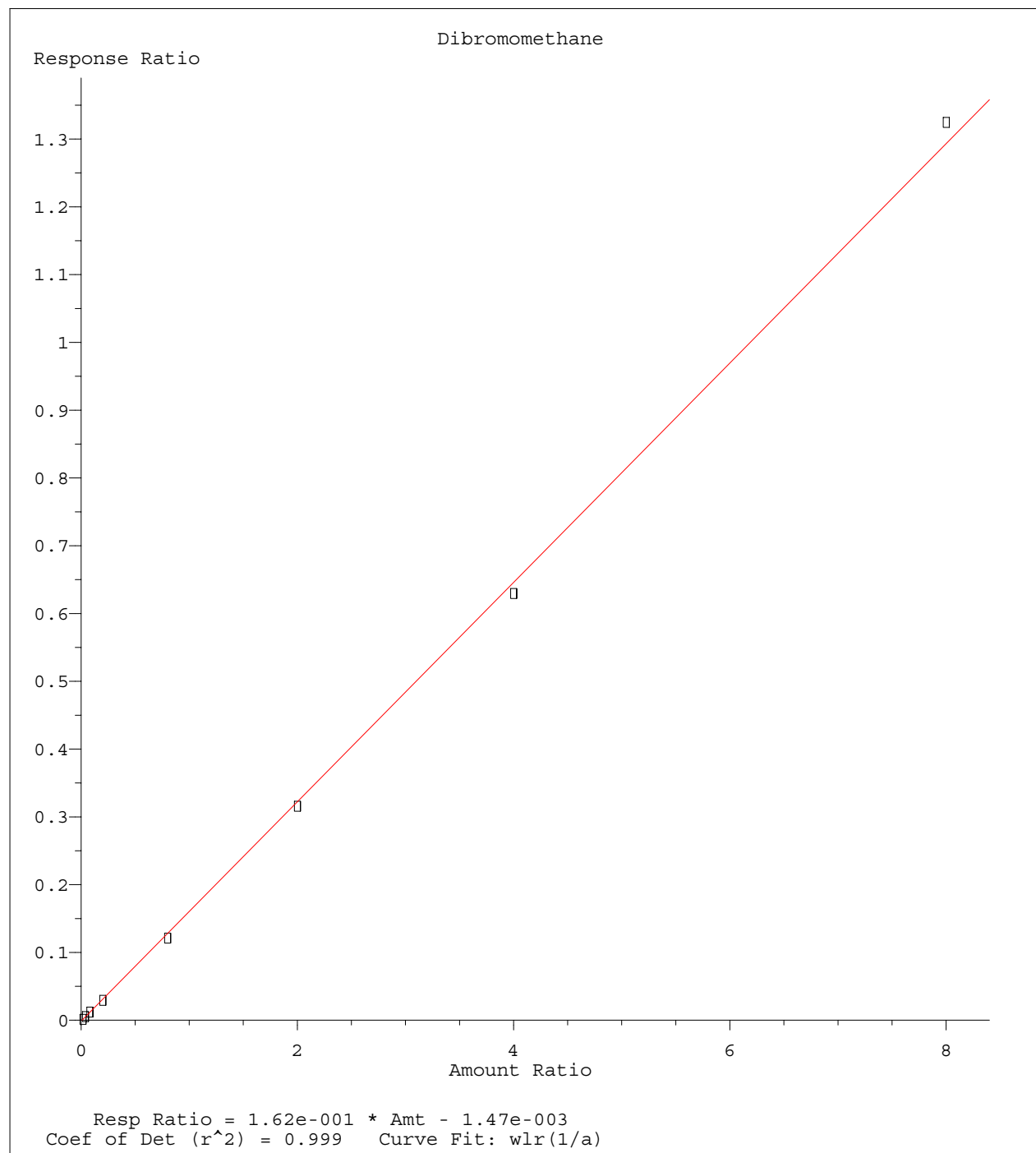
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Calibration Table Last Updated: Fri May 04 08:32:33 2012



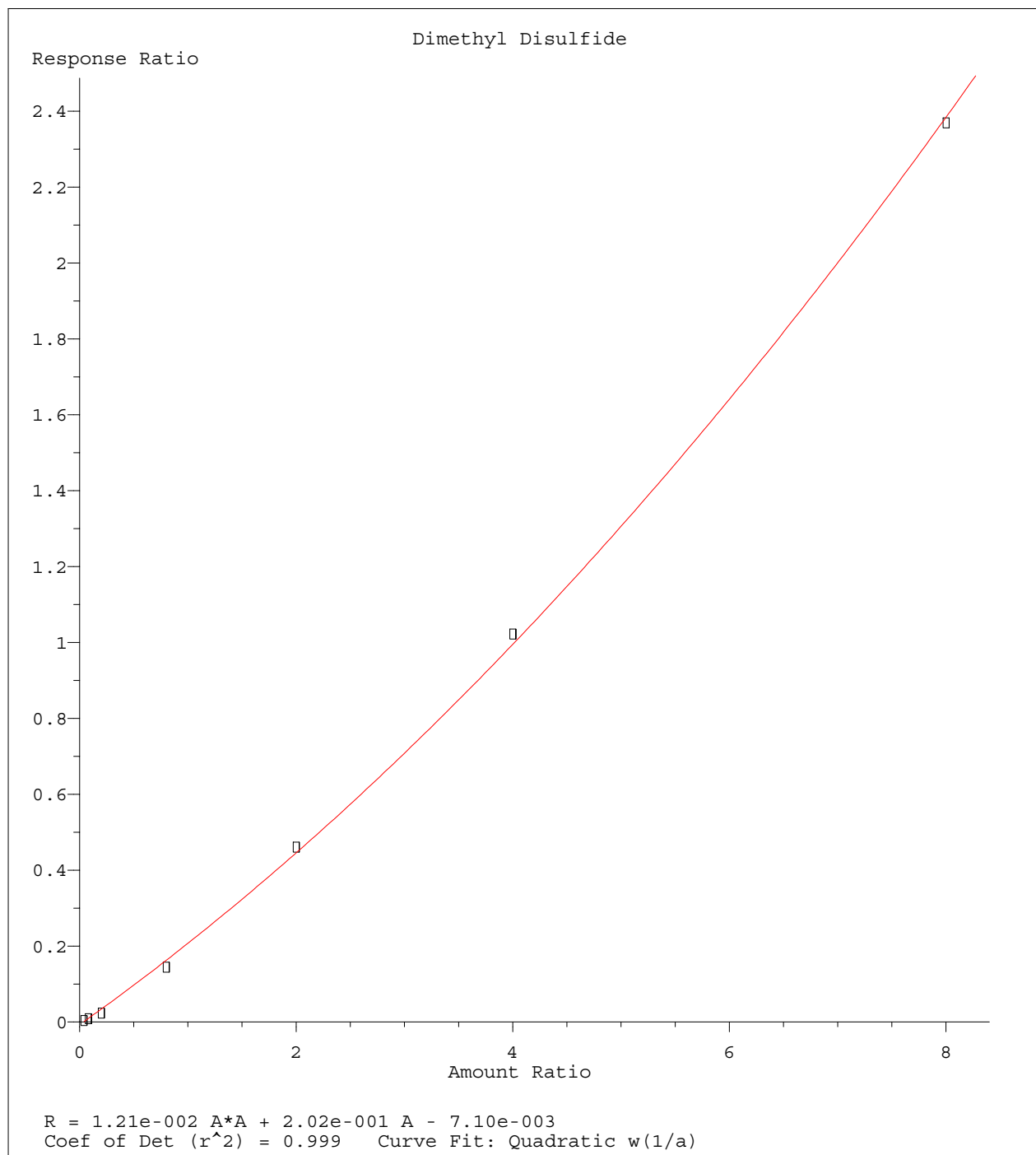
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Calibration Table Last Updated: Fri May 04 08:32:33 2012



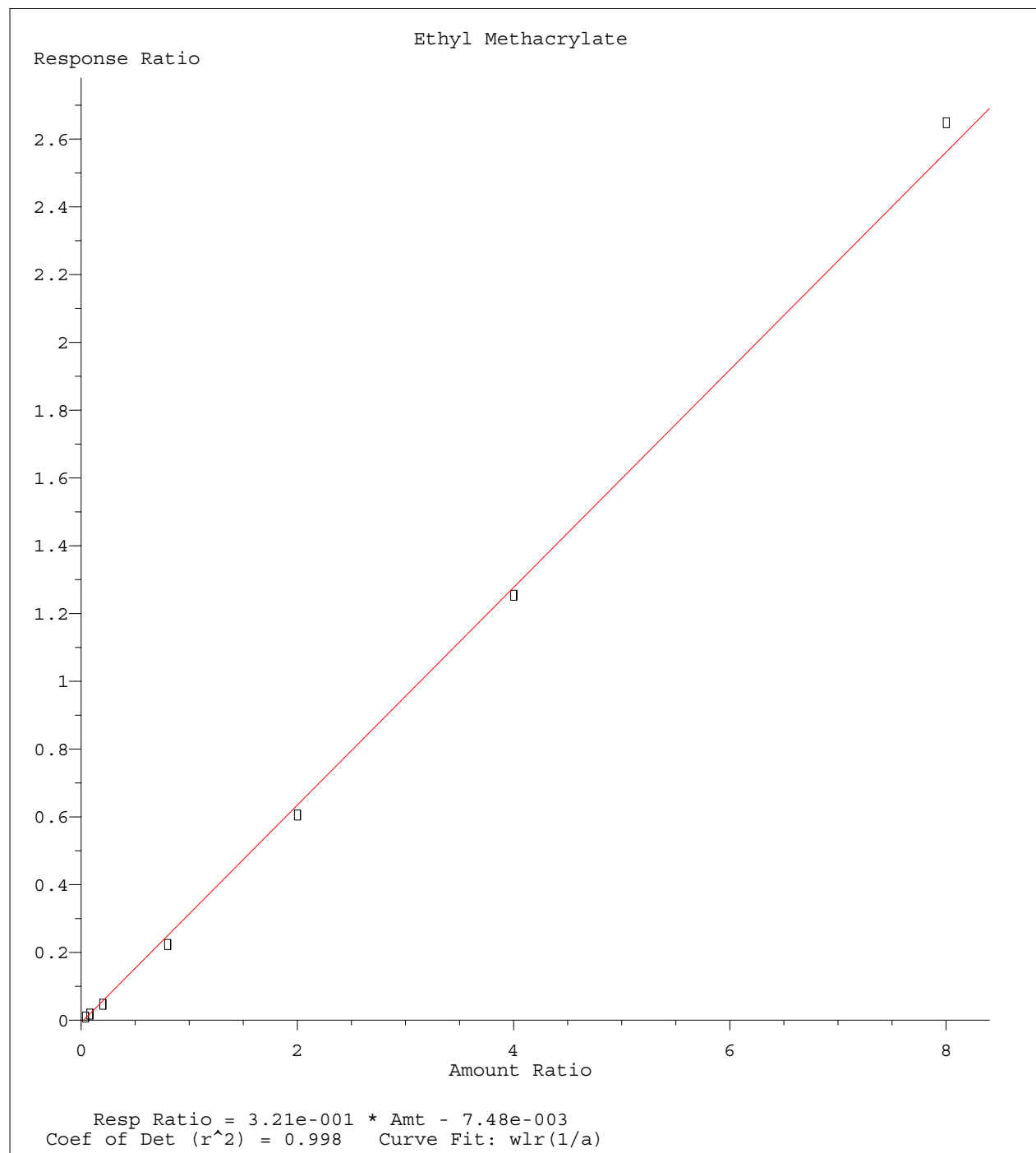
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Calibration Table Last Updated: Fri May 04 08:32:33 2012



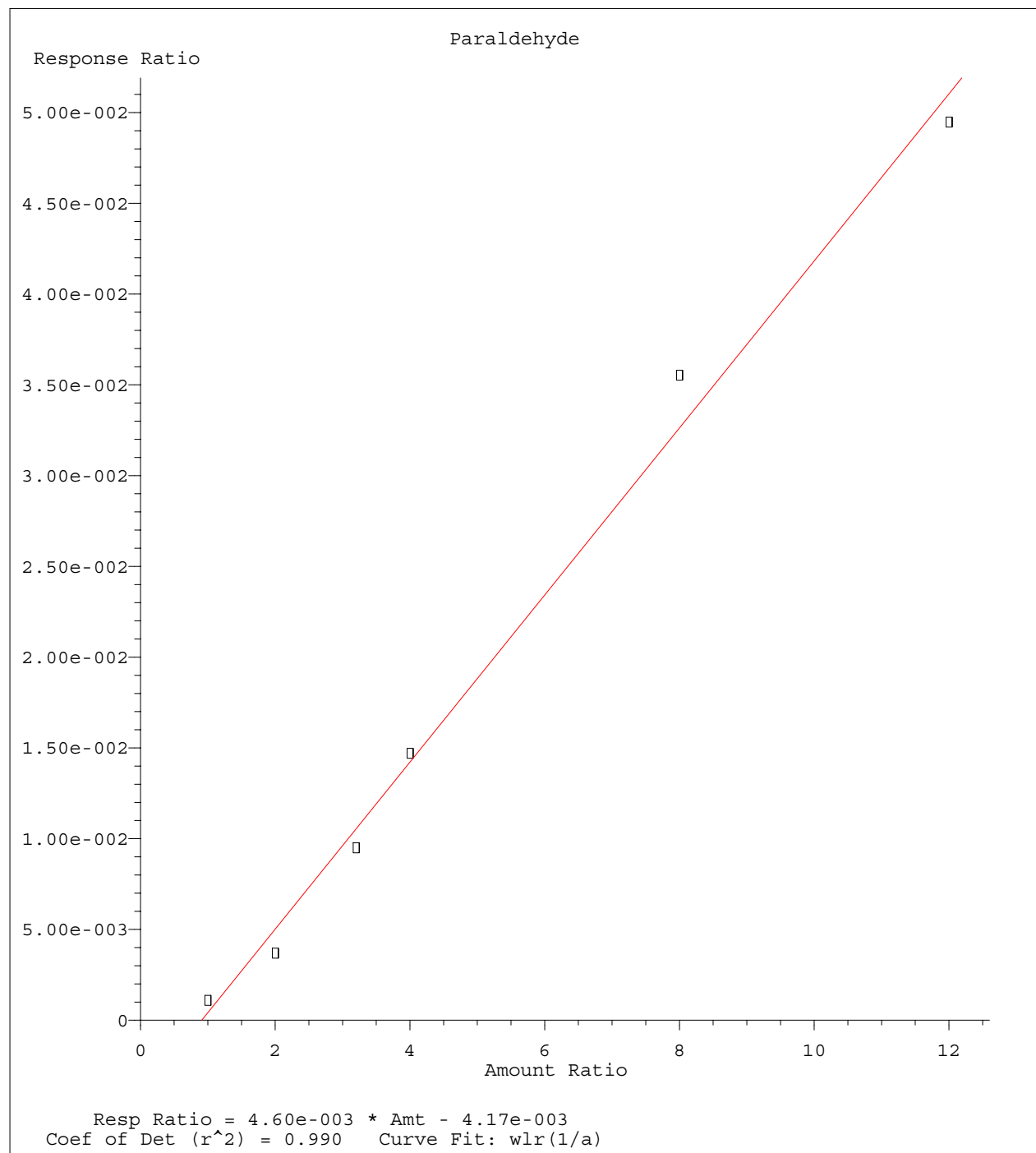
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Calibration Table Last Updated: Fri May 04 08:32:33 2012



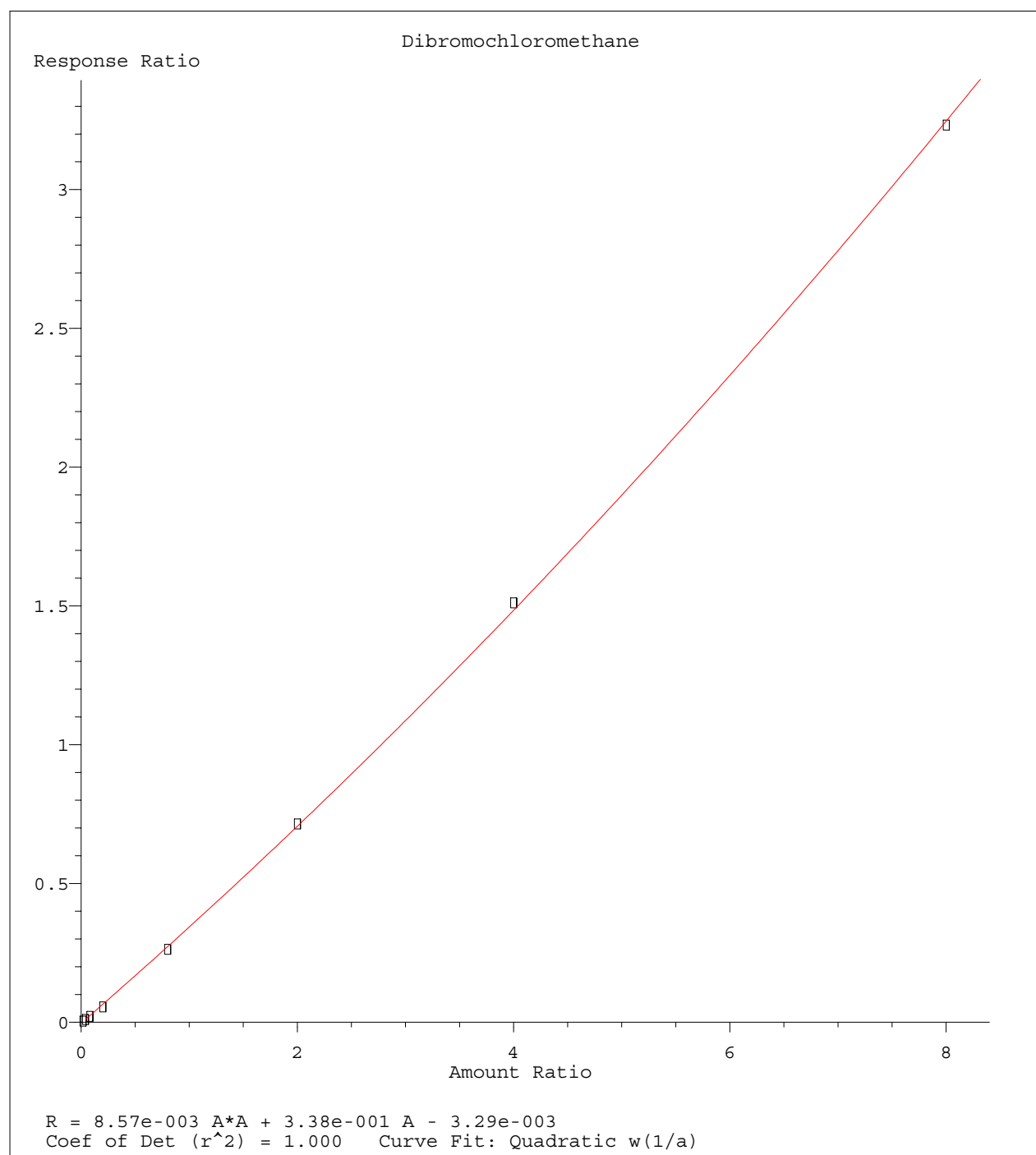
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Calibration Table Last Updated: Fri May 04 08:32:33 2012



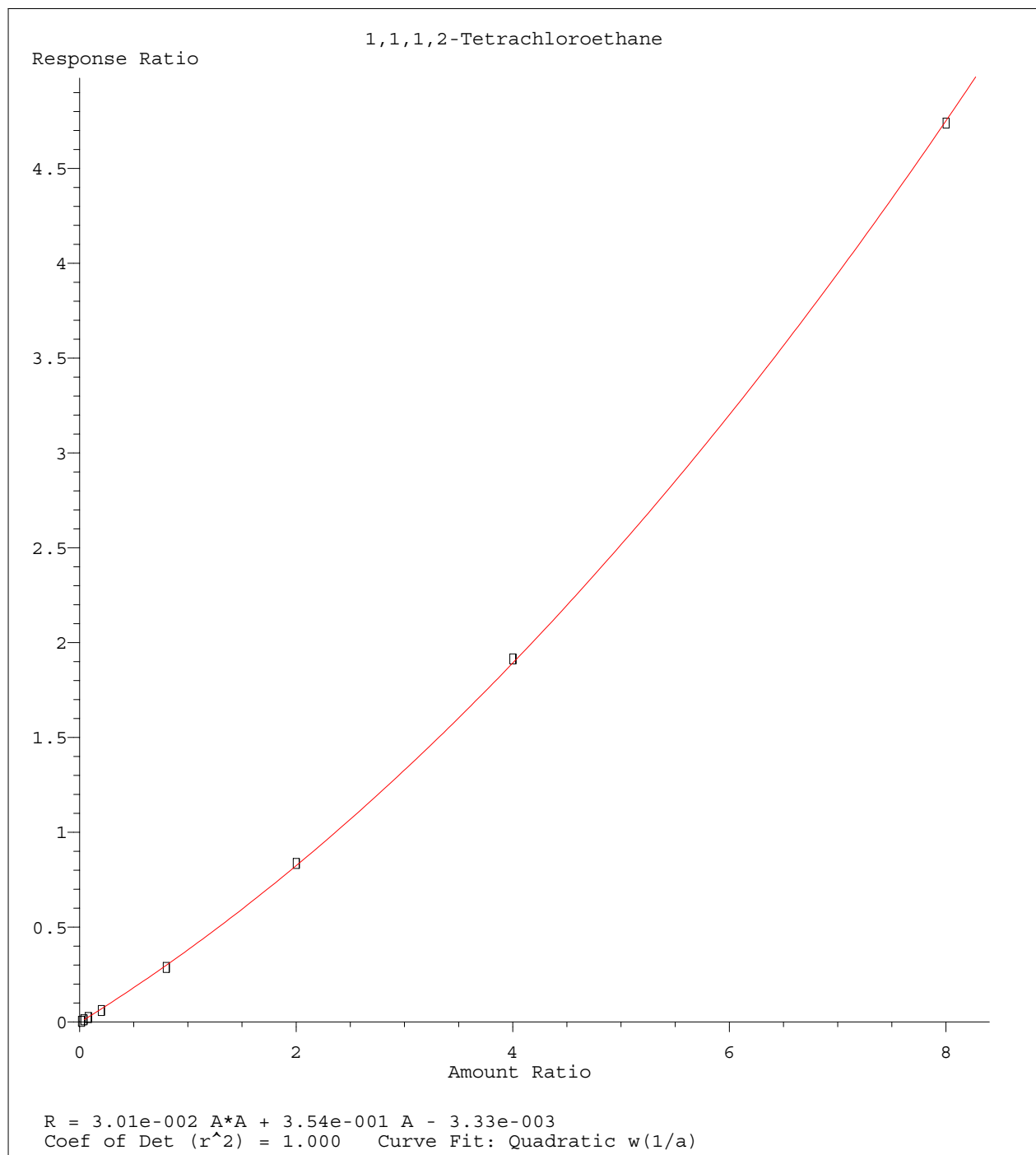
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Calibration Table Last Updated: Fri May 04 08:32:33 2012



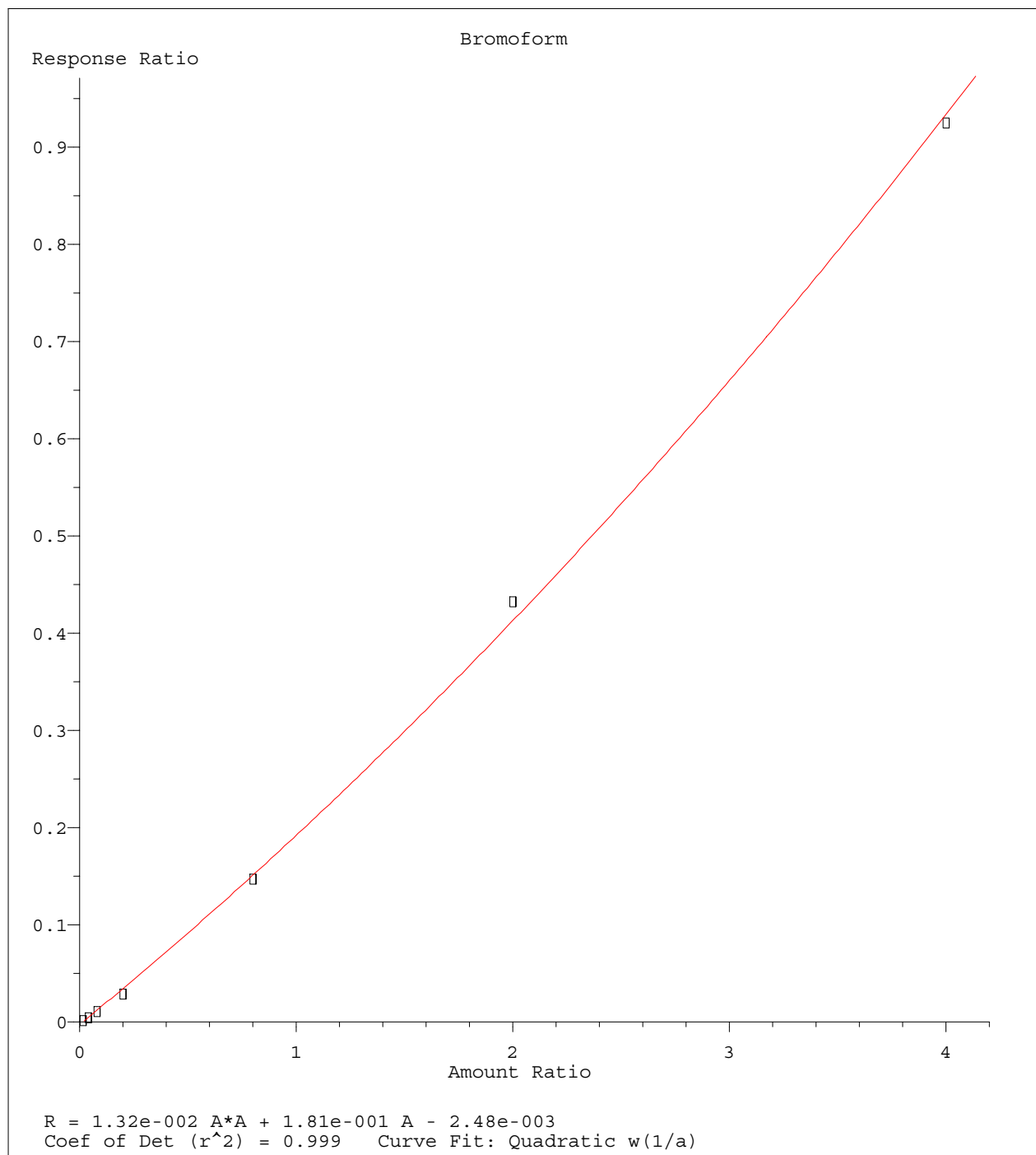
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Calibration Table Last Updated: Fri May 04 08:32:33 2012



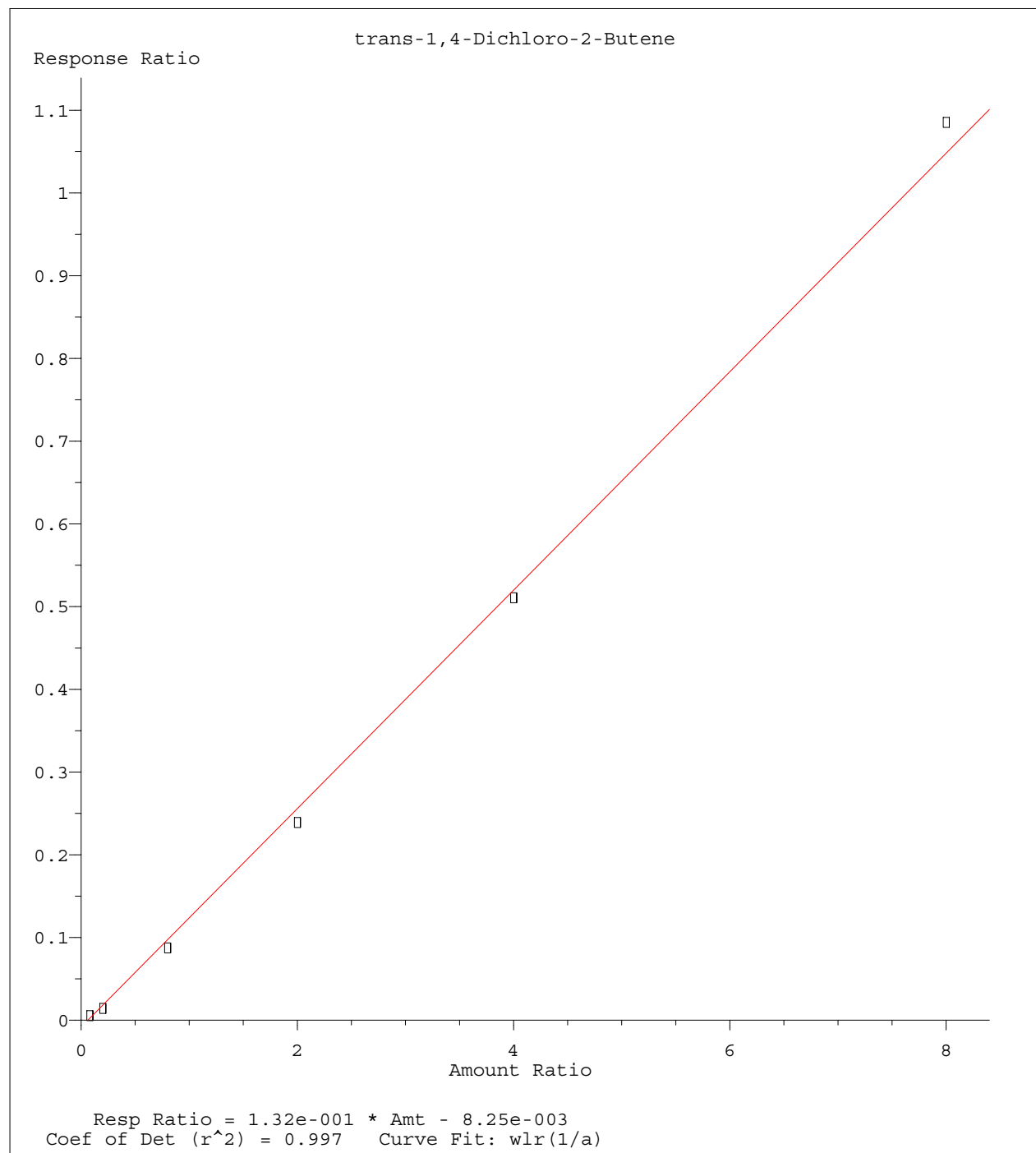
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Calibration Table Last Updated: Fri May 04 08:32:33 2012



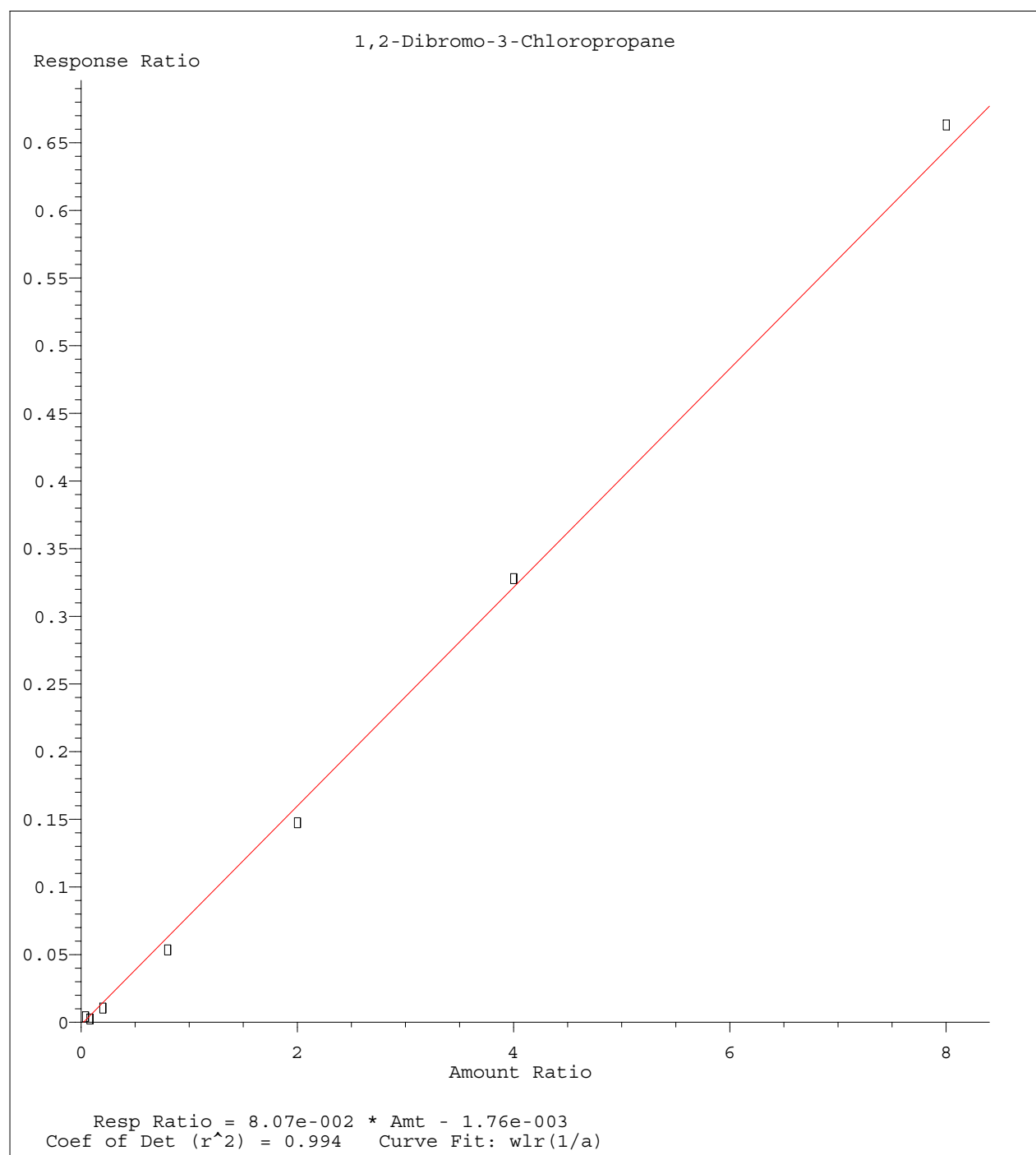
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Calibration Table Last Updated: Fri May 04 08:32:33 2012



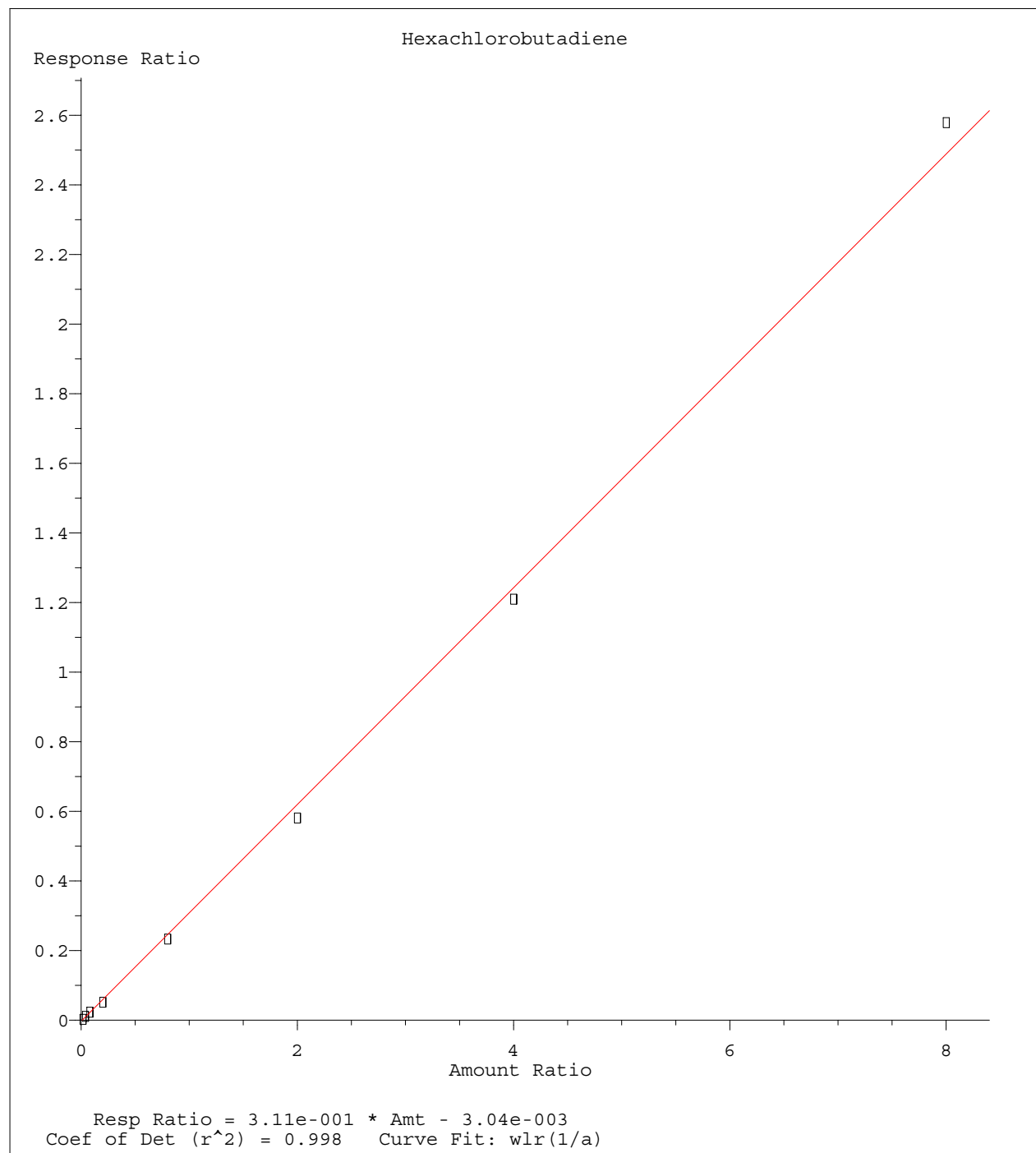
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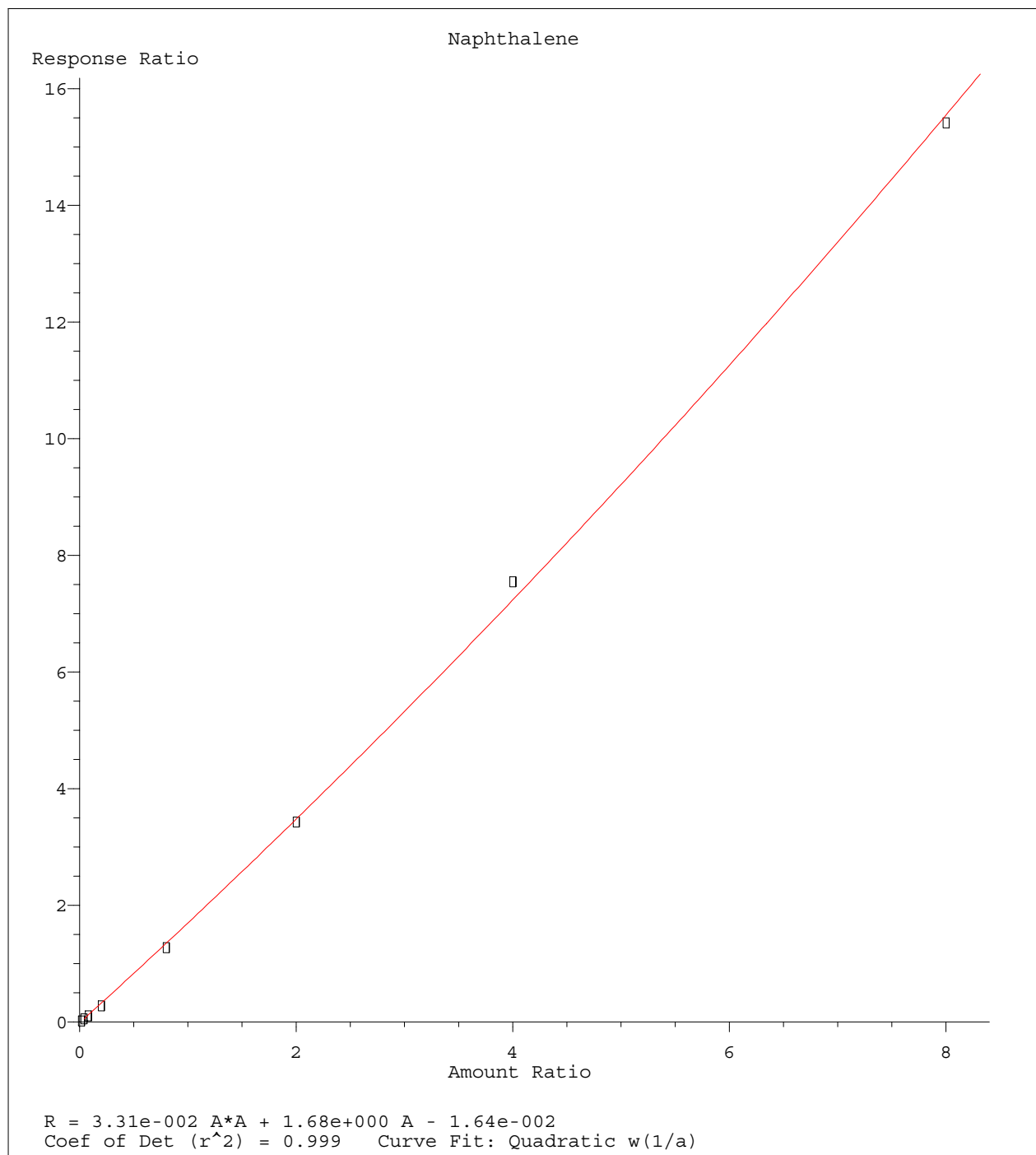
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Calibration Table Last Updated: Fri May 04 08:32:33 2012



Method Name: C:\MSDCHEM\1\METHODS\8260WTR.M
Calibration Table Last Updated: Fri May 04 08:32:33 2012



Method Name: C:\MSDCHEM\1\METHODS\8260WTR.M
Calibration Table Last Updated: Fri May 04 08:32:33 2012



Method Name: C:\MSDCHEM\1\METHODS\8260WTR.M
Calibration Table Last Updated: Fri May 04 08:32:33 2012

Data File : C:\MSDCHEM\1\DATA\050312\11M83341.D Vial: 13
 Acq On : 3 May 2012 22:38 Operator: ADC
 Sample : WG396851-12 50ug/L ALT SRC 8260 Inst : HPMS11
 Misc : 1,1 STD51372 Multiplr: 1.00
 MS Integration Params: rteint.p
 Quant Time: Jul 13 11:46:21 2012 Quant Results File: 8260WTR.RES

Quant Method : C:\MSDCHEM\1\METHODS\8260WTR.M (RTE Integrator)
 Title : 8260B/624 (SOP: OVL MSV01) Water 05/03/12 HPMS11
 Last Update : Fri Jul 13 11:24:02 2012
 Response via : Initial Calibration
 DataAcq Meth : 8260WTR

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene	10.31	96	464031	25.00	ug/L	0.02
57) Chlorobenzene-d5	13.94	117	367547	25.00	ug/L	0.02
78) 1,4-Dichlorobenzene-d4	16.74	152	215637	25.00	ug/L	0.02

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
37) Dibromofluoromethane	9.32	111	139439	24.6597	ug/L	0.02
Spiked Amount	25.000	Range 86 - 118	Recovery	=	98.64%	
43) 1,2-Dichloroethane-d4	9.93	65	133290	24.6340	ug/L	0.03
Spiked Amount	25.000	Range 80 - 120	Recovery	=	98.52%	
58) Toluene-d8	12.17	98	461320	23.7951	ug/L	0.02
Spiked Amount	25.000	Range 88 - 110	Recovery	=	95.20%	
80) p-Bromofluorobenzene	15.33	95	170237	23.8843	ug/L	0.02
Spiked Amount	25.000	Range 86 - 115	Recovery	=	95.52%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	3.05	85	424943	70.9681	ug/L	100
3) Chloromethane	3.48	50	654238	63.6201	ug/L	98
4) Vinyl Chloride	3.69	62	479845	46.7987	ug/L	100
5) 1,3-Butadiene	3.73	54	150886	21.2381	ug/L	96
6) Bromomethane	4.56	94	185501	56.2517	ug/L	98
7) Chloroethane	4.71	64	190220	53.6791	ug/L	98
8) Trichlorofluoromethane	5.19	101	529498	52.9219	ug/L	99
9) Diethyl ether	5.71	59	320684	90.7988	ug/L	100
10) Isoprene	5.74	67	371823	47.7647	ug/L	100
11) Acrolein	5.93	56	44872	182.9232	ug/L	98
12) 1,1,2-Trichloro-1,2,2-Trif	5.96	101	276384	53.2747	ug/L	100
13) Acetone	6.04	43	46020	53.7090	ug/L	97
14) 1,1-Dichloroethene	6.25	61	386603	54.8850	ug/L	100
15) Tert-Butyl Alcohol	6.38	59	53898	230.3365	ug/L	100
16) Dimethyl Sulfide	6.50	62	293443	50.8647	ug/L	100
17) Iodomethane	6.74	142	376292	52.4914	ug/L	97
18) Methyl acetate	6.76	43	127385	42.5023	ug/L	98
19) Methylene Chloride	7.00	84	264382	52.8103	ug/L	98
20) Carbon Disulfide	7.04	76	770955	53.6878	ug/L	100
21) Acrylonitrile	7.18	53	55757	54.5325	ug/L	99
22) Methyl Tert Butyl Ether	7.22	73	621966	53.1762	ug/L	100
23) trans-1,2-Dichloroethene	7.44	96	268638	53.4172	ug/L	100
24) n-Hexane	7.52	57	251960	49.5894	ug/L	99
25) Diisopropyl ether	7.85	45	1470544	99.8365	ug/L	100
26) Vinyl Acetate	8.01	43	242467	80.3061	ug/L	99
27) 1,1-Dichloroethane	8.03	63	455841	54.0898	ug/L	100
28) Ethyl-Tert-Butyl ether	8.41	59	1377415	95.7701	ug/L	100
29) 2-Butanone	8.57	43	62141	52.0394	ug/L	99
30) Propionitrile	8.67	54	37051	105.1385	ug/L	98
31) 2,2-Dichloropropane	8.78	77	351954	51.6696	ug/L	100
32) cis-1,2-Dichloroethene	8.84	96	293819	53.9140	ug/L	99
33) Chloroform	9.04	83	478774	53.7362	ug/L	98
34) 1-Bromopropane	9.17	122	61392	60.2373	ug/L	98
35) Bromochloromethane	9.26	130	191946	55.4415	ug/L	100
36) Tetrahydrofuran	9.29	42	77137	99.5288	ug/L	98
38) 1,1,1-Trichloroethane	9.54	97	454912	54.4262	ug/L	100
39) Cyclohexane	9.57	56	350245	52.0107	ug/L	100
40) 1,1-Dichloropropene	9.73	75	359141	54.0364	ug/L	100
41) Carbon Tetrachloride	9.87	117	459251	51.6473	ug/L	100
42) Tert-Amyl-Methyl ether	9.83	73	1340142	101.9151	ug/L	100

(#) = qualifier out of range (m) = manual integration
 11M83341.D 8260WTR.M Fri Jul 13 11:46:22 2012

Data File : C:\MSDCHEM\1\DATA\050312\11M83341.D Vial: 13
 Acq On : 3 May 2012 22:38 Operator: ADC
 Sample : WG396851-12 50ug/L ALT SRC 8260 Inst : HPMS11
 Misc : 1,1 STD51372 Multiplr: 1.00
 MS Integration Params: rteint.p
 Quant Time: Jul 13 11:46:21 2012 Quant Results File: 8260WTR.RES

Quant Method : C:\MSDCHEM\1\METHODS\8260WTR.M (RTE Integrator)
 Title : 8260B/624 (SOP: OVL MSV01) Water 05/03/12 HPMS11
 Last Update : Fri Jul 13 11:24:02 2012
 Response via : Initial Calibration
 DataAcq Meth : 8260WTR

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
45) 1,2-Dichloroethane	10.04	62	338853	54.0949	ug/L	99
46) Benzene	10.07	78	1029190	53.0036	ug/L	100
47) Trichloroethene	10.78	130	325583	51.1413	ug/L	100
48) Methylcyclohexane	10.87	83	355525	53.3416	ug/L	100
49) 1,2-Dichloropropane	10.98	63	240710	53.8500	ug/L	99
50) 1,4-Dioxane	11.26	88	6957	218.9050	ug/L	94
51) Bromodichloromethane	11.27	83	364429	59.5630	ug/L	100
52) Dibromomethane	11.35	93	152949	51.1322	ug/L	98
53) 2-Chloroethyl Vinyl Ether	11.55	63	108395	56.8473	ug/L	98
54) 4-Methyl-2-Pentanone	11.58	58	54734	52.4115	ug/L	98
55) cis-1,3-Dichloropropene	11.87	75	392429	55.6819	ug/L	99
56) Dimethyl Disulfide	12.11	79	225308	53.9440	ug/L	99
59) Toluene	12.26	91	1167329	52.8032	ug/L	100
60) Ethyl Methacrylate	12.35	69	247454	52.9875	ug/L	98
61) Paraldehyde	12.38	89	5188	99.3110	ug/L	94
62) trans-1,3-Dichloropropene	12.43	75	319943	53.9787	ug/L	99
63) 1,1,2-Trichloroethane	12.62	97	196726	53.8742	ug/L	99
64) 2-Hexanone	12.57	43	93834	50.8186	ug/L	96
65) 1,3-Dichloropropane	12.91	76	333197	54.3217	ug/L	99
66) Tetrachloroethene	13.03	164	248208	54.7999	ug/L	99
67) Dibromochloromethane	13.28	129	281762	54.0413	ug/L	100
68) 1,2-Dibromoethane	13.51	107	204884	54.1816	ug/L	99
69) 1-Chlorohexane	13.60	91	346161	54.6165	ug/L	100
70) Chlorobenzene	13.99	112	822105	55.8659	ug/L	99
71) 1,1,1,2-Tetrachloroethane	14.01	131	331694	54.0830	ug/L	100
72) Ethylbenzene	14.01	106	463604	58.0547	ug/L	98
73) m-,p-Xylene	14.09	106	1130395	114.6319	ug/L	100
74) o-Xylene	14.62	106	506555	52.7332	ug/L	99
75) Styrene	14.65	104	902712	59.0611	ug/L	100
76) Bromoform	15.11	173	174136	56.4256	ug/L	97
77) Isopropylbenzene	15.01	105	1124539	49.7250	ug/L	100
79) 1,1,2,2-Tetrachloroethane	15.21	83	206848	53.8871	ug/L	99
81) 1,2,3-Trichloropropane	15.39	110	68906	59.3085	ug/L	96
82) trans-1,4-Dichloro-2-Butene	15.43	53	53926	48.9099	ug/L	87
83) n-Propylbenzene	15.48	91	1469801	52.3857	ug/L	100
84) Bromobenzene	15.60	156	350782	52.3329	ug/L	100
85) 1,3,5-Trimethylbenzene	15.65	105	1108828	53.2158	ug/L	99
86) 2-Chlorotoluene	15.74	91	976263	51.7381	ug/L	100
87) 4-Chlorotoluene	15.78	91	841294	50.9469	ug/L	99
88) a-Methylstyrene	16.03	118	660241	56.8967	ug/L	99
89) tert-Butylbenzene	16.09	134	233269	51.4408	ug/L	98
90) 1,2,4-Trimethylbenzene	16.13	105	1235760	57.0042	ug/L	99
91) sec-Butylbenzene	16.34	105	1276260	52.4583	ug/L	99
92) p-Isopropyltoluene	16.48	119	1151739	55.1721	ug/L	100
93) 1,3-Dichlorobenzene	16.67	146	682589	51.9226	ug/L	99
94) 1,4-Dichlorobenzene	16.78	146	695572	51.9809	ug/L	99
95) n-Butylbenzene	16.97	91	962728	60.5427	ug/L	100
96) 1,2-Dichlorobenzene	17.25	146	631321	52.9863	ug/L	100
97) 1,2-Dibromo-3-Chloropropane	18.16	75	36824	53.4168	ug/L	94
98) 1,2,4-Trichlorobenzene	19.22	180	404280	59.9978	ug/L	99
99) Hexachlorobutadiene	19.36	225	129223	48.3450	ug/L	99
100) Naphthalene	19.56	128	803646	53.4376	ug/L	99
101) 1,2,3-Trichlorobenzene	19.85	180	359414	57.0772	ug/L	100

(#) = qualifier out of range (m) = manual integration
 11M83341.D 8260WTR.M Fri Jul 13 11:46:22 2012

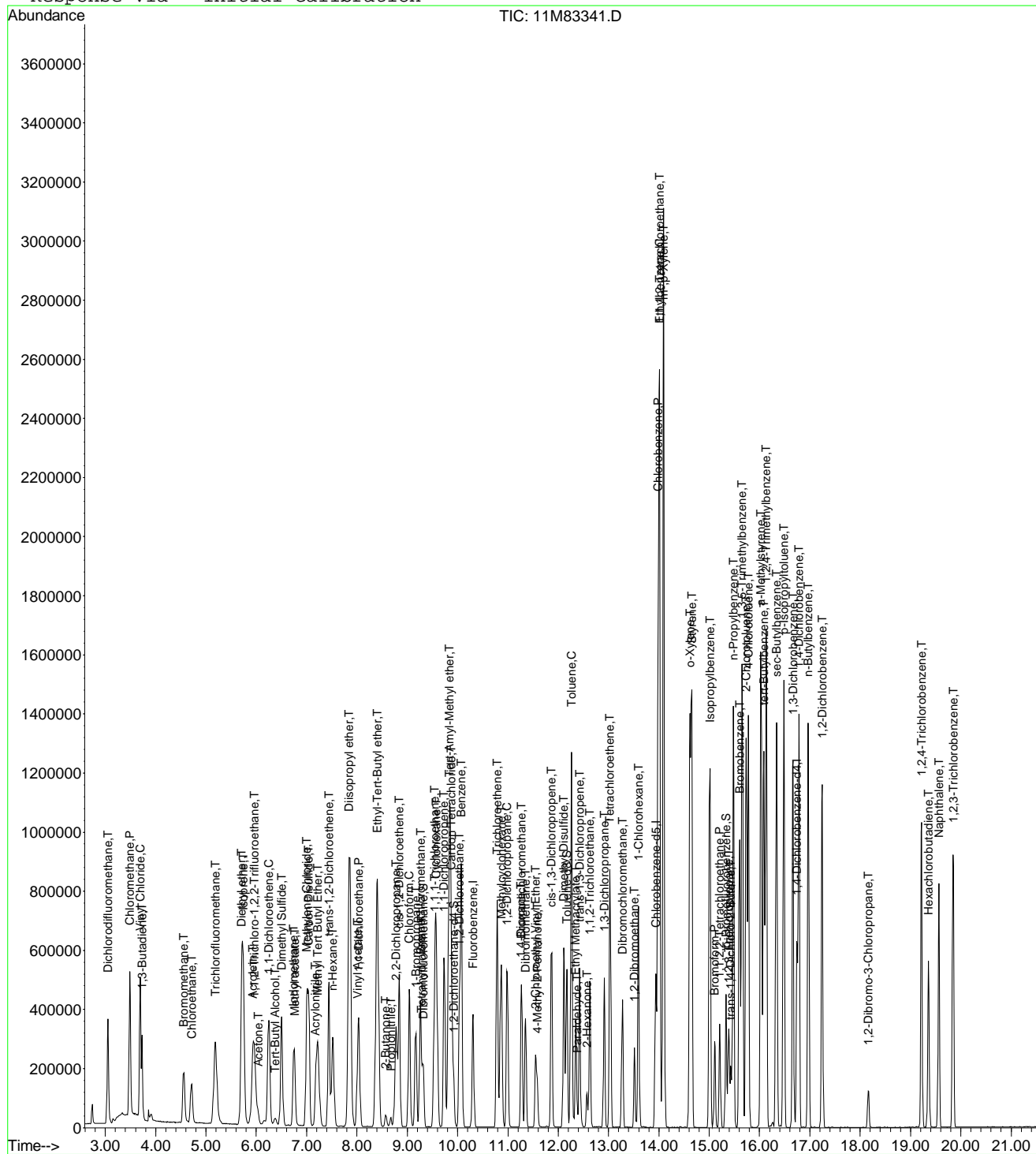
Page 2

Data File : C:\MSDCHEM\1\DATA\050312\11M83341.D
Acq On : 3 May 2012 22:38
Sample : WG396851-12 50ug/L ALT SRC 8260
Misc : 1,1 STD51372
MS Integration Params: rteint.p
Quant Time: Jul 13 11:46 2012

Vial: 13
Operator: ADC
Inst : HPMS11
Multiplr: 1.00

Quant Results File: 8260WTR.RES

Method : C:\MSDCHEM\1\METHODS\8260WTR.M (RTE Integrator)
Title : 8260B/624 (SOP: OVL MSV01) Water 05/03/12 HPMS11
Last Update : Fri Jul 13 11:24:02 2012
Response via : Initial Calibration



Data File : C:\MSDCHEM\1\DATA\050312\11M83341.D Vial: 13
 Acq On : 3 May 2012 22:38 Operator: ADC
 Sample : WG396851-12 50ug/L ALT SRC 8260 Inst : HPMS11
 Misc : 1,1 STD51372 Multiplr: 1.00
 MS Integration Params: rteint.p

Method : C:\MSDCHEM\1\METHODS\8260WTR.M (RTE Integrator)
 Title : 8260B/624 (SOP: OVL MSV01) Water 05/03/12 HPMS11
 Last Update : Fri Jul 13 11:24:02 2012
 Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
 Max. RRF Dev : 25% Max. Rel. Area : 150%

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1 I	Fluorobenzene	25.0000	25.0000	0.0	96	0.02
2 T	Dichlorodifluoromethane	50.0000	70.9681	-41.9#	133	0.02
3 P	Chloromethane	50.0000	63.6202	-27.2#	117	0.02
4 C	Vinyl Chloride	50.0000	46.7987	6.4	100	0.01
5 T	1,3-Butadiene	50.0000	21.2381	57.5#	56	0.02
6 T	Bromomethane	50.0000	56.2517	-12.5	108	0.02
7 T	Chloroethane	50.0000	53.6791	-7.4	101	0.02
8 T	Trichlorofluoromethane	50.0000	52.9219	-5.8	100	0.02
9 T	Diethyl ether	100.0000	90.7988	9.2	88	0.02
10 T	Isoprene	50.0000	47.7647	4.5	88	0.02
11 T	Acrolein	100.0000	182.9232	-82.9#	176	0.02
12 T	1,1,2-Trichloro-1,2,2-Trifl	50.0000	53.2747	-6.5	98	0.03
13 T	Acetone	50.0000	53.7090	-7.4	100	0.02
14 C	1,1-Dichloroethene	50.0000	54.8850	-9.8	103	0.02
15 T	Tert-Butyl Alcohol	200.0000	230.3365	-15.2	107	0.02
16 T	Dimethyl Sulfide	50.0000	50.8647	-1.7	97	0.02
17 T	Iodomethane	50.0000	52.4914	-5.0	94	0.02
18 T	Methyl acetate	50.0000	42.5023	15.0	85	0.02
19 T	Methylene Chloride	50.0000	52.8103	-5.6	103	0.02
20 T	Carbon Disulfide	50.0000	53.6878	-7.4	102	0.02
21 T	Acrylonitrile	50.0000	54.5325	-9.1	96	0.02
22 T	Methyl Tert Butyl Ether	50.0000	53.1762	-6.4	102	0.02
23 T	trans-1,2-Dichloroethene	50.0000	53.4172	-6.8	100	0.02
24 T	n-Hexane	50.0000	49.5894	0.8	93	0.02
25 T	Diisopropyl ether	100.0000	99.8365	0.2	98	0.02
26 T	Vinyl Acetate	50.0000	80.3061	-60.6#	155	0.02
27 P	1,1-Dichloroethane	50.0000	54.0898	-8.2	102	0.02
28 T	Ethyl-Tert-Butyl ether	100.0000	95.7701	4.2	94	0.03
29 T	2-Butanone	50.0000	52.0394	-4.1	100	0.02
30 T	Propionitrile	100.0000	105.1385	-5.1	99	0.03
31 T	2,2-Dichloropropane	50.0000	51.6696	-3.3	96	0.02
32 T	cis-1,2-Dichloroethene	50.0000	53.9140	-7.8	101	0.02
33 C	Chloroform	50.0000	53.7362	-7.5	104	0.02
34 T	1-Bromopropane	50.0000	60.2373	-20.5	109	0.02
35 T	Bromochloromethane	50.0000	55.4415	-10.9	103	0.02
36 T	Tetrahydrofuran	100.0000	99.5288	0.5	97	0.02
37 S	Dibromofluoromethane	25.0000	24.6597	1.4	96	0.02
38 T	1,1,1-Trichloroethane	50.0000	54.4262	-8.9	101	0.02
39 T	Cyclohexane	50.0000	52.0106	-4.0	97	0.02
40 T	1,1-Dichloropropene	50.0000	54.0364	-8.1	100	0.02
41 T	Carbon Tetrachloride	50.0000	51.6473	-3.3	105	0.02
42 T	Tert-Amyl-Methyl ether	100.0000	101.9151	-1.9	99	0.02
43 S	1,2-Dichloroethane-d4	25.0000	24.6340	1.5	97	0.03
44 T	Heptane	-1.0000	0.0000	0.0	93	0.02
45 T	1,2-Dichloroethane	50.0000	54.0949	-8.2	102	0.03
46 T	Benzene	50.0000	53.0036	-6.0	101	0.02
47 T	Trichloroethene	50.0000	51.1413	-2.3	102	0.02
48 T	Methylcyclohexane	50.0000	53.3416	-6.7	98	0.02
49 C	1,2-Dichloropropane	50.0000	53.8500	-7.7	102	0.02
50 T	1,4-Dioxane	200.0000	218.9050	-9.5	98	0.02
51 T	Bromodichloromethane	50.0000	59.5630	-19.1	106	0.02
52 T	Dibromomethane	50.0000	51.1322	-2.3	101	0.03
53 T	2-Chloroethyl Vinyl Ether	50.0000	56.8473	-13.7	101	0.02
54 T	4-Methyl-2-Pentanone	50.0000	52.4115	-4.8	96	0.02

(#) = Out of Range

11M83341.D 8260WTR.M Fri Jul 13 11:46:26 2012

Page 1

Data File : C:\MSDCHEM\1\DATA\050312\11M83341.D Vial: 13
 Acq On : 3 May 2012 22:38 Operator: ADC
 Sample : WG396851-12 50ug/L ALT SRC 8260 Inst : HPMS11
 Misc : 1,1 STD51372 Multiplr: 1.00
 MS Integration Params: rteint.p

Method : C:\MSDCHEM\1\METHODS\8260WTR.M (RTE Integrator)
 Title : 8260B/624 (SOP: OVL MSV01) Water 05/03/12 HPMS11
 Last Update : Fri Jul 13 11:24:02 2012
 Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
 Max. RRF Dev : 25% Max. Rel. Area : 150%

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
55 T	cis-1,3-Dichloropropene	50.0000	55.6819	-11.4	101	0.02
56 T	Dimethyl Disulfide	50.0000	53.9440	-7.9	102	0.02
57 I	Chlorobenzene-d5	25.0000	25.0000	0.0	96	0.02
58 S	Toluene-d8	25.0000	23.7951	4.8	95	0.02
59 C	Toluene	50.0000	52.8032	-5.6	100	0.02
60 T	Ethyl Methacrylate	50.0000	52.9875	-6.0	106	0.02
61 T	Paraldehyde	100.0000	99.3110	0.7	92	0.02
62 T	trans-1,3-Dichloropropene	50.0000	53.9787	-8.0	90	0.02
63 T	1,1,2-Trichloroethane	50.0000	53.8742	-7.7	101	0.02
64 T	2-Hexanone	50.0000	50.8186	-1.6	96	0.02
65 T	1,3-Dichloropropane	50.0000	54.3217	-8.6	102	0.02
66 T	Tetrachloroethene	50.0000	54.7998	-9.6	101	0.02
67 T	Dibromochloromethane	50.0000	54.0413	-8.1	103	0.02
68 T	1,2-Dibromoethane	50.0000	54.1816	-8.4	101	0.02
69 T	1-Chlorohexane	50.0000	54.6165	-9.2	99	0.02
70 P	Chlorobenzene	50.0000	55.8659	-11.7	100	0.03
71 T	1,1,1,2-Tetrachloroethane	50.0000	54.0830	-8.2	103	0.02
72 C	Ethylbenzene	50.0000	58.0547	-16.1	101	0.02
73 T	m-,p-Xylene	100.0000	114.6320	-14.6	99	0.02
74 T	o-Xylene	50.0000	52.7332	-5.5	98	0.02
75 T	Styrene	50.0000	59.0611	-18.1	102	0.02
76 P	Bromoform	50.0000	56.4256	-12.9	105	0.02
77 T	Isopropylbenzene	50.0000	49.7250	0.6	86	0.02
78 I	1,4-Dichlorobenzene-d4	25.0000	25.0000	0.0	97	0.02
79 P	1,1,2,2-Tetrachloroethane	50.0000	53.8871	-7.8	99	0.02
80 S	p-Bromofluorobenzene	25.0000	23.8843	4.5	96	0.02
81 T	1,2,3-Trichloropropane	50.0000	59.3085	-18.6	113	0.02
82 T	trans-1,4-Dichloro-2-Butene	50.0000	48.9099	2.2	101	0.02
83 T	n-Propylbenzene	50.0000	52.3858	-4.8	100	0.02
84 T	Bromobenzene	50.0000	52.3329	-4.7	102	0.02
85 T	1,3,5-Trimethylbenzene	50.0000	53.2158	-6.4	102	0.02
86 T	2-Chlorotoluene	50.0000	51.7381	-3.5	100	0.05
87 T	4-Chlorotoluene	50.0000	50.9469	-1.9	98	0.02
88 T	a-Methylstyrene	50.0000	56.8967	-13.8	102	0.02
89 T	tert-Butylbenzene	50.0000	51.4408	-2.9	98	0.02
90 T	1,2,4-Trimethylbenzene	50.0000	57.0042	-14.0	105	0.02
91 T	sec-Butylbenzene	50.0000	52.4583	-4.9	98	0.02
92 T	p-Isopropyltoluene	50.0000	55.1721	-10.3	101	0.02
93 T	1,3-Dichlorobenzene	50.0000	51.9226	-3.8	99	0.02
94 T	1,4-Dichlorobenzene	50.0000	51.9809	-4.0	100	0.02
95 T	n-Butylbenzene	50.0000	60.5427	-21.1	104	0.02
96 T	1,2-Dichlorobenzene	50.0000	52.9864	-6.0	100	0.02
97 T	1,2-Dibromo-3-Chloropropane	50.0000	53.4168	-6.8	112	0.01
98 T	1,2,4-Trichlorobenzene	50.0000	59.9978	-20.0	104	0.02
99 T	Hexachlorobutadiene	50.0000	48.3450	3.3	100	0.02
100 T	Naphthalene	50.0000	53.4376	-6.9	105	0.02
101 T	1,2,3-Trichlorobenzene	50.0000	57.0772	-14.2	106	0.02

(#) = Out of Range SPCC's out = 0 CCC's out = 0
 11M83341.D 8260WTR.M Fri Jul 13 11:46:26 2012

Page 2

Data File : C:\MSDCHEM\1\DATA\061412\11M84562.D Vial: 2
 Acq On : 14 Jun 2012 17:41 Operator: fjb
 Sample : WG402310-02 0.2ug/L STD 6200 Inst : HPMS11
 Misc : 1,1 STD52281 Multiplr: 1.00
 MS Integration Params: rteint.p
 Quant Time: Jun 15 12:47:54 2012 Quant Results File: 6200WTR.RES

Quant Method : C:\MSDCHEM\1\METHODS\6200WTR.M (RTE Integrator)
 Title : 6200 (SOP: OVL MSV01) Water 06/14/12 HPMS11
 Last Update : Fri Jun 15 12:47:48 2012
 Response via : Initial Calibration
 DataAcq Meth : 6200WTR

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene	10.29	96	1031744	10.00	ug/L	0.00
58) Chlorobenzene-d5	13.92	117	655611	10.00	ug/L	0.00
79) 1,4-Dichlorobenzene-d4	16.72	152	284076	10.00	ug/L	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
38) Dibromofluoromethane	9.30	111	3451	0.1572	ug/L	0.00
Spiked Amount	10.000	Range 86 - 118	Recovery	=	1.60%#	
44) 1,2-Dichloroethane-d4	9.91	65	2921	0.1817	ug/L	0.00
Spiked Amount	10.000	Range 80 - 120	Recovery	=	1.80%#	
59) Toluene-d8	12.15	98	17106	0.1930	ug/L	0.00
Spiked Amount	10.000	Range 88 - 110	Recovery	=	1.90%#	
81) p-Bromofluorobenzene	15.31	95	4766	0.2115	ug/L	0.00
Spiked Amount	10.000	Range 86 - 115	Recovery	=	2.10%#	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	3.04	85	5791	0.1863	ug/L	# 72
3) Chloromethane	3.47	50	16507	0.2303	ug/L	# 57
4) Vinyl Chloride	3.69	62	10460	0.1780	ug/L	99
5) 1,3-Butadiene	3.74	54	6680	Below Cal		# 56
6) Bromomethane	4.56	94	4781	0.2810	ug/L	85
7) Chloroethane	4.70	64	3693	0.1919	ug/L	85
8) Ethanol	4.86	45	1656	22.6180	ug/L	# 54
9) Trichlorofluoromethane	5.17	101	9464	0.1989	ug/L	95
10) Diethyl ether	5.70	59	4515	0.3464	ug/L	# 55
11) Isoprene	5.74	67	7656	0.1768	ug/L	99
13) 1,1,2-Trichloro-1,2,2-Trif	5.95	101	5964	0.2109	ug/L	82
14) Acetone	6.03	43	2156	0.5309	ug/L	# 51
15) 1,1-Dichloroethene	6.22	61	9160	0.2041	ug/L	97
16) Tert-Butyl Alcohol	6.34	59	243	0.3341	ug/L	# 64
17) Dimethyl Sulfide	6.48	62	4508	0.2034	ug/L	83
20) Methylene Chloride	6.99	84	8658	0.2626	ug/L	98
21) Carbon Disulfide	7.03	76	15985	0.1936	ug/L	# 66
23) Methyl Tert Butyl Ether	7.21	73	5520	0.1586	ug/L	81
24) trans-1,2-Dichloroethene	7.42	96	5706	0.1913	ug/L	88
25) n-Hexane	7.50	57	6850	0.1958	ug/L	# 89
26) Diisopropyl ether	7.84	45	21151	0.3289	ug/L	88
27) Vinyl Acetate	7.99	43	490	1.2141	ug/L	# 74
28) 1,1-Dichloroethane	8.02	63	9579	0.1871	ug/L	93
29) Ethyl-Tert-Butyl ether	8.39	59	16463	0.3269	ug/L	96
30) 2-Butanone	8.55	43	1236	0.1746	ug/L	# 49
32) 2,2-Dichloropropane	8.77	77	7455	0.1776	ug/L	100
33) cis-1,2-Dichloroethene	8.83	96	5844	0.2003	ug/L	93
34) Chloroform	9.03	83	9710	0.1987	ug/L	98
36) Bromochloromethane	9.25	130	2148	0.1787	ug/L	88
37) Tetrahydrofuran	9.27	42	271	0.1496	ug/L	# 33
39) 1,1,1-Trichloroethane	9.53	97	8921	0.1899	ug/L	# 97
40) Cyclohexane	9.56	56	8804	0.1999	ug/L	91
41) 1,1-Dichloropropene	9.72	75	7653	0.1904	ug/L	87
42) Carbon Tetrachloride	9.85	117	7611	0.1709	ug/L	96
43) Tert-Amyl-Methyl ether	9.81	73	12231	0.3176	ug/L	# 97
46) 1,2-Dichloroethane	10.01	62	4080	0.1886	ug/L	85
47) Benzene	10.06	78	23786	0.2094	ug/L	100
48) Trichloroethene	10.76	130	5994	0.1823	ug/L	93
49) Methylcyclohexane	10.85	83	7429	0.1779	ug/L	93
50) 1,2-Dichloropropane	10.97	63	4368	0.1899	ug/L	98

(#) = qualifier out of range (m) = manual integration
 11M84562.D 8260WTR.M Mon Jul 09 11:36:36 2012

Data File : C:\MSDCHEM\1\DATA\061412\11M84562.D Vial: 2
 Acq On : 14 Jun 2012 17:41 Operator: fjb
 Sample : WG402310-02 0.2ug/L STD 6200 Inst : HPMS11
 Misc : 1,1 STD52281 Multiplr: 1.00
 MS Integration Params: rteint.p
 Quant Time: Jun 15 12:47:54 2012 Quant Results File: 6200WTR.RES

Quant Method : C:\MSDCHEM\1\METHODS\6200WTR.M (RTE Integrator)
 Title : 6200 (SOP: OVL MSV01) Water 06/14/12 HPMS11
 Last Update : Fri Jun 15 12:47:48 2012
 Response via : Initial Calibration
 DataAcq Meth : 6200WTR

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
52) Bromodichloromethane	11.25	83	4202	0.1616	ug/L #	95
53) Dibromomethane	11.33	93	1385	0.1576	ug/L #	74
56) cis-1,3-Dichloropropene	11.85	75	4641	0.1693	ug/L	96
57) Dimethyl Disulfide	12.09	79	2035	0.1542	ug/L	96
60) Toluene	12.24	91	21611	0.1860	ug/L	90
63) trans-1,3-Dichloropropene	12.41	75	2727	0.1504	ug/L	91
64) 1,1,2-Trichloroethane	12.61	97	1931	0.1823	ug/L	89
65) 2-Hexanone	12.56	43	542	0.1537	ug/L #	54
66) 1,3-Dichloropropane	12.89	76	2905	0.1613	ug/L	77
67) Tetrachloroethene	13.02	164	4577	0.1869	ug/L	98
68) Dibromochloromethane	13.25	129	2762	0.1975	ug/L	87
69) 1,2-Dibromoethane	13.49	107	1602	0.1731	ug/L	95
70) 1-Chlorohexane	13.58	91	6956	0.1790	ug/L	93
71) Chlorobenzene	13.96	112	12346	0.1763	ug/L	80
72) 1,1,1,2-Tetrachloroethane	14.00	131	4062	0.1748	ug/L	97
73) Ethylbenzene	13.99	106	7405	0.1757	ug/L	93
74) m-,p-Xylene	14.07	106	16921	0.3537	ug/L	94
75) o-Xylene	14.59	106	7523	0.1695	ug/L	94
76) Styrene	14.63	104	9157	0.1563	ug/L #	70
77) Bromoform	15.09	173	852	0.2339	ug/L #	64
78) Isopropylbenzene	14.99	105	21457	0.1759	ug/L	95
80) 1,1,2,2-Tetrachloroethane	15.20	83	1391	0.1719	ug/L	71
84) n-Propylbenzene	15.47	91	25909	0.1973	ug/L	97
85) Bromobenzene	15.58	156	3980	0.1809	ug/L	84
86) 1,3,5-Trimethylbenzene	15.63	105	16306	0.1847	ug/L	99
87) 2-Chlorotoluene	15.72	91	14716	0.1861	ug/L	99
88) 4-Chlorotoluene	15.76	91	11620	0.1749	ug/L	99
89) a-Methylstyrene	16.01	118	6306	0.1448	ug/L	99
90) tert-Butylbenzene	16.07	134	3571	0.1770	ug/L	87
91) 1,2,4-Trimethylbenzene	16.12	105	15697	0.1752	ug/L	96
92) sec-Butylbenzene	16.32	105	20533	0.1811	ug/L	97
93) p-Isopropyltoluene	16.46	119	18015	0.1846	ug/L	93
94) 1,3-Dichlorobenzene	16.65	146	8698	0.1867	ug/L	100
95) 1,4-Dichlorobenzene	16.76	146	8212	0.1877	ug/L #	9
96) n-Butylbenzene	16.95	91	15691	0.1831	ug/L	97
97) 1,2-Dichlorobenzene	17.22	146	7239	0.2030	ug/L	84
99) 1,2,4-Trichlorobenzene	19.19	180	3394	0.1579	ug/L	80
100) Hexachlorobutadiene	19.34	225	2356	0.1942	ug/L	81
101) Naphthalene	19.54	128	3121	0.1343	ug/L #	72
102) 1,2,3-Trichlorobenzene	19.83	180	2929	0.1791	ug/L	99

(#) = qualifier out of range (m) = manual integration
 11M84562.D 8260WTR.M Mon Jul 09 11:36:36 2012

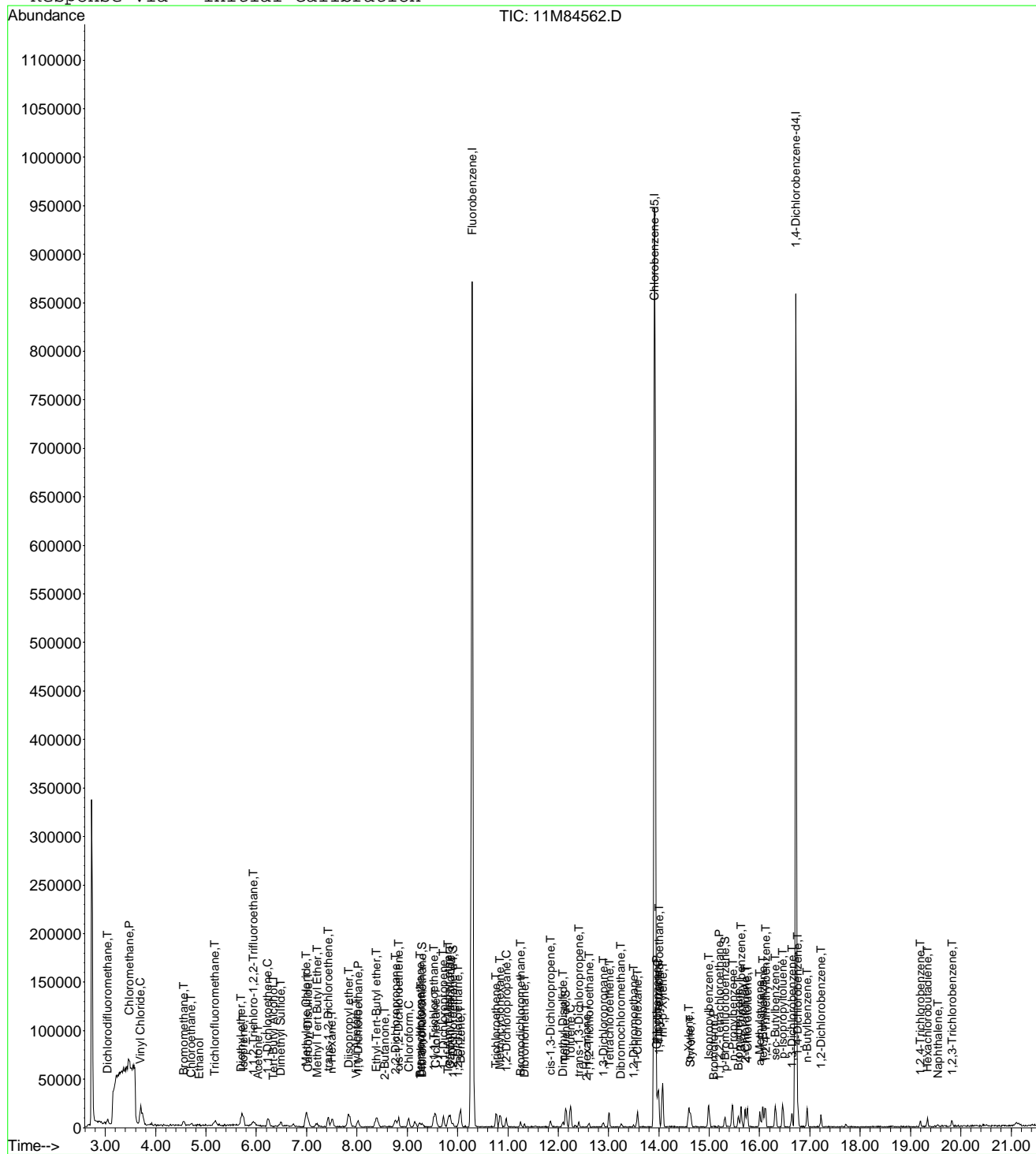
Page 2

Data File : C:\MSDCHEM\1\DATA\061412\11M84562.D
Acq On : 14 Jun 2012 17:41
Sample : WG402310-02 0.2ug/L STD 6200
Misc : 1,1 STD52281
MS Integration Params: rteint.p
Quant Time: Jun 15 12:47 2012

Vial: 2
Operator: fjb
Inst : HPMS11
Multiplr: 1.00

Quant Results File: 6200WTR.RES

Method : C:\MSDCHEM\1\METHODS\8260WTR.M (RTE Integrator)
Title : 8260B/624 (SOP: OVL MSV01) Water 05/03/12 HPMS11
Last Update : Fri Jul 06 09:41:59 2012
Response via : Initial Calibration



Data File : C:\MSDCHEM\1\DATA\061412\11M84563.D Vial: 3
 Acq On : 14 Jun 2012 18:32 Operator: fjb
 Sample : WG402310-03 0.4ug/L STD 6200 Inst : HPMS11
 Misc : 1,1 STD52281 Multiplr: 1.00
 MS Integration Params: rteint.p
 Quant Time: Jun 15 12:48:17 2012 Quant Results File: 6200WTR.RES

Quant Method : C:\MSDCHEM\1\METHODS\6200WTR.M (RTE Integrator)
 Title : 6200 (SOP: OVL MSV01) Water 06/14/12 HPMS11
 Last Update : Fri Jun 15 12:47:48 2012
 Response via : Initial Calibration
 DataAcq Meth : 6200WTR

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene	10.29	96	997234	10.00	ug/L	0.00
58) Chlorobenzene-d5	13.92	117	642857	10.00	ug/L	0.00
79) 1,4-Dichlorobenzene-d4	16.72	152	284512	10.00	ug/L	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
38) Dibromofluoromethane	9.31	111	7658	0.3610	ug/L	0.01
Spiked Amount	10.000	Range 86 - 118	Recovery	=	3.60%#	
44) 1,2-Dichloroethane-d4	9.91	65	6042	0.3888	ug/L	0.00
Spiked Amount	10.000	Range 80 - 120	Recovery	=	3.90%#	
59) Toluene-d8	12.15	98	32631	0.3755	ug/L	0.00
Spiked Amount	10.000	Range 88 - 110	Recovery	=	3.80%#	
81) p-Bromofluorobenzene	15.31	95	8771	0.3886	ug/L	0.00
Spiked Amount	10.000	Range 86 - 115	Recovery	=	3.90%#	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	3.04	85	11356	0.3780	ug/L	# 85
3) Chloromethane	3.47	50	27079	0.3909	ug/L	# 30
4) Vinyl Chloride	3.69	62	17541	0.3088	ug/L	97
6) Bromomethane	4.55	94	8673	0.5274	ug/L	99
7) Chloroethane	4.70	64	7153	0.3845	ug/L	93
8) Ethanol	4.88	45	307	4.3382	ug/L	# 35
9) Trichlorofluoromethane	5.17	101	17506	0.3806	ug/L	92
10) Diethyl ether	5.70	59	8248	0.6547	ug/L	82
11) Isoprene	5.74	67	15750	0.3764	ug/L	91
12) Acrolein	5.92	56	883	0.8640	ug/L	# 14
13) 1,1,2-Trichloro-1,2,2-Trif	5.92	101	10341	0.3783	ug/L	92
14) Acetone	6.04	43	1753	0.4466	ug/L	# 57
15) 1,1-Dichloroethene	6.25	61	14926	0.3440	ug/L	93
16) Tert-Butyl Alcohol	6.35	59	393	0.5590	ug/L	# 64
17) Dimethyl Sulfide	6.48	62	8874	0.4143	ug/L	96
18) Iodomethane	6.73	142	6830	0.1989	ug/L	99
19) Methyl acetate	6.75	43	1880	0.3201	ug/L	# 91
20) Methylene Chloride	6.99	84	9138	0.2867	ug/L	98
21) Carbon Disulfide	7.03	76	30936	0.3876	ug/L	92
22) Acrylonitrile	7.18	53	895	0.3333	ug/L	# 41
23) Methyl Tert Butyl Ether	7.21	73	12802	0.3806	ug/L	81
24) trans-1,2-Dichloroethene	7.43	96	10349	0.3590	ug/L	86
25) n-Hexane	7.51	57	13662	0.4041	ug/L	97
26) Diisopropyl ether	7.84	45	43912	0.7064	ug/L	93
27) Vinyl Acetate	7.98	43	1986	1.2988	ug/L	# 74
28) 1,1-Dichloroethane	8.02	63	18210	0.3679	ug/L	95
29) Ethyl-Tert-Butyl ether	8.39	59	34316	0.7050	ug/L	95
30) 2-Butanone	8.55	43	1332	0.1947	ug/L	# 49
32) 2,2-Dichloropropane	8.77	77	15679	0.3864	ug/L	94
33) cis-1,2-Dichloroethene	8.83	96	10441	0.3703	ug/L	96
34) Chloroform	9.03	83	17065	0.3613	ug/L	98
35) 1-Bromopropane	9.15	122	1835	0.3424	ug/L	89
36) Bromochloromethane	9.24	130	4385	0.3775	ug/L	89
37) Tetrahydrofuran	9.25	42	1237	0.7066	ug/L	# 76
39) 1,1,1-Trichloroethane	9.53	97	15602	0.3436	ug/L	99
40) Cyclohexane	9.56	56	15223	0.3577	ug/L	88
41) 1,1-Dichloropropene	9.72	75	13987	0.3601	ug/L	98
42) Carbon Tetrachloride	9.85	117	15064	0.3500	ug/L	91
43) Tert-Amyl-Methyl ether	9.82	73	25218	0.6775	ug/L	# 99
46) 1,2-Dichloroethane	10.02	62	7688	0.3677	ug/L	92

(#) = qualifier out of range (m) = manual integration
 11M84563.D 8260WTR.M Mon Jul 09 11:37:03 2012

Data File : C:\MSDCHEM\1\DATA\061412\11M84563.D Vial: 3
 Acq On : 14 Jun 2012 18:32 Operator: fjb
 Sample : WG402310-03 0.4ug/L STD 6200 Inst : HPMS11
 Misc : 1,1 STD52281 Multiplr: 1.00
 MS Integration Params: rteint.p
 Quant Time: Jun 15 12:48:17 2012 Quant Results File: 6200WTR.RES

Quant Method : C:\MSDCHEM\1\METHODS\6200WTR.M (RTE Integrator)
 Title : 6200 (SOP: OVL MSV01) Water 06/14/12 HPMS11
 Last Update : Fri Jun 15 12:47:48 2012
 Response via : Initial Calibration
 DataAcq Meth : 6200WTR

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
47) Benzene	10.06	78	39781	0.3624	ug/L	96
48) Trichloroethene	10.76	130	11387	0.3583	ug/L	99
49) Methylcyclohexane	10.85	83	15078	0.3735	ug/L	88
50) 1,2-Dichloropropane	10.97	63	8588	0.3863	ug/L	96
52) Bromodichloromethane	11.25	83	8717	0.3468	ug/L	87
53) Dibromomethane	11.33	93	3083	0.3631	ug/L	94
54) 2-Chloroethyl Vinyl Ether	11.53	63	1028	0.2156	ug/L #	48
55) 4-Methyl-2-Pentanone	11.57	58	459	0.1847	ug/L #	38
56) cis-1,3-Dichloropropene	11.85	75	9441	0.3564	ug/L	95
57) Dimethyl Disulfide	12.09	79	4506	0.3534	ug/L	98
60) Toluene	12.24	91	40499	0.3555	ug/L	97
61) Ethyl Methacrylate	12.32	69	4564	0.4209	ug/L	98
63) trans-1,3-Dichloropropene	12.41	75	6050	0.3402	ug/L	88
64) 1,1,2-Trichloroethane	12.60	97	4094	0.3943	ug/L	99
65) 2-Hexanone	12.55	43	1170	0.3384	ug/L #	58
66) 1,3-Dichloropropane	12.89	76	6845	0.3877	ug/L	97
67) Tetrachloroethene	13.02	164	10316	0.4296	ug/L	80
68) Dibromochloromethane	13.26	129	4330	0.3157	ug/L	94
69) 1,2-Dibromoethane	13.49	107	3459	0.3811	ug/L	99
70) 1-Chlorohexane	13.58	91	14883	0.3906	ug/L	87
71) Chlorobenzene	13.97	112	26457	0.3853	ug/L	97
72) 1,1,1,2-Tetrachloroethane	14.00	131	8712	0.3824	ug/L	88
73) Ethylbenzene	13.99	106	15220	0.3682	ug/L	91
74) m-,p-Xylene	14.07	106	34304	0.7313	ug/L	98
75) o-Xylene	14.60	106	15524	0.3568	ug/L	96
76) Styrene	14.63	104	19929	0.3469	ug/L	81
77) Bromoform	15.09	173	2217	0.4136	ug/L	98
78) Isopropylbenzene	14.99	105	41710	0.3487	ug/L	96
80) 1,1,2,2-Tetrachloroethane	15.19	83	3412	0.4210	ug/L	82
82) 1,2,3-Trichloropropane	15.38	110	570	0.2485	ug/L	98
83) trans-1,4-Dichloro-2-Butene	15.41	53	693	0.2922	ug/L #	11
84) n-Propylbenzene	15.46	91	46767	0.3556	ug/L	97
85) Bromobenzene	15.58	156	9177	0.4164	ug/L	86
86) 1,3,5-Trimethylbenzene	15.63	105	32543	0.3681	ug/L	97
87) 2-Chlorotoluene	15.72	91	29103	0.3674	ug/L	92
88) 4-Chlorotoluene	15.76	91	25096	0.3771	ug/L	99
89) a-Methylstyrene	16.01	118	18775	0.4304	ug/L	99
90) tert-Butylbenzene	16.06	134	6863	0.3397	ug/L	85
91) 1,2,4-Trimethylbenzene	16.11	105	32405	0.3611	ug/L	93
92) sec-Butylbenzene	16.32	105	40436	0.3561	ug/L	97
93) p-Isopropyltoluene	16.46	119	32321	0.3307	ug/L	100
94) 1,3-Dichlorobenzene	16.65	146	17731	0.3800	ug/L	99
95) 1,4-Dichlorobenzene	16.76	146	16699	0.3811	ug/L #	57
96) n-Butylbenzene	16.95	91	30134	0.3511	ug/L	94
97) 1,2-Dichlorobenzene	17.23	146	14063	0.3939	ug/L	98
99) 1,2,4-Trichlorobenzene	19.20	180	7168	0.3330	ug/L	92
100) Hexachlorobutadiene	19.34	225	4692	0.3862	ug/L	97
101) Naphthalene	19.54	128	7336	0.3151	ug/L #	94
102) 1,2,3-Trichlorobenzene	19.82	180	5684	0.3471	ug/L	90

(#) = qualifier out of range (m) = manual integration
 11M84563.D 8260WTR.M Mon Jul 09 11:37:03 2012

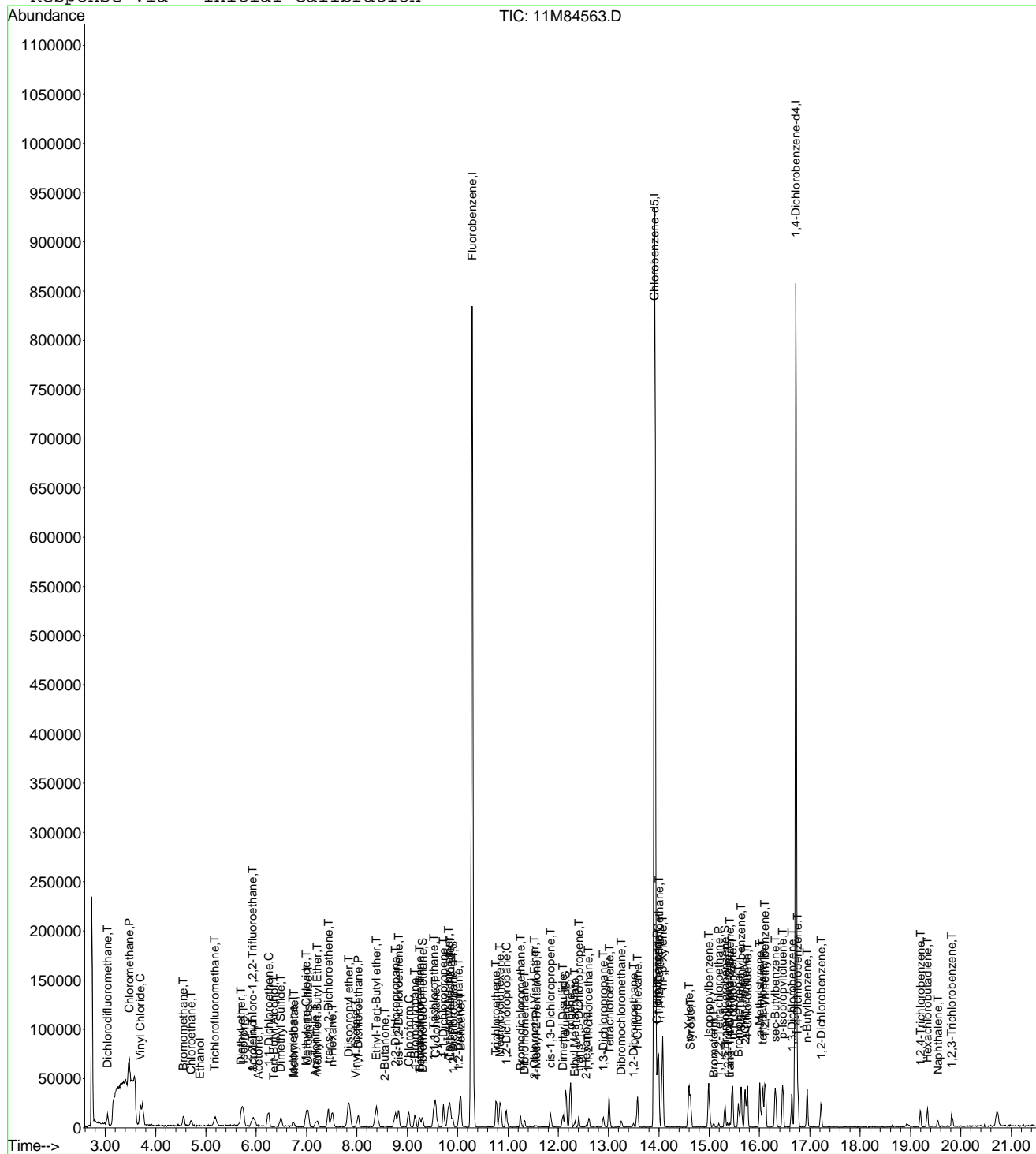
Page 2

Data File : C:\MSDCHEM\1\DATA\061412\11M84563.D
Acq On : 14 Jun 2012 18:32
Sample : WG402310-03 0.4ug/L STD 6200
Misc : 1,1 STD52281
MS Integration Params: rteint.p
Quant Time: Jun 15 12:48 2012

Vial: 3
Operator: fjb
Inst : HPMS11
Multiplr: 1.00

Quant Results File: 6200WTR.RES

Method : C:\MSDCHEM\1\METHODS\8260WTR.M (RTE Integrator)
Title : 8260B/624 (SOP: OVL MSV01) Water 05/03/12 HPMS11
Last Update : Fri Jul 06 09:41:59 2012
Response via : Initial Calibration



Data File : C:\MSDCHEM\1\DATA\061412\11M84564.D Vial: 4
 Acq On : 14 Jun 2012 19:10 Operator: fjb
 Sample : WG402310-04 0.5ug/L STD 6200 Inst : HPMS11
 Misc : 1,1 STD52281 Multiplr: 1.00
 MS Integration Params: rteint.p
 Quant Time: Jun 15 12:49:49 2012 Quant Results File: 6200WTR.RES

Quant Method : C:\MSDCHEM\1\METHODS\6200WTR.M (RTE Integrator)
 Title : 6200 (SOP: OVL MSV01) Water 06/14/12 HPMS11
 Last Update : Fri Jun 15 12:49:30 2012
 Response via : Initial Calibration
 DataAcq Meth : 6200WTR

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene	10.29	96	975203	10.00	ug/L	0.00
58) Chlorobenzene-d5	13.92	117	654770	10.00	ug/L	0.00
79) 1,4-Dichlorobenzene-d4	16.72	152	290592	10.00	ug/L	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
38) Dibromofluoromethane	9.30	111	10098	0.4868	ug/L	0.00
Spiked Amount	10.000	Range 86 - 118	Recovery	=	4.90%#	
44) 1,2-Dichloroethane-d4	9.91	65	7160	0.4711	ug/L	0.00
Spiked Amount	10.000	Range 80 - 120	Recovery	=	4.70%#	
59) Toluene-d8	12.15	98	41106	0.4644	ug/L	0.00
Spiked Amount	10.000	Range 88 - 110	Recovery	=	4.60%#	
81) p-Bromofluorobenzene	15.31	95	11872	0.5149	ug/L	0.00
Spiked Amount	10.000	Range 86 - 115	Recovery	=	5.10%#	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	3.04	85	14690	0.5000	ug/L	93
3) Chloromethane	3.47	50	32512	0.4799	ug/L	93
4) Vinyl Chloride	3.69	62	26580	0.4785	ug/L	95
5) 1,3-Butadiene	3.72	54	19841	0.1652	ug/L	85
6) Bromomethane	4.55	94	9540	0.5933	ug/L	95
7) Chloroethane	4.70	64	9302	0.5113	ug/L	92
8) Ethanol	4.85	45	1770	25.5767	ug/L	# 73
9) Trichlorofluoromethane	5.18	101	20725	0.4607	ug/L	93
10) Diethyl ether	5.70	59	11139	0.9042	ug/L	97
11) Isoprene	5.73	67	19282	0.4712	ug/L	93
12) Acrolein	5.91	56	689	0.6894	ug/L	# 46
13) 1,1,2-Trichloro-1,2,2-Trif	5.95	101	12374	0.4630	ug/L	98
14) Acetone	6.02	43	1854	0.4830	ug/L	77
15) 1,1-Dichloroethene	6.25	61	20412	0.4811	ug/L	100
16) Tert-Butyl Alcohol	6.34	59	827	1.2029	ug/L	# 64
17) Dimethyl Sulfide	6.49	62	10054	0.4800	ug/L	99
18) Iodomethane	6.73	142	8860	0.2639	ug/L	90
19) Methyl acetate	6.75	43	2526	0.4398	ug/L	# 70
20) Methylene Chloride	6.99	84	15345	0.4924	ug/L	98
21) Carbon Disulfide	7.03	76	39175	0.5019	ug/L	93
22) Acrylonitrile	7.16	53	1106	0.4212	ug/L	82
23) Methyl Tert Butyl Ether	7.21	73	16020	0.4870	ug/L	92
24) trans-1,2-Dichloroethene	7.42	96	13592	0.4821	ug/L	87
25) n-Hexane	7.51	57	16399	0.4960	ug/L	98
26) Diisopropyl ether	7.84	45	58541	0.9630	ug/L	91
27) Vinyl Acetate	7.99	43	2856	1.3511	ug/L	# 74
28) 1,1-Dichloroethane	8.02	63	22249	0.4597	ug/L	97
29) Ethyl-Tert-Butyl ether	8.39	59	45403	0.9539	ug/L	98
30) 2-Butanone	8.56	43	2528	0.3779	ug/L	82
31) Propionitrile	8.64	54	391	0.4478	ug/L	# 59
32) 2,2-Dichloropropane	8.77	77	20089	0.5062	ug/L	100
33) cis-1,2-Dichloroethene	8.83	96	13657	0.4953	ug/L	92
34) Chloroform	9.03	83	23210	0.5025	ug/L	98
35) 1-Bromopropane	9.16	122	2467	0.4708	ug/L	84
36) Bromochloromethane	9.23	130	5380	0.4736	ug/L	97
37) Tetrahydrofuran	9.26	42	1672	0.9766	ug/L	# 80
39) 1,1,1-Trichloroethane	9.53	97	20745	0.4671	ug/L	94
40) Cyclohexane	9.56	56	20044	0.4816	ug/L	94
41) 1,1-Dichloropropene	9.72	75	17005	0.4477	ug/L	97
42) Carbon Tetrachloride	9.86	117	20076	0.4770	ug/L	96

(#) = qualifier out of range (m) = manual integration
 11M84564.D 8260WTR.M Mon Jul 09 11:37:19 2012

Data File : C:\MSDCHEM\1\DATA\061412\11M84564.D Vial: 4
 Acq On : 14 Jun 2012 19:10 Operator: fjb
 Sample : WG402310-04 0.5ug/L STD 6200 Inst : HPMS11
 Misc : 1,1 STD52281 Multiplr: 1.00
 MS Integration Params: rteint.p
 Quant Time: Jun 15 12:49:49 2012 Quant Results File: 6200WTR.RES

Quant Method : C:\MSDCHEM\1\METHODS\6200WTR.M (RTE Integrator)
 Title : 6200 (SOP: OVL MSV01) Water 06/14/12 HPMS11
 Last Update : Fri Jun 15 12:49:30 2012
 Response via : Initial Calibration
 DataAcq Meth : 6200WTR

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
43) Tert-Amyl-Methyl ether	9.82	73	35234	0.9680	ug/L #	96
46) 1,2-Dichloroethane	10.02	62	10273	0.5025	ug/L	92
47) Benzene	10.06	78	52870	0.4925	ug/L	99
48) Trichloroethene	10.76	130	15210	0.4894	ug/L	97
49) Methylcyclohexane	10.85	83	20268	0.5134	ug/L	87
50) 1,2-Dichloropropane	10.97	63	10054	0.4625	ug/L	87
52) Bromodichloromethane	11.25	83	11935	0.4855	ug/L	97
53) Dibromomethane	11.33	93	4007	0.4825	ug/L	98
54) 2-Chloroethyl Vinyl Ether	11.53	63	1800	0.3861	ug/L	94
55) 4-Methyl-2-Pentanone	11.56	58	519	0.2136	ug/L #	38
56) cis-1,3-Dichloropropene	11.85	75	11639	0.4492	ug/L	95
57) Dimethyl Disulfide	12.09	79	4925	0.3949	ug/L	95
60) Toluene	12.24	91	53591	0.4619	ug/L	98
61) Ethyl Methacrylate	12.33	69	3885	0.3518	ug/L	79
63) trans-1,3-Dichloropropene	12.41	75	7706	0.4255	ug/L	95
64) 1,1,2-Trichloroethane	12.60	97	5006	0.4733	ug/L	99
65) 2-Hexanone	12.55	43	1204	0.3419	ug/L #	1
66) 1,3-Dichloropropane	12.89	76	8728	0.4853	ug/L	99
67) Tetrachloroethene	13.02	164	11356	0.4643	ug/L	92
68) Dibromochloromethane	13.26	129	6384	0.4570	ug/L	99
69) 1,2-Dibromoethane	13.49	107	3967	0.4291	ug/L	93
70) 1-Chlorohexane	13.58	91	18486	0.4763	ug/L	85
71) Chlorobenzene	13.96	112	31580	0.4516	ug/L	96
72) 1,1,1,2-Tetrachloroethane	13.99	131	10143	0.4371	ug/L	95
73) Ethylbenzene	13.99	106	18425	0.4377	ug/L	96
74) m-,p-Xylene	14.07	106	43123	0.9025	ug/L	95
75) o-Xylene	14.60	106	19224	0.4338	ug/L	88
76) Styrene	14.63	104	25174	0.4302	ug/L	91
77) Bromoform	15.09	173	2908	0.4964	ug/L	83
78) Isopropylbenzene	14.99	105	53428	0.4385	ug/L	100
80) 1,1,2,2-Tetrachloroethane	15.19	83	3465	0.4186	ug/L	94
82) 1,2,3-Trichloropropane	15.38	110	1021	0.4358	ug/L	97
83) trans-1,4-Dichloro-2-Butene	15.41	53	653	0.2695	ug/L #	1
84) n-Propylbenzene	15.46	91	64611	0.4810	ug/L	96
85) Bromobenzene	15.58	156	10861	0.4825	ug/L	92
86) 1,3,5-Trimethylbenzene	15.63	105	40015	0.4431	ug/L	96
87) 2-Chlorotoluene	15.72	91	38607	0.4772	ug/L	100
88) 4-Chlorotoluene	15.76	91	31666	0.4659	ug/L	100
89) a-Methylstyrene	16.01	118	17290	0.3881	ug/L	89
90) tert-Butylbenzene	16.07	134	9469	0.4589	ug/L	88
91) 1,2,4-Trimethylbenzene	16.11	105	40238	0.4390	ug/L	94
92) sec-Butylbenzene	16.32	105	53491	0.4612	ug/L	100
93) p-Isopropyltoluene	16.46	119	44135	0.4422	ug/L	100
94) 1,3-Dichlorobenzene	16.64	146	23034	0.4834	ug/L	98
95) 1,4-Dichlorobenzene	16.76	146	21502	0.4804	ug/L #	69
96) n-Butylbenzene	16.95	91	37857	0.4318	ug/L	97
97) 1,2-Dichlorobenzene	17.23	146	17809	0.4883	ug/L	97
99) 1,2,4-Trichlorobenzene	19.19	180	9850	0.4480	ug/L	94
100) Hexachlorobutadiene	19.34	225	5937	0.4784	ug/L	88
101) Naphthalene	19.54	128	9748	0.4099	ug/L #	98
102) 1,2,3-Trichlorobenzene	19.82	180	7337	0.4386	ug/L	93

(#) = qualifier out of range (m) = manual integration
 11M84564.D 8260WTR.M Mon Jul 09 11:37:19 2012

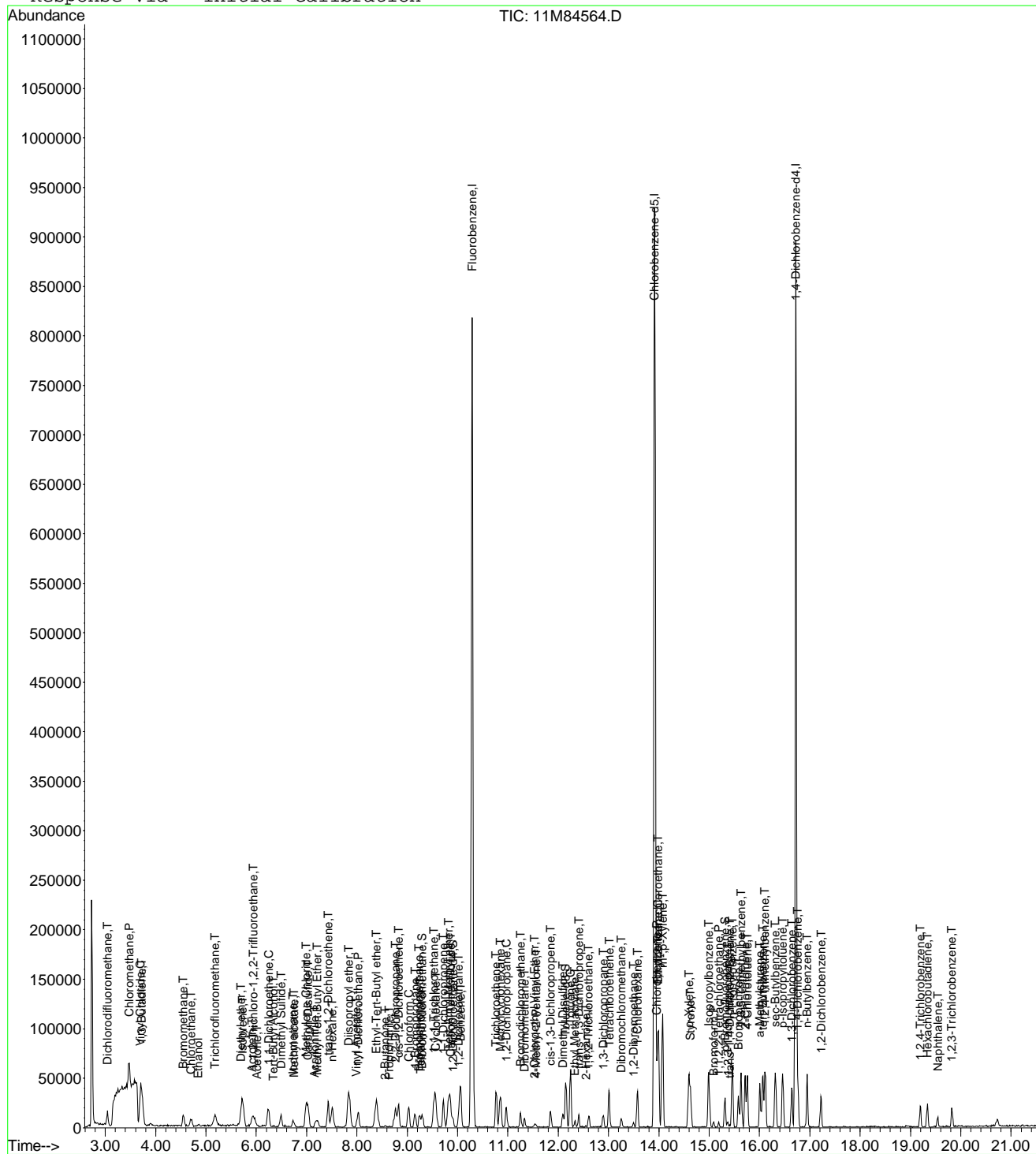
Page 2

Data File : C:\MSDCHEM\1\DATA\061412\11M84564.D
Acq On : 14 Jun 2012 19:10
Sample : WG402310-04 0.5ug/L STD 6200
Misc : 1,1 STD52281
MS Integration Params: rteint.p
Quant Time: Jun 15 12:49 2012

Vial: 4
Operator: fjb
Inst : HPMS11
Multiplr: 1.00

Quant Results File: 6200WTR.RES

Method : C:\MSDCHEM\1\METHODS\8260WTR.M (RTE Integrator)
Title : 8260B/624 (SOP: OVL MSV01) Water 05/03/12 HPMS11
Last Update : Fri Jul 06 09:41:59 2012
Response via : Initial Calibration



Data File : C:\MSDCHEM\1\DATA\061412\11M84565.D Vial: 5
 Acq On : 14 Jun 2012 19:48 Operator: fjb
 Sample : WG402310-05 1ug/L STD 6200 Inst : HPMS11
 Misc : 1,1 STD52281 Multiplr: 1.00
 MS Integration Params: rteint.p
 Quant Time: Jun 15 12:53:59 2012 Quant Results File: 6200WTR.RES

Quant Method : C:\MSDCHEM\1\METHODS\6200WTR.M (RTE Integrator)
 Title : 6200 (SOP: OVL MSV01) Water 06/14/12 HPMS11
 Last Update : Fri Jun 15 12:53:52 2012
 Response via : Initial Calibration
 DataAcq Meth : 6200WTR

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene	10.29	96	968525	10.00	ug/L	0.00
58) Chlorobenzene-d5	13.92	117	661154	10.00	ug/L	0.00
79) 1,4-Dichlorobenzene-d4	16.72	152	299979	10.00	ug/L	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
38) Dibromofluoromethane	9.30	111	19999	0.9707	ug/L	0.00
Spiked Amount	10.000	Range 86 - 118	Recovery	=	9.70%#	
44) 1,2-Dichloroethane-d4	9.91	65	15833	1.0490	ug/L	0.00
Spiked Amount	10.000	Range 80 - 120	Recovery	=	10.50%#	
59) Toluene-d8	12.15	98	86153	0.9640	ug/L	0.00
Spiked Amount	10.000	Range 88 - 110	Recovery	=	9.60%#	
81) p-Bromofluorobenzene	15.31	95	22684	0.9531	ug/L	0.00
Spiked Amount	10.000	Range 86 - 115	Recovery	=	9.50%#	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	3.04	85	30445	1.0434	ug/L	91
3) Chloromethane	3.47	50	67869	1.0087	ug/L	96
4) Vinyl Chloride	3.69	62	57975	1.0509	ug/L	99
5) 1,3-Butadiene	3.72	54	54057	0.8665	ug/L	88
6) Bromomethane	4.55	94	17678	1.1069	ug/L	98
7) Chloroethane	4.70	64	17691	0.9791	ug/L	92
8) Ethanol	4.84	45	4131	60.1049	ug/L	81
9) Trichlorofluoromethane	5.18	101	45367	1.0155	ug/L	100
10) Diethyl ether	5.70	59	29547	2.4150	ug/L	85
11) Isoprene	5.74	67	36543	0.8991	ug/L	95
12) Acrolein	5.91	56	1641	1.6533	ug/L	80
13) 1,1,2-Trichloro-1,2,2-Trif	5.94	101	27118	1.0216	ug/L	92
14) Acetone	6.02	43	4712	1.2360	ug/L	95
15) 1,1-Dichloroethene	6.23	61	40912	0.9710	ug/L	100
16) Tert-Butyl Alcohol	6.33	59	3241	4.7468	ug/L	# 64
17) Dimethyl Sulfide	6.48	62	20418	0.9815	ug/L	96
18) Iodomethane	6.74	142	22760	0.6825	ug/L	92
19) Methyl acetate	6.75	43	5647	0.9900	ug/L	92
20) Methylene Chloride	7.00	84	31955	1.0324	ug/L	92
21) Carbon Disulfide	7.03	76	74487	0.9608	ug/L	95
22) Acrylonitrile	7.17	53	2821	1.0818	ug/L	97
23) Methyl Tert Butyl Ether	7.20	73	33048	1.0115	ug/L	94
24) trans-1,2-Dichloroethene	7.42	96	27540	0.9837	ug/L	83
25) n-Hexane	7.51	57	30033	0.9146	ug/L	95
26) Diisopropyl ether	7.84	45	123082	2.0387	ug/L	92
27) Vinyl Acetate	7.99	43	7913	1.2194	ug/L	# 78
28) 1,1-Dichloroethane	8.02	63	47920	0.9969	ug/L	99
29) Ethyl-Tert-Butyl ether	8.39	59	95942	2.0296	ug/L	95
30) 2-Butanone	8.55	43	7089	1.0670	ug/L	93
31) Propionitrile	8.65	54	2030	2.3411	ug/L	# 59
32) 2,2-Dichloropropane	8.77	77	36613	0.9290	ug/L	99
33) cis-1,2-Dichloroethene	8.83	96	26492	0.9673	ug/L	90
34) Chloroform	9.03	83	46162	1.0063	ug/L	97
35) 1-Bromopropane	9.15	122	5142	0.9880	ug/L	91
36) Bromochloromethane	9.24	130	10768	0.9544	ug/L	96
37) Tetrahydrofuran	9.27	42	3264	1.9196	ug/L	90
39) 1,1,1-Trichloroethane	9.53	97	41866	0.9492	ug/L	97
40) Cyclohexane	9.55	56	38000	0.9193	ug/L	85
41) 1,1-Dichloropropene	9.72	75	35635	0.9447	ug/L	97
42) Carbon Tetrachloride	9.85	117	38702	0.9258	ug/L	96

(#) = qualifier out of range (m) = manual integration
 11M84565.D 8260WTR.M Mon Jul 09 11:37:38 2012

Data File : C:\MSDCHEM\1\DATA\061412\11M84565.D Vial: 5
 Acq On : 14 Jun 2012 19:48 Operator: fjb
 Sample : WG402310-05 lug/L STD 6200 Inst : HPMS11
 Misc : 1,1 STD52281 Multiplr: 1.00
 MS Integration Params: rteint.p
 Quant Time: Jun 15 12:53:59 2012 Quant Results File: 6200WTR.RES

Quant Method : C:\MSDCHEM\1\METHODS\6200WTR.M (RTE Integrator)
 Title : 6200 (SOP: OVL MSV01) Water 06/14/12 HPMS11
 Last Update : Fri Jun 15 12:53:52 2012
 Response via : Initial Calibration
 DataAcq Meth : 6200WTR

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
43) Tert-Amyl-Methyl ether	9.82	73	72618	2.0087	ug/L	92
46) 1,2-Dichloroethane	10.02	62	19772	0.9738	ug/L	95
47) Benzene	10.05	78	102825	0.9645	ug/L	98
48) Trichloroethene	10.76	130	29578	0.9582	ug/L	92
49) Methylcyclohexane	10.85	83	35838	0.9141	ug/L	93
50) 1,2-Dichloropropane	10.97	63	21734	1.0066	ug/L	95
52) Bromodichloromethane	11.26	83	24272	0.9942	ug/L	95
53) Dibromomethane	11.33	93	8663	1.0504	ug/L	86
54) 2-Chloroethyl Vinyl Ether	11.53	63	3459	0.7470	ug/L	98
55) 4-Methyl-2-Pentanone	11.57	58	1992	0.8254	ug/L #	75
56) cis-1,3-Dichloropropene	11.85	75	25347	0.9851	ug/L	98
57) Dimethyl Disulfide	12.10	79	10706	0.8644	ug/L	100
60) Toluene	12.24	91	109319	0.9331	ug/L	96
61) Ethyl Methacrylate	12.34	69	9847	0.8831	ug/L	98
63) trans-1,3-Dichloropropene	12.41	75	17973	0.9827	ug/L	96
64) 1,1,2-Trichloroethane	12.60	97	10824	1.0135	ug/L	95
65) 2-Hexanone	12.54	43	3384	0.9518	ug/L #	50
66) 1,3-Dichloropropane	12.89	76	17865	0.9837	ug/L	90
67) Tetrachloroethene	13.01	164	23656	0.9579	ug/L	94
68) Dibromochloromethane	13.26	129	13213	0.9367	ug/L	96
69) 1,2-Dibromoethane	13.49	107	8180	0.8763	ug/L	82
70) 1-Chlorohexane	13.58	91	34175	0.8721	ug/L	87
71) Chlorobenzene	13.96	112	65709	0.9306	ug/L	98
72) 1,1,1,2-Tetrachloroethane	13.99	131	20568	0.8778	ug/L	100
73) Ethylbenzene	13.99	106	38407	0.9035	ug/L	97
74) m-,p-Xylene	14.07	106	89779	1.8609	ug/L	97
75) o-Xylene	14.59	106	40510	0.9052	ug/L	96
76) Styrene	14.63	104	52913	0.8955	ug/L	89
77) Bromoform	15.10	173	6244	0.9133	ug/L	94
78) Isopropylbenzene	14.99	105	107373	0.8727	ug/L	98
80) 1,1,2,2-Tetrachloroethane	15.19	83	8434	0.9871	ug/L	99
82) 1,2,3-Trichloropropane	15.36	110	2633	1.0888	ug/L	81
83) trans-1,4-Dichloro-2-Butene	15.42	53	1422	0.5686	ug/L #	6
84) n-Propylbenzene	15.46	91	129178	0.9316	ug/L	98
85) Bromobenzene	15.58	156	23660	1.0183	ug/L	93
86) 1,3,5-Trimethylbenzene	15.63	105	84818	0.9099	ug/L	99
87) 2-Chlorotoluene	15.72	91	78525	0.9402	ug/L	100
88) 4-Chlorotoluene	15.76	91	66858	0.9528	ug/L	98
89) a-Methylstyrene	16.01	118	35927	0.7811	ug/L	93
90) tert-Butylbenzene	16.07	134	19849	0.9318	ug/L	94
91) 1,2,4-Trimethylbenzene	16.11	105	85934	0.9082	ug/L	97
92) sec-Butylbenzene	16.32	105	109040	0.9108	ug/L	98
93) p-Isopropyltoluene	16.46	119	91995	0.8928	ug/L	99
94) 1,3-Dichlorobenzene	16.65	146	47630	0.9682	ug/L	98
95) 1,4-Dichlorobenzene	16.76	146	44833	0.9703	ug/L	88
96) n-Butylbenzene	16.95	91	79742	0.8811	ug/L	96
97) 1,2-Dichlorobenzene	17.23	146	35721	0.9488	ug/L	95
98) 1,2-Dibromo-3-Chloropropane	18.14	75	771	0.6530	ug/L	82
99) 1,2,4-Trichlorobenzene	19.20	180	22644	0.9978	ug/L	98
100) Hexachlorobutadiene	19.34	225	12015	0.9379	ug/L	94
101) Naphthalene	19.54	128	21550	0.8779	ug/L #	96
102) 1,2,3-Trichlorobenzene	19.82	180	17451	1.0106	ug/L	90

(#) = qualifier out of range (m) = manual integration
 11M84565.D 8260WTR.M Mon Jul 09 11:37:38 2012

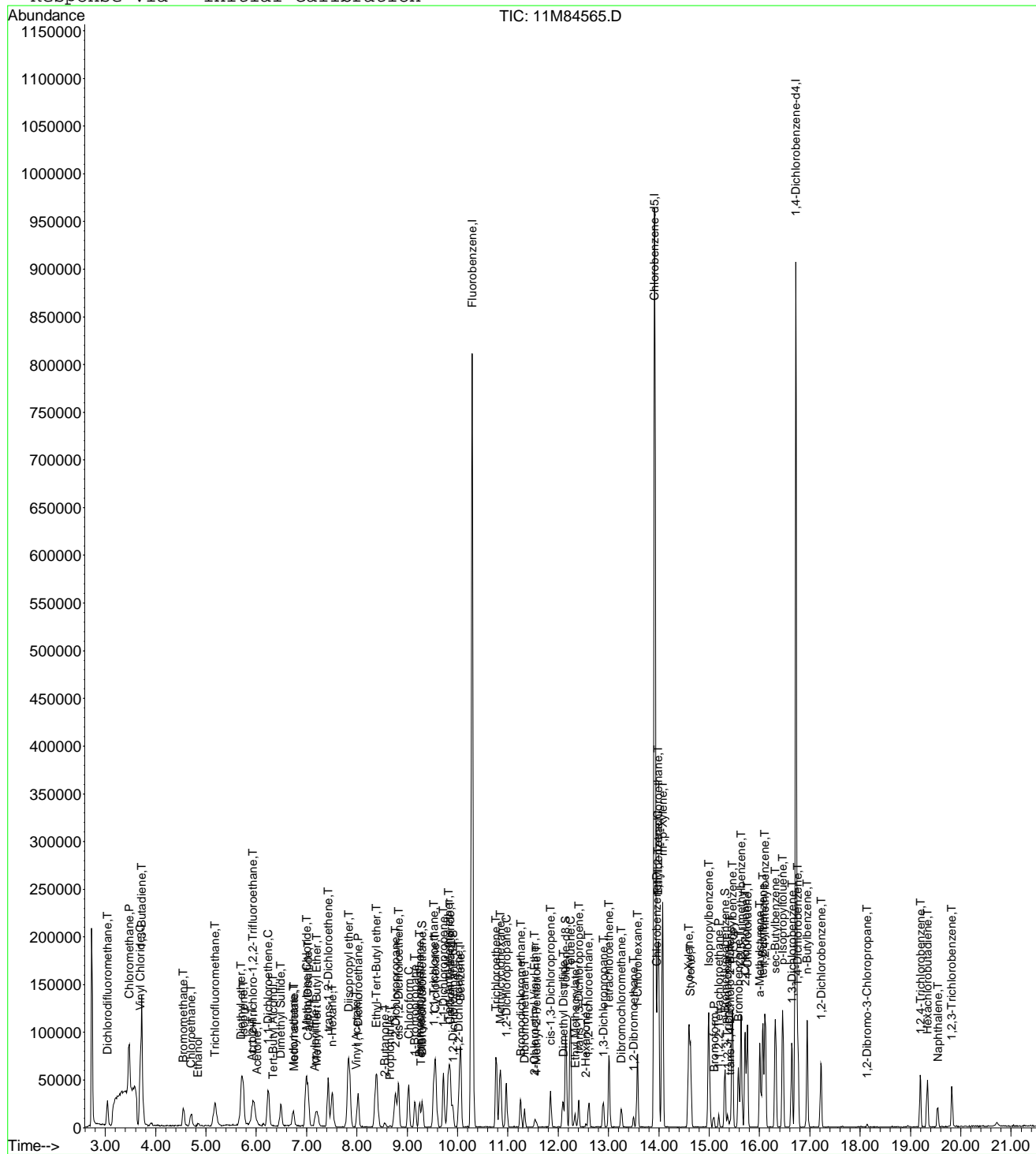
Page 2

Data File : C:\MSDCHEM\1\DATA\061412\11M84565.D
Acq On : 14 Jun 2012 19:48
Sample : WG402310-05 lug/L STD 6200
Misc : 1,1 STD52281
MS Integration Params: rteint.p
Quant Time: Jun 15 12:54 2012

Vial: 5
Operator: fjb
Inst : HPMS11
Multiplr: 1.00

Quant Results File: 6200WTR.RES

Method : C:\MSDCHEM\1\METHODS\8260WTR.M (RTE Integrator)
Title : 8260B/624 (SOP: OVL MSV01) Water 05/03/12 HPMS11
Last Update : Fri Jul 06 09:41:59 2012
Response via : Initial Calibration



Data File : C:\MSDCHEM\1\DATA\061412\11M84566.D Vial: 6
 Acq On : 14 Jun 2012 20:26 Operator: fjb
 Sample : WG402310-06 2ug/L STD 6200 Inst : HPMS11
 Misc : 1,1 STD52281 Multiplr: 1.00
 MS Integration Params: rteint.p
 Quant Time: Jun 15 12:58:49 2012 Quant Results File: 6200WTR.RES

Quant Method : C:\MSDCHEM\1\METHODS\6200WTR.M (RTE Integrator)
 Title : 6200 (SOP: OVL MSV01) Water 06/14/12 HPMS11
 Last Update : Fri Jun 15 12:54:35 2012
 Response via : Initial Calibration
 DataAcq Meth : 6200WTR

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene	10.29	96	968356	10.00	ug/L	0.00
58) Chlorobenzene-d5	13.92	117	646204	10.00	ug/L	0.00
79) 1,4-Dichlorobenzene-d4	16.72	152	296218	10.00	ug/L	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
38) Dibromofluoromethane	9.31	111	38152	1.8521	ug/L	0.01
Spiked Amount 10.000	Range	86 - 118	Recovery	=	18.50%#	
44) 1,2-Dichloroethane-d4	9.91	65	26801	1.7759	ug/L	0.00
Spiked Amount 10.000	Range	80 - 120	Recovery	=	17.80%#	
59) Toluene-d8	12.15	98	151538	1.7349	ug/L	0.00
Spiked Amount 10.000	Range	88 - 110	Recovery	=	17.30%#	
81) p-Bromofluorobenzene	15.31	95	40303	1.7149	ug/L	0.00
Spiked Amount 10.000	Range	86 - 115	Recovery	=	17.10%#	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	3.04	85	62257	2.1339	ug/L	93
3) Chloromethane	3.47	50	138313	2.0560	ug/L	96
4) Vinyl Chloride	3.69	62	123540	2.2397	ug/L	99
5) 1,3-Butadiene	3.72	54	105692	2.3719	ug/L	99
6) Bromomethane	4.55	94	31237	1.9562	ug/L	94
7) Chloroethane	4.70	64	36790	2.0365	ug/L	97
8) Ethanol	4.84	45	7264	105.7077	ug/L	# 73
9) Trichlorofluoromethane	5.18	101	89999	2.0149	ug/L	99
10) Diethyl ether	5.70	59	50683	4.1432	ug/L	88
11) Isoprene	5.73	67	75696	1.8628	ug/L	92
12) Acrolein	5.91	56	3702	3.7303	ug/L	97
13) 1,1,2-Trichloro-1,2,2-Trif	5.94	101	54091	2.0380	ug/L	94
14) Acetone	6.01	43	9206	2.4153	ug/L	77
15) 1,1-Dichloroethene	6.24	61	80717	1.9160	ug/L	100
16) Tert-Butyl Alcohol	6.35	59	4947	7.2467	ug/L	# 94
17) Dimethyl Sulfide	6.48	62	38393	1.8458	ug/L	96
18) Iodomethane	6.73	142	58793	1.7634	ug/L	94
19) Methyl acetate	6.75	43	12771	2.2393	ug/L	93
20) Methylene Chloride	6.99	84	61150	1.9760	ug/L	97
21) Carbon Disulfide	7.03	76	148836	1.9202	ug/L	99
22) Acrylonitrile	7.16	53	5199	1.9941	ug/L	87
23) Methyl Tert Butyl Ether	7.20	73	68341	2.0921	ug/L	88
24) trans-1,2-Dichloroethene	7.42	96	52871	1.8887	ug/L	91
25) n-Hexane	7.51	57	62962	1.9177	ug/L	95
26) Diisopropyl ether	7.84	45	222872	3.6923	ug/L	92
27) Vinyl Acetate	8.00	43	15002	2.1456	ug/L	# 90
28) 1,1-Dichloroethane	8.02	63	93349	1.9423	ug/L	98
29) Ethyl-Tert-Butyl ether	8.39	59	172119	3.6417	ug/L	96
30) 2-Butanone	8.55	43	14852	2.2357	ug/L	95
31) Propionitrile	8.65	54	3216	3.7095	ug/L	95
32) 2,2-Dichloropropane	8.77	77	76924	1.9522	ug/L	99
33) cis-1,2-Dichloroethene	8.83	96	50736	1.8529	ug/L	95
34) Chloroform	9.03	83	84985	1.8529	ug/L	99
35) 1-Bromopropane	9.15	122	10951	2.1046	ug/L	93
36) Bromochloromethane	9.24	130	21940	1.9449	ug/L	93
37) Tetrahydrofuran	9.27	42	5742	3.3775	ug/L	# 78
39) 1,1,1-Trichloroethane	9.53	97	83626	1.8964	ug/L	97
40) Cyclohexane	9.56	56	79663	1.9275	ug/L	88
41) 1,1-Dichloropropene	9.72	75	70339	1.8649	ug/L	96
42) Carbon Tetrachloride	9.86	117	78833	1.8862	ug/L	99

(#) = qualifier out of range (m) = manual integration
 11M84566.D 8260WTR.M Mon Jul 09 11:37:54 2012

Data File : C:\MSDCHEM\1\DATA\061412\11M84566.D Vial: 6
 Acq On : 14 Jun 2012 20:26 Operator: fjb
 Sample : WG402310-06 2ug/L STD 6200 Inst : HPMS11
 Misc : 1,1 STD52281 Multiplr: 1.00
 MS Integration Params: rteint.p
 Quant Time: Jun 15 12:58:49 2012 Quant Results File: 6200WTR.RES

Quant Method : C:\MSDCHEM\1\METHODS\6200WTR.M (RTE Integrator)
 Title : 6200 (SOP: OVL MSV01) Water 06/14/12 HPMS11
 Last Update : Fri Jun 15 12:54:35 2012
 Response via : Initial Calibration
 DataAcq Meth : 6200WTR

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
43) Tert-Amyl-Methyl ether	9.82	73	131644	3.6421	ug/L	94
46) 1,2-Dichloroethane	10.02	62	38838	1.9131	ug/L	97
47) Benzene	10.06	78	195941	1.8382	ug/L	96
48) Trichloroethene	10.76	130	58894	1.9083	ug/L	99
49) Methylcyclohexane	10.85	83	73765	1.8817	ug/L	94
50) 1,2-Dichloropropane	10.97	63	41257	1.9112	ug/L	95
51) 1,4-Dioxane	11.24	88	194	2.5476	ug/L #	16
52) Bromodichloromethane	11.25	83	47192	1.9334	ug/L	97
53) Dibromomethane	11.33	93	16156	1.9593	ug/L	91
54) 2-Chloroethyl Vinyl Ether	11.53	63	7394	1.5971	ug/L	94
55) 4-Methyl-2-Pentanone	11.57	58	4675	1.9375	ug/L	85
56) cis-1,3-Dichloropropene	11.85	75	47972	1.8647	ug/L	100
57) Dimethyl Disulfide	12.10	79	20195	1.6309	ug/L	87
60) Toluene	12.24	91	216732	1.8927	ug/L	95
61) Ethyl Methacrylate	12.33	69	19084	1.7510	ug/L	95
63) trans-1,3-Dichloropropene	12.41	75	34738	1.9433	ug/L	98
64) 1,1,2-Trichloroethane	12.61	97	19459	1.8642	ug/L	98
65) 2-Hexanone	12.55	43	7319	2.1061	ug/L	66
66) 1,3-Dichloropropane	12.89	76	34909	1.9668	ug/L	98
67) Tetrachloroethene	13.02	164	45246	1.8745	ug/L	99
68) Dibromochloromethane	13.26	129	26233	1.9028	ug/L	99
69) 1,2-Dibromoethane	13.49	107	17971	1.9698	ug/L	98
70) 1-Chlorohexane	13.58	91	72112	1.8827	ug/L	90
71) Chlorobenzene	13.97	112	127226	1.8434	ug/L	99
72) 1,1,1,2-Tetrachloroethane	13.99	131	42028	1.8352	ug/L	96
73) Ethylbenzene	13.99	106	73471	1.7684	ug/L	92
74) m-,p-Xylene	14.07	106	177787	3.7703	ug/L	95
75) o-Xylene	14.59	106	81105	1.8542	ug/L	99
76) Styrene	14.63	104	115632	2.0022	ug/L	96
77) Bromoform	15.10	173	13140	1.8154	ug/L	98
78) Isopropylbenzene	14.99	105	218399	1.8161	ug/L	99
80) 1,1,2,2-Tetrachloroethane	15.19	83	16521	1.9581	ug/L	96
82) 1,2,3-Trichloropropane	15.36	110	4786	2.0042	ug/L	94
83) trans-1,4-Dichloro-2-Butene	15.41	53	4326	1.7518	ug/L	74
84) n-Propylbenzene	15.46	91	263535	1.9247	ug/L	99
85) Bromobenzene	15.58	156	43015	1.8748	ug/L	95
86) 1,3,5-Trimethylbenzene	15.63	105	172419	1.8731	ug/L	100
87) 2-Chlorotoluene	15.72	91	157727	1.9125	ug/L	98
88) 4-Chlorotoluene	15.76	91	127333	1.8377	ug/L	98
89) a-Methylstyrene	16.01	118	82569	1.8180	ug/L	98
90) tert-Butylbenzene	16.07	134	40072	1.9051	ug/L	89
91) 1,2,4-Trimethylbenzene	16.11	105	172265	1.8436	ug/L	96
92) sec-Butylbenzene	16.32	105	222501	1.8821	ug/L	99
93) p-Isopropyltoluene	16.46	119	186251	1.8306	ug/L	99
94) 1,3-Dichlorobenzene	16.64	146	91329	1.8801	ug/L	97
95) 1,4-Dichlorobenzene	16.76	146	85329	1.8702	ug/L	94
96) n-Butylbenzene	16.95	91	168974	1.8907	ug/L	96
97) 1,2-Dichlorobenzene	17.23	146	69176	1.8608	ug/L	98
98) 1,2-Dibromo-3-Chloropropan	18.14	75	2655	2.2773	ug/L	57
99) 1,2,4-Trichlorobenzene	19.19	180	41901	1.8697	ug/L	98
100) Hexachlorobutadiene	19.34	225	24231	1.9155	ug/L	97
101) Naphthalene	19.54	128	43722	1.8037	ug/L #	97
102) 1,2,3-Trichlorobenzene	19.82	180	32801	1.9237	ug/L	96

(#) = qualifier out of range (m) = manual integration
 11M84566.D 8260WTR.M Mon Jul 09 11:37:55 2012

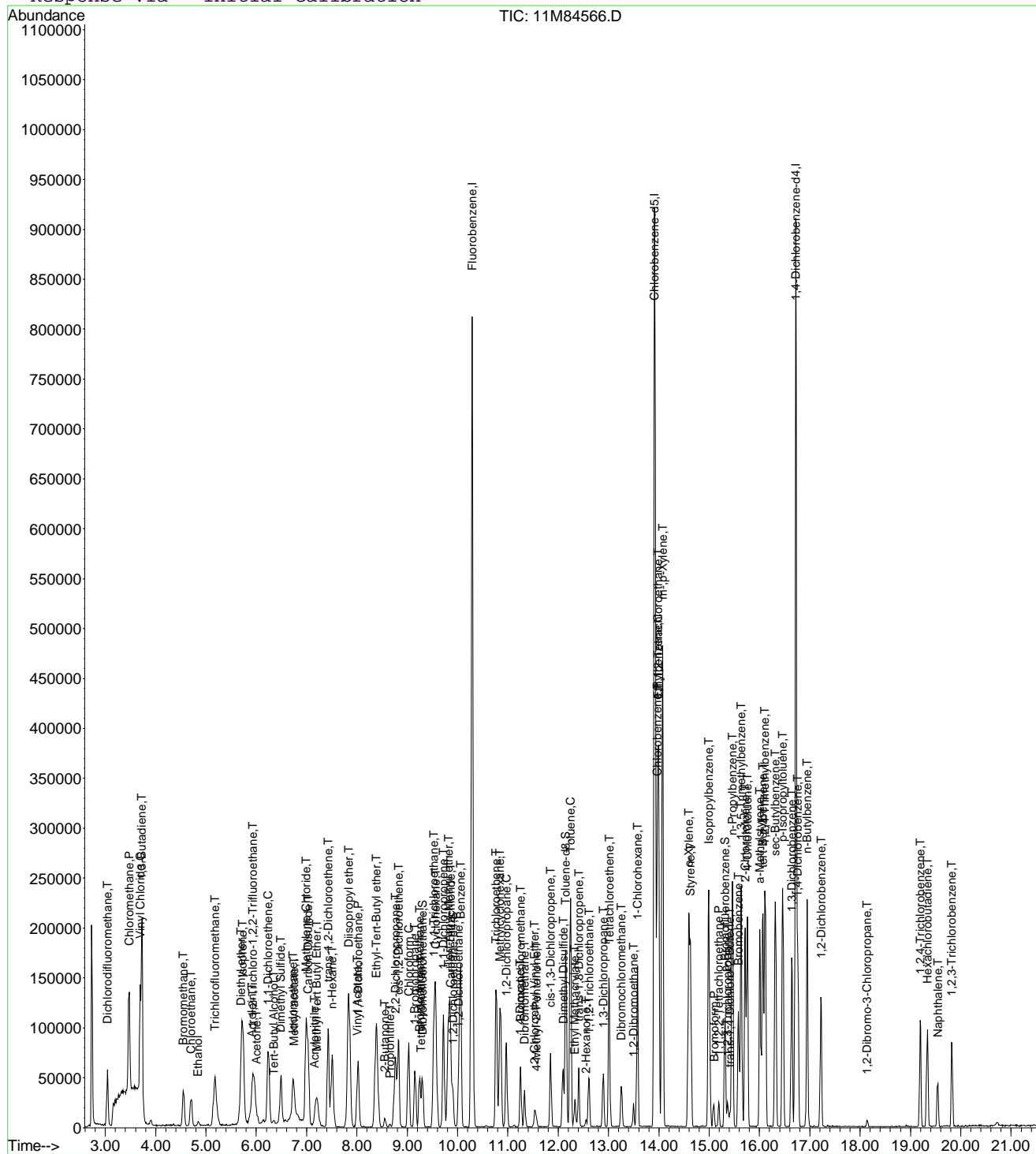
Page 2

Data File : C:\MSDCHEM\1\DATA\061412\11M84566.D
Acq On : 14 Jun 2012 20:26
Sample : WG402310-06 2ug/L STD 6200
Misc : 1,1 STD52281
MS Integration Params: rteint.p
Quant Time: Jun 15 12:58 2012

Vial: 6
Operator: fjb
Inst : HPMS11
Multiplr: 1.00

Quant Results File: 6200WTR.RES

Method : C:\MSDCHEM\1\METHODS\8260WTR.M (RTE Integrator)
Title : 8260B/624 (SOP: OVL MSV01) Water 05/03/12 HPMS11
Last Update : Fri Jul 06 09:41:59 2012
Response via : Initial Calibration



Data File : C:\MSDCHEM\1\DATA\061412\11M84567.D Vial: 7
 Acq On : 14 Jun 2012 21:04 Operator: fjb
 Sample : WG402310-07 5ug/L STD 6200 Inst : HPMS11
 Misc : 1,1 STD52281 Multiplr: 1.00
 MS Integration Params: rteint.p
 Quant Time: Jun 15 13:06:26 2012 Quant Results File: 6200WTR.RES

Quant Method : C:\MSDCHEM\1\METHODS\6200WTR.M (RTE Integrator)
 Title : 6200 (SOP: OVL MSV01) Water 06/14/12 HPMS11
 Last Update : Fri Jun 15 13:04:55 2012
 Response via : Initial Calibration
 DataAcq Meth : 6200WTR

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene	10.29	96	1001134	10.00	ug/L	0.00
58) Chlorobenzene-d5	13.92	117	689610	10.00	ug/L	0.00
79) 1,4-Dichlorobenzene-d4	16.72	152	329329	10.00	ug/L	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
38) Dibromofluoromethane	9.30	111	107012	5.0249	ug/L	0.00
Spiked Amount	10.000	Range 70 - 130	Recovery	=	50.20%#	
44) 1,2-Dichloroethane-d4	9.91	65	77957	4.9966	ug/L	0.00
Spiked Amount	10.000	Range 70 - 130	Recovery	=	50.00%#	
59) Toluene-d8	12.15	98	431024	4.6239	ug/L	0.00
Spiked Amount	10.000	Range 70 - 130	Recovery	=	46.20%#	
81) p-Bromofluorobenzene	15.31	95	122300	4.6807	ug/L	0.00
Spiked Amount	10.000	Range 70 - 130	Recovery	=	46.80%#	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	3.04	85	139045	4.6099	ug/L	94
3) Chloromethane	3.47	50	311405	4.4775	ug/L	98
4) Vinyl Chloride	3.69	62	275015	4.8226	ug/L	99
5) 1,3-Butadiene	3.72	54	184432	4.5753	ug/L	99
6) Bromomethane	4.55	94	72030	4.3633	ug/L	96
7) Chloroethane	4.70	64	90185	4.8287	ug/L	98
8) Ethanol	4.85	45	13635	191.9237	ug/L	92
9) Trichlorofluoromethane	5.18	101	216309	4.6842	ug/L	100
10) Diethyl ether	5.69	59	137882	10.9024	ug/L	94
11) Isoprene	5.73	67	202956	4.8310	ug/L	93
12) Acrolein	5.91	56	10901	10.6248	ug/L	97
13) 1,1,2-Trichloro-1,2,2-Trif	5.94	101	128455	4.6815	ug/L	97
14) Acetone	6.02	43	17925	4.5489	ug/L	83
15) 1,1-Dichloroethene	6.23	61	210212	4.8265	ug/L	97
16) Tert-Butyl Alcohol	6.33	59	22276	31.5631	ug/L	# 81
17) Dimethyl Sulfide	6.49	62	105603	4.9108	ug/L	92
18) Iodomethane	6.73	142	181711	5.2718	ug/L	92
19) Methyl acetate	6.74	43	33564	5.6926	ug/L	94
20) Methylene Chloride	6.99	84	147261	4.6029	ug/L	97
21) Carbon Disulfide	7.03	76	385299	4.8082	ug/L	99
22) Acrylonitrile	7.16	53	13878	5.1488	ug/L	99
23) Methyl Tert Butyl Ether	7.20	73	174061	5.1540	ug/L	92
24) trans-1,2-Dichloroethene	7.42	96	139597	4.8236	ug/L	92
25) n-Hexane	7.51	57	165085	4.8636	ug/L	94
26) Diisopropyl ether	7.84	45	643771	10.3160	ug/L	93
27) Vinyl Acetate	7.99	43	64913	4.9069	ug/L	95
28) 1,1-Dichloroethane	8.02	63	245017	4.9312	ug/L	96
29) Ethyl-Tert-Butyl ether	8.39	59	504789	10.3308	ug/L	96
30) 2-Butanone	8.55	43	31341	4.5635	ug/L	100
31) Propionitrile	8.65	54	9842	10.9807	ug/L	97
32) 2,2-Dichloropropane	8.77	77	203969	5.0069	ug/L	98
33) cis-1,2-Dichloroethene	8.83	96	136847	4.8340	ug/L	95
34) Chloroform	9.03	83	233696	4.9285	ug/L	100
35) 1-Bromopropane	9.16	122	26406	4.9086	ug/L	99
36) Bromochloromethane	9.24	130	60263	5.1672	ug/L	93
37) Tetrahydrofuran	9.27	42	19218	10.9342	ug/L	92
39) 1,1,1-Trichloroethane	9.53	97	221927	4.8679	ug/L	97
40) Cyclohexane	9.56	56	208114	4.8705	ug/L	86
41) 1,1-Dichloropropene	9.72	75	191015	4.8987	ug/L	95
42) Carbon Tetrachloride	9.85	117	208471	4.8247	ug/L	96

(#) = qualifier out of range (m) = manual integration
 11M84567.D 8260WTR.M Mon Jul 09 11:38:09 2012

Data File : C:\MSDCHEM\1\DATA\061412\11M84567.D Vial: 7
 Acq On : 14 Jun 2012 21:04 Operator: fjb
 Sample : WG402310-07 5ug/L STD 6200 Inst : HPMS11
 Misc : 1,1 STD52281 Multiplr: 1.00
 MS Integration Params: rteint.p
 Quant Time: Jun 15 13:06:26 2012 Quant Results File: 6200WTR.RES

Quant Method : C:\MSDCHEM\1\METHODS\6200WTR.M (RTE Integrator)
 Title : 6200 (SOP: OVL MSV01) Water 06/14/12 HPMS11
 Last Update : Fri Jun 15 13:04:55 2012
 Response via : Initial Calibration
 DataAcq Meth : 6200WTR

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
43) Tert-Amyl-Methyl ether	9.82	73	398726	10.6702	ug/L	95
46) 1,2-Dichloroethane	10.02	62	104029	4.9566	ug/L	94
47) Benzene	10.06	78	531852	4.8261	ug/L	97
48) Trichloroethene	10.76	130	159676	5.0044	ug/L	99
49) Methylcyclohexane	10.85	83	200490	4.9471	ug/L	91
50) 1,2-Dichloropropane	10.97	63	112237	5.0289	ug/L	92
51) 1,4-Dioxane	11.24	88	1395	17.7193	ug/L	90
52) Bromodichloromethane	11.25	83	132029	5.2321	ug/L	98
53) Dibromomethane	11.33	93	44485	5.2182	ug/L	94
54) 2-Chloroethyl Vinyl Ether	11.53	63	23593	4.9291	ug/L	97
55) 4-Methyl-2-Pentanone	11.56	58	11949	4.7899	ug/L	85
56) cis-1,3-Dichloropropene	11.85	75	139154	5.2320	ug/L	99
57) Dimethyl Disulfide	12.10	79	64731	5.0563	ug/L	95
60) Toluene	12.24	91	591239	4.8382	ug/L	96
61) Ethyl Methacrylate	12.34	69	55262	4.7513	ug/L	93
62) Paraldehyde	12.37	89	1663	10.4386	ug/L #	1
63) trans-1,3-Dichloropropene	12.41	75	103816	5.4422	ug/L	99
64) 1,1,2-Trichloroethane	12.61	97	56734	5.0931	ug/L	98
65) 2-Hexanone	12.55	43	20912	5.6388	ug/L	69
66) 1,3-Dichloropropane	12.89	76	94159	4.9710	ug/L	94
67) Tetrachloroethene	13.01	164	119206	4.6277	ug/L	94
68) Dibromochloromethane	13.26	129	74903	5.0910	ug/L	99
69) 1,2-Dibromoethane	13.49	107	51403	5.2795	ug/L	99
70) 1-Chlorohexane	13.58	91	198916	4.8665	ug/L	88
71) Chlorobenzene	13.96	112	354771	4.8169	ug/L	99
72) 1,1,1,2-Tetrachloroethane	13.99	131	116937	4.7847	ug/L	98
73) Ethylbenzene	13.99	106	204611	4.6149	ug/L	91
74) m-,p-Xylene	14.07	106	500475	9.9454	ug/L	94
75) o-Xylene	14.60	106	227600	4.8759	ug/L	95
76) Styrene	14.63	104	324472	5.2646	ug/L	95
77) Bromoform	15.09	173	39469	4.8192	ug/L	100
78) Isopropylbenzene	14.99	105	616760	4.8060	ug/L	100
80) 1,1,2,2-Tetrachloroethane	15.19	83	49665	5.2947	ug/L	96
82) 1,2,3-Trichloropropane	15.38	110	15228	5.7357	ug/L	88
83) trans-1,4-Dichloro-2-Butene	15.41	53	15858	5.7760	ug/L	52
84) n-Propylbenzene	15.46	91	738237	4.8495	ug/L	99
85) Bromobenzene	15.58	156	124834	4.8938	ug/L	100
86) 1,3,5-Trimethylbenzene	15.63	105	494348	4.8305	ug/L	100
87) 2-Chlorotoluene	15.72	91	452454	4.9347	ug/L	99
88) 4-Chlorotoluene	15.76	91	371197	4.8185	ug/L	97
89) a-Methylstyrene	16.01	118	245179	4.8556	ug/L	98
90) tert-Butylbenzene	16.07	134	112576	4.8139	ug/L	97
91) 1,2,4-Trimethylbenzene	16.11	105	507862	4.8889	ug/L	97
92) sec-Butylbenzene	16.32	105	634029	4.8239	ug/L	100
93) p-Isopropyltoluene	16.46	119	551939	4.8794	ug/L	98
94) 1,3-Dichlorobenzene	16.65	146	265154	4.9098	ug/L	99
95) 1,4-Dichlorobenzene	16.76	146	253642	5.0003	ug/L	98
96) n-Butylbenzene	16.95	91	487184	4.9033	ug/L	98
97) 1,2-Dichlorobenzene	17.23	146	206870	5.0052	ug/L	100
98) 1,2-Dibromo-3-Chloropropane	18.14	75	6432	4.9623	ug/L	95
99) 1,2,4-Trichlorobenzene	19.20	180	135170	5.4252	ug/L	98
100) Hexachlorobutadiene	19.34	225	67675	4.8118	ug/L	95
101) Naphthalene	19.54	128	141043	5.2336	ug/L	98
102) 1,2,3-Trichlorobenzene	19.82	180	99152	5.2304	ug/L	100

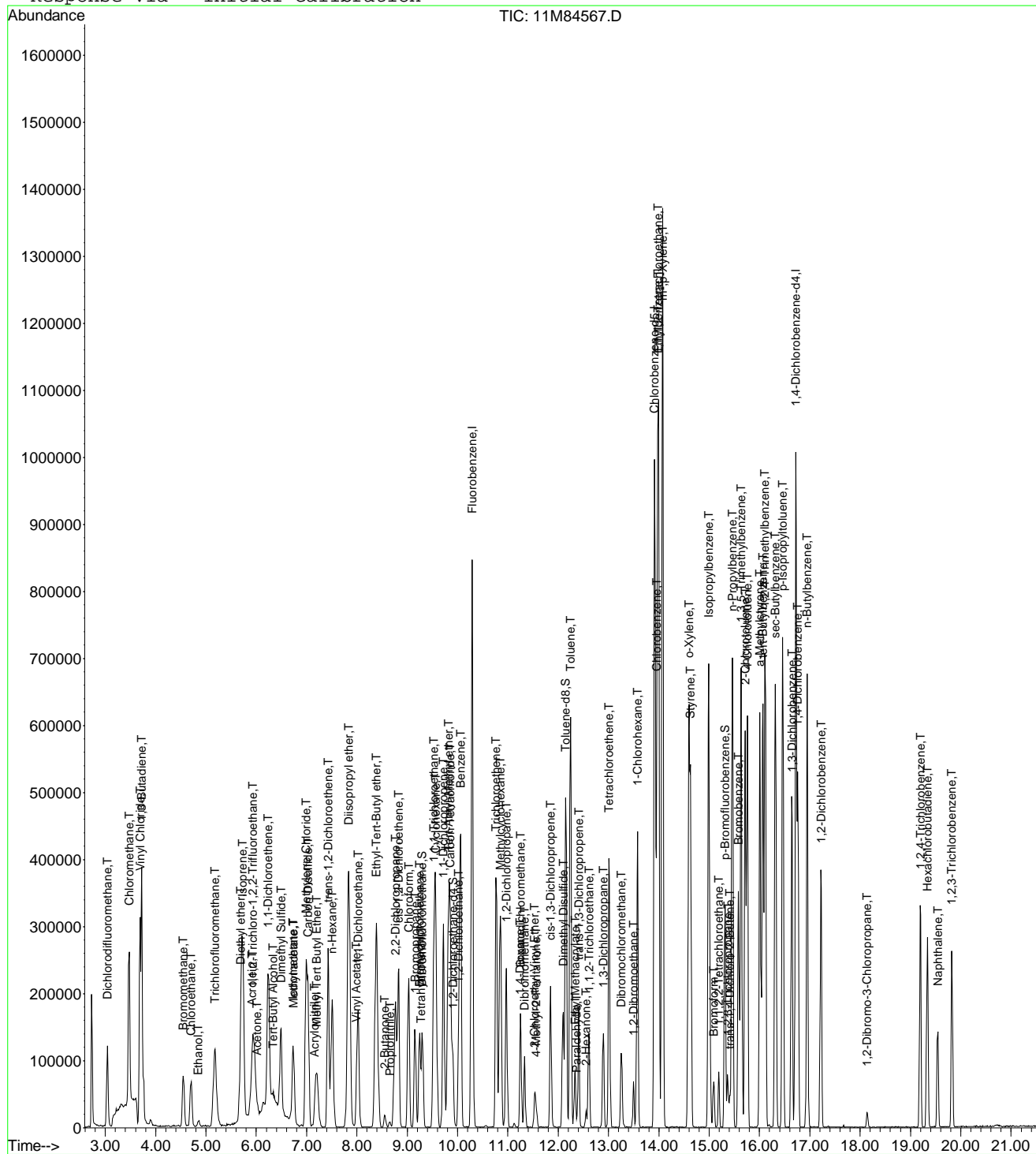
(#) = qualifier out of range (m) = manual integration
 11M84567.D 8260WTR.M Mon Jul 09 11:38:09 2012

Data File : C:\MSDCHEM\1\DATA\061412\11M84567.D
Acq On : 14 Jun 2012 21:04
Sample : WG402310-07 5ug/L STD 6200
Misc : 1,1 STD52281
MS Integration Params: rteint.p
Quant Time: Jun 15 13:06 2012

Vial: 7
Operator: fjb
Inst : HPMS11
Multiplr: 1.00

Quant Results File: 6200WTR.RES

Method : C:\MSDCHEM\1\METHODS\8260WTR.M (RTE Integrator)
Title : 8260B/624 (SOP: OVL MSV01) Water 05/03/12 HPMS11
Last Update : Fri Jul 06 09:41:59 2012
Response via : Initial Calibration



Data File : C:\MSDCHEM\1\DATA\061412\11M84568.D Vial: 8
 Acq On : 14 Jun 2012 21:42 Operator: fjb
 Sample : WG402310-08 10ug/L STD 6200 Inst : HPMS11
 Misc : 1,1 STD52281 Multiplr: 1.00
 MS Integration Params: rteint.p
 Quant Time: Jun 15 13:06:40 2012 Quant Results File: 6200WTR.RES

Quant Method : C:\MSDCHEM\1\METHODS\6200WTR.M (RTE Integrator)
 Title : 6200 (SOP: OVL MSV01) Water 06/14/12 HPMS11
 Last Update : Fri Jun 15 13:04:55 2012
 Response via : Initial Calibration
 DataAcq Meth : 6200WTR

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene	10.29	96	1033639	10.00	ug/L	0.00
58) Chlorobenzene-d5	13.92	117	702351	10.00	ug/L	0.00
79) 1,4-Dichlorobenzene-d4	16.72	152	363384	10.00	ug/L	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
38) Dibromofluoromethane	9.30	111	238966	10.8682	ug/L	0.00
Spiked Amount	10.000	Range 70 - 130	Recovery	=	108.70%	
44) 1,2-Dichloroethane-d4	9.91	65	170739	10.5993	ug/L	0.00
Spiked Amount	10.000	Range 70 - 130	Recovery	=	106.00%	
59) Toluene-d8	12.15	98	972334	10.2418	ug/L	0.00
Spiked Amount	10.000	Range 70 - 130	Recovery	=	102.40%	
81) p-Bromofluorobenzene	15.31	95	278340	9.6544	ug/L	0.00
Spiked Amount	10.000	Range 70 - 130	Recovery	=	96.50%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	3.04	85	329684	10.5866	ug/L	95
3) Chloromethane	3.47	50	725775	10.1073	ug/L	98
4) Vinyl Chloride	3.68	62	807279	13.7110	ug/L	99
5) 1,3-Butadiene	3.72	54	372855	10.2317	ug/L	98
6) Bromomethane	4.55	94	157951	9.2671	ug/L	100
7) Chloroethane	4.69	64	202306	10.4913	ug/L	96
8) Ethanol	4.86	45	36351	495.5793	ug/L	96
9) Trichlorofluoromethane	5.17	101	512343	10.7460	ug/L	99
10) Diethyl ether	5.70	59	246752	18.8973	ug/L	93
11) Isoprene	5.73	67	440439	10.1542	ug/L	93
12) Acrolein	5.91	56	22625	21.3582	ug/L	92
13) 1,1,2-Trichloro-1,2,2-Trif	5.94	101	295175	10.4192	ug/L	98
14) Acetone	6.02	43	35082	8.6229	ug/L	90
15) 1,1-Dichloroethene	6.23	61	454781	10.1135	ug/L	97
16) Tert-Butyl Alcohol	6.35	59	24387	33.4675	ug/L #	82
17) Dimethyl Sulfide	6.48	62	216887	9.7687	ug/L	94
18) Iodomethane	6.73	142	410804	11.5435	ug/L	93
19) Methyl acetate	6.75	43	59676	9.8030	ug/L	96
20) Methylene Chloride	6.99	84	321942	9.7464	ug/L	99
21) Carbon Disulfide	7.03	76	802881	9.7042	ug/L	100
22) Acrylonitrile	7.17	53	28099	10.0969	ug/L	95
23) Methyl Tert Butyl Ether	7.21	73	358651	10.2859	ug/L	93
24) trans-1,2-Dichloroethene	7.42	96	299430	10.0211	ug/L	92
25) n-Hexane	7.51	57	345954	9.8717	ug/L	95
26) Diisopropyl ether	7.84	45	1373604	21.3189	ug/L	93
27) Vinyl Acetate	7.99	43	144377	9.0947	ug/L	96
28) 1,1-Dichloroethane	8.02	63	518243	10.1022	ug/L	96
29) Ethyl-Tert-Butyl ether	8.39	59	1087163	21.5497	ug/L	96
30) 2-Butanone	8.55	43	79734	11.2447	ug/L	100
31) Propionitrile	8.65	54	17578	18.9950	ug/L	96
32) 2,2-Dichloropropane	8.77	77	424345	10.0889	ug/L	99
33) cis-1,2-Dichloroethene	8.83	96	295190	10.0994	ug/L	94
34) Chloroform	9.03	83	492784	10.0656	ug/L	100
35) 1-Bromopropane	9.16	122	55289	9.9545	ug/L	97
36) Bromochloromethane	9.24	130	125111	10.3902	ug/L	95
37) Tetrahydrofuran	9.27	42	37898	20.8843	ug/L	95
39) 1,1,1-Trichloroethane	9.53	97	482444	10.2496	ug/L	97
40) Cyclohexane	9.56	56	445714	10.1030	ug/L	86
41) 1,1-Dichloropropene	9.72	75	420032	10.4332	ug/L	96
42) Carbon Tetrachloride	9.85	117	470055	10.5365	ug/L	98

(#) = qualifier out of range (m) = manual integration
 11M84568.D 8260WTR.M Mon Jul 09 11:38:24 2012

Data File : C:\MSDCHEM\1\DATA\061412\11M84568.D Vial: 8
 Acq On : 14 Jun 2012 21:42 Operator: fjb
 Sample : WG402310-08 10ug/L STD 6200 Inst : HPMS11
 Misc : 1,1 STD52281 Multiplr: 1.00
 MS Integration Params: rteint.p
 Quant Time: Jun 15 13:06:40 2012 Quant Results File: 6200WTR.RES

Quant Method : C:\MSDCHEM\1\METHODS\6200WTR.M (RTE Integrator)
 Title : 6200 (SOP: OVL MSV01) Water 06/14/12 HPMS11
 Last Update : Fri Jun 15 13:04:55 2012
 Response via : Initial Calibration
 DataAcq Meth : 6200WTR

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
43) Tert-Amyl-Methyl ether	9.82	73	829807	21.5078	ug/L	94
46) 1,2-Dichloroethane	10.02	62	221046	10.2009	ug/L	95
47) Benzene	10.06	78	1137287	9.9954	ug/L	98
48) Trichloroethene	10.76	130	340695	10.3420	ug/L	100
49) Methylcyclohexane	10.85	83	430414	10.2864	ug/L	90
50) 1,2-Dichloropropane	10.97	63	237187	10.2933	ug/L	92
51) 1,4-Dioxane	11.24	88	2952	36.3172	ug/L	100
52) Bromodichloromethane	11.25	83	276461	10.6111	ug/L	100
53) Dibromomethane	11.33	93	92226	10.4780	ug/L	94
54) 2-Chloroethyl Vinyl Ether	11.53	63	53639	10.8539	ug/L	97
55) 4-Methyl-2-Pentanone	11.56	58	27383	10.6316	ug/L	94
56) cis-1,3-Dichloropropene	11.85	75	296880	10.8113	ug/L	99
57) Dimethyl Disulfide	12.10	79	146031	11.0481	ug/L	97
60) Toluene	12.24	91	1280385	10.2876	ug/L	96
61) Ethyl Methacrylate	12.34	69	128447	10.8432	ug/L	96
62) Paraldehyde	12.37	89	2625	16.1781	ug/L	2
63) trans-1,3-Dichloropropene	12.41	75	233677	12.0276	ug/L	96
64) 1,1,2-Trichloroethane	12.61	97	117254	10.3351	ug/L	100
65) 2-Hexanone	12.55	43	44635	11.8173	ug/L #	68
66) 1,3-Dichloropropane	12.89	76	205044	10.6286	ug/L	97
67) Tetrachloroethene	13.01	164	262149	9.9922	ug/L	95
68) Dibromochloromethane	13.26	129	161602	10.7845	ug/L	100
69) 1,2-Dibromoethane	13.49	107	109168	11.0091	ug/L	98
70) 1-Chlorohexane	13.58	91	424215	10.1902	ug/L	90
71) Chlorobenzene	13.97	112	772283	10.2954	ug/L	100
72) 1,1,1,2-Tetrachloroethane	13.99	131	255315	10.2572	ug/L	99
73) Ethylbenzene	13.99	106	462260	10.2368	ug/L	95
74) m-,p-Xylene	14.07	106	1152385	22.4848	ug/L	95
75) o-Xylene	14.60	106	496765	10.4492	ug/L	93
76) Styrene	14.63	104	735927	11.7239	ug/L	94
77) Bromoform	15.09	173	85386	9.8769	ug/L	97
78) Isopropylbenzene	14.99	105	1389287	10.6294	ug/L	99
80) 1,1,2,2-Tetrachloroethane	15.19	83	106257	10.2662	ug/L	100
82) 1,2,3-Trichloropropane	15.36	110	31219	10.6568	ug/L	75
83) trans-1,4-Dichloro-2-Butene	15.41	53	27947	9.2252	ug/L	82
84) n-Propylbenzene	15.46	91	1692310	10.0750	ug/L	98
85) Bromobenzene	15.58	156	274474	9.7517	ug/L	100
86) 1,3,5-Trimethylbenzene	15.63	105	1157934	10.2543	ug/L	100
87) 2-Chlorotoluene	15.72	91	1022084	10.1027	ug/L	99
88) 4-Chlorotoluene	15.76	91	875094	10.2951	ug/L	100
89) a-Methylstyrene	16.01	118	577018	10.3566	ug/L	98
90) tert-Butylbenzene	16.07	134	264544	10.2521	ug/L	96
91) 1,2,4-Trimethylbenzene	16.11	105	1218550	10.6309	ug/L	99
92) sec-Butylbenzene	16.32	105	1510779	10.4173	ug/L	99
93) p-Isopropyltoluene	16.46	119	1336840	10.7106	ug/L	100
94) 1,3-Dichlorobenzene	16.65	146	607748	10.1989	ug/L	100
95) 1,4-Dichlorobenzene	16.76	146	576477	10.2995	ug/L	99
96) n-Butylbenzene	16.95	91	1185360	10.8120	ug/L	97
97) 1,2-Dichlorobenzene	17.23	146	458452	10.0527	ug/L	100
98) 1,2-Dibromo-3-Chloropropane	18.14	75	14340	10.0265	ug/L	89
99) 1,2,4-Trichlorobenzene	19.20	180	292279	10.6315	ug/L	99
100) Hexachlorobutadiene	19.34	225	152949	9.8558	ug/L	95
101) Naphthalene	19.54	128	318966	10.7265	ug/L #	98
102) 1,2,3-Trichlorobenzene	19.82	180	214149	10.2379	ug/L	99

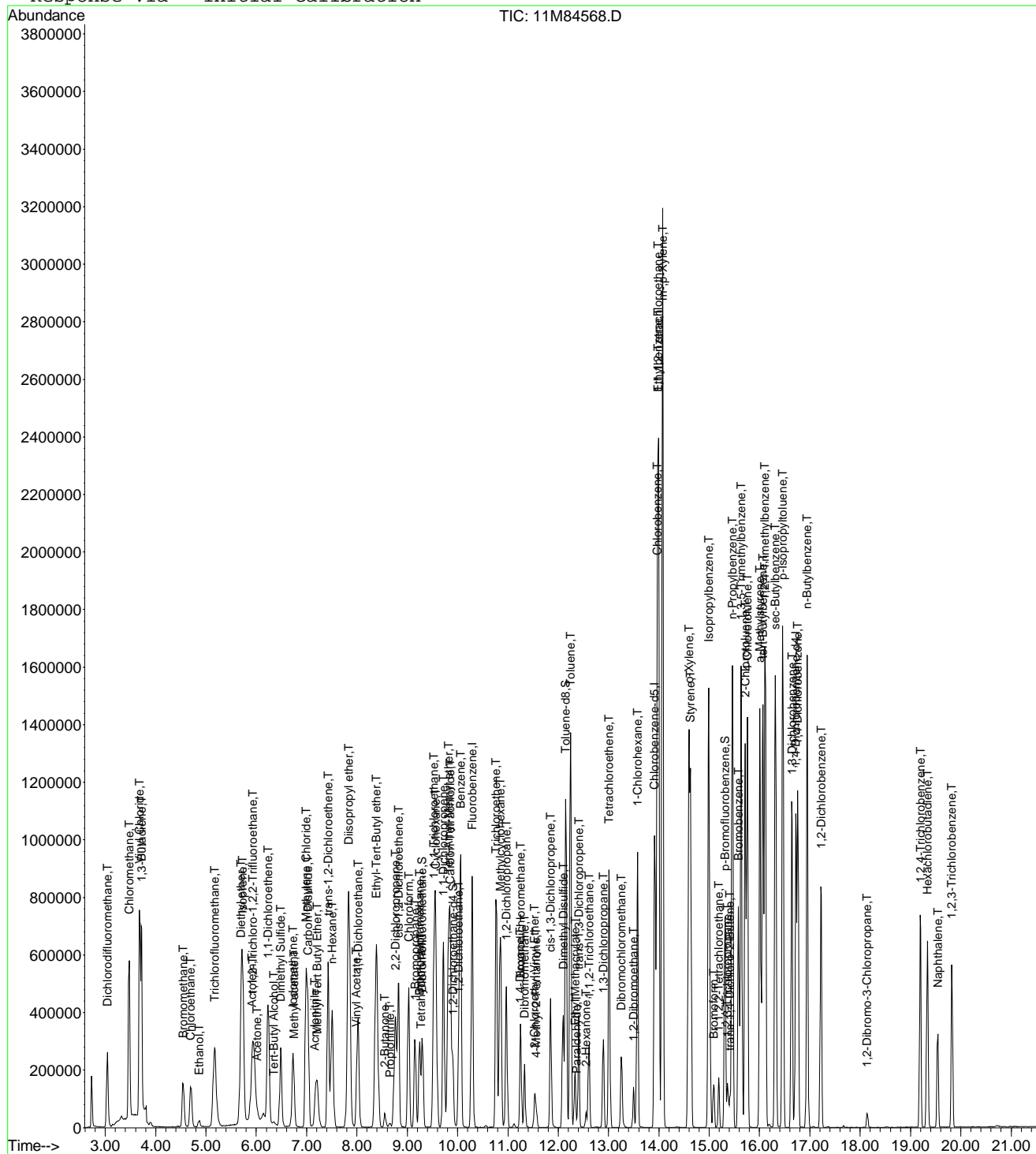
(#) = qualifier out of range (m) = manual integration
 11M84568.D 8260WTR.M Mon Jul 09 11:38:24 2012

Data File : C:\MSDCHEM\1\DATA\061412\11M84568.D
Acq On : 14 Jun 2012 21:42
Sample : WG402310-08 10ug/L STD 6200
Misc : 1,1 STD52281
MS Integration Params: rteint.p
Quant Time: Jun 15 13:06 2012

Vial: 8
Operator: fjb
Inst : HPMS11
Multiplr: 1.00

Quant Results File: 6200WTR.RES

Method : C:\MSDCHEM\1\METHODS\8260WTR.M (RTE Integrator)
Title : 8260B/624 (SOP: OVL MSV01) Water 05/03/12 HPMS11
Last Update : Fri Jul 06 09:41:59 2012
Response via : Initial Calibration



Data File : C:\MSDCHEM\1\DATA\061412\11M84569.D Vial: 9
 Acq On : 14 Jun 2012 22:20 Operator: fjb
 Sample : WG402310-09 20ug/L STD 6200 Inst : HPMS11
 Misc : 1,1 STD52281 Multiplr: 1.00
 MS Integration Params: rteint.p
 Quant Time: Jun 15 13:07:16 2012 Quant Results File: 6200WTR.RES

Quant Method : C:\MSDCHEM\1\METHODS\6200WTR.M (RTE Integrator)
 Title : 6200 (SOP: OVL MSV01) Water 06/14/12 HPMS11
 Last Update : Fri Jun 15 13:04:55 2012
 Response via : Initial Calibration
 DataAcq Meth : 6200WTR

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene	10.29	96	1075303	10.00	ug/L	0.00
58) Chlorobenzene-d5	13.92	117	735546	10.00	ug/L	0.00
79) 1,4-Dichlorobenzene-d4	16.72	152	390347	10.00	ug/L	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
38) Dibromofluoromethane	9.30	111	523624	22.8918	ug/L	0.00
Spiked Amount	10.000	Range 70 - 130	Recovery	=	228.90%#	
44) 1,2-Dichloroethane-d4	9.91	65	364800	21.7689	ug/L	0.00
Spiked Amount	10.000	Range 70 - 130	Recovery	=	217.70%#	
59) Toluene-d8	12.15	98	2232408	22.4532	ug/L	0.00
Spiked Amount	10.000	Range 70 - 130	Recovery	=	224.50%#	
81) p-Bromofluorobenzene	15.31	95	648624	20.9439	ug/L	0.00
Spiked Amount	10.000	Range 70 - 130	Recovery	=	209.40%#	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	3.04	85	669116	20.6536	ug/L	95
3) Chloromethane	3.47	50	1448585	19.3917	ug/L	100
4) Vinyl Chloride	3.68	62	1071629	17.4956	ug/L	100
5) 1,3-Butadiene	3.71	54	655500	19.9577	ug/L	99
6) Bromomethane	4.54	94	329481	18.5819	ug/L	100
7) Chloroethane	4.69	64	419107	20.8922	ug/L	97
8) Ethanol	4.89	45	75928	995.0314	ug/L	98
9) Trichlorofluoromethane	5.17	101	1089558	21.9671	ug/L	99
10) Diethyl ether	5.70	59	571869	42.0992	ug/L	97
11) Isoprene	5.72	67	1001424	22.1930	ug/L	94
12) Acrolein	5.92	56	46844	42.5078	ug/L	98
13) 1,1,2-Trichloro-1,2,2-Trif	5.94	101	621805	21.0982	ug/L	99
14) Acetone	6.02	43	85379	20.1724	ug/L	85
15) 1,1-Dichloroethene	6.22	61	1011089	21.6136	ug/L	98
16) Tert-Butyl Alcohol	6.36	59	50318	66.3784	ug/L	90
17) Dimethyl Sulfide	6.48	62	471846	20.4287	ug/L	94
18) Iodomethane	6.73	142	845633	22.8413	ug/L	93
19) Methyl acetate	6.75	43	130643	20.6293	ug/L	98
20) Methylene Chloride	6.99	84	711634	20.7091	ug/L	96
21) Carbon Disulfide	7.02	76	1819809	21.1432	ug/L	100
22) Acrylonitrile	7.17	53	62666	21.6456	ug/L	99
23) Methyl Tert Butyl Ether	7.21	73	772953	21.3089	ug/L	94
24) trans-1,2-Dichloroethene	7.42	96	682388	21.9528	ug/L	90
25) n-Hexane	7.51	57	760941	20.8720	ug/L	96
26) Diisopropyl ether	7.84	45	2992646	44.6474	ug/L	94
27) Vinyl Acetate	7.99	43	371943	20.6341	ug/L	97
28) 1,1-Dichloroethane	8.02	63	1165755	21.8438	ug/L	97
29) Ethyl-Tert-Butyl ether	8.39	59	2366847	45.0977	ug/L	96
30) 2-Butanone	8.55	43	158496	21.4862	ug/L	99
31) Propionitrile	8.65	54	37965	39.4359	ug/L	99
32) 2,2-Dichloropropane	8.77	77	924758	21.1345	ug/L	100
33) cis-1,2-Dichloroethene	8.83	96	648982	21.3435	ug/L	95
34) Chloroform	9.03	83	1079180	21.1893	ug/L	100
35) 1-Bromopropane	9.15	122	122519	21.2042	ug/L	99
36) Bromochloromethane	9.24	130	271321	21.6595	ug/L	96
37) Tetrahydrofuran	9.27	42	84120	44.5595	ug/L	99
39) 1,1,1-Trichloroethane	9.53	97	1101122	22.4871	ug/L	99
40) Cyclohexane	9.56	56	996528	21.7131	ug/L	86
41) 1,1-Dichloropropene	9.72	75	951895	22.7281	ug/L	96
42) Carbon Tetrachloride	9.85	117	1076920	23.2043	ug/L	99

(#) = qualifier out of range (m) = manual integration
 11M84569.D 8260WTR.M Mon Jul 09 11:38:41 2012

Data File : C:\MSDCHEM\1\DATA\061412\11M84569.D Vial: 9
 Acq On : 14 Jun 2012 22:20 Operator: fjb
 Sample : WG402310-09 20ug/L STD 6200 Inst : HPMS11
 Misc : 1,1 STD52281 Multiplr: 1.00
 MS Integration Params: rteint.p
 Quant Time: Jun 15 13:07:16 2012 Quant Results File: 6200WTR.RES

Quant Method : C:\MSDCHEM\1\METHODS\6200WTR.M (RTE Integrator)
 Title : 6200 (SOP: OVL MSV01) Water 06/14/12 HPMS11
 Last Update : Fri Jun 15 13:04:55 2012
 Response via : Initial Calibration
 DataAcq Meth : 6200WTR

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
43) Tert-Amyl-Methyl ether	9.82	73	1834442	45.7048	ug/L	93
46) 1,2-Dichloroethane	10.02	62	491120	21.7862	ug/L	96
47) Benzene	10.06	78	2541821	21.4740	ug/L	99
48) Trichloroethene	10.76	130	750273	21.8925	ug/L	99
49) Methylcyclohexane	10.85	83	950350	21.8323	ug/L	90
50) 1,2-Dichloropropane	10.97	63	510075	21.2782	ug/L	91
51) 1,4-Dioxane	11.24	88	7708	91.1540	ug/L	88
52) Bromodichloromethane	11.25	83	611894	22.5758	ug/L	100
53) Dibromomethane	11.33	93	203388	22.2121	ug/L	94
54) 2-Chloroethyl Vinyl Ether	11.53	63	119735	23.2897	ug/L	99
55) 4-Methyl-2-Pentanone	11.56	58	59517	22.2124	ug/L	96
56) cis-1,3-Dichloropropene	11.85	75	648291	22.6937	ug/L	100
57) Dimethyl Disulfide	12.10	79	329208	23.9415	ug/L	95
60) Toluene	12.24	91	2980336	22.8657	ug/L	96
61) Ethyl Methacrylate	12.34	69	294368	23.7283	ug/L	100
62) Paraldehyde	12.37	89	6703	39.4469	ug/L	1
63) trans-1,3-Dichloropropene	12.41	75	529462	26.0220	ug/L	96
64) 1,1,2-Trichloroethane	12.61	97	253995	21.3774	ug/L	98
65) 2-Hexanone	12.55	43	93584	23.6587	ug/L #	32
66) 1,3-Dichloropropane	12.89	76	444383	21.9953	ug/L	98
67) Tetrachloroethene	13.01	164	582636	21.2058	ug/L	96
68) Dibromochloromethane	13.26	129	354491	22.5893	ug/L	99
69) 1,2-Dibromoethane	13.49	107	235778	22.7041	ug/L	98
70) 1-Chlorohexane	13.58	91	963595	22.1023	ug/L	90
71) Chlorobenzene	13.97	112	1759432	22.3967	ug/L	99
72) 1,1,1,2-Tetrachloroethane	13.99	131	603036	23.1334	ug/L	99
73) Ethylbenzene	13.99	106	1109986	23.4715	ug/L	96
74) m-,p-Xylene	14.07	106	2806849	52.2943	ug/L	96
75) o-Xylene	14.60	106	1169862	23.4969	ug/L	96
76) Styrene	14.63	104	1800228	27.3847	ug/L	95
77) Bromoform	15.09	173	197570	20.7028	ug/L	98
78) Isopropylbenzene	14.99	105	3341269	24.4102	ug/L	100
80) 1,1,2,2-Tetrachloroethane	15.19	83	239699	21.5592	ug/L	100
82) 1,2,3-Trichloropropane	15.36	110	68090	21.6375	ug/L	76
83) trans-1,4-Dichloro-2-Buten	15.41	53	64052	19.6829	ug/L #	18
84) n-Propylbenzene	15.46	91	4004984	22.1964	ug/L	99
85) Bromobenzene	15.58	156	629050	20.8055	ug/L	99
86) 1,3,5-Trimethylbenzene	15.63	105	2762842	22.7768	ug/L	99
87) 2-Chlorotoluene	15.72	91	2375137	21.8552	ug/L	98
88) 4-Chlorotoluene	15.76	91	2075385	22.7294	ug/L	100
89) a-Methylstyrene	16.01	118	1352766	22.6030	ug/L	99
90) tert-Butylbenzene	16.07	134	631400	22.7790	ug/L	96
91) 1,2,4-Trimethylbenzene	16.11	105	2909407	23.6290	ug/L	98
92) sec-Butylbenzene	16.32	105	3612842	23.1909	ug/L	100
93) p-Isopropyltoluene	16.46	119	3194562	23.8266	ug/L	100
94) 1,3-Dichlorobenzene	16.65	146	1377953	21.5267	ug/L	99
95) 1,4-Dichlorobenzene	16.76	146	1282225	21.3263	ug/L	99
96) n-Butylbenzene	16.95	91	2745329	23.3113	ug/L	98
97) 1,2-Dichlorobenzene	17.23	146	1019423	20.8094	ug/L	100
98) 1,2-Dibromo-3-Chloropropan	18.14	75	33627	21.8879	ug/L	92
99) 1,2,4-Trichlorobenzene	19.20	180	680385	23.0391	ug/L	98
100) Hexachlorobutadiene	19.34	225	349243	20.9502	ug/L	95
101) Naphthalene	19.54	128	763372	23.8982	ug/L	99
102) 1,2,3-Trichlorobenzene	19.82	180	510363	22.7137	ug/L	98

(#) = qualifier out of range (m) = manual integration
 11M84569.D 8260WTR.M Mon Jul 09 11:38:41 2012

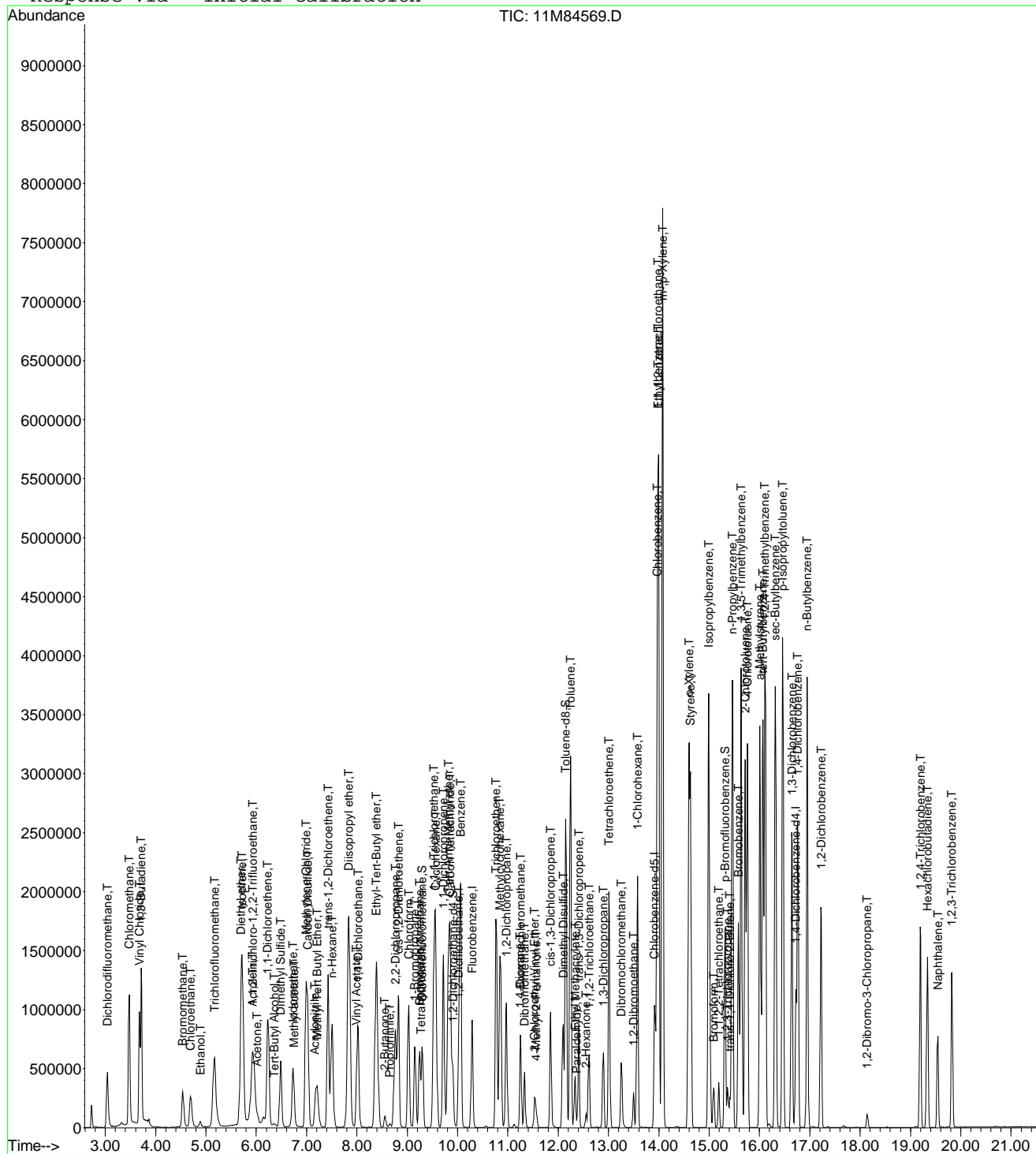
Page 2

Data File : C:\MSDCHEM\1\DATA\061412\11M84569.D
Acq On : 14 Jun 2012 22:20
Sample : WG402310-09 20ug/L STD 6200
Misc : 1,1 STD52281
MS Integration Params: rteint.p
Quant Time: Jun 15 13:07 2012

Vial: 9
Operator: fjb
Inst : HPMS11
Multiplr: 1.00

Quant Results File: 6200WTR.RES

Method : C:\MSDCHEM\1\METHODS\8260WTR.M (RTE Integrator)
Title : 8260B/624 (SOP: OVL MSV01) Water 05/03/12 HPMS11
Last Update : Fri Jul 06 09:41:59 2012
Response via : Initial Calibration



Data File : C:\MSDCHEM\1\DATA\061412\11M84570.D Vial: 10
 Acq On : 14 Jun 2012 22:58 Operator: fjb
 Sample : WG402310-10 50ug/L STD 6200 Inst : HPMS11
 Misc : 1,1 STD52281 Multiplr: 1.00
 MS Integration Params: rteint.p
 Quant Time: Jun 15 13:08:18 2012 Quant Results File: 6200WTR.RES

Quant Method : C:\MSDCHEM\1\METHODS\6200WTR.M (RTE Integrator)
 Title : 6200 (SOP: OVL MSV01) Water 06/14/12 HPMS11
 Last Update : Fri Jun 15 13:04:55 2012
 Response via : Initial Calibration
 DataAcq Meth : 6200WTR

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene	10.29	96	1159249	10.00	ug/L	0.00
58) Chlorobenzene-d5	13.92	117	780420	10.00	ug/L	0.00
79) 1,4-Dichlorobenzene-d4	16.72	152	404013	10.00	ug/L	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
38) Dibromofluoromethane	9.30	111	1485197	60.2280	ug/L	0.00
Spiked Amount	10.000	Range 70 - 130	Recovery	=	602.30%#	
44) 1,2-Dichloroethane-d4	9.91	65	987201	54.6438	ug/L	0.00
Spiked Amount	10.000	Range 70 - 130	Recovery	=	546.40%#	
59) Toluene-d8	12.15	98	6667600	63.2057	ug/L	0.00
Spiked Amount	10.000	Range 70 - 130	Recovery	=	632.10%#	
81) p-Bromofluorobenzene	15.31	95	1894484	59.1031	ug/L	0.00
Spiked Amount	10.000	Range 70 - 130	Recovery	=	591.00%#	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	3.46	50	79176	0.9831	ug/L	98
5) 1,3-Butadiene	3.71	54	1137888	Below Cal		96
6) Bromomethane	4.52	94	136846	7.1589	ug/L	99
8) Ethanol	4.93	45	157122	1909.9674	ug/L	99
10) Diethyl ether	5.70	59	1561848	106.6522	ug/L	94
11) Isoprene	5.72	67	3188195	65.5385	ug/L	91
12) Acrolein	5.92	56	125207	105.3895	ug/L	97
14) Acetone	6.03	43	169303	37.1043	ug/L	91
15) 1,1-Dichloroethene	6.22	61	2952647	58.5468	ug/L	97
16) Tert-Butyl Alcohol	6.38	59	134614	164.7205	ug/L	91
17) Dimethyl Sulfide	6.48	62	1372577	55.1227	ug/L	96
18) Iodomethane	6.72	142	1531650	38.3754	ug/L	92
19) Methyl acetate	6.75	43	361905	53.0086	ug/L	99
20) Methylene Chloride	6.99	84	1915778	51.7136	ug/L	94
21) Carbon Disulfide	7.02	76	5332688	57.4705	ug/L	100
22) Acrylonitrile	7.17	53	175335	56.1771	ug/L	98
23) Methyl Tert Butyl Ether	7.21	73	2149333	54.9623	ug/L	93
24) trans-1,2-Dichloroethene	7.42	96	1992441	59.4564	ug/L	90
25) n-Hexane	7.50	57	2243774	57.0883	ug/L	96
26) Diisopropyl ether	7.84	45	8495305	117.5639	ug/L	94
27) Vinyl Acetate	7.99	43	1013695	50.2100	ug/L	97
28) 1,1-Dichloroethane	8.02	63	3362020	58.4353	ug/L	97
29) Ethyl-Tert-Butyl ether	8.39	59	6700401	118.4237	ug/L	96
30) 2-Butanone	8.56	43	376923	47.3968	ug/L	97
31) Propionitrile	8.66	54	107823	103.8899	ug/L	99
32) 2,2-Dichloropropane	8.77	77	2739744	58.0803	ug/L	100
33) cis-1,2-Dichloroethene	8.83	96	1876038	57.2308	ug/L	94
34) Chloroform	9.03	83	3057660	55.6885	ug/L	99
35) 1-Bromopropane	9.15	122	350264	56.2301	ug/L	99
36) Bromochloromethane	9.24	130	765306	56.6701	ug/L	95
37) Tetrahydrofuran	9.27	42	220696	108.4401	ug/L	94
39) 1,1,1-Trichloroethane	9.53	97	3265225	61.8535	ug/L	100
40) Cyclohexane	9.56	56	2944109	59.5032	ug/L	86
41) 1,1-Dichloropropene	9.72	75	2744128	60.7761	ug/L	96
42) Carbon Tetrachloride	9.85	117	3173980	63.4370	ug/L	99
43) Tert-Amyl-Methyl ether	9.82	73	5163182	119.3244	ug/L	92
46) 1,2-Dichloroethane	10.02	62	1338371	55.0712	ug/L	97
47) Benzene	10.06	78	7272498	56.9909	ug/L	98
48) Trichloroethene	10.76	130	2165147	58.6027	ug/L	99
49) Methylcyclohexane	10.85	83	2781584	59.2736	ug/L	91

(#) = qualifier out of range (m) = manual integration
 11M84570.D 8260WTR.M Mon Jul 09 11:38:58 2012

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Data File : C:\MSDCHEM\1\DATA\061412\11M84570.D Vial: 10
 Acq On : 14 Jun 2012 22:58 Operator: fjb
 Sample : WG402310-10 50ug/L STD 6200 Inst : HPMS11
 Misc : 1,1 STD52281 Multiplr: 1.00
 MS Integration Params: rteint.p
 Quant Time: Jun 15 13:08:18 2012 Quant Results File: 6200WTR.RES

Quant Method : C:\MSDCHEM\1\METHODS\6200WTR.M (RTE Integrator)
 Title : 6200 (SOP: OVL MSV01) Water 06/14/12 HPMS11
 Last Update : Fri Jun 15 13:04:55 2012
 Response via : Initial Calibration
 DataAcq Meth : 6200WTR

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
50) 1,2-Dichloropropane	10.97	63	1419519	54.9284	ug/L	92
51) 1,4-Dioxane	11.25	88	19448	213.3356	ug/L	91
52) Bromodichloromethane	11.25	83	1690047	57.8388	ug/L	100
53) Dibromomethane	11.33	93	546398	55.3513	ug/L	96
54) 2-Chloroethyl Vinyl Ether	11.53	63	337755	60.9396	ug/L	100
55) 4-Methyl-2-Pentanone	11.56	58	155137	53.7061	ug/L	94
56) cis-1,3-Dichloropropene	11.85	75	1823673	59.2157	ug/L	100
57) Dimethyl Disulfide	12.10	79	988577	66.6876	ug/L	97
60) Toluene	12.24	91	8561905	61.9113	ug/L	100
61) Ethyl Methacrylate	12.34	69	832222	63.2262	ug/L	99
62) Paraldehyde	12.37	89	20933	116.1064	ug/L	1
63) trans-1,3-Dichloropropene	12.41	75	1494759	69.2402	ug/L	96
64) 1,1,2-Trichloroethane	12.61	97	686711	54.4736	ug/L	97
65) 2-Hexanone	12.55	43	252692	60.2090	ug/L #	64
66) 1,3-Dichloropropane	12.89	76	1210864	56.4871	ug/L	98
67) Tetrachloroethene	13.01	164	1723953	59.1377	ug/L	95
68) Dibromochloromethane	13.26	129	995046	59.7615	ug/L	98
69) 1,2-Dibromoethane	13.49	107	644793	58.5198	ug/L	99
70) 1-Chlorohexane	13.58	91	2925599	63.2468	ug/L	88
71) Chlorobenzene	13.97	112	5362980	64.3425	ug/L	99
72) 1,1,1,2-Tetrachloroethane	13.99	131	1882137	68.0500	ug/L	99
73) Ethylbenzene	13.99	106	3556776	70.8860	ug/L	92
74) m-,p-Xylene	14.07	106	8556492	150.2493	ug/L	81
75) o-Xylene	14.60	106	3607285	68.2868	ug/L	99
76) Styrene	14.63	104	5485509	78.6463	ug/L	95
77) Bromoform	15.10	173	567261	49.8085	ug/L	100
78) Isopropylbenzene	14.99	105	9778553	67.3313	ug/L	96
80) 1,1,2,2-Tetrachloroethane	15.19	83	644921	56.0439	ug/L	100
82) 1,2,3-Trichloropropane	15.36	110	182638	56.0752	ug/L	75
83) trans-1,4-Dichloro-2-Butene	15.41	53	178887	53.1118	ug/L #	14
84) n-Propylbenzene	15.46	91	11029927	59.0622	ug/L	96
85) Bromobenzene	15.58	156	1783040	56.9783	ug/L	100
86) 1,3,5-Trimethylbenzene	15.63	105	8117864	64.6596	ug/L	97
87) 2-Chlorotoluene	15.72	91	6806631	60.5136	ug/L	98
88) 4-Chlorotoluene	15.76	91	5906104	62.4951	ug/L	98
89) a-Methylstyrene	16.01	118	4090747	66.0391	ug/L	99
90) tert-Butylbenzene	16.07	134	1917254	66.8290	ug/L	96
91) 1,2,4-Trimethylbenzene	16.12	105	8225189	64.5420	ug/L	94
92) sec-Butylbenzene	16.32	105	10189305	63.1929	ug/L	97
93) p-Isopropyltoluene	16.46	119	9153443	65.9616	ug/L	97
94) 1,3-Dichlorobenzene	16.65	146	3852848	58.1542	ug/L	99
95) 1,4-Dichlorobenzene	16.76	146	3567157	57.3229	ug/L	99
96) n-Butylbenzene	16.95	91	7858852	64.4742	ug/L	100
97) 1,2-Dichlorobenzene	17.23	146	2782216	54.8721	ug/L	100
98) 1,2-Dibromo-3-Chloropropane	18.14	75	88952	55.9407	ug/L	100
99) 1,2,4-Trichlorobenzene	19.20	180	1908906	62.4526	ug/L	99
100) Hexachlorobutadiene	19.34	225	1048783	60.7858	ug/L	95
101) Naphthalene	19.54	128	2146297	64.9193	ug/L	99
102) 1,2,3-Trichlorobenzene	19.82	180	1373793	59.0726	ug/L	100

(#) = qualifier out of range (m) = manual integration
 11M84570.D 8260WTR.M Mon Jul 09 11:38:58 2012

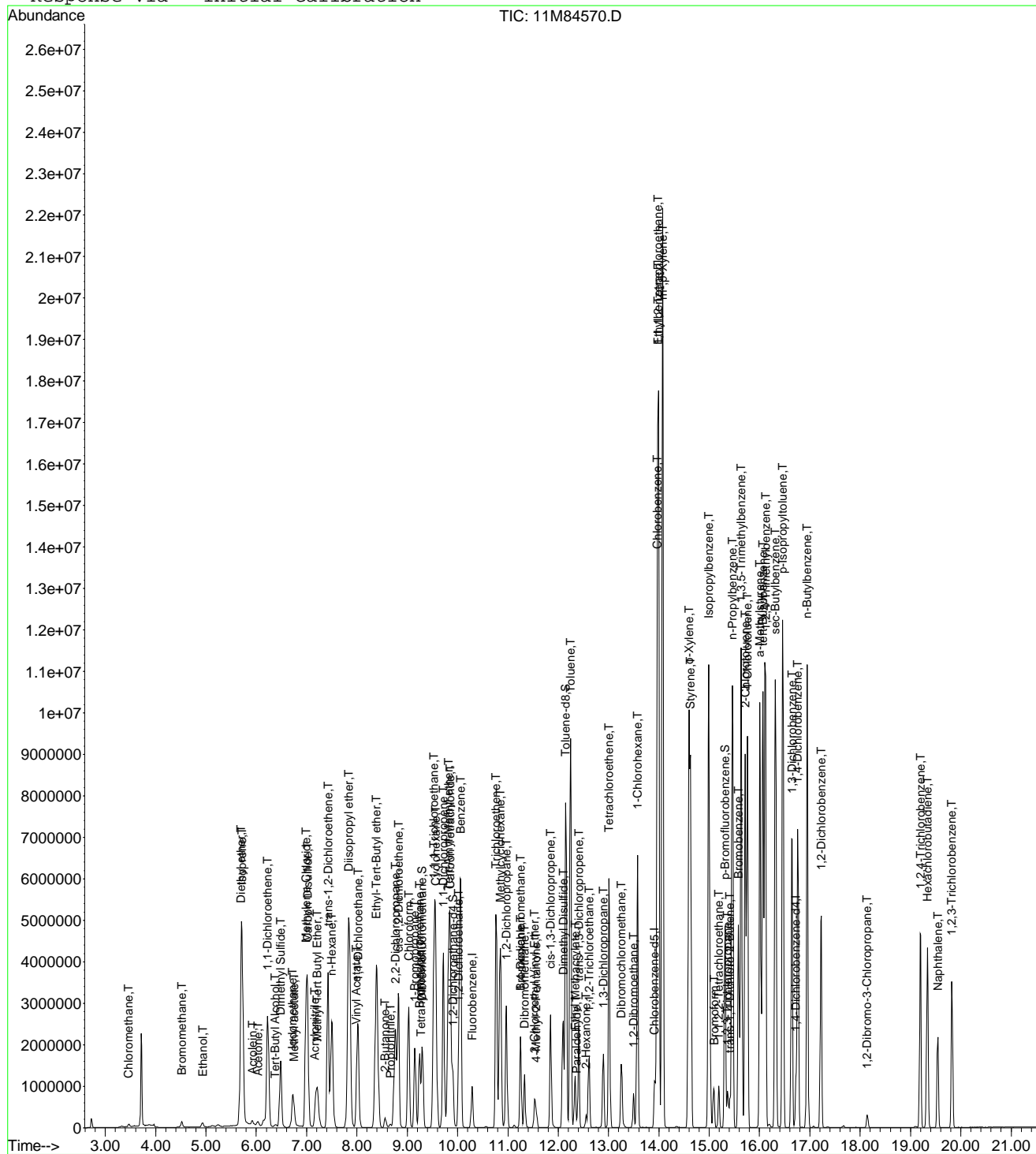
Page 2

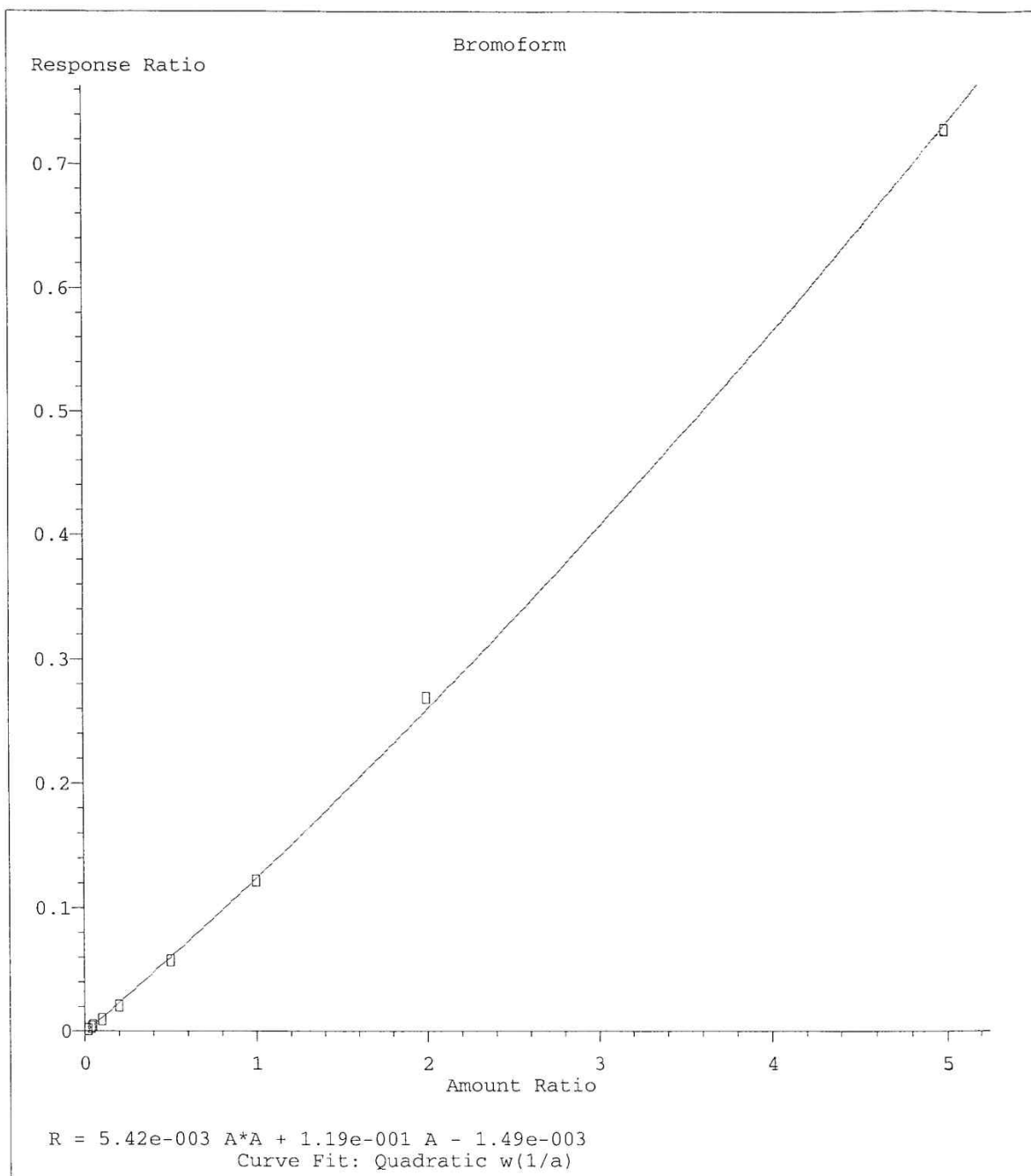
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Acq On : 14 Jun 2012 22:58
Sample : WG402310-10 50ug/L STD 6200
Misc : 1,1 STD52281
MS Integration Params: rteint.p
Quant Time: Jun 15 13:08 2012

Vial: 10
Operator: fjb
Inst : HPMS11
Multiplr: 1.00

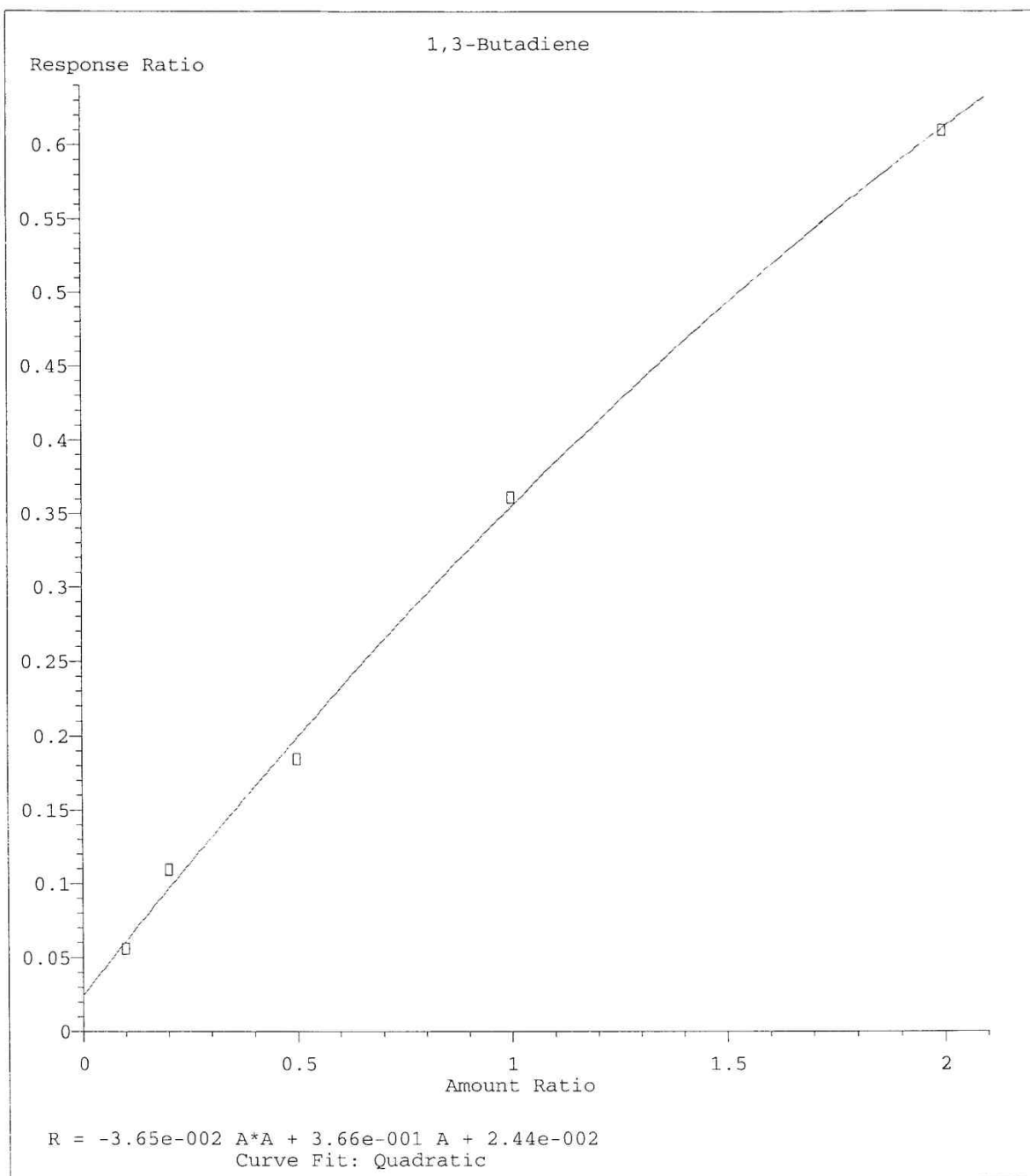
Quant Results File: 6200WTR.RES

Method : C:\MSDCHEM\1\METHODS\8260WTR.M (RTE Integrator)
Title : 8260B/624 (SOP: OVL MSV01) Water 05/03/12 HPMS11
Last Update : Fri Jul 06 09:41:59 2012
Response via : Initial Calibration

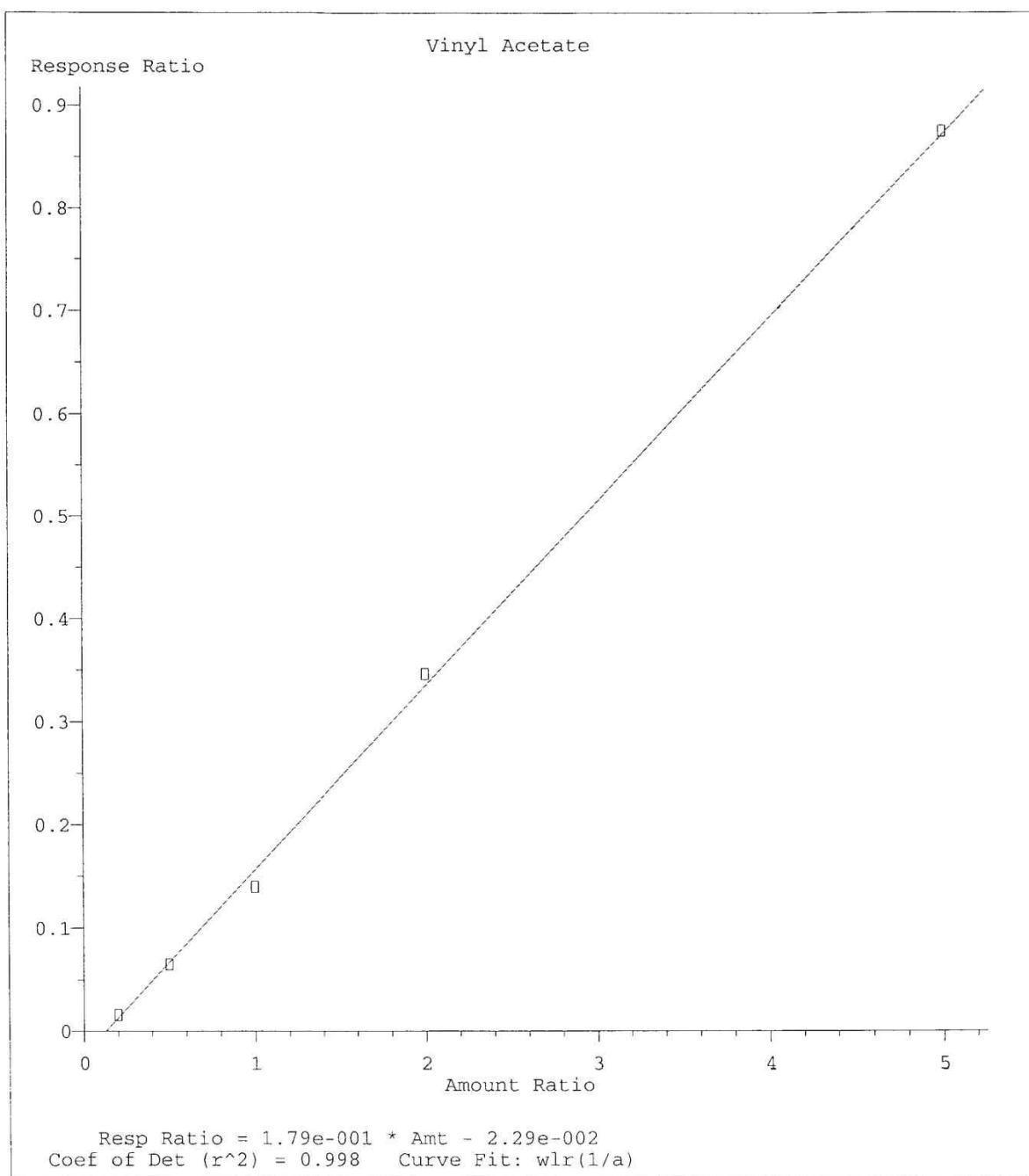




Method Name: C:\MSDCHEM\1\METHODS\6200WTR.M
Calibration Table Last Updated: Tue Jul 10 09:05:03 2012



Method Name: C:\MSDCHEM\1\METHODS\6200WTR.M
Calibration Table Last Updated: Tue Jul 10 09:05:03 2012



Method Name: C:\MSDCHEM\1\METHODS\6200WTR.M
Calibration Table Last Updated: Tue Jul 10 09:05:03 2012

Data File : C:\MSDCHEM\1\DATA\061412\11M84572.D Vial: 12
 Acq On : 15 Jun 2012 00:13 Operator: fjb
 Sample : WG402310-11 10ug/L ALT SRC 6200 Inst : HPMS11
 Misc : 1,1 STD52284 Multiplr: 1.00
 MS Integration Params: rteint.p
 Quant Time: Jun 15 13:09:10 2012 Quant Results File: 6200WTR.RES

Quant Method : C:\MSDCHEM\1\METHODS\6200WTR.M (RTE Integrator)
 Title : 6200 (SOP: OVL MSV01) Water 06/14/12 HPMS11
 Last Update : Fri Jun 15 13:04:55 2012
 Response via : Initial Calibration
 DataAcq Meth : 6200WTR

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene	10.29	96	1168523	10.00	ug/L	0.00
58) Chlorobenzene-d5	13.92	117	801659	10.00	ug/L	0.00
79) 1,4-Dichlorobenzene-d4	16.72	152	415771	10.00	ug/L	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
38) Dibromofluoromethane	9.30	111	281723	11.3338	ug/L	0.00
Spiked Amount	10.000	Range 70 - 130	Recovery	=	113.30%	
44) 1,2-Dichloroethane-d4	9.91	65	199142	10.9355	ug/L	0.00
Spiked Amount	10.000	Range 70 - 130	Recovery	=	109.40%	
59) Toluene-d8	12.15	98	1159551	10.7008	ug/L	0.00
Spiked Amount	10.000	Range 70 - 130	Recovery	=	107.00%	
81) p-Bromofluorobenzene	15.31	95	336901	10.2132	ug/L	0.00
Spiked Amount	10.000	Range 70 - 130	Recovery	=	102.10%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	3.04	85	442783	12.5771	ug/L	96
3) Chloromethane	3.47	50	729537	8.9870	ug/L	100
4) Vinyl Chloride	3.69	62	724044	10.8779	ug/L	100
5) 1,3-Butadiene	3.72	54	350315	8.1928	ug/L	99
6) Bromomethane	4.55	94	173596	9.0093	ug/L	99
7) Chloroethane	4.70	64	238585	10.9445	ug/L	97
8) Ethanol	4.89	45	895	10.7932	ug/L	# 35
9) Trichlorofluoromethane	5.18	101	606653	11.2553	ug/L	99
10) Diethyl ether	5.70	59	283331	19.1940	ug/L	95
11) Isoprene	5.73	67	512234	10.4462	ug/L	93
12) Acrolein	5.91	56	27161	22.6806	ug/L	99
13) 1,1,2-Trichloro-1,2,2-Trif	5.94	101	345242	10.7797	ug/L	99
14) Acetone	6.02	43	25295	5.4996	ug/L	# 47
15) 1,1-Dichloroethene	6.23	61	520115	10.2313	ug/L	98
16) Tert-Butyl Alcohol	6.34	59	25887	31.4252	ug/L	# 69
17) Dimethyl Sulfide	6.48	62	291172	11.6007	ug/L	93
18) Iodomethane	6.73	142	498814	12.3986	ug/L	92
19) Methyl acetate	6.74	43	66827	9.7105	ug/L	95
20) Methylene Chloride	6.99	84	273001	7.3108	ug/L	97
21) Carbon Disulfide	7.03	76	1107829	11.8443	ug/L	99
22) Acrylonitrile	7.17	53	33716	10.7168	ug/L	97
23) Methyl Tert Butyl Ether	7.20	73	461991	11.7202	ug/L	92
24) trans-1,2-Dichloroethene	7.42	96	354139	10.4840	ug/L	90
25) n-Hexane	7.51	57	421661	10.6432	ug/L	95
26) Diisopropyl ether	7.84	45	1511917	20.7569	ug/L	93
27) Vinyl Acetate	7.99	43	147126	8.3241	ug/L	98
28) 1,1-Dichloroethane	8.02	63	604251	10.4191	ug/L	97
29) Ethyl-Tert-Butyl ether	8.39	59	1169599	20.5076	ug/L	96
30) 2-Butanone	8.55	43	34265	4.2745	ug/L	100
31) Propionitrile	8.65	54	18239	17.4342	ug/L	# 78
32) 2,2-Dichloropropane	8.77	77	472022	9.9271	ug/L	99
33) cis-1,2-Dichloroethene	8.83	96	359124	10.8686	ug/L	92
34) Chloroform	9.03	83	580663	10.4916	ug/L	100
35) 1-Bromopropane	9.16	122	84863	13.5155	ug/L	99
36) Bromochloromethane	9.24	130	154942	11.3822	ug/L	94
37) Tetrahydrofuran	9.27	42	42454	20.6944	ug/L	93
39) 1,1,1-Trichloroethane	9.53	97	592083	11.1269	ug/L	99
40) Cyclohexane	9.56	56	557747	11.1831	ug/L	84
41) 1,1-Dichloropropene	9.72	75	492654	10.8246	ug/L	96
42) Carbon Tetrachloride	9.85	117	569516	11.2923	ug/L	98

(#) = qualifier out of range (m) = manual integration
 11M84572.D 8260WTR.M Mon Jul 09 11:39:18 2012

Data File : C:\MSDCHEM\1\DATA\061412\11M84572.D Vial: 12
 Acq On : 15 Jun 2012 00:13 Operator: fjb
 Sample : WG402310-11 10ug/L ALT SRC 6200 Inst : HPMS11
 Misc : 1,1 STD52284 Multiplr: 1.00
 MS Integration Params: rteint.p
 Quant Time: Jun 15 13:09:10 2012 Quant Results File: 6200WTR.RES

Quant Method : C:\MSDCHEM\1\METHODS\6200WTR.M (RTE Integrator)
 Title : 6200 (SOP: OVL MSV01) Water 06/14/12 HPMS11
 Last Update : Fri Jun 15 13:04:55 2012
 Response via : Initial Calibration
 DataAcq Meth : 6200WTR

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
43) Tert-Amyl-Methyl ether	9.82	73	961311	22.0402	ug/L	93
46) 1,2-Dichloroethane	10.02	62	269205	10.9893	ug/L	97
47) Benzene	10.06	78	1364818	10.6105	ug/L	97
48) Trichloroethene	10.76	130	421779	11.3254	ug/L	99
49) Methylcyclohexane	10.85	83	565570	11.9563	ug/L	90
50) 1,2-Dichloropropane	10.97	63	283110	10.8680	ug/L	92
51) 1,4-Dioxane	11.23	88	3531	38.4260	ug/L	83
52) Bromodichloromethane	11.25	83	345545	11.7318	ug/L	99
53) Dibromomethane	11.33	93	110938	11.1491	ug/L	96
54) 2-Chloroethyl Vinyl Ether	11.53	63	68494	12.2600	ug/L	98
55) 4-Methyl-2-Pentanone	11.56	58	33258	11.4220	ug/L	94
56) cis-1,3-Dichloropropene	11.85	75	364663	11.7468	ug/L	99
57) Dimethyl Disulfide	12.10	79	184114	12.3214	ug/L	100
60) Toluene	12.24	91	1541725	10.8529	ug/L	96
61) Ethyl Methacrylate	12.34	69	166363	12.3042	ug/L	97
62) Paraldehyde	12.36	89	2297	12.4029	ug/L	34
63) trans-1,3-Dichloropropene	12.41	75	256806	11.5806	ug/L	95
64) 1,1,2-Trichloroethane	12.61	97	143540	11.0847	ug/L	98
65) 2-Hexanone	12.55	43	53020	12.2984	ug/L #	31
66) 1,3-Dichloropropane	12.89	76	251620	11.4272	ug/L	98
67) Tetrachloroethene	13.01	164	320390	10.6993	ug/L	96
68) Dibromochloromethane	13.26	129	200365	11.7149	ug/L	99
69) 1,2-Dibromoethane	13.49	107	132202	11.6804	ug/L	98
70) 1-Chlorohexane	13.58	91	511347	10.7616	ug/L	88
71) Chlorobenzene	13.97	112	920083	10.7463	ug/L	99
72) 1,1,1,2-Tetrachloroethane	13.99	131	320566	11.2832	ug/L	100
73) Ethylbenzene	13.99	106	562304	10.9097	ug/L	96
74) m-,p-Xylene	14.07	106	1396870	23.8787	ug/L	96
75) o-Xylene	14.60	106	603859	11.1283	ug/L	96
76) Styrene	14.63	104	897970	12.5332	ug/L	95
77) Bromoform	15.10	173	105500	10.6463	ug/L	97
78) Isopropylbenzene	14.99	105	1471560	9.8641	ug/L	99
80) 1,1,2,2-Tetrachloroethane	15.19	83	129205	10.9104	ug/L	98
82) 1,2,3-Trichloropropane	15.36	110	38513	11.4902	ug/L	89
83) trans-1,4-Dichloro-2-Buten	15.41	53	29788	8.5940	ug/L	88
84) n-Propylbenzene	15.46	91	1991871	10.3643	ug/L	99
85) Bromobenzene	15.58	156	335926	10.4312	ug/L	100
86) 1,3,5-Trimethylbenzene	15.63	105	1394515	10.7933	ug/L	100
87) 2-Chlorotoluene	15.72	91	1210141	10.4544	ug/L	97
88) 4-Chlorotoluene	15.76	91	1016666	10.4536	ug/L	99
89) a-Methylstyrene	16.01	118	711501	11.1613	ug/L	98
90) tert-Butylbenzene	16.07	134	312960	10.6002	ug/L	95
91) 1,2,4-Trimethylbenzene	16.11	105	1496215	11.4086	ug/L	99
92) sec-Butylbenzene	16.32	105	1786559	10.7667	ug/L	100
93) p-Isopropyltoluene	16.46	119	1544460	10.8150	ug/L	100
94) 1,3-Dichlorobenzene	16.65	146	723800	10.6160	ug/L	100
95) 1,4-Dichlorobenzene	16.76	146	677312	10.5763	ug/L	99
96) n-Butylbenzene	16.95	91	1350254	10.7642	ug/L	98
97) 1,2-Dichlorobenzene	17.23	146	549302	10.5272	ug/L	99
98) 1,2-Dibromo-3-Chloropropan	18.14	75	17556	10.7285	ug/L	89
99) 1,2,4-Trichlorobenzene	19.20	180	349859	11.1224	ug/L	100
100) Hexachlorobutadiene	19.34	225	179269	10.0963	ug/L	95
101) Naphthalene	19.54	128	399087	11.7299	ug/L	99
102) 1,2,3-Trichlorobenzene	19.82	180	271289	11.3354	ug/L	100

(#) = qualifier out of range (m) = manual integration
 11M84572.D 8260WTR.M Mon Jul 09 11:39:18 2012

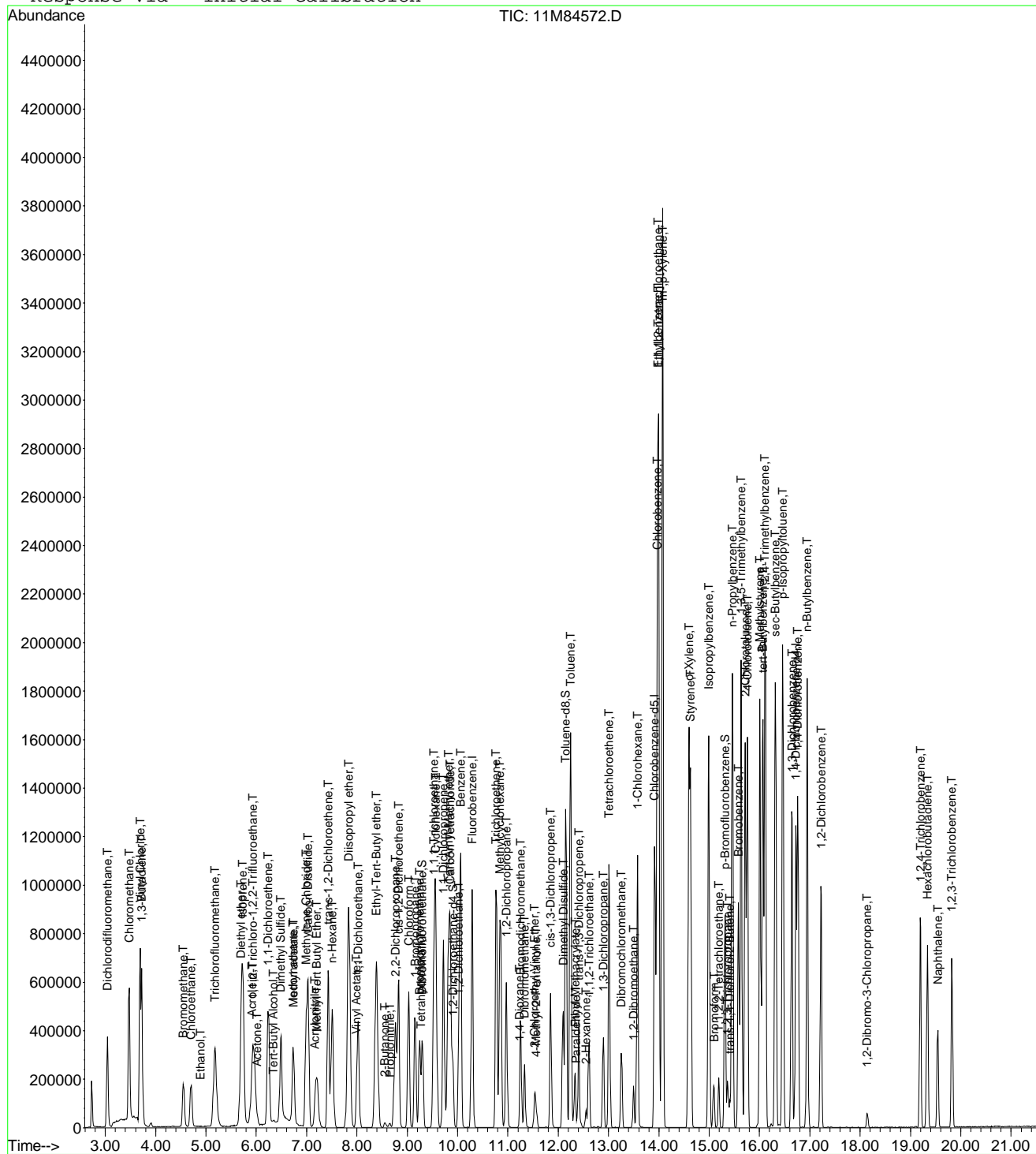
Page 2

Data File : C:\MSDCHEM\1\DATA\061412\11M84572.D
Acq On : 15 Jun 2012 00:13
Sample : WG402310-11 10ug/L ALT SRC 6200
Misc : 1,1 STD52284
MS Integration Params: rteint.p
Quant Time: Jun 15 13:09 2012

Vial: 12
Operator: fjb
Inst : HPMS11
Multiplr: 1.00

Quant Results File: 6200WTR.RES

Method : C:\MSDCHEM\1\METHODS\8260WTR.M (RTE Integrator)
Title : 8260B/624 (SOP: OVL MSV01) Water 05/03/12 HPMS11
Last Update : Fri Jul 06 09:41:59 2012
Response via : Initial Calibration



Data File : C:\MSDCHEM\1\DATA\061412\11M84572.D Vial: 12
 Acq On : 15 Jun 2012 00:13 Operator: fjb
 Sample : WG402310-11 10ug/L ALT SRC 6200 Inst : HPMS11
 Misc : 1,1 STD52284 Multiplr: 1.00
 MS Integration Params: rteint.p

Method : C:\MSDCHEM\1\METHODS\6200WTR.M (RTE Integrator)
 Title : 6200 (SOP: OVL MSV01) Water 06/14/12 HPMS11
 Last Update : Fri Jun 15 13:04:55 2012
 Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
 Max. RRF Dev : 30% Max. Rel. Area : 150%

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1 I	Fluorobenzene	10.0000	10.0000	0.0	113	0.00
2 T	Dichlorodifluoromethane	10.0000	12.5771	-25.8	134	0.00
3 T	Chloromethane	10.0000	8.9870	10.1	101	0.00
4 T	Vinyl Chloride	10.0000	10.8779	-8.8	90	0.01
5 T	1,3-Butadiene	10.0000	8.1928	18.1	94	0.00
6 T	Bromomethane	10.0000	9.0093	9.9	110	0.00
7 T	Chloroethane	10.0000	10.9445	-9.4	118	0.01
8 T	Ethanol	500.0000	10.7932	97.8#	2	0.03
9 T	Trichlorofluoromethane	10.0000	11.2553	-12.6	118	0.01
10 T	Diethyl ether	20.0000	19.1940	4.0	113	0.00
11 T	Isoprene	10.0000	10.4462	-4.5	116	0.00
12 T	Acrolein	20.0000	22.6806	-13.4	120	0.00
13 T	1,1,2-Trichloro-1,2,2-Trifl	10.0000	10.7797	-7.8	117	0.00
14 T	Acetone	10.0000	5.4996	45.0#	72	0.00
15 T	1,1-Dichloroethene	10.0000	10.2313	-2.3	114	0.00
16 T	Tert-Butyl Alcohol	40.0000	31.4252	21.4	106	0.00
17 T	Dimethyl Sulfide	10.0000	11.6007	-16.0	134	0.00
18 T	Iodomethane	10.0000	12.3986	-24.0	121	0.00
19 T	Methyl acetate	10.0000	9.7105	2.9	112	-0.01
20 T	Methylene Chloride	10.0000	7.3108	26.9	85	0.00
21 T	Carbon Disulfide	10.0000	11.8443	-18.4	138	0.00
22 T	Acrylonitrile	10.0000	10.7168	-7.2	120	0.00
23 T	Methyl Tert Butyl Ether	10.0000	11.7202	-17.2	129	-0.01
24 T	trans-1,2-Dichloroethene	10.0000	10.4840	-4.8	118	0.00
25 T	n-Hexane	10.0000	10.6432	-6.4	122	0.00
26 T	Diisopropyl ether	20.0000	20.7569	-3.8	110	0.00
27 T	Vinyl Acetate	10.0000	8.3241	16.8	102	0.00
28 T	1,1-Dichloroethane	10.0000	10.4191	-4.2	117	0.00
29 T	Ethyl-Tert-Butyl ether	20.0000	20.5076	-2.5	108	0.00
30 T	2-Butanone	10.0000	4.2745	57.3#	43	0.00
31 T	Propionitrile	20.0000	17.4342	12.8	104	0.00
32 T	2,2-Dichloropropane	10.0000	9.9270	0.7	111	0.00
33 T	cis-1,2-Dichloroethene	10.0000	10.8686	-8.7	122	0.00
34 T	Chloroform	10.0000	10.4916	-4.9	118	0.00
35 T	1-Bromopropane	10.0000	13.5155	-35.2#	153	0.00
36 T	Bromochloromethane	10.0000	11.3822	-13.8	124	0.00
37 T	Tetrahydrofuran	20.0000	20.6944	-3.5	112	0.00
38 S	Dibromofluoromethane	10.0000	11.3338	-13.3	118	0.00
39 T	1,1,1-Trichloroethane	10.0000	11.1269	-11.3	123	0.00
40 T	Cyclohexane	10.0000	11.1831	-11.8	125	0.00
41 T	1,1-Dichloropropene	10.0000	10.8246	-8.2	117	0.00
42 T	Carbon Tetrachloride	10.0000	11.2923	-12.9	121	0.00
43 T	Tert-Amyl-Methyl ether	20.0000	22.0402	-10.2	116	0.00
44 S	1,2-Dichloroethane-d4	10.0000	10.9355	-9.4	117	0.00
45 T	Heptane	-1.0000	0.0000	0.0	0	0.00
46 T	1,2-Dichloroethane	10.0000	10.9893	-9.9	122	0.00
47 T	Benzene	10.0000	10.6105	-6.1	120	0.00
48 T	Trichloroethene	10.0000	11.3254	-13.3	124	0.00
49 T	Methylcyclohexane	10.0000	11.9563	-19.6	131	0.00
50 T	1,2-Dichloropropane	10.0000	10.8680	-8.7	119	0.00
51 T	1,4-Dioxane	40.0000	38.4260	3.9	120	-0.01
52 T	Bromodichloromethane	10.0000	11.7318	-17.3	125	0.00
53 T	Dibromomethane	10.0000	11.1491	-11.5	120	0.00
54 T	2-Chloroethyl Vinyl Ether	10.0000	12.2600	-22.6	128	0.00

(#) = Out of Range

11M84572.D 6200WTR.M

Mon Jul 09 11:40:57 2012

Page 1

Data File : C:\MSDCHEM\1\DATA\061412\11M84572.D Vial: 12
 Acq On : 15 Jun 2012 00:13 Operator: fjb
 Sample : WG402310-11 10ug/L ALT SRC 6200 Inst : HPMS11
 Misc : 1,1 STD52284 Multiplr: 1.00
 MS Integration Params: rteint.p

Method : C:\MSDCHEM\1\METHODS\6200WTR.M (RTE Integrator)
 Title : 6200 (SOP: OVL MSV01) Water 06/14/12 HPMS11
 Last Update : Fri Jun 15 13:04:55 2012
 Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
 Max. RRF Dev : 30% Max. Rel. Area : 150%

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
55 T	4-Methyl-2-Pentanone	10.0000	11.4221	-14.2	121	0.00
56 T	cis-1,3-Dichloropropene	10.0000	11.7468	-17.5	123	0.00
57 T	Dimethyl Disulfide	10.0000	12.3214	-23.2	126	0.00
58 I	Chlorobenzene-d5	10.0000	10.0000	0.0	114	0.00
59 S	Toluene-d8	10.0000	10.7008	-7.0	119	0.00
60 T	Toluene	10.0000	10.8529	-8.5	120	0.00
61 T	Ethyl Methacrylate	10.0000	12.3042	-23.0	130	0.00
62 T	Paraldehyde	20.0000	12.4029	38.0#	88	-0.01
63 T	trans-1,3-Dichloropropene	10.0000	11.5806	-15.8	110	0.00
64 T	1,1,2-Trichloroethane	10.0000	11.0847	-10.8	122	0.00
65 T	2-Hexanone	10.0000	12.2984	-23.0	119	0.00
66 T	1,3-Dichloropropane	10.0000	11.4272	-14.3	123	0.00
67 T	Tetrachloroethene	10.0000	10.6993	-7.0	122	0.00
68 T	Dibromochloromethane	10.0000	11.7149	-17.1	124	0.00
69 T	1,2-Dibromoethane	10.0000	11.6805	-16.8	121	0.00
70 T	1-Chlorohexane	10.0000	10.7616	-7.6	121	0.00
71 T	Chlorobenzene	10.0000	10.7463	-7.5	119	0.00
72 T	1,1,1,2-Tetrachloroethane	10.0000	11.2832	-12.8	126	0.00
73 T	Ethylbenzene	10.0000	10.9097	-9.1	122	0.00
74 T	m-,p-Xylene	20.0000	23.8787	-19.4	121	0.00
75 T	o-Xylene	10.0000	11.1283	-11.3	122	0.00
76 T	Styrene	10.0000	12.5332	-25.3	122	0.00
77 T	Bromoform	10.0000	10.6463	-6.5	124	0.01
78 T	Isopropylbenzene	10.0000	9.8641	1.4	106	0.00
79 I	1,4-Dichlorobenzene-d4	10.0000	10.0000	0.0	114	0.00
80 T	1,1,2,2-Tetrachloroethane	10.0000	10.9105	-9.1	122	0.00
81 S	p-Bromofluorobenzene	10.0000	10.2132	-2.1	121	0.00
82 T	1,2,3-Trichloropropane	10.0000	11.4902	-14.9	123	0.00
83 T	trans-1,4-Dichloro-2-Butene	10.0000	8.5940	14.1	107	0.00
84 T	n-Propylbenzene	10.0000	10.3643	-3.6	118	0.00
85 T	Bromobenzene	10.0000	10.4312	-4.3	122	0.00
86 T	1,3,5-Trimethylbenzene	10.0000	10.7933	-7.9	120	0.00
87 T	2-Chlorotoluene	10.0000	10.4544	-4.5	118	0.00
88 T	4-Chlorotoluene	10.0000	10.4536	-4.5	116	0.00
89 T	a-Methylstyrene	10.0000	11.1613	-11.6	123	0.00
90 T	tert-Butylbenzene	10.0000	10.6002	-6.0	118	0.00
91 T	1,2,4-Trimethylbenzene	10.0000	11.4086	-14.1	123	0.00
92 T	sec-Butylbenzene	10.0000	10.7667	-7.7	118	0.00
93 T	p-Isopropyltoluene	10.0000	10.8150	-8.1	116	0.00
94 T	1,3-Dichlorobenzene	10.0000	10.6160	-6.2	119	0.00
95 T	1,4-Dichlorobenzene	10.0000	10.5764	-5.8	117	0.00
96 T	n-Butylbenzene	10.0000	10.7643	-7.6	114	0.00
97 T	1,2-Dichlorobenzene	10.0000	10.5272	-5.3	120	0.00
98 T	1,2-Dibromo-3-Chloropropane	10.0000	10.7285	-7.3	122	0.00
99 T	1,2,4-Trichlorobenzene	10.0000	11.1225	-11.2	120	0.00
100 T	Hexachlorobutadiene	10.0000	10.0963	-1.0	117	0.00
101 T	Naphthalene	10.0000	11.7299	-17.3	125	0.00
102 T	1,2,3-Trichlorobenzene	10.0000	11.3354	-13.4	127	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0
 11M84572.D 6200WTR.M Mon Jul 09 11:40:57 2012

Page 2

Data File : C:\MSDCHEM\1\DATA\012512\8M376558.D Vial: 5
 Acq On : 25 Jan 2012 12:43 Operator: ADC
 Sample : WG387881-01 5ug/L A9FOO STD Inst : HPMS8
 Misc : 1,1 STD49721 Multiplr: 1.00
 MS Integration Params: rteint.p
 Quant Time: Feb 01 15:38:13 2012 Quant Results File: A9FOOWT.RES

Quant Method : C:\MSDCHEM\1\METHODS\A9FOOWT.M (RTE Integrator)
 Title : A9-FOO Water - IC: 01/25/12- HPMS8
 Last Update : Wed Feb 01 15:35:09 2012
 Response via : Initial Calibration
 DataAcq Meth : 8260WTR

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene	10.23	96	656295	25.00	ug/L	0.00
11) Chlorobenzene-d5	14.09	117	486754	25.00	ug/L	0.00
12) 1,4-Dichlorobenzene-d4	17.10	152	262855	25.00	ug/L	0.00

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Acetonitrile	6.18	41	2309	4.7425	ug/L	65
3) 3-Chloro-1-propene	6.59	41	49314	4.8141	ug/L	100
4) 2-Chloro-1,3-butadiene	7.99	53	61015	5.0296	ug/L	95
5) Ethyl Acetate	8.63	43	16418	4.7992	ug/L	95
6) Methacrylonitrile	8.77	67	6918	4.9194	ug/L	83
7) Isobutyl Alcohol	8.81	43	817	5.5399	ug/L #	11
9) Methyl methacrylate	10.96	41	18510	4.4070	ug/L	97
10) 2-Nitropropane	11.27	43	5684	3.8971	ug/L	93
13) Cyclohexanone	15.32	55	508	1.9649	ug/L #	31

(#) = qualifier out of range (m) = manual integration
 8M376558.D A9FOOWT.M Wed Feb 01 15:38:15 2012

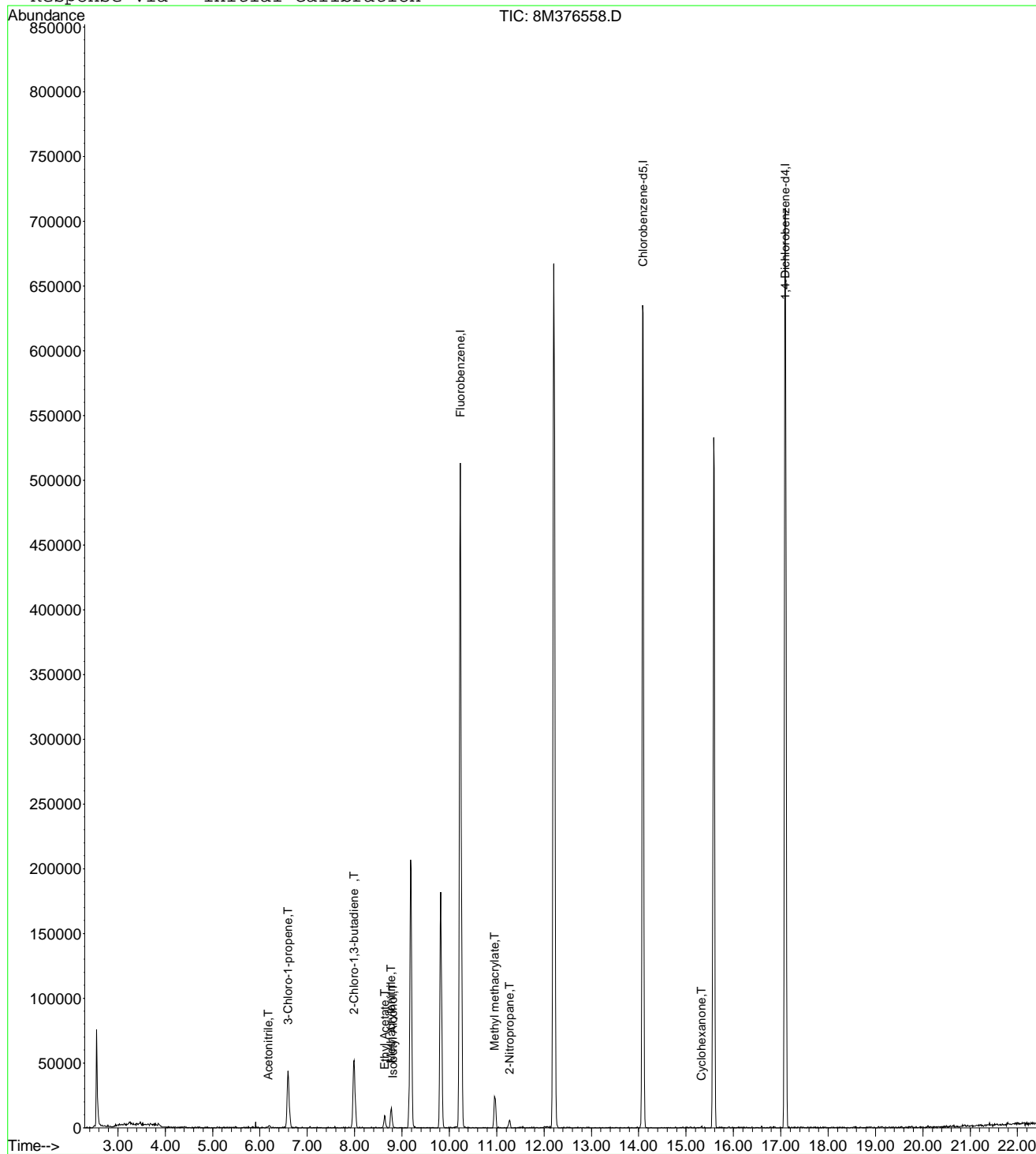


Data File : C:\MSDCHEM\1\DATA\012512\8M376558.D
 Acq On : 25 Jan 2012 12:43
 Sample : WG387881-01 5ug/L A9FOO STD
 Misc : 1,1 STD49721
 MS Integration Params: rteint.p
 Quant Time: Feb 1 15:38 2012

Vial: 5
 Operator: ADC
 Inst : HPMS8
 Multiplr: 1.00

Quant Results File: A9FOOWT.RES

Method : C:\MSDCHEM\1\METHODS\A9FOOWT.M (RTE Integrator)
 Title : A9-FOO Water - IC: 01/25/12- HPMS8
 Last Update : Wed Feb 01 15:35:09 2012
 Response via : Initial Calibration



Data File : C:\MSDCHEM\1\DATA\012512\8M376559.D Vial: 6
 Acq On : 25 Jan 2012 13:28 Operator: ADC
 Sample : WG387881-02 20ug/L A9FOO STD Inst : HPMS8
 Misc : 1,1 STD49721 Multiplr: 1.00
 MS Integration Params: rteint.p
 Quant Time: Feb 01 15:38:15 2012 Quant Results File: A9FOOWT.RES

Quant Method : C:\MSDCHEM\1\METHODS\A9FOOWT.M (RTE Integrator)
 Title : A9-FOO Water - IC: 01/25/12- HPMS8
 Last Update : Wed Feb 01 15:35:09 2012
 Response via : Initial Calibration
 DataAcq Meth : 8260WTR

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene	10.24	96	641906	25.00	ug/L	0.00
11) Chlorobenzene-d5	14.09	117	480006	25.00	ug/L	0.00
12) 1,4-Dichlorobenzene-d4	17.10	152	261314	25.00	ug/L	0.00

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Acetonitrile	6.18	41	8633	18.1289	ug/L	99
3) 3-Chloro-1-propene	6.61	41	200453	20.0070	ug/L	100
4) 2-Chloro-1,3-butadiene	7.99	53	238952	20.1388	ug/L	99
5) Ethyl Acetate	8.63	43	64409	19.2495	ug/L	98
6) Methacrylonitrile	8.78	67	25503	18.5419	ug/L	95
7) Isobutyl Alcohol	8.81	43	4920	34.1090	ug/L #	53
8) 1-Butanol	9.73	56	710	18.9652	ug/L	99
9) Methyl methacrylate	10.96	41	79471	19.3450	ug/L	98
10) 2-Nitropropane	11.27	43	26253	18.4031	ug/L	99
13) Cyclohexanone	15.33	55	5242	20.3952	ug/L	88

(#) = qualifier out of range (m) = manual integration
 8M376559.D A9FOOWT.M Wed Feb 01 15:38:16 2012

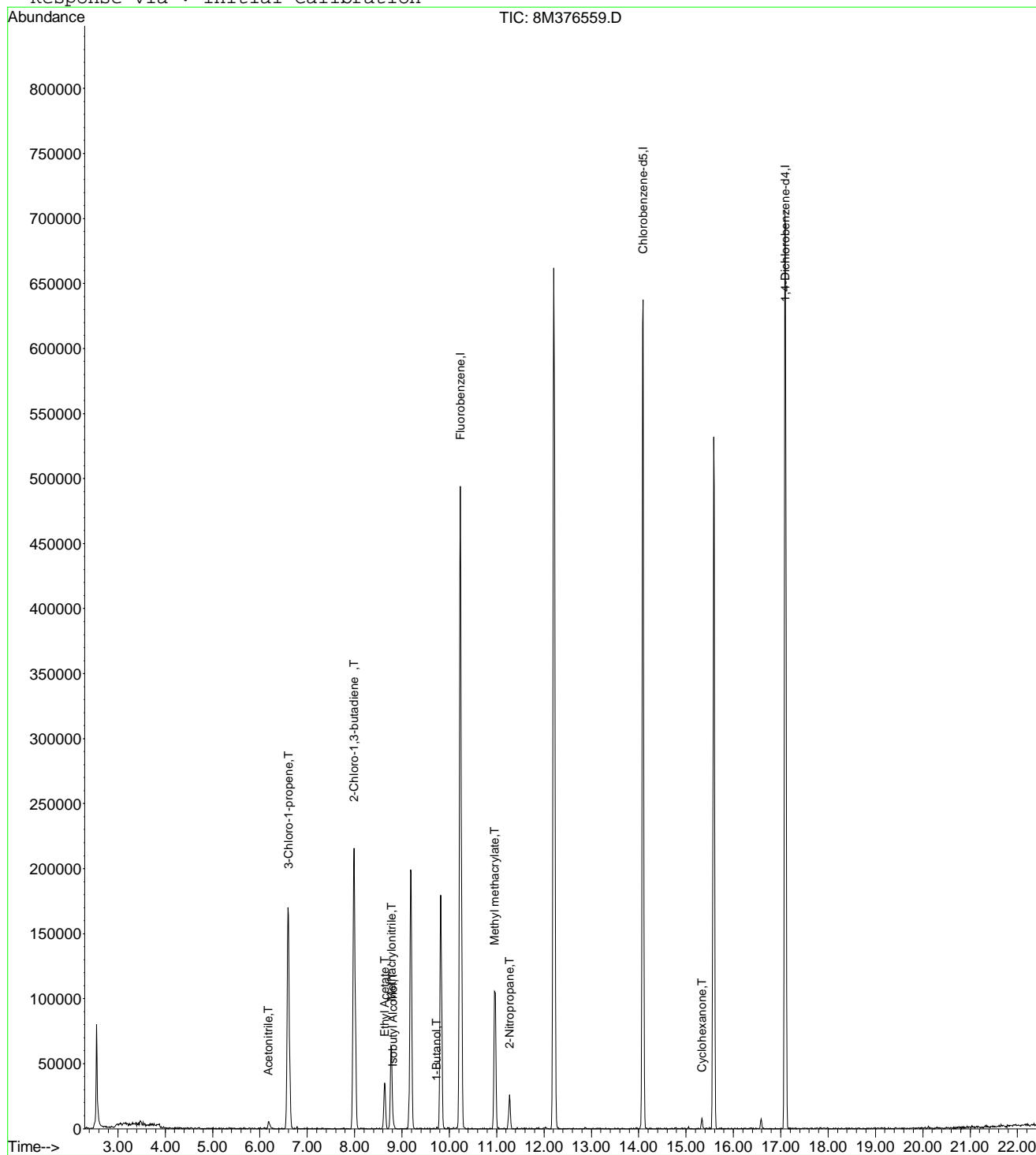


Data File : C:\MSDCHEM\1\DATA\012512\8M376559.D
 Acq On : 25 Jan 2012 13:28
 Sample : WG387881-02 20ug/L A9FOO STD
 Misc : 1,1 STD49721
 MS Integration Params: rteint.p
 Quant Time: Feb 1 15:38 2012

Vial: 6
 Operator: ADC
 Inst : HPMS8
 Multiplr: 1.00

Quant Results File: A9FOOWT.RES

Method : C:\MSDCHEM\1\METHODS\A9FOOWT.M (RTE Integrator)
 Title : A9-FOO Water - IC: 01/25/12- HPMS8
 Last Update : Wed Feb 01 15:35:09 2012
 Response via : Initial Calibration



Data File : C:\MSDCHEM\1\DATA\012512\8M376560.D Vial: 7
 Acq On : 25 Jan 2012 13:58 Operator: ADC
 Sample : WG387881-03 50ug/L A9FOO STD Inst : HPMS8
 Misc : 1,1 STD49721 Multiplr: 1.00
 MS Integration Params: rteint.p
 Quant Time: Feb 01 15:38:17 2012 Quant Results File: A9FOOWT.RES

Quant Method : C:\MSDCHEM\1\METHODS\A9FOOWT.M (RTE Integrator)
 Title : A9-FOO Water - IC: 01/25/12- HPMS8
 Last Update : Wed Feb 01 15:35:09 2012
 Response via : Initial Calibration
 DataAcq Meth : 8260WTR

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene	10.24	96	648527	25.00	ug/L	0.00
11) Chlorobenzene-d5	14.08	117	482506	25.00	ug/L	0.00
12) 1,4-Dichlorobenzene-d4	17.09	152	263746	25.00	ug/L	0.00

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Acetonitrile	6.18	41	23521	48.8886	ug/L	95
3) 3-Chloro-1-propene	6.60	41	508641	50.2487	ug/L	100
4) 2-Chloro-1,3-butadiene	7.99	53	607253	50.6565	ug/L	99
5) Ethyl Acetate	8.62	43	166201	49.1644	ug/L	100
6) Methacrylonitrile	8.77	67	70376	50.6442	ug/L	98
7) Isobutyl Alcohol	8.81	43	14323	98.2836	ug/L	96
8) 1-Butanol	9.73	56	3105	50.3795	ug/L	79
9) Methyl methacrylate	10.96	41	210106	50.6224	ug/L	99
10) 2-Nitropropane	11.27	43	71916	49.8977	ug/L	97
13) Cyclohexanone	15.32	55	12432	47.9236	ug/L	99

(#) = qualifier out of range (m) = manual integration
 8M376560.D A9FOOWT.M Wed Feb 01 15:38:18 2012

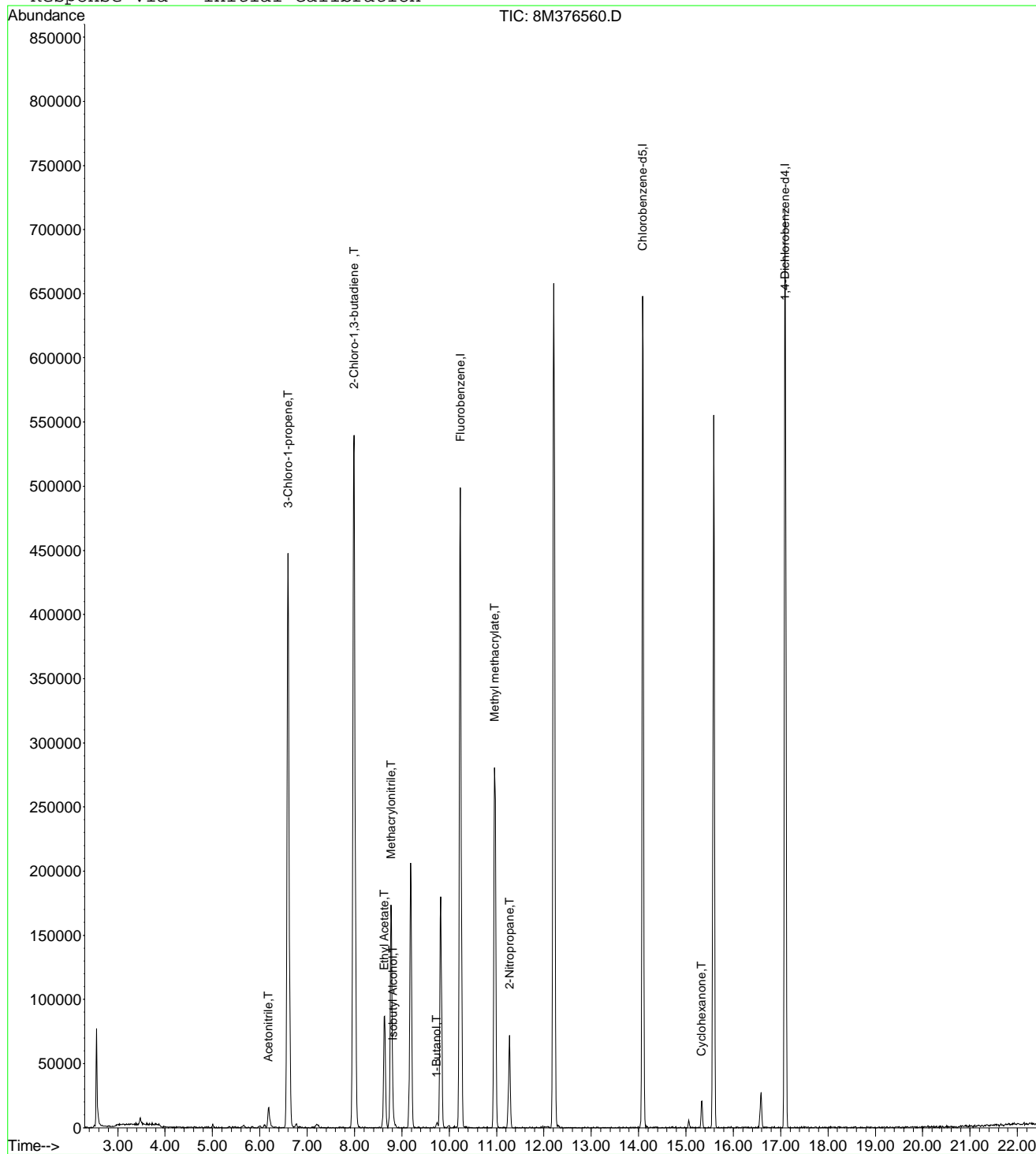


Data File : C:\MSDCHEM\1\DATA\012512\8M376560.D
 Acq On : 25 Jan 2012 13:58
 Sample : WG387881-03 50ug/L A9FOO STD
 Misc : 1,1 STD49721
 MS Integration Params: rteint.p
 Quant Time: Feb 1 15:38 2012

Vial: 7
 Operator: ADC
 Inst : HPMS8
 Multiplr: 1.00

Quant Results File: A9FOOWT.RES

Method : C:\MSDCHEM\1\METHODS\A9FOOWT.M (RTE Integrator)
 Title : A9-FOO Water - IC: 01/25/12- HPMS8
 Last Update : Wed Feb 01 15:35:09 2012
 Response via : Initial Calibration



Data File : C:\MSDCHEM\1\DATA\012512\8M376561.D Vial: 8
 Acq On : 25 Jan 2012 14:29 Operator: ADC
 Sample : WG387881-04 100ug/L A9FOO STD Inst : HPMS8
 Misc : 1,1 STD49721 Multiplr: 1.00
 MS Integration Params: rteint.p
 Quant Time: Feb 01 15:38:19 2012 Quant Results File: A9FOOWT.RES

Quant Method : C:\MSDCHEM\1\METHODS\A9FOOWT.M (RTE Integrator)
 Title : A9-FOO Water - IC: 01/25/12- HPMS8
 Last Update : Wed Feb 01 15:35:09 2012
 Response via : Initial Calibration
 DataAcq Meth : 8260WTR

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene	10.23	96	644867	25.00	ug/L	0.00
11) Chlorobenzene-d5	14.09	117	466673	25.00	ug/L	0.00
12) 1,4-Dichlorobenzene-d4	17.10	152	256948	25.00	ug/L	0.00

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Acetonitrile	6.19	41	49584	103.6457	ug/L	100
3) 3-Chloro-1-propene	6.60	41	1019216	101.2600	ug/L	100
4) 2-Chloro-1,3-butadiene	7.99	53	1196904	100.4113	ug/L	100
5) Ethyl Acetate	8.63	43	352520	104.8718	ug/L	100
6) Methacrylonitrile	8.77	67	141285	102.2491	ug/L	100
7) Isobutyl Alcohol	8.81	43	31160	215.0317	ug/L	100
8) 1-Butanol	9.73	56	7250	105.4560	ug/L	100
9) Methyl methacrylate	10.96	41	432008	104.6777	ug/L	100
10) 2-Nitropropane	11.27	43	151905	105.9950	ug/L	100
13) Cyclohexanone	15.33	55	24800	98.1298	ug/L	100

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 8M376561.D A9FOOWT.M Wed Feb 01 15:38:20 2012

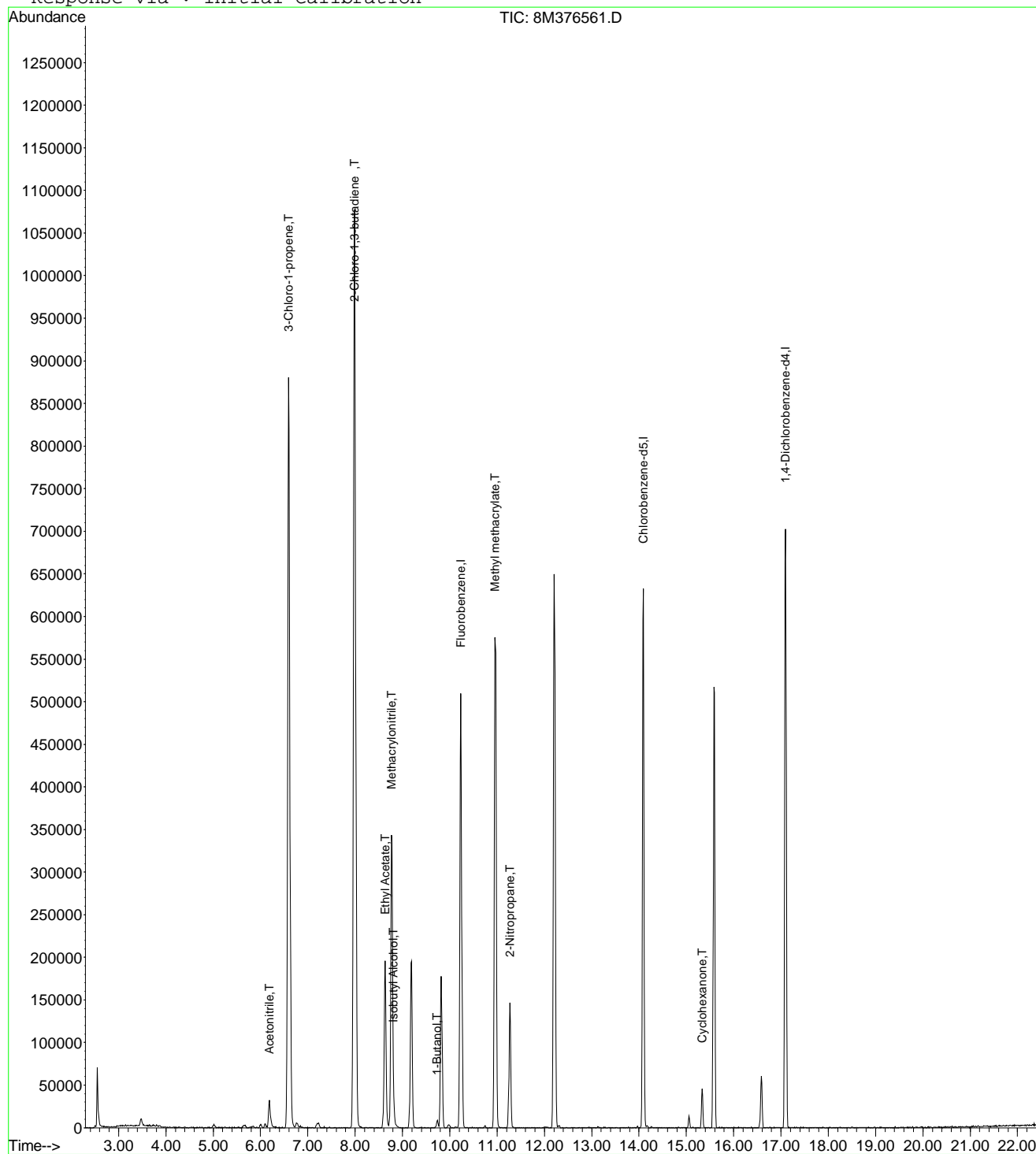


Data File : C:\MSDCHEM\1\DATA\012512\8M376561.D
Acq On : 25 Jan 2012 14:29
Sample : WG387881-04 100ug/L A9FOO STD
Misc : 1,1 STD49721
MS Integration Params: rteint.p
Quant Time: Feb 1 15:38 2012

Vial: 8
Operator: ADC
Inst : HPMS8
Multiplr: 1.00

Quant Results File: A9FOOWT.RES

Method : C:\MSDCHEM\1\METHODS\A9FOOWT.M (RTE Integrator)
Title : A9-FOO Water - IC: 01/25/12- HPMS8
Last Update : Wed Feb 01 15:35:09 2012
Response via : Initial Calibration



8M376561.D A9FOOWT.M

Wed Feb 01 15:38:21 2012

Page 2



Data File : C:\MSDCHEM\1\DATA\012512\8M376562.D Vial: 9
 Acq On : 25 Jan 2012 14:59 Operator: ADC
 Sample : WG387881-05 200ug/L A9FOO STD Inst : HPMS8
 Misc : 1,1 STD49721 Multiplr: 1.00
 MS Integration Params: rteint.p
 Quant Time: Feb 01 15:38:21 2012 Quant Results File: A9FOOWT.RES

Quant Method : C:\MSDCHEM\1\METHODS\A9FOOWT.M (RTE Integrator)
 Title : A9-FOO Water - IC: 01/25/12- HPMS8
 Last Update : Wed Feb 01 15:35:09 2012
 Response via : Initial Calibration
 DataAcq Meth : 8260WTR

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene	10.23	96	635990	25.00	ug/L	0.00
11) Chlorobenzene-d5	14.09	117	471643	25.00	ug/L	0.00
12) 1,4-Dichlorobenzene-d4	17.10	152	259529	25.00	ug/L	0.00

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Acetonitrile	6.19	41	102381	216.9947	ug/L	99
3) 3-Chloro-1-propene	6.59	41	2077765	209.3089	ug/L	100
4) 2-Chloro-1,3-butadiene	7.99	53	2418154	205.6965	ug/L	99
5) Ethyl Acetate	8.63	43	702184	211.8096	ug/L	99
6) Methacrylonitrile	8.78	67	287125	210.6949	ug/L	100
7) Isobutyl Alcohol	8.81	43	59100	413.5352	ug/L #	11
8) 1-Butanol	9.73	56	13732	193.7587	ug/L	75
9) Methyl methacrylate	10.96	41	874313	214.8073	ug/L	99
10) 2-Nitropropane	11.27	43	318671	225.4632	ug/L	93
13) Cyclohexanone	15.33	55	52772	206.7341	ug/L	98

(#) = qualifier out of range (m) = manual integration
 8M376562.D A9FOOWT.M Wed Feb 01 15:38:22 2012

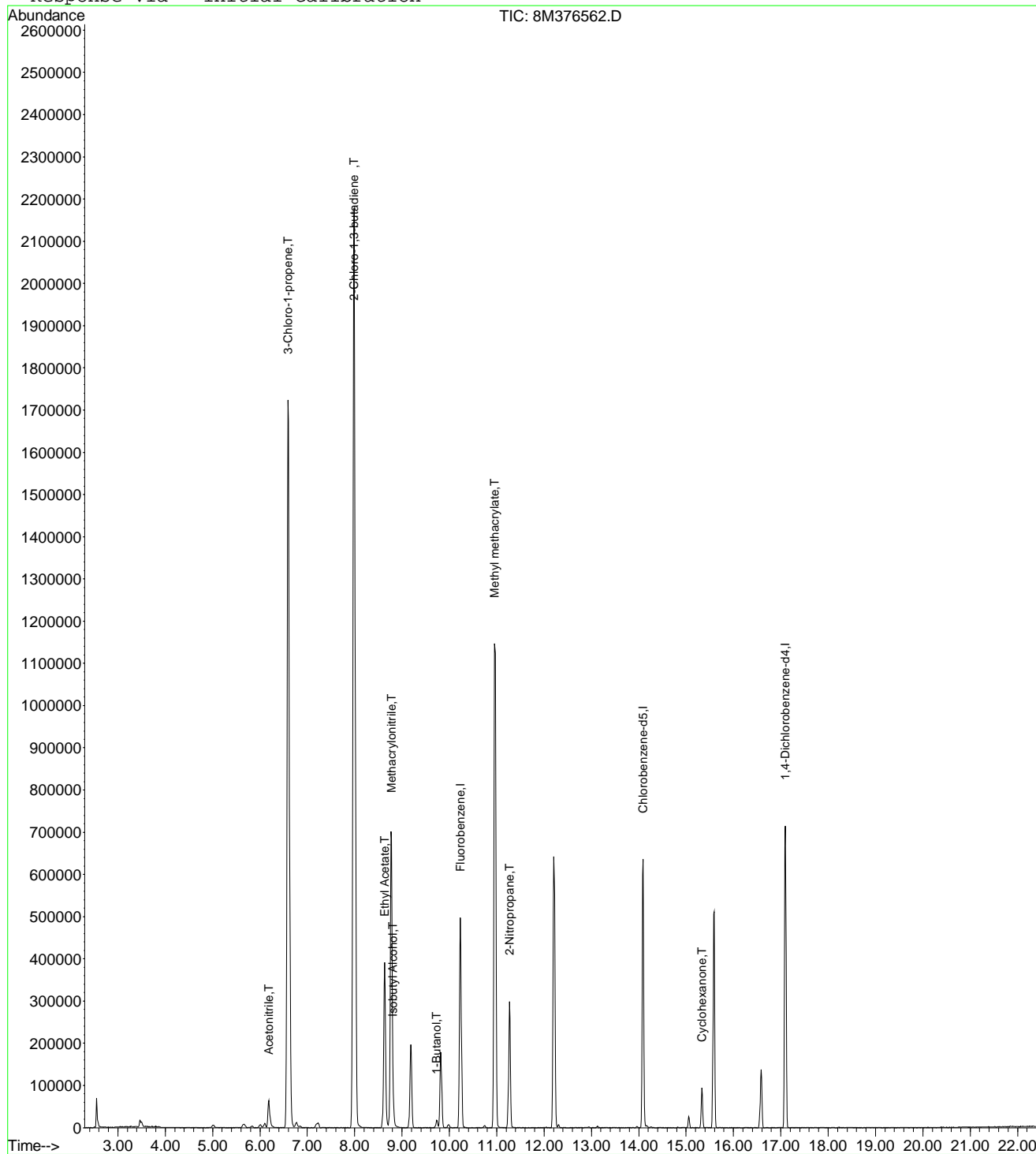


Data File : C:\MSDCHEM\1\DATA\012512\8M376562.D
 Acq On : 25 Jan 2012 14:59
 Sample : WG387881-05 200ug/L A9FOO STD
 Misc : 1,1 STD49721
 MS Integration Params: rteint.p
 Quant Time: Feb 1 15:38 2012

Vial: 9
 Operator: ADC
 Inst : HPMS8
 Multiplr: 1.00

Quant Results File: A9FOOWT.RES

Method : C:\MSDCHEM\1\METHODS\A9FOOWT.M (RTE Integrator)
 Title : A9-FOO Water - IC: 01/25/12- HPMS8
 Last Update : Wed Feb 01 15:35:09 2012
 Response via : Initial Calibration



8M376562.D A9FOOWT.M

Wed Feb 01 15:38:23 2012

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Data File : C:\MSDCHEM\1\DATA\012512\8M376563.D Vial: 10
 Acq On : 25 Jan 2012 15:29 Operator: ADC
 Sample : WG387881-06 300ug/L A9FOO STD Inst : HPMS8
 Misc : 1,1 STD49721 Multiplr: 1.00
 MS Integration Params: rteint.p
 Quant Time: Feb 01 15:38:23 2012 Quant Results File: A9FOOWT.RES

Quant Method : C:\MSDCHEM\1\METHODS\A9FOOWT.M (RTE Integrator)
 Title : A9-FOO Water - IC: 01/25/12- HPMS8
 Last Update : Wed Feb 01 15:35:09 2012
 Response via : Initial Calibration
 DataAcq Meth : 8260WTR

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene	10.24	96	643596	25.00	ug/L	0.00
11) Chlorobenzene-d5	14.08	117	478604	25.00	ug/L	0.00
12) 1,4-Dichlorobenzene-d4	17.09	152	258958	25.00	ug/L	0.00

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Acetonitrile	6.19	41	145734	305.2302	ug/L	100
3) 3-Chloro-1-propene	6.60	41	2997257	298.3680	ug/L	100
4) 2-Chloro-1,3-butadiene	7.98	53	3489509	293.3218	ug/L	99
5) Ethyl Acetate	8.64	43	1024074	305.2552	ug/L	100
6) Methacrylonitrile	8.77	67	420542	304.9506	ug/L	100
7) Isobutyl Alcohol	8.81	43	90964	628.9722	ug/L #	11
8) 1-Butanol	9.73	56	23466	320.6313	ug/L	90
9) Methyl methacrylate	10.96	41	1263842	306.8400	ug/L	100
10) 2-Nitropropane	11.27	43	460658	322.0689	ug/L	97
13) Cyclohexanone	15.34	55	79883	313.6314	ug/L	98

(#) = qualifier out of range (m) = manual integration
 8M376563.D A9FOOWT.M Wed Feb 01 15:38:24 2012

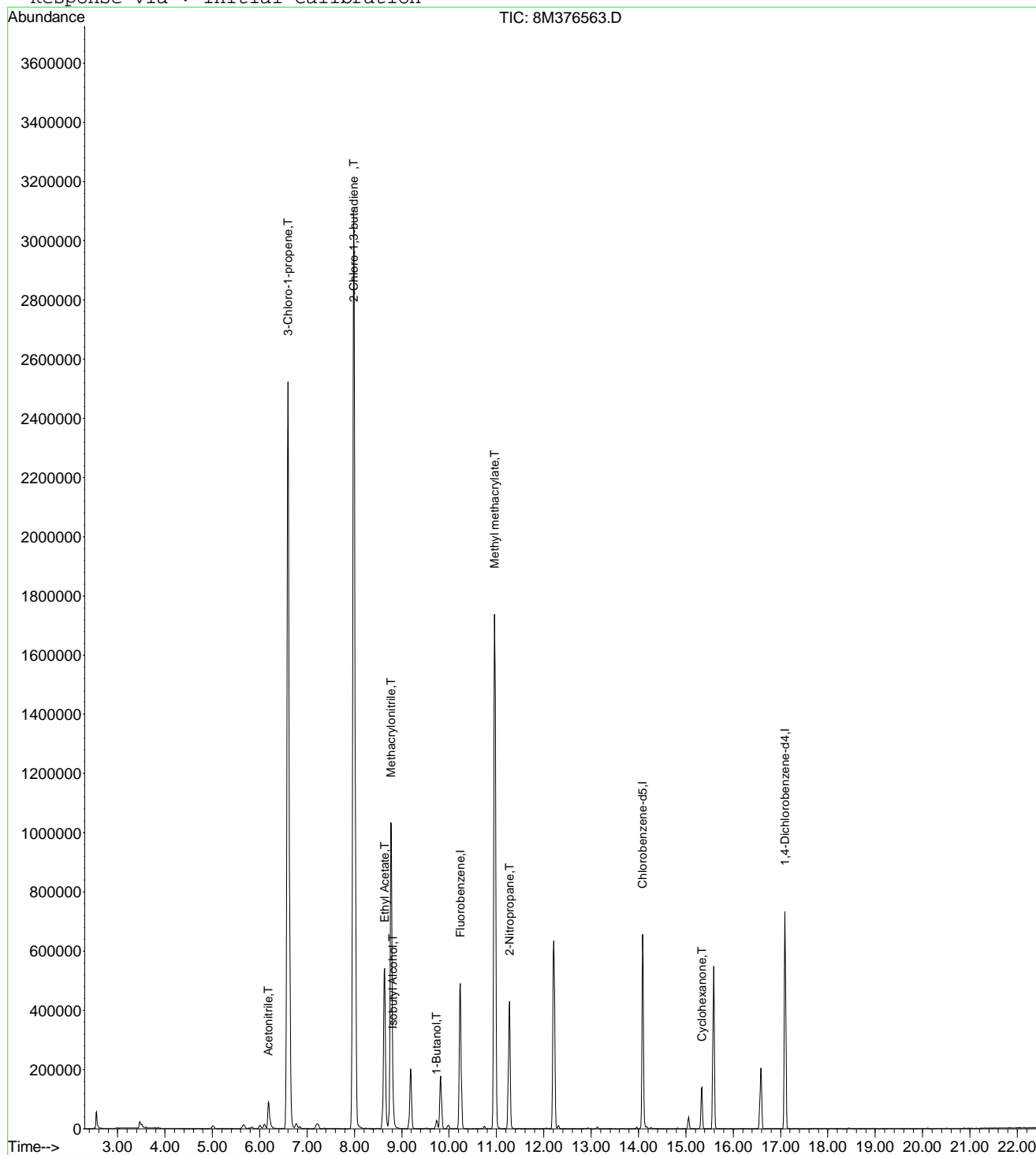


Data File : C:\MSDCHEM\1\DATA\012512\8M376563.D
 Acq On : 25 Jan 2012 15:29
 Sample : WG387881-06 300ug/L A9FOO STD
 Misc : 1,1 STD49721
 MS Integration Params: rteint.p
 Quant Time: Feb 1 15:38 2012

Vial: 10
 Operator: ADC
 Inst : HPMS8
 Multiplr: 1.00

Quant Results File: A9FOOWT.RES

Method : C:\MSDCHEM\1\METHODS\A9FOOWT.M (RTE Integrator)
 Title : A9-FOO Water - IC: 01/25/12- HPMS8
 Last Update : Wed Feb 01 15:35:09 2012
 Response via : Initial Calibration



8M376563.D A9FOOWT.M

Wed Feb 01 15:38:25 2012

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Data File : C:\MSDCHEM\1\DATA\012512\8M376564.D Vial: 11
 Acq On : 25 Jan 2012 15:59 Operator: ADC
 Sample : WG387881-07 400ug/L A9FOO STD Inst : HPMS8
 Misc : 1,1 STD49721 Multiplr: 1.00
 MS Integration Params: rteint.p
 Quant Time: Feb 01 15:38:25 2012 Quant Results File: A9FOOWT.RES

Quant Method : C:\MSDCHEM\1\METHODS\A9FOOWT.M (RTE Integrator)
 Title : A9-FOO Water - IC: 01/25/12- HPMS8
 Last Update : Wed Feb 01 15:35:09 2012
 Response via : Initial Calibration
 DataAcq Meth : 8260WTR

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene	10.23	96	641318	25.00	ug/L	0.00
11) Chlorobenzene-d5	14.09	117	477949	25.00	ug/L	0.00
12) 1,4-Dichlorobenzene-d4	17.10	152	257944	25.00	ug/L	0.00

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Acetonitrile	6.19	41	195716	411.3703	ug/L	97
3) 3-Chloro-1-propene	6.60	41	3916511	391.2619	ug/L	100
4) 2-Chloro-1,3-butadiene	7.98	53	4569564	385.4736	ug/L	99
5) Ethyl Acetate	8.63	43	1295880	387.6470	ug/L	99
6) Methacrylonitrile	8.77	67	540691	393.4677	ug/L	98
7) Isobutyl Alcohol	8.81	43	116114	805.7242	ug/L	95
8) 1-Butanol	9.73	56	27906	380.8093	ug/L	86
9) Methyl methacrylate	10.96	41	1633999	398.1171	ug/L	100
10) 2-Nitropropane	11.27	43	593841	416.6585	ug/L	96
13) Cyclohexanone	15.33	55	97561	384.5434	ug/L	100

(#) = qualifier out of range (m) = manual integration
 8M376564.D A9FOOWT.M Wed Feb 01 15:38:26 2012

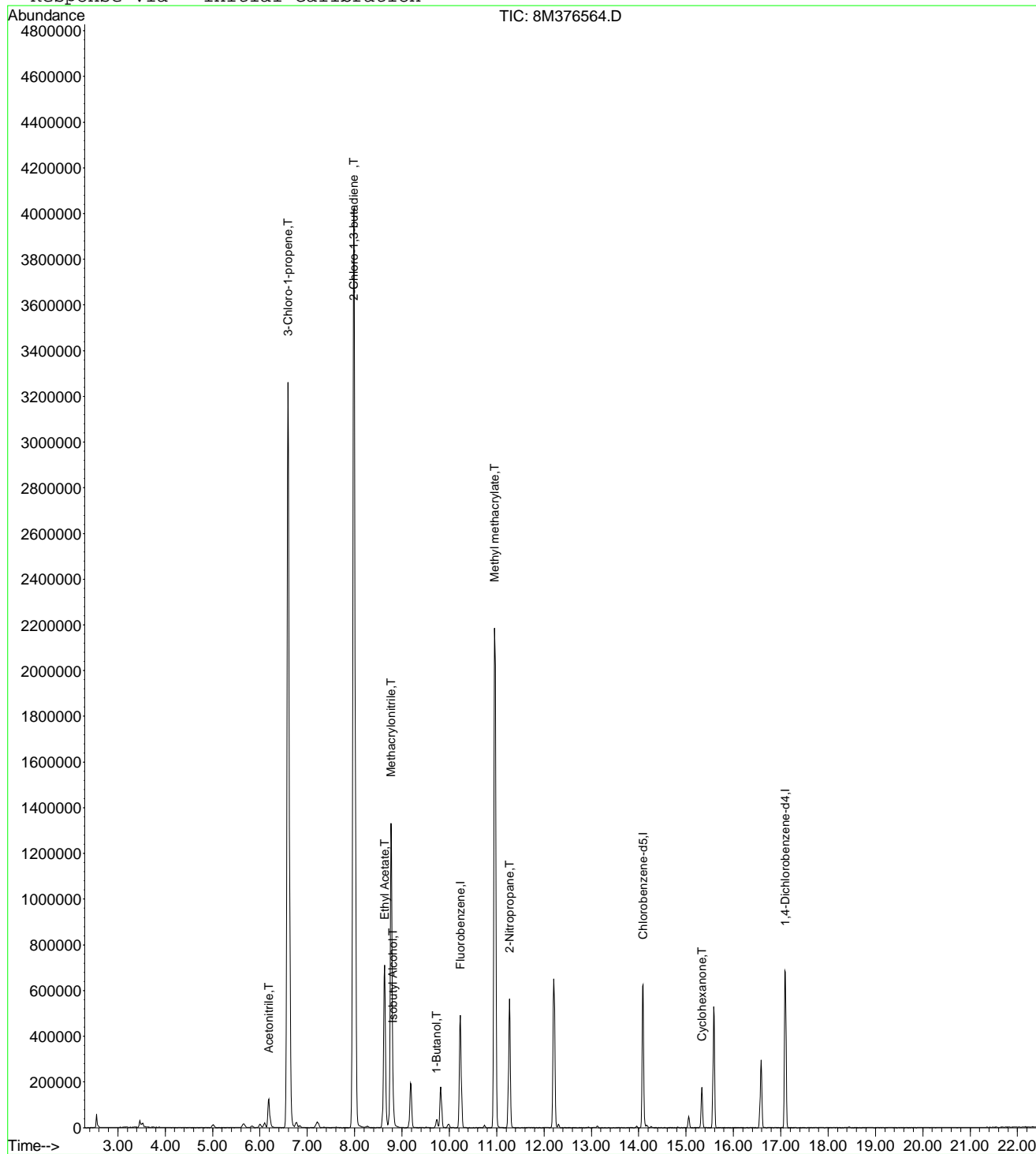


Data File : C:\MSDCHEM\1\DATA\012512\8M376564.D
 Acq On : 25 Jan 2012 15:59
 Sample : WG387881-07 400ug/L A9FOO STD
 Misc : 1,1 STD49721
 MS Integration Params: rteint.p
 Quant Time: Feb 1 15:38 2012

Vial: 11
 Operator: ADC
 Inst : HPMS8
 Multiplr: 1.00

Quant Results File: A9FOOWT.RES

Method : C:\MSDCHEM\1\METHODS\A9FOOWT.M (RTE Integrator)
 Title : A9-FOO Water - IC: 01/25/12- HPMS8
 Last Update : Wed Feb 01 15:35:09 2012
 Response via : Initial Calibration

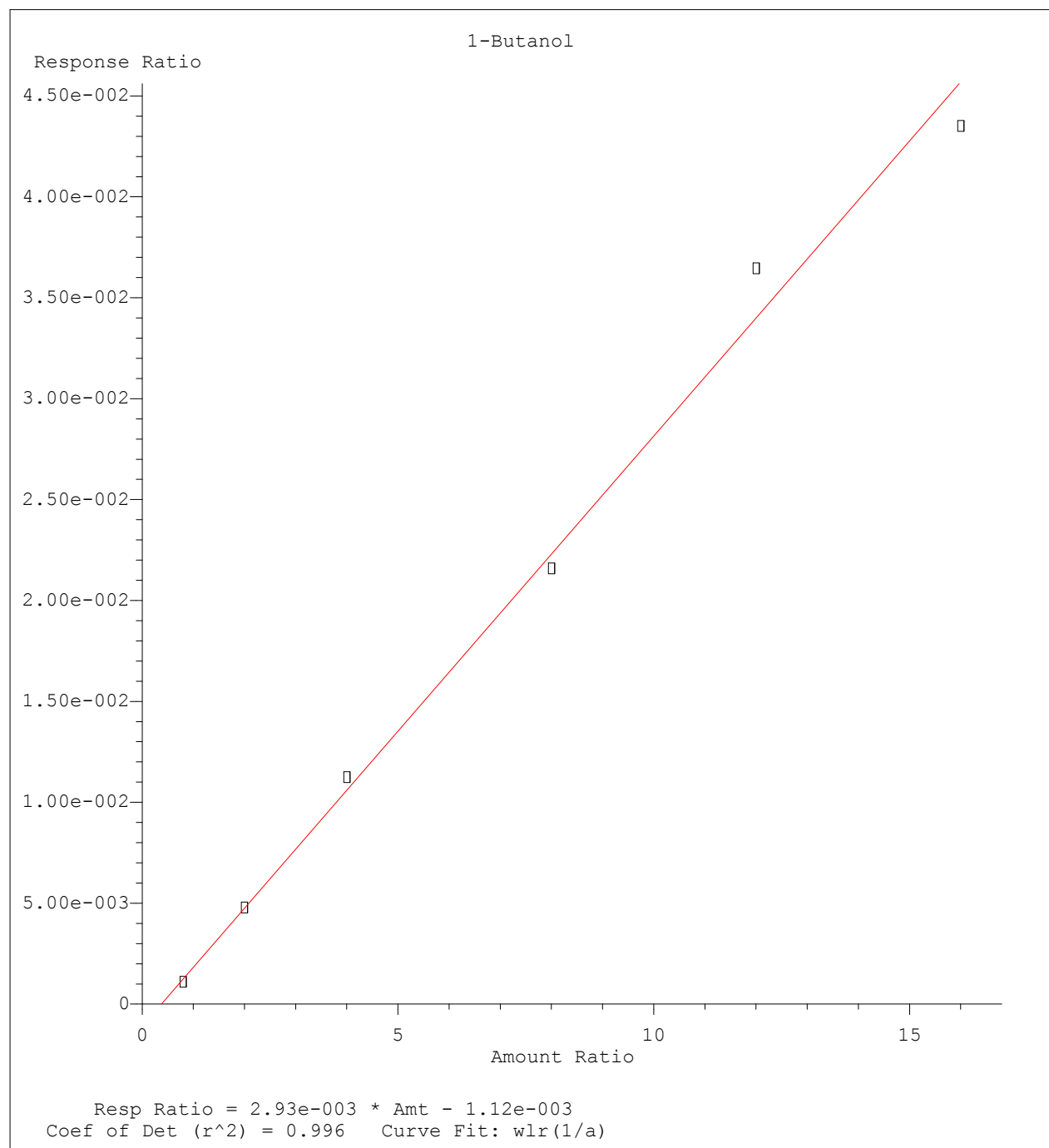


8M376564.D A9FOOWT.M

Wed Feb 01 15:38:26 2012

Page 2





Method Name: C:\MSDCHEM\1\METHODS\A9FOOWT.M
Calibration Table Last Updated: Wed Feb 01 15:35:09 2012

Data File : C:\MSDCHEM\1\DATA\012512\8M376565.D Vial: 12
 Acq On : 25 Jan 2012 16:29 Operator: ADC
 Sample : WG387881-08 100ug/L A9FOO ALT Inst : HPMS8
 Misc : 1,1 STD49721 Multiplr: 1.00
 MS Integration Params: rteint.p
 Quant Time: Feb 01 15:38:27 2012 Quant Results File: A9FOOWT.RES

Quant Method : C:\MSDCHEM\1\METHODS\A9FOOWT.M (RTE Integrator)
 Title : A9-FOO Water - IC: 01/25/12- HPMS8
 Last Update : Wed Feb 01 15:35:09 2012
 Response via : Initial Calibration
 DataAcq Meth : 8260WTR

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene	10.23	96	639588	25.00	ug/L	0.00
11) Chlorobenzene-d5	14.09	117	475173	25.00	ug/L	0.00
12) 1,4-Dichlorobenzene-d4	17.10	152	258713	25.00	ug/L	0.00

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Acetonitrile	6.19	41	44826	94.4734	ug/L	93
3) 3-Chloro-1-propene	6.59	41	937126	93.8727	ug/L	100
4) 2-Chloro-1,3-butadiene	7.99	53	1257481	106.3640	ug/L	99
5) Ethyl Acetate	8.63	43	386153	115.8255	ug/L	98
6) Methacrylonitrile	8.77	67	142494	103.9752	ug/L	99
7) Isobutyl Alcohol	8.81	43	32002	222.6651	ug/L	94
8) 1-Butanol	9.73	56	6562	97.0693	ug/L	93
9) Methyl methacrylate	10.96	41	422245	103.1565	ug/L	99
10) 2-Nitropropane	11.27	43	148207	104.2682	ug/L	96
13) Cyclohexanone	15.33	55	31305	123.0240	ug/L	97

(#) = qualifier out of range (m) = manual integration
 8M376565.D A9FOOWT.M Wed Feb 01 15:38:28 2012

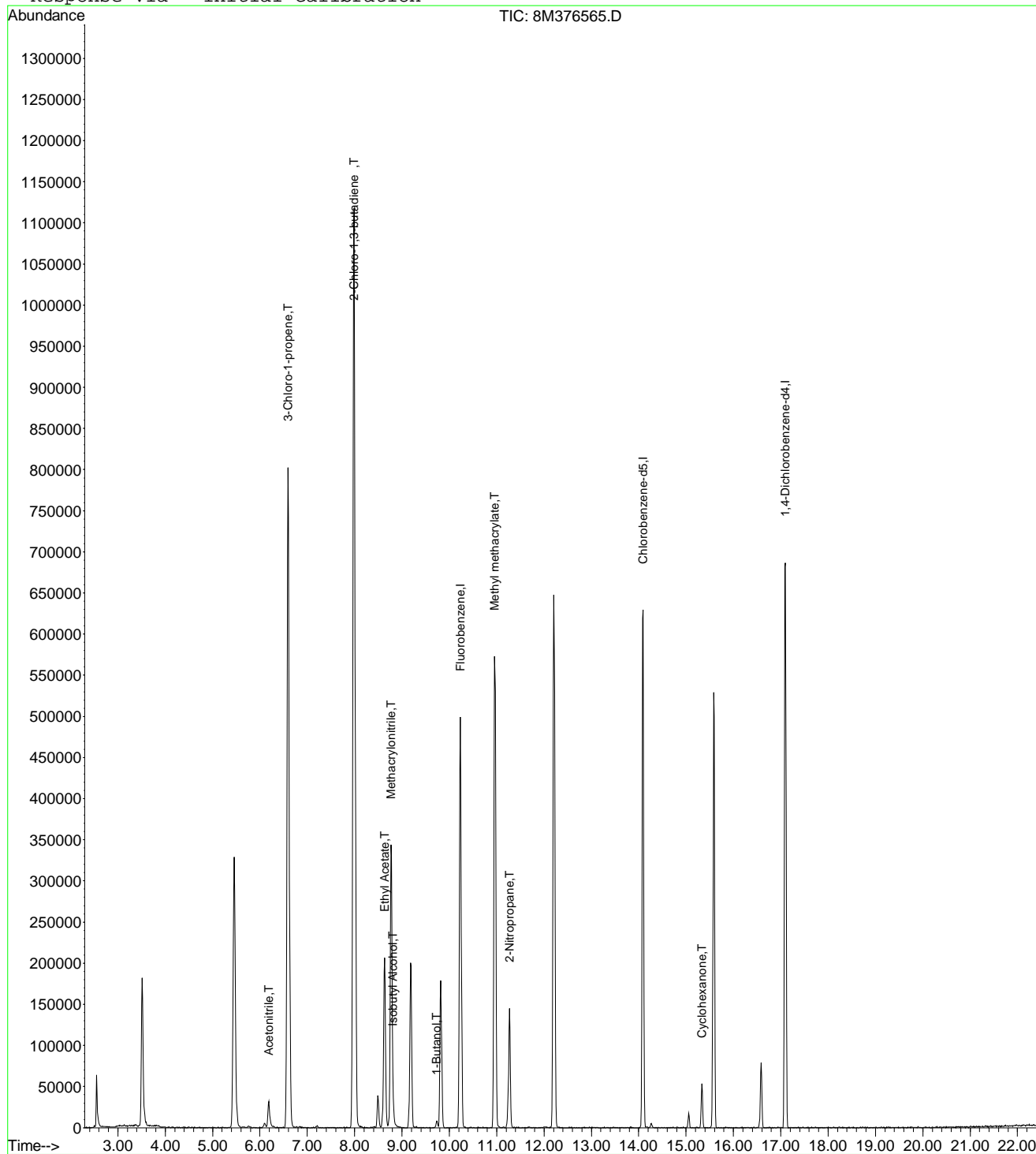


Data File : C:\MSDCHEM\1\DATA\012512\8M376565.D
 Acq On : 25 Jan 2012 16:29
 Sample : WG387881-08 100ug/L A9FOO ALT
 Misc : 1,1 STD49721
 MS Integration Params: rteint.p
 Quant Time: Feb 1 15:38 2012

Vial: 12
 Operator: ADC
 Inst : HPMS8
 Multiplr: 1.00

Quant Results File: A9FOOWT.RES

Method : C:\MSDCHEM\1\METHODS\A9FOOWT.M (RTE Integrator)
 Title : A9-FOO Water - IC: 01/25/12- HPMS8
 Last Update : Wed Feb 01 15:35:09 2012
 Response via : Initial Calibration



Data File : C:\MSDCHEM\1\DATA\012512\8M376565.D Vial: 12
 Acq On : 25 Jan 2012 16:29 Operator: ADC
 Sample : WG387881-08 100ug/L A9FOO ALT Inst : HPMS8
 Misc : 1,1 STD49721 Multiplr: 1.00
 MS Integration Params: rteint.p

Method : C:\MSDCHEM\1\METHODS\A9FOOWT.M (RTE Integrator)
 Title : A9-FOO Water - IC: 01/25/12- HPMS8
 Last Update : Wed Feb 01 15:35:09 2012
 Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 1% Max. R.T. Dev 0.50min
 Max. RRF Dev : 75% Max. Rel. Area : 200%

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1 I	Fluorobenzene	25.000	25.000	0.0	99	0.00
2 T	Acetonitrile	100.000	94.473	5.5	90	0.00
3 T	3-Chloro-1-propene	100.000	93.873	6.1	92	0.00
4 T	2-Chloro-1,3-butadiene	100.000	106.364	-6.4	105	0.00
5 T	Ethyl Acetate	100.000	115.826	-15.8	110	0.00
6 T	Methacrylonitrile	100.000	103.975	-4.0	101	0.00
7 T	Isobutyl Alcohol	200.000	222.665	-11.3	103	0.00
8 T	1-Butanol	100.000	97.069	2.9	91	0.00
9 T	Methyl methacrylate	100.000	103.157	-3.2	98	0.00
10 T	2-Nitropropane	100.000	104.268	-4.3	98	0.00
11 I	Chlorobenzene-d5	25.000	25.000	0.0	102	0.00
12 I	1,4-Dichlorobenzene-d4	25.000	25.000	0.0	101	0.00
13 T	Cyclohexanone	100.000	123.024	-23.0	126	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0
 8M376565.D A9FOOWT.M Wed Feb 01 15:41:50 2012



Data File : C:\MSDCHEM\1\DATA\062812\8M380357.D Vial: 2
 Acq On : 28 Jun 2012 18:40 Operator: adc
 Sample : WG401797-02 0.3ug/L STD 8260 Inst : HPMS8
 Misc : 1,1 STD51967 Multiplr: 1.00

MS Integration Params: RTEINT.P

Quant Time: Jun 29 09:16:14 2012

Quant Results File: 8260WTR.RES

Quant Method : C:\MSDCHEM\1\METHODS\8260WTR.M (RTE Integrator)
 Title : Method 8260B/624 WTR-SOP:OVLMSV01 06/28/12 HPMS 8
 Last Update : Fri Jun 29 09:14:28 2012
 Response via : Initial Calibration
 DataAcq Meth : 8260WTR

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene	10.19	96	707625	25.00	ug/L	0.00
57) Chlorobenzene-d5	14.03	117	578387	25.00	ug/L	0.00
78) 1,4-Dichlorobenzene-d4	17.04	152	314957	25.00	ug/L	0.00

System Monitoring Compounds

37) Dibromofluoromethane	0.00	111	0	0.0000	ug/L	
Spiked Amount	25.000	Range 86 - 118	Recovery	=	0.00%#	
43) 1,2-Dichloroethane-d4	9.77	65	445	0.0627	ug/L	0.00
Spiked Amount	25.000	Range 80 - 120	Recovery	=	0.24%#	
58) Toluene-d8	12.16	98	1657	0.0627	ug/L	0.00
Spiked Amount	25.000	Range 88 - 110	Recovery	=	0.24%#	
80) p-Bromofluorobenzene	15.53	95	748	0.0715	ug/L	0.00
Spiked Amount	25.000	Range 86 - 115	Recovery	=	0.28%#	

Target Compounds

	R.T.	QIon	Response	Conc	Units	Qvalue
13) Acetone	5.73	43	934	0.7690	ug/L	# 48
14) 1,1-Dichloroethene	5.95	61	4219	0.3318	ug/L	99
19) Methylene Chloride	6.71	84	2973	0.3782	ug/L	92
22) Methyl Tert Butyl Ether	6.96	73	4568	0.3352	ug/L	# 50
23) trans-1,2-Dichloroethene	7.18	61	4034	0.3379	ug/L	88
27) 1,1-Dichloroethane	7.80	63	5267	0.3502	ug/L	# 73
31) 2,2-Dichloropropane	8.58	77	3722	0.3004	ug/L	77
32) cis-1,2-Dichloroethene	8.64	96	2646	0.3230	ug/L	95
33) Chloroform	8.84	83	4504	0.3318	ug/L	99
35) Bromochloromethane	9.06	130	1283	0.2659	ug/L	81
36) Tetrahydrofuran	9.10	42	971	0.9003	ug/L	# 41
38) 1,1,1-Trichloroethane	9.38	97	4342	0.3326	ug/L	92
40) 1,1-Dichloropropene	9.58	75	3577	0.3298	ug/L	95
42) Carbon Tetrachloride	9.74	117	4163	0.3347	ug/L	# 90
45) 1,2-Dichloroethane	9.89	62	3320	0.3498	ug/L	# 70
46) Benzene	9.93	78	11432	0.3724	ug/L	95
47) Trichloroethene	10.70	130	3447	0.3623	ug/L	92
49) 1,2-Dichloropropane	10.90	63	2822	0.3389	ug/L	89
50) Bromodichloromethane	11.19	83	2708	0.2797	ug/L	# 83
52) Dibromomethane	11.26	93	1022	0.2793	ug/L	89
55) cis-1,3-Dichloropropene	11.84	75	3087	0.2926	ug/L	82
59) Toluene	12.25	91	12415	0.3689	ug/L	97
62) trans-1,3-Dichloropropene	12.43	75	2167	0.2447	ug/L	86
63) 1,1,2-Trichloroethane	12.64	97	1252	0.2617	ug/L	89
65) 1,3-Dichloropropane	12.95	76	2612	0.3101	ug/L	90
66) Tetrachloroethene	13.08	164	2671	0.3258	ug/L	95
67) Dibromochloromethane	13.32	129	1760	0.2490	ug/L	77
68) 1,2-Dibromoethane	13.58	107	1365	0.2695	ug/L	95
70) Chlorobenzene	14.08	112	8502	0.3678	ug/L	95
71) 1,1,1,2-Tetrachloroethane	14.13	131	2725	0.3100	ug/L	91
72) Ethylbenzene	14.13	106	4498	0.3354	ug/L	87
73) m-,p-Xylene	14.22	106	10855	0.6655	ug/L	82
74) o-Xylene	14.78	106	5229	0.3256	ug/L	92
75) Styrene	14.81	104	8462	0.3245	ug/L	90
76) Bromoform	15.26	173	1006	0.2291	ug/L	# 28
77) Isopropylbenzene	15.20	105	13807	0.3454	ug/L	96
79) 1,1,2,2-Tetrachloroethane	15.40	83	713	0.3649	ug/L	# 58
83) n-Propylbenzene	15.71	91	15692	0.3692	ug/L	99
84) Bromobenzene	15.81	156	3240	0.3237	ug/L	92
85) 1,3,5-Trimethylbenzene	15.89	105	12225	0.3764	ug/L	95
86) 2-Chlorotoluene	15.97	91	10739	0.3941	ug/L	95

(#) = qualifier out of range (m) = manual integration
 8M380357.D 8260WTR.M Fri Jun 29 09:16:48 2012

Page 1

Data File : C:\MSDCHEM\1\DATA\062812\8M380357.D Vial: 2
 Acq On : 28 Jun 2012 18:40 Operator: adc
 Sample : WG401797-02 0.3ug/L STD 8260 Inst : HPMS8
 Misc : 1,1 STD51967 Multiplr: 1.00
 MS Integration Params: RTEINT.P
 Quant Time: Jun 29 09:16:14 2012 Quant Results File: 8260WTR.RES

Quant Method : C:\MSDCHEM\1\METHODS\8260WTR.M (RTE Integrator)
 Title : Method 8260B/624 WTR-SOP:OVLMSV01 06/28/12 HPMS 8
 Last Update : Fri Jun 29 09:14:28 2012
 Response via : Initial Calibration
 DataAcq Meth : 8260WTR

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
87) 4-Chlorotoluene	16.01	91	10494	0.3757	ug/L	99
89) tert-Butylbenzene	16.36	134	2421	0.3324	ug/L	89
90) 1,2,4-Trimethylbenzene	16.41	105	12093	0.3631	ug/L	93
91) sec-Butylbenzene	16.63	105	14353	0.3798	ug/L	97
92) p-Isopropyltoluene	16.79	119	12394	0.3744	ug/L	100
93) 1,3-Dichlorobenzene	16.96	146	7398	0.3692	ug/L	93
94) 1,4-Dichlorobenzene	17.08	146	7767	0.3722	ug/L #	60
95) n-Butylbenzene	17.31	91	11847	0.4198	ug/L	95
96) 1,2-Dichlorobenzene	17.57	146	6007	0.3332	ug/L	97
98) 1,2,4-Trichlorobenzene	19.70	180	4576	0.3675	ug/L	92
99) Hexachlorobutadiene	19.86	225	2660	0.4927	ug/L	94
100) Naphthalene	20.05	128	7573	0.3930	ug/L	87
101) 1,2,3-Trichlorobenzene	20.37	180	3986	0.3706	ug/L	94

 (#) = qualifier out of range (m) = manual integration
 8M380357.D 8260WTR.M Fri Jun 29 09:16:48 2012

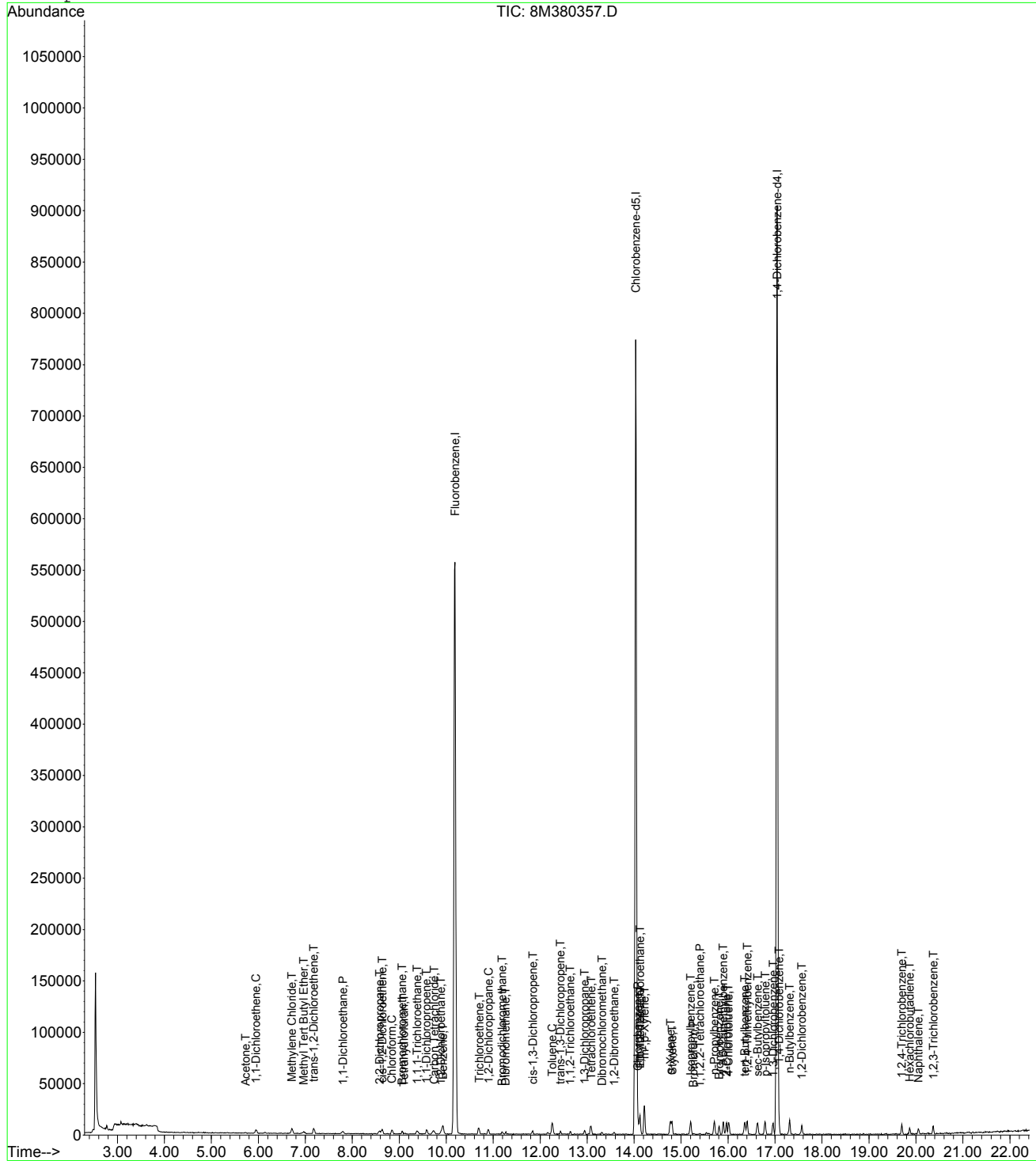
Page 2

Data File : C:\MSDCHEM\1\DATA\062812\8M380357.D
 Acq On : 28 Jun 2012 18:40
 Sample : WG401797-02 0.3ug/L STD 8260
 Misc : 1,1 STD51967
 MS Integration Params: RTEINT.P
 Quant Time: Jun 29 9:16 2012

Vial: 2
 Operator: adc
 Inst : HPMS8
 Multiplr: 1.00

Quant Results File: 8260WTR.RES

Method : C:\MSDCHEM\1\METHODS\8260WTR.M (RTE Integrator)
 Title : Method 8260B/624 WTR-SOP:OVLMSV01 06/28/12 HPMS 8
 Last Update : Fri Jun 29 09:14:28 2012
 Response via : Initial Calibration



Data File : C:\MSDCHEM\1\DATA\062812\8M380358.D Vial: 3
 Acq On : 28 Jun 2012 19:11 Operator: adc
 Sample : WG401797-03 0.4ug/L STD 8260 Inst : HPMS8
 Misc : 1,1 STD51967 Multiplr: 1.00
 MS Integration Params: RTEINT.P
 Quant Time: Jun 29 09:25:43 2012 Quant Results File: 8260WTR.RES

Quant Method : C:\MSDCHEM\1\METHODS\8260WTR.M (RTE Integrator)
 Title : Method 8260B/624 WTR-SOP:OVLMSV01 06/28/12 HPMS 8
 Last Update : Fri Jun 29 09:23:11 2012
 Response via : Initial Calibration
 DataAcq Meth : 8260WTR

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene	10.18	96	677054	25.00	ug/L	0.00
57) Chlorobenzene-d5	14.04	117	566618	25.00	ug/L	0.00
78) 1,4-Dichlorobenzene-d4	17.05	152	311472	25.00	ug/L	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
37) Dibromofluoromethane	0.00	111	0	0.0000	ug/L	
Spiked Amount	25.000	Range 86 - 118	Recovery	=	0.00%#	
43) 1,2-Dichloroethane-d4	0.00	65	0	0.0000	ug/L	
Spiked Amount	25.000	Range 80 - 120	Recovery	=	0.00%#	
58) Toluene-d8	0.00	98	0	0.0000	ug/L	
Spiked Amount	25.000	Range 88 - 110	Recovery	=	0.00%#	
80) p-Bromofluorobenzene	0.00	95	0	0.0000	ug/L	
Spiked Amount	25.000	Range 86 - 115	Recovery	=	0.00%#	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	2.82	85	3857	0.4013	ug/L	77
3) Chloromethane	3.22	50	7615	0.5918	ug/L	85
4) Vinyl Chloride	3.43	62	4320	Below Cal		85
6) Bromomethane	4.26	94	1932	0.3229	ug/L	92
7) Chloroethane	4.40	64	2161	0.3535	ug/L	# 54
8) Trichlorofluoromethane	4.89	101	5525	0.3881	ug/L	# 94
10) Isoprene	5.45	67	4057	0.3810	ug/L	84
12) 1,1,2-Trichloro-1,2,2-Trif	5.67	101	3046	0.4158	ug/L	81
14) 1,1-Dichloroethene	5.94	61	5135	0.4221	ug/L	85
16) Dimethyl Sulfide	6.20	62	3177	0.3569	ug/L	96
17) Iodomethane	6.44	142	925	1.0826	ug/L	# 33
18) Methyl acetate	6.48	43	749	0.1573	ug/L	# 66
19) Methylene Chloride	6.71	84	3321	0.4416	ug/L	96
20) Carbon Disulfide	6.74	76	7908	0.3826	ug/L	# 82
22) Methyl Tert Butyl Ether	6.96	73	5279	0.4049	ug/L	# 57
23) trans-1,2-Dichloroethene	7.17	61	4600	0.4028	ug/L	98
24) n-Hexane	7.30	57	4202	0.4216	ug/L	100
27) 1,1-Dichloroethane	7.79	63	5871	0.4080	ug/L	# 85
31) 2,2-Dichloropropane	8.59	77	4791	0.4041	ug/L	# 67
32) cis-1,2-Dichloroethene	8.63	96	2924	0.3731	ug/L	94
33) Chloroform	8.84	83	5256	0.4046	ug/L	95
35) Bromochloromethane	9.06	130	1584	0.3432	ug/L	74
38) 1,1,1-Trichloroethane	9.38	97	5335	0.4271	ug/L	85
39) Cyclohexane	9.43	56	5223	0.3935	ug/L	83
40) 1,1-Dichloropropene	9.58	75	3961	0.3817	ug/L	90
42) Carbon Tetrachloride	9.73	117	4736	0.3980	ug/L	# 92
45) 1,2-Dichloroethane	9.89	62	3636	0.4004	ug/L	# 68
46) Benzene	9.93	78	12957	0.4412	ug/L	93
47) Trichloroethene	10.69	130	4067	0.4467	ug/L	95
48) Methylcyclohexane	10.79	83	4460	0.4368	ug/L	# 83
49) 1,2-Dichloropropane	10.91	63	2981	0.3742	ug/L	86
50) Bromodichloromethane	11.19	83	3409	0.3680	ug/L	# 93
52) Dibromomethane	11.26	93	1331	0.3802	ug/L	87
55) cis-1,3-Dichloropropene	11.84	75	2978	0.2950	ug/L	94
56) Dimethyl Disulfide	12.08	94	2599	0.9225	ug/L	95
59) Toluene	12.26	91	14300	0.4337	ug/L	95
60) Ethyl Methacrylate	12.37	69	1333	0.2443	ug/L	87
62) trans-1,3-Dichloropropene	12.44	75	2583	0.2977	ug/L	# 58
63) 1,1,2-Trichloroethane	12.64	97	1738	0.3708	ug/L	92
65) 1,3-Dichloropropane	12.95	76	3091	0.3746	ug/L	97
66) Tetrachloroethene	13.09	164	3340	0.4159	ug/L	95

(#) = qualifier out of range (m) = manual integration
 8M380358.D 8260WTR.M Fri Jun 29 09:26:06 2012

Data File : C:\MSDCHEM\1\DATA\062812\8M380358.D Vial: 3
 Acq On : 28 Jun 2012 19:11 Operator: adc
 Sample : WG401797-03 0.4ug/L STD 8260 Inst : HPMS8
 Misc : 1,1 STD51967 Multiplr: 1.00
 MS Integration Params: RTEINT.P
 Quant Time: Jun 29 09:25:43 2012 Quant Results File: 8260WTR.RES

Quant Method : C:\MSDCHEM\1\METHODS\8260WTR.M (RTE Integrator)
 Title : Method 8260B/624 WTR-SOP:OVLMSV01 06/28/12 HPMS 8
 Last Update : Fri Jun 29 09:23:11 2012
 Response via : Initial Calibration
 DataAcq Meth : 8260WTR

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
67) Dibromochloromethane	13.32	129	2615	0.3776	ug/L	97
68) 1,2-Dibromoethane	13.57	107	1660	0.3345	ug/L	99
69) 1-Chlorohexane	13.70	91	3763	0.3602	ug/L	91
70) Chlorobenzene	14.08	112	9392	0.4148	ug/L	92
71) 1,1,1,2-Tetrachloroethane	14.12	131	3195	0.3710	ug/L	88
72) Ethylbenzene	14.12	106	5453	0.4151	ug/L	89
73) m-,p-Xylene	14.21	106	13514	0.8458	ug/L	95
74) o-Xylene	14.77	106	6545	0.4160	ug/L	98
75) Styrene	14.80	104	9317	0.3647	ug/L	88
76) Bromoform	15.27	173	1169	0.2717	ug/L #	45
77) Isopropylbenzene	15.21	105	15767	0.4026	ug/L	95
79) 1,1,2,2-Tetrachloroethane	15.41	83	991	0.4259	ug/L #	95
83) n-Propylbenzene	15.70	91	17481	0.4159	ug/L	100
84) Bromobenzene	15.82	156	4052	0.4093	ug/L	93
85) 1,3,5-Trimethylbenzene	15.90	105	13407	0.4174	ug/L	99
86) 2-Chlorotoluene	15.96	91	10987	0.4077	ug/L	88
87) 4-Chlorotoluene	16.01	91	12079	0.4373	ug/L	90
88) a-Methylstyrene	16.29	118	6275	0.3443	ug/L	98
89) tert-Butylbenzene	16.36	134	2875	0.3991	ug/L	90
90) 1,2,4-Trimethylbenzene	16.41	105	14153	0.4298	ug/L	93
91) sec-Butylbenzene	16.62	105	15804	0.4229	ug/L	96
92) p-Isopropyltoluene	16.79	119	14242	0.4351	ug/L	92
93) 1,3-Dichlorobenzene	16.95	146	8085	0.4080	ug/L	97
94) 1,4-Dichlorobenzene	17.08	146	8432	0.4086	ug/L	89
95) n-Butylbenzene	17.31	91	11771	0.4218	ug/L	100
96) 1,2-Dichlorobenzene	17.58	146	7196	0.4036	ug/L	99
98) 1,2,4-Trichlorobenzene	19.71	180	5208	0.4229	ug/L	96
99) Hexachlorobutadiene	19.86	225	2166	0.4056	ug/L	96
100) Naphthalene	20.05	128	7778	0.4081	ug/L	92
101) 1,2,3-Trichlorobenzene	20.37	180	4127	0.3880	ug/L	95

(#) = qualifier out of range (m) = manual integration
 8M380358.D 8260WTR.M Fri Jun 29 09:26:06 2012

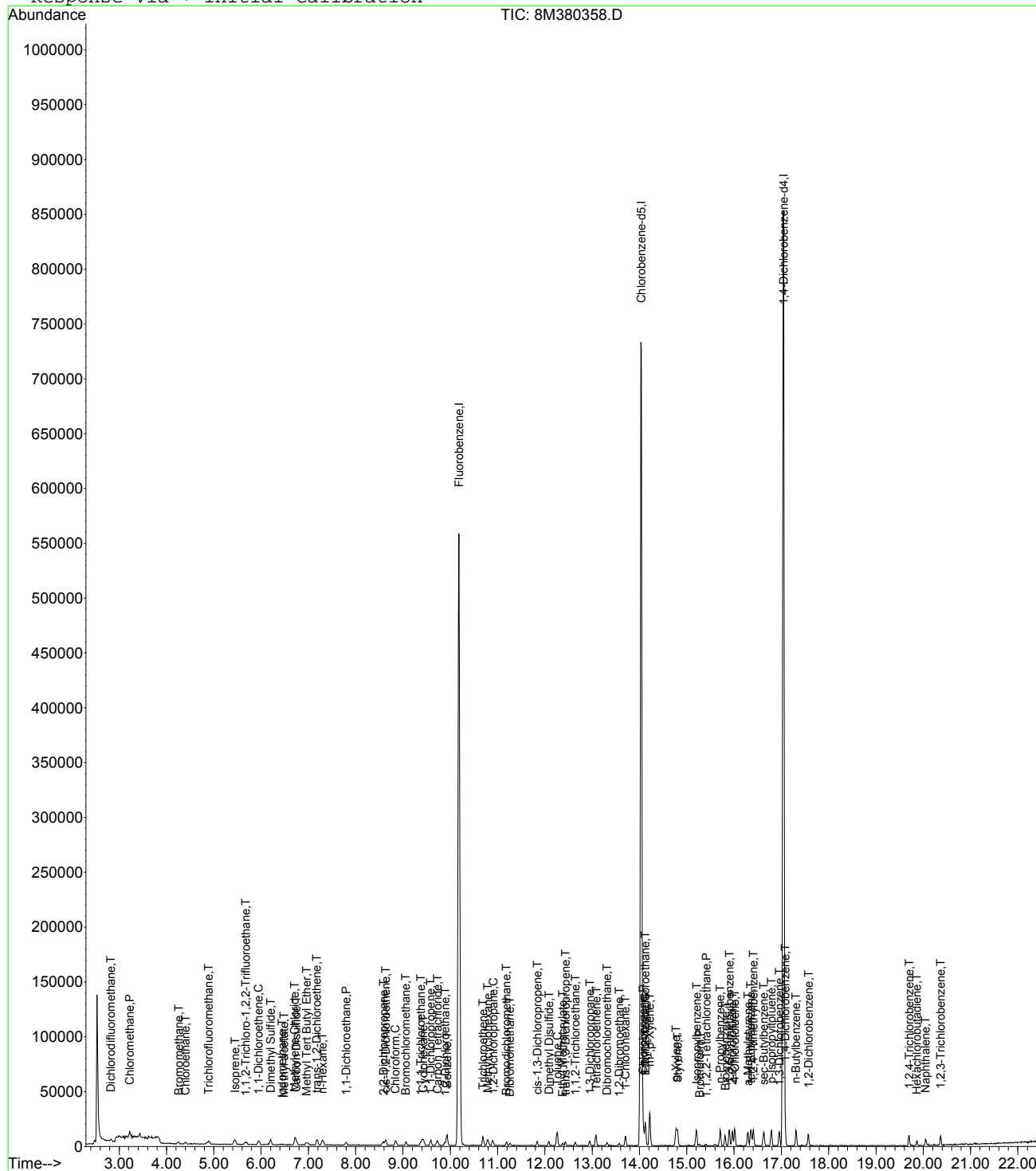
Page 2

Data File : C:\MSDCHEM\1\DATA\062812\8M380358.D
Acq On : 28 Jun 2012 19:11
Sample : WG401797-03 0.4ug/L STD 8260
Misc : 1,1 STD51967
MS Integration Params: RTEINT.P
Quant Time: Jun 29 9:25 2012

Vial: 3
Operator: adc
Inst : HPMS8
Multiplr: 1.00

Quant Results File: 8260WTR.RES

Method : C:\MSDCHEM\1\METHODS\8260WTR.M (RTE Integrator)
Title : Method 8260B/624 WTR-SOP:OVLMSV01 06/28/12 HPMS 8
Last Update : Fri Jun 29 09:23:11 2012
Response via : Initial Calibration



Data File : C:\MSDCHEM\1\DATA\062812\8M380359.D Vial: 4
 Acq On : 28 Jun 2012 19:41 Operator: adc
 Sample : WG401797-04 1.0ug/L STD 8260 Inst : HPMS8
 Misc : 1,1 STD51967 Multiplr: 1.00
 MS Integration Params: RTEINT.P
 Quant Time: Jun 29 09:28:23 2012 Quant Results File: 8260WTR.RES

Quant Method : C:\MSDCHEM\1\METHODS\8260WTR.M (RTE Integrator)
 Title : Method 8260B/624 WTR-SOP:OVLMSV01 06/28/12 HPMS 8
 Last Update : Fri Jun 29 09:27:59 2012
 Response via : Initial Calibration
 DataAcq Meth : 8260WTR

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene	10.18	96	677104	25.00	ug/L	0.00
57) Chlorobenzene-d5	14.04	117	557251	25.00	ug/L	0.00
78) 1,4-Dichlorobenzene-d4	17.05	152	309127	25.00	ug/L	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
37) Dibromofluoromethane	9.13	111	4068	0.5587	ug/L	0.00
Spiked Amount	25.000	Range 86 - 118	Recovery	=	2.24%#	
43) 1,2-Dichloroethane-d4	9.77	65	4301	0.6338	ug/L	0.00
Spiked Amount	25.000	Range 80 - 120	Recovery	=	2.52%#	
58) Toluene-d8	12.16	98	17151	0.6736	ug/L	0.00
Spiked Amount	25.000	Range 88 - 110	Recovery	=	2.68%#	
80) p-Bromofluorobenzene	15.53	95	6787	0.6614	ug/L	0.00
Spiked Amount	25.000	Range 86 - 115	Recovery	=	2.64%#	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	2.82	85	10442	1.0863	ug/L	94
3) Chloromethane	3.22	50	15603	1.2124	ug/L	91
4) Vinyl Chloride	3.43	62	11953	0.7703	ug/L	96
5) 1,3-Butadiene	3.48	54	10141	Below Cal	#	78
6) Bromomethane	4.25	94	6500	1.0861	ug/L	98
7) Chloroethane	4.40	64	6429	1.0515	ug/L	95
8) Trichlorofluoromethane	4.89	101	15848	1.1131	ug/L	96
9) Diethyl ether	5.42	59	20067	4.6938	ug/L	96
10) Isoprene	5.45	67	11910	1.1184	ug/L	99
11) Acrolein	5.62	56	650	1.1067	ug/L	# 13
12) 1,1,2-Trichloro-1,2,2-Trif	5.67	101	8167	1.1147	ug/L	99
13) Acetone	5.72	43	1775	1.5273	ug/L	# 48
14) 1,1-Dichloroethene	5.95	61	13580	1.1161	ug/L	98
15) Tert-Butyl Alcohol	6.07	59	2271	8.8575	ug/L	# 90
16) Dimethyl Sulfide	6.19	62	9634	1.0821	ug/L	98
17) Iodomethane	6.44	142	4742	1.2864	ug/L	90
18) Methyl acetate	6.48	43	4939	1.0369	ug/L	# 66
19) Methylene Chloride	6.72	84	7832	1.0414	ug/L	98
20) Carbon Disulfide	6.74	76	21612	1.0456	ug/L	100
21) Acrylonitrile	6.88	53	1192	0.7392	ug/L	67
22) Methyl Tert Butyl Ether	6.98	73	13864	1.0633	ug/L	94
23) trans-1,2-Dichloroethene	7.18	61	12433	1.0885	ug/L	94
24) n-Hexane	7.31	57	11483	1.1521	ug/L	99
25) Diisopropyl ether	7.64	45	118572	4.8276	ug/L	98
26) Vinyl Acetate	7.77	43	1226	2.8081	ug/L	# 78
27) 1,1-Dichloroethane	7.79	63	15443	1.0731	ug/L	94
28) Ethyl-Tert-Butyl ether	8.22	59	95266	4.7805	ug/L	99
29) 2-Butanone	8.36	43	1229	0.7073	ug/L	# 56
30) Propionitrile	8.45	54	1935	3.9123	ug/L	# 58
31) 2,2-Dichloropropane	8.57	77	12107	1.0211	ug/L	94
32) cis-1,2-Dichloroethene	8.63	96	8637	1.1020	ug/L	91
33) Chloroform	8.85	83	13622	1.0486	ug/L	94
34) 1-Bromopropane	8.99	122	789	0.8122	ug/L	62
35) Bromochloromethane	9.07	130	4789	1.0374	ug/L	93
36) Tetrahydrofuran	9.11	42	4761	4.6136	ug/L	84
38) 1,1,1-Trichloroethane	9.39	97	12589	1.0078	ug/L	97
39) Cyclohexane	9.43	56	14718	1.1088	ug/L	97
40) 1,1-Dichloropropene	9.59	75	11136	1.0731	ug/L	94
41) Tert-Amyl-Methyl ether	9.71	73	65884	4.6688	ug/L	# 98
42) Carbon Tetrachloride	9.73	117	12285	1.0323	ug/L	96
45) 1,2-Dichloroethane	9.88	62	9456	1.0413	ug/L	96

(#) = qualifier out of range (m) = manual integration
 8M380359.D 8260WTR.M Fri Jun 29 09:28:23 2012

Data File : C:\MSDCHEM\1\DATA\062812\8M380359.D Vial: 4
 Acq On : 28 Jun 2012 19:41 Operator: adc
 Sample : WG401797-04 1.0ug/L STD 8260 Inst : HPMS8
 Misc : 1,1 STD51967 Multiplr: 1.00
 MS Integration Params: RTEINT.P
 Quant Time: Jun 29 09:28:23 2012 Quant Results File: 8260WTR.RES

Quant Method : C:\MSDCHEM\1\METHODS\8260WTR.M (RTE Integrator)
 Title : Method 8260B/624 WTR-SOP:OVLMSV01 06/28/12 HPMS 8
 Last Update : Fri Jun 29 09:27:59 2012
 Response via : Initial Calibration
 DataAcq Meth : 8260WTR

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
46) Benzene	9.92	78	32466	1.1053	ug/L	98
47) Trichloroethene	10.70	130	9460	1.0390	ug/L	99
48) Methylcyclohexane	10.79	83	11611	1.1370	ug/L	97
49) 1,2-Dichloropropane	10.90	63	8449	1.0604	ug/L	95
50) Bromodichloromethane	11.19	83	9222	0.9956	ug/L	97
52) Dibromomethane	11.26	93	3362	0.9603	ug/L	97
54) 4-Methyl-2-Pentanone	11.55	58	774	0.5175	ug/L #	39
55) cis-1,3-Dichloropropene	11.84	75	9696	0.9603	ug/L	96
56) Dimethyl Disulfide	12.09	94	8691	1.3802	ug/L	99
59) Toluene	12.26	91	35656	1.0996	ug/L	95
60) Ethyl Methacrylate	12.37	69	5059	0.9427	ug/L	97
62) trans-1,3-Dichloropropene	12.43	75	8151	0.9553	ug/L	91
63) 1,1,2-Trichloroethane	12.64	97	4685	1.0163	ug/L	95
64) 2-Hexanone	12.60	58	462	0.3530	ug/L #	1
65) 1,3-Dichloropropane	12.94	76	7773	0.9579	ug/L	80
66) Tetrachloroethene	13.08	164	8454	1.0704	ug/L	96
67) Dibromochloromethane	13.32	129	6323	0.9284	ug/L	96
68) 1,2-Dibromoethane	13.57	107	4968	1.0179	ug/L	98
69) 1-Chlorohexane	13.71	91	11809	1.1495	ug/L	92
70) Chlorobenzene	14.08	112	23719	1.0651	ug/L	75
71) 1,1,1,2-Tetrachloroethane	14.12	131	8574	1.0124	ug/L	98
72) Ethylbenzene	14.12	106	13752	1.0644	ug/L	96
73) m-,p-Xylene	14.22	106	33579	2.1368	ug/L	98
74) o-Xylene	14.77	106	15603	1.0084	ug/L	92
75) Styrene	14.80	104	25986	1.0342	ug/L	96
76) Bromoform	15.27	173	3870	0.9147	ug/L	91
77) Isopropylbenzene	15.20	105	41594	1.0799	ug/L	98
79) 1,1,2,2-Tetrachloroethane	15.39	83	3801	1.0317	ug/L #	91
81) 1,2,3-Trichloropropane	15.58	110	1291	0.8865	ug/L #	57
82) trans-1,4-Dichloro-2-Buten	15.63	53	519	1.2249	ug/L #	23
83) n-Propylbenzene	15.70	91	46529	1.1155	ug/L	97
84) Bromobenzene	15.81	156	10204	1.0386	ug/L	88
85) 1,3,5-Trimethylbenzene	15.90	105	34180	1.0723	ug/L	99
86) 2-Chlorotoluene	15.96	91	29519	1.1037	ug/L	96
87) 4-Chlorotoluene	16.01	91	29927	1.0916	ug/L	99
88) a-Methylstyrene	16.29	118	18481	1.0217	ug/L	100
89) tert-Butylbenzene	16.36	134	7713	1.0789	ug/L	95
90) 1,2,4-Trimethylbenzene	16.41	105	34703	1.0617	ug/L	97
91) sec-Butylbenzene	16.62	105	39606	1.0677	ug/L	97
92) p-Isopropyltoluene	16.79	119	33827	1.0412	ug/L	98
93) 1,3-Dichlorobenzene	16.96	146	20866	1.0609	ug/L	96
94) 1,4-Dichlorobenzene	17.09	146	22061	1.0771	ug/L #	73
95) n-Butylbenzene	17.31	91	30169	1.0893	ug/L	97
96) 1,2-Dichlorobenzene	17.58	146	18742	1.0592	ug/L	97
97) 1,2-Dibromo-3-Chloropropan	18.55	75	476	0.5704	ug/L	78
98) 1,2,4-Trichlorobenzene	19.71	180	13000	1.0637	ug/L	96
99) Hexachlorobutadiene	19.87	225	5749	1.0848	ug/L	99
100) Naphthalene	20.06	128	19925	1.0534	ug/L	98
101) 1,2,3-Trichlorobenzene	20.37	180	11727	1.1110	ug/L	95

(#) = qualifier out of range (m) = manual integration
 8M380359.D 8260WTR.M Fri Jun 29 09:28:24 2012

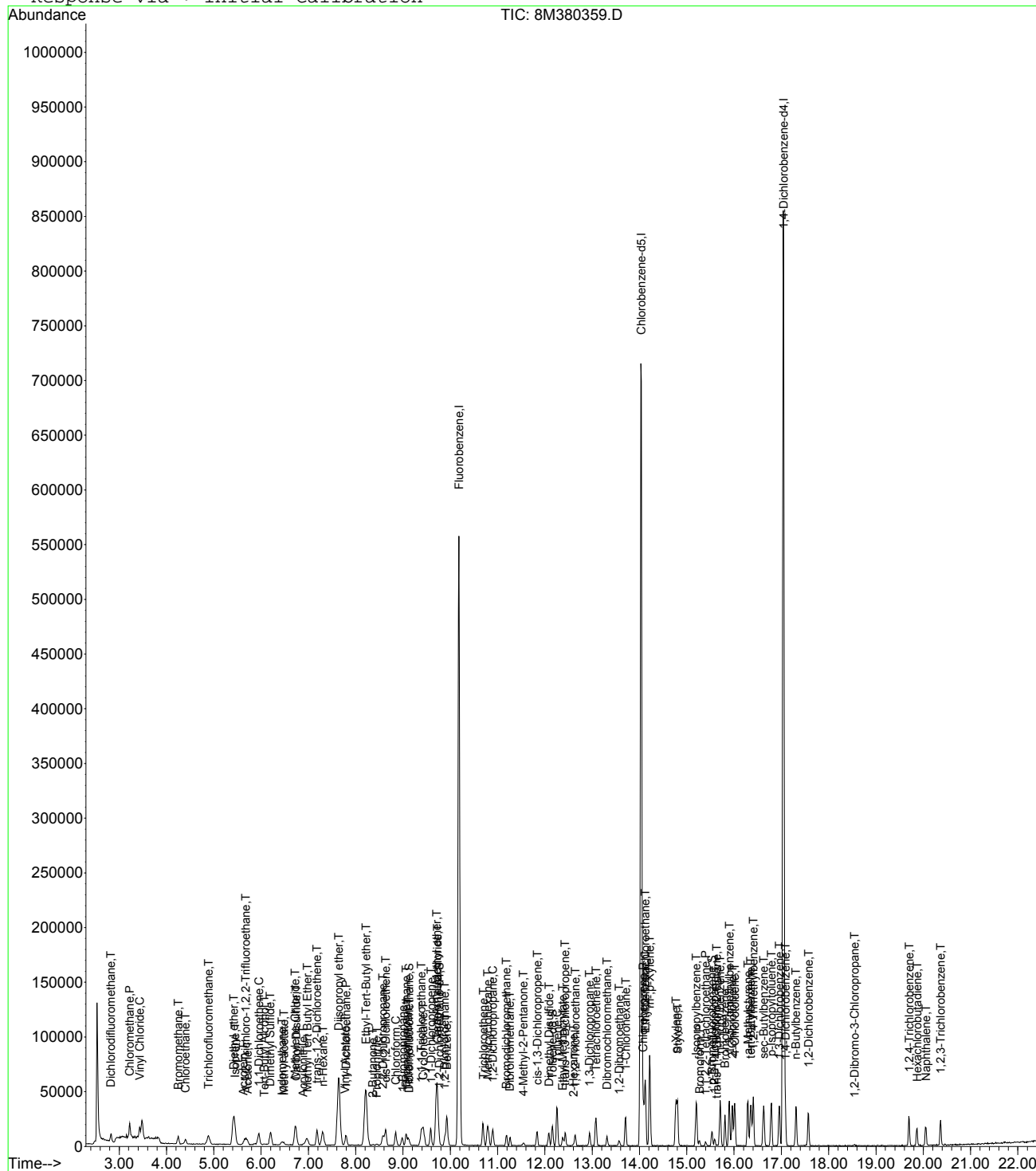
Page 2

Data File : C:\MSDCHEM\1\DATA\062812\8M380359.D
Acq On : 28 Jun 2012 19:41
Sample : WG401797-04 1.0ug/L STD 8260
Misc : 1,1 STD51967
MS Integration Params: RTEINT.P
Quant Time: Jun 29 9:28 2012

Vial: 4
Operator: adc
Inst : HPMS8
Multiplr: 1.00

Quant Results File: 8260WTR.RES

Method : C:\MSDCHEM\1\METHODS\8260WTR.M (RTE Integrator)
Title : Method 8260B/624 WTR-SOP:OVLMSV01 06/28/12 HPMS 8
Last Update : Fri Jun 29 09:27:59 2012
Response via : Initial Calibration



Data File : C:\MSDCHEM\1\DATA\062812\8M380360.D Vial: 5
 Acq On : 28 Jun 2012 20:12 Operator: adc
 Sample : WG401797-05 2.0ug/L STD 8260 Inst : HPMS8
 Misc : 1,1 STD51967 Multiplr: 1.00
 MS Integration Params: RTEINT.P
 Quant Time: Jun 29 09:30:07 2012 Quant Results File: 8260WTR.RES

Quant Method : C:\MSDCHEM\1\METHODS\8260WTR.M (RTE Integrator)
 Title : Method 8260B/624 WTR-SOP:OVLMSV01 06/28/12 HPMS 8
 Last Update : Fri Jun 29 09:29:43 2012
 Response via : Initial Calibration
 DataAcq Meth : 8260WTR

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene	10.18	96	668973	25.00	ug/L	0.00
57) Chlorobenzene-d5	14.03	117	545777	25.00	ug/L	0.00
78) 1,4-Dichlorobenzene-d4	17.04	152	306052	25.00	ug/L	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
37) Dibromofluoromethane	9.13	111	6578	0.9144	ug/L	0.00
Spiked Amount	25.000	Range 86 - 118	Recovery	=	3.64%#	
43) 1,2-Dichloroethane-d4	9.77	65	6884	1.0268	ug/L	0.00
Spiked Amount	25.000	Range 80 - 120	Recovery	=	4.12%#	
58) Toluene-d8	12.16	98	26367	1.0574	ug/L	0.00
Spiked Amount	25.000	Range 88 - 110	Recovery	=	4.24%#	
80) p-Bromofluorobenzene	15.53	95	10072	0.9913	ug/L	0.00
Spiked Amount	25.000	Range 86 - 115	Recovery	=	3.96%#	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	2.82	85	18783	1.9778	ug/L	98
3) Chloromethane	3.23	50	27255	2.1436	ug/L	97
4) Vinyl Chloride	3.43	62	19545	1.9223	ug/L	94
5) 1,3-Butadiene	3.48	54	21059	Below Cal		85
6) Bromomethane	4.25	94	11400	1.9281	ug/L	93
7) Chloroethane	4.40	64	11040	1.8275	ug/L	96
8) Trichlorofluoromethane	4.88	101	28409	2.0195	ug/L	97
9) Diethyl ether	5.41	59	111734	26.4527	ug/L	98
10) Isoprene	5.44	67	20802	1.9772	ug/L	97
11) Acrolein	5.60	56	2011	3.4654	ug/L	96
12) 1,1,2-Trichloro-1,2,2-Trif	5.67	101	14210	1.9630	ug/L	95
13) Acetone	5.72	43	3117	2.7146	ug/L	# 72
14) 1,1-Dichloroethene	5.95	61	23715	1.9728	ug/L	96
15) Tert-Butyl Alcohol	6.08	59	12028	47.4826	ug/L	# 87
16) Dimethyl Sulfide	6.20	62	16327	1.8562	ug/L	99
17) Iodomethane	6.44	142	9327	1.8009	ug/L	100
18) Methyl acetate	6.47	43	10238	2.1755	ug/L	# 84
19) Methylene Chloride	6.72	84	15628	2.1032	ug/L	95
20) Carbon Disulfide	6.74	76	38546	1.8875	ug/L	98
21) Acrylonitrile	6.88	53	2711	1.7017	ug/L	91
22) Methyl Tert Butyl Ether	6.97	73	26166	2.0311	ug/L	99
23) trans-1,2-Dichloroethene	7.17	61	23485	2.0811	ug/L	98
24) n-Hexane	7.30	57	20366	2.0682	ug/L	99
25) Diisopropyl ether	7.64	45	631649	26.0300	ug/L	99
26) Vinyl Acetate	7.78	43	4384	3.3373	ug/L	# 78
27) 1,1-Dichloroethane	7.80	63	29359	2.0648	ug/L	99
28) Ethyl-Tert-Butyl ether	8.21	59	507967	25.8001	ug/L	99
29) 2-Butanone	8.35	43	2984	1.7381	ug/L	# 71
30) Propionitrile	8.44	54	11108	22.7320	ug/L	96
31) 2,2-Dichloropropane	8.58	77	23123	1.9738	ug/L	98
32) cis-1,2-Dichloroethene	8.63	96	15499	2.0015	ug/L	100
33) Chloroform	8.85	83	25399	1.9789	ug/L	98
34) 1-Bromopropane	8.98	122	2338	1.9733	ug/L	81
35) Bromochloromethane	9.07	130	8867	1.9442	ug/L	93
36) Tetrahydrofuran	9.10	42	23221	22.7754	ug/L	98
38) 1,1,1-Trichloroethane	9.39	97	24587	1.9922	ug/L	96
39) Cyclohexane	9.43	56	26257	2.0021	ug/L	97
40) 1,1-Dichloropropene	9.59	75	21104	2.0583	ug/L	98
41) Tert-Amyl-Methyl ether	9.71	73	354667	25.4385	ug/L	100
42) Carbon Tetrachloride	9.73	117	23401	1.9902	ug/L	100
45) 1,2-Dichloroethane	9.88	62	17879	1.9928	ug/L	98

(#) = qualifier out of range (m) = manual integration
 8M380360.D 8260WTR.M Fri Jun 29 09:30:55 2012

Data File : C:\MSDCHEM\1\DATA\062812\8M380360.D Vial: 5
 Acq On : 28 Jun 2012 20:12 Operator: adc
 Sample : WG401797-05 2.0ug/L STD 8260 Inst : HPMS8
 Misc : 1,1 STD51967 Multiplr: 1.00
 MS Integration Params: RTEINT.P
 Quant Time: Jun 29 09:30:07 2012 Quant Results File: 8260WTR.RES

Quant Method : C:\MSDCHEM\1\METHODS\8260WTR.M (RTE Integrator)
 Title : Method 8260B/624 WTR-SOP:OVLMSV01 06/28/12 HPMS 8
 Last Update : Fri Jun 29 09:29:43 2012
 Response via : Initial Calibration
 DataAcq Meth : 8260WTR

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
46) Benzene	9.93	78	58307	2.0092	ug/L	99
47) Trichloroethene	10.69	130	17953	1.9958	ug/L	97
48) Methylcyclohexane	10.79	83	19830	1.9654	ug/L	99
49) 1,2-Dichloropropane	10.90	63	15556	1.9762	ug/L	98
50) Bromodichloromethane	11.19	83	17080	1.8663	ug/L	98
51) 1,4-Dioxane	11.18	88	1212	40.1166	ug/L	96
52) Dibromomethane	11.26	93	6595	1.9066	ug/L	95
53) 2-Chloroethyl Vinyl Ether	11.52	63	1307	1.6497	ug/L #	51
54) 4-Methyl-2-Pentanone	11.55	58	2089	1.4138	ug/L #	69
55) cis-1,3-Dichloropropene	11.83	75	19660	1.9708	ug/L	98
56) Dimethyl Disulfide	12.09	94	17330	2.0452	ug/L	97
59) Toluene	12.26	91	66415	2.0912	ug/L	98
60) Ethyl Methacrylate	12.38	69	9401	1.7887	ug/L	99
61) Paraldehyde	12.41	89	1460	20.4602	ug/L #	13
62) trans-1,3-Dichloropropene	12.44	75	15804	1.8913	ug/L	100
63) 1,1,2-Trichloroethane	12.64	97	9210	2.0399	ug/L	99
64) 2-Hexanone	12.60	58	1720	1.3417	ug/L #	46
65) 1,3-Dichloropropane	12.94	76	16027	2.0167	ug/L	99
66) Tetrachloroethene	13.08	164	16385	2.1182	ug/L	97
67) Dibromochloromethane	13.32	129	12432	1.8638	ug/L	100
68) 1,2-Dibromoethane	13.56	107	9395	1.9655	ug/L	98
69) 1-Chlorohexane	13.71	91	19323	1.9205	ug/L	97
70) Chlorobenzene	14.08	112	43076	1.9749	ug/L	83
71) 1,1,1,2-Tetrachloroethane	14.11	131	15894	1.9163	ug/L	98
72) Ethylbenzene	14.12	106	25408	2.0079	ug/L	98
73) m-,p-Xylene	14.22	106	62400	4.0544	ug/L	95
74) o-Xylene	14.77	106	30371	2.0041	ug/L	96
75) Styrene	14.81	104	49864	2.0261	ug/L	98
76) Bromoform	15.27	173	7620	1.8390	ug/L	91
77) Isopropylbenzene	15.20	105	78512	2.0812	ug/L	95
79) 1,1,2,2-Tetrachloroethane	15.41	83	7850	1.9193	ug/L	97
81) 1,2,3-Trichloropropane	15.59	110	2813	1.9510	ug/L	83
82) trans-1,4-Dichloro-2-Buten	15.64	53	1746	2.0341	ug/L #	1
83) n-Propylbenzene	15.70	91	87961	2.1300	ug/L	98
84) Bromobenzene	15.81	156	19371	1.9915	ug/L	94
85) 1,3,5-Trimethylbenzene	15.90	105	65092	2.0626	ug/L	98
86) 2-Chlorotoluene	15.96	91	55097	2.0808	ug/L	97
87) 4-Chlorotoluene	16.02	91	56292	2.0738	ug/L	98
88) a-Methylstyrene	16.29	118	32954	1.8401	ug/L	98
89) tert-Butylbenzene	16.36	134	14087	1.9903	ug/L	92
90) 1,2,4-Trimethylbenzene	16.41	105	65847	2.0349	ug/L	99
91) sec-Butylbenzene	16.63	105	75951	2.0682	ug/L	97
92) p-Isopropyltoluene	16.79	119	65732	2.0436	ug/L	98
93) 1,3-Dichlorobenzene	16.96	146	40000	2.0542	ug/L	99
94) 1,4-Dichlorobenzene	17.08	146	39501	1.9480	ug/L	86
95) n-Butylbenzene	17.31	91	55359	2.0189	ug/L	98
96) 1,2-Dichlorobenzene	17.58	146	36154	2.0637	ug/L	95
97) 1,2-Dibromo-3-Chloropropan	18.55	75	1320	1.5977	ug/L	87
98) 1,2,4-Trichlorobenzene	19.70	180	25086	2.0733	ug/L	98
99) Hexachlorobutadiene	19.86	225	10306	1.9643	ug/L	95
100) Naphthalene	20.05	128	38963	2.0807	ug/L	98
101) 1,2,3-Trichlorobenzene	20.37	180	20909	2.0007	ug/L	97

(#) = qualifier out of range (m) = manual integration
 8M380360.D 8260WTR.M Fri Jun 29 09:30:55 2012

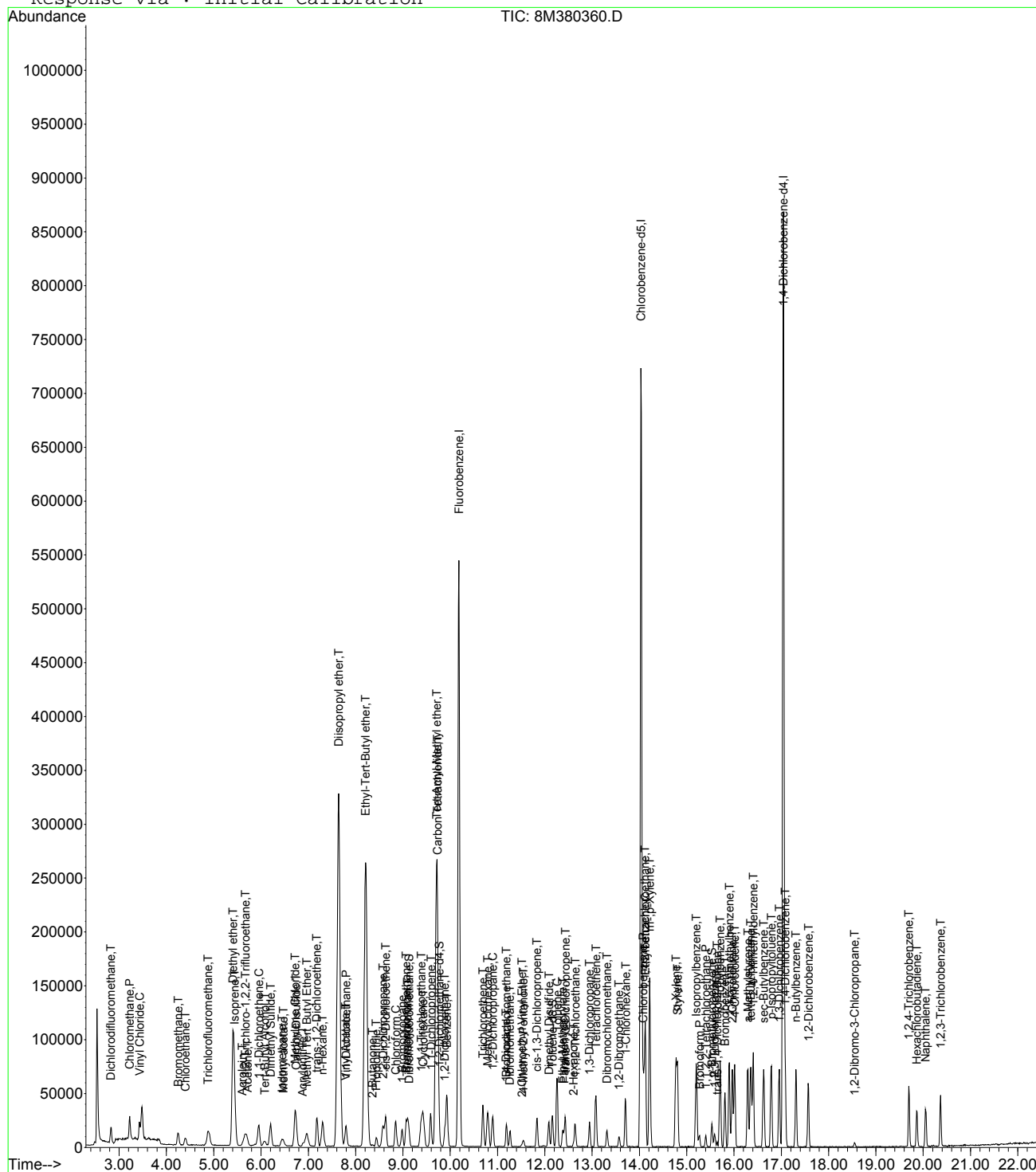
Page 2

Data File : C:\MSDCHEM\1\DATA\062812\8M380360.D
Acq On : 28 Jun 2012 20:12
Sample : WG401797-05 2.0ug/L STD 8260
Misc : 1,1 STD51967
MS Integration Params: RTEINT.P
Quant Time: Jun 29 9:30 2012

Vial: 5
Operator: adc
Inst : HPMS8
Multiplr: 1.00

Quant Results File: 8260WTR.RES

Method : C:\MSDCHEM\1\METHODS\8260WTR.M (RTE Integrator)
Title : Method 8260B/624 WTR-SOP:OVLMSV01 06/28/12 HPMS 8
Last Update : Fri Jun 29 09:29:43 2012
Response via : Initial Calibration



Data File : C:\MSDCHEM\1\DATA\062812\8M380361.D Vial: 6
 Acq On : 28 Jun 2012 20:42 Operator: adc
 Sample : WG401797-06 5.0ug/L STD 8260 Inst : HPMS8
 Misc : 1,1 STD51967 Multiplr: 1.00

MS Integration Params: RTEINT.P

Quant Time: Jun 29 09:31:48 2012

Quant Results File: 8260WTR.RES

Quant Method : C:\MSDCHEM\1\METHODS\8260WTR.M (RTE Integrator)
 Title : Method 8260B/624 WTR-SOP:OVLMSV01 06/28/12 HPMS 8
 Last Update : Fri Jun 29 09:29:43 2012
 Response via : Initial Calibration
 DataAcq Meth : 8260WTR

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene	10.18	96	679002	25.00	ug/L	0.00
57) Chlorobenzene-d5	14.04	117	550757	25.00	ug/L	0.00
78) 1,4-Dichlorobenzene-d4	17.05	152	308277	25.00	ug/L	0.00

System Monitoring Compounds

37) Dibromofluoromethane	9.13	111	16733	2.2916	ug/L	0.00
Spiked Amount	25.000	Range	86 - 118	Recovery	=	9.16%#
43) 1,2-Dichloroethane-d4	9.77	65	16534	2.4297	ug/L	0.00
Spiked Amount	25.000	Range	80 - 120	Recovery	=	9.72%#
58) Toluene-d8	12.16	98	63403	2.5196	ug/L	0.00
Spiked Amount	25.000	Range	88 - 110	Recovery	=	10.08%#
80) p-Bromofluorobenzene	15.53	95	25678	2.5091	ug/L	0.00
Spiked Amount	25.000	Range	86 - 115	Recovery	=	10.04%#

Target Compounds

	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	2.83	85	46161	4.7888	ug/L	99
3) Chloromethane	3.22	50	62173	4.8176	ug/L	99
4) Vinyl Chloride	3.43	62	44192	5.4958	ug/L	97
5) 1,3-Butadiene	3.47	54	40590	4.8489	ug/L	93
6) Bromomethane	4.24	94	30310	5.0505	ug/L	100
7) Chloroethane	4.40	64	29274	4.7744	ug/L	97
8) Trichlorofluoromethane	4.89	101	71633	5.0170	ug/L	98
9) Diethyl ether	5.41	59	219222	51.1336	ug/L	99
10) Isoprene	5.44	67	54465	5.1004	ug/L	99
11) Acrolein	5.61	56	5361	9.1018	ug/L	98
12) 1,1,2-Trichloro-1,2,2-Trif	5.67	101	37730	5.1352	ug/L	97
13) Acetone	5.72	43	5932	5.0900	ug/L	91
14) 1,1-Dichloroethene	5.95	61	62111	5.0905	ug/L	99
15) Tert-Butyl Alcohol	6.08	59	24666	95.9350	ug/L	96
16) Dimethyl Sulfide	6.20	62	42819	4.7961	ug/L	99
17) Iodomethane	6.43	142	31062	4.1520	ug/L	98
18) Methyl acetate	6.47	43	25489	5.3362	ug/L	94
19) Methylene Chloride	6.72	84	36141	4.7920	ug/L	99
20) Carbon Disulfide	6.74	76	101450	4.8944	ug/L	99
21) Acrylonitrile	6.88	53	6598	4.0803	ug/L	98
22) Methyl Tert Butyl Ether	6.96	73	64361	4.9221	ug/L	100
23) trans-1,2-Dichloroethene	7.18	61	57449	5.0157	ug/L	98
24) n-Hexane	7.30	57	52696	5.2724	ug/L	100
25) Diisopropyl ether	7.64	45	1280093	51.9729	ug/L	99
26) Vinyl Acetate	7.77	43	17747	5.5283	ug/L	96
27) 1,1-Dichloroethane	7.79	63	70039	4.8531	ug/L	99
28) Ethyl-Tert-Butyl ether	8.21	59	1026972	51.3904	ug/L	100
29) 2-Butanone	8.35	43	7918	4.5440	ug/L	85
30) Propionitrile	8.45	54	23996	48.3813	ug/L	97
31) 2,2-Dichloropropane	8.58	77	58770	4.9426	ug/L	99
32) cis-1,2-Dichloroethene	8.63	96	38249	4.8665	ug/L	99
33) Chloroform	8.85	83	61471	4.7187	ug/L	98
34) 1-Bromopropane	8.98	122	6470	4.9807	ug/L	97
35) Bromochloromethane	9.07	130	23265	5.0257	ug/L	98
36) Tetrahydrofuran	9.10	42	47737	46.1294	ug/L	99
38) 1,1,1-Trichloroethane	9.38	97	60011	4.7906	ug/L	98
39) Cyclohexane	9.43	56	67119	5.0422	ug/L	100
40) 1,1-Dichloropropene	9.58	75	51041	4.9046	ug/L	99
41) Tert-Amyl-Methyl ether	9.72	73	718685	50.7864	ug/L	100
42) Carbon Tetrachloride	9.73	117	58486	4.9007	ug/L	100
45) 1,2-Dichloroethane	9.88	62	43689	4.7978	ug/L	99

(#) = qualifier out of range (m) = manual integration
 8M380361.D 8260WTR.M Fri Jun 29 09:31:49 2012

Page 1

Data File : C:\MSDCHEM\1\DATA\062812\8M380361.D Vial: 6
 Acq On : 28 Jun 2012 20:42 Operator: adc
 Sample : WG401797-06 5.0ug/L STD 8260 Inst : HPMS8
 Misc : 1,1 STD51967 Multiplr: 1.00
 MS Integration Params: RTEINT.P
 Quant Time: Jun 29 09:31:48 2012 Quant Results File: 8260WTR.RES

Quant Method : C:\MSDCHEM\1\METHODS\8260WTR.M (RTE Integrator)
 Title : Method 8260B/624 WTR-SOP:OVLMSV01 06/28/12 HPMS 8
 Last Update : Fri Jun 29 09:29:43 2012
 Response via : Initial Calibration
 DataAcq Meth : 8260WTR

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
46) Benzene	9.92	78	146225	4.9644	ug/L	99
47) Trichloroethene	10.69	130	43907	4.8090	ug/L	99
48) Methylcyclohexane	10.79	83	50528	4.9340	ug/L	96
49) 1,2-Dichloropropane	10.90	63	39255	4.9131	ug/L	100
50) Bromodichloromethane	11.19	83	43115	4.6415	ug/L	98
51) 1,4-Dioxane	11.19	88	2663	86.8420	ug/L	97
52) Dibromomethane	11.26	93	16659	4.7449	ug/L	98
53) 2-Chloroethyl Vinyl Ether	11.51	63	3388	4.2133	ug/L	96
54) 4-Methyl-2-Pentanone	11.55	58	6447	4.2987	ug/L	92
55) cis-1,3-Dichloropropene	11.84	75	50434	4.9811	ug/L	96
56) Dimethyl Disulfide	12.08	94	46131	4.1837	ug/L	100
59) Toluene	12.26	91	158618	4.9491	ug/L	100
60) Ethyl Methacrylate	12.37	69	25704	4.8464	ug/L	97
61) Paraldehyde	12.41	89	3069	42.6195	ug/L #	30
62) trans-1,3-Dichloropropene	12.44	75	41893	4.9680	ug/L	99
63) 1,1,2-Trichloroethane	12.64	97	21591	4.7389	ug/L	98
64) 2-Hexanone	12.60	58	5555	4.2939	ug/L	87
65) 1,3-Dichloropropane	12.94	76	40419	5.0399	ug/L	99
66) Tetrachloroethene	13.08	164	39023	4.9992	ug/L	99
67) Dibromochloromethane	13.32	129	32249	4.7910	ug/L	96
68) 1,2-Dibromoethane	13.57	107	24145	5.0056	ug/L	99
69) 1-Chlorohexane	13.71	91	51413	5.0637	ug/L	98
70) Chlorobenzene	14.08	112	109489	4.9743	ug/L	95
71) 1,1,1,2-Tetrachloroethane	14.12	131	40734	4.8667	ug/L	98
72) Ethylbenzene	14.12	106	60564	4.7428	ug/L	95
73) m-,p-Xylene	14.21	106	151690	9.7668	ug/L	95
74) o-Xylene	14.77	106	73498	4.8060	ug/L	96
75) Styrene	14.80	104	122074	4.9154	ug/L	99
76) Bromoform	15.27	173	18254	4.3655	ug/L	98
77) Isopropylbenzene	15.20	105	188825	4.9602	ug/L	97
79) 1,1,2,2-Tetrachloroethane	15.40	83	20805	4.7004	ug/L	96
81) 1,2,3-Trichloropropane	15.59	110	7281	5.0134	ug/L	76
82) trans-1,4-Dichloro-2-Buten	15.64	53	5097	4.2107	ug/L #	1
83) n-Propylbenzene	15.70	91	211173	5.0767	ug/L	99
84) Bromobenzene	15.81	156	48340	4.9340	ug/L	98
85) 1,3,5-Trimethylbenzene	15.90	105	159288	5.0111	ug/L	98
86) 2-Chlorotoluene	15.96	91	131905	4.9456	ug/L	94
87) 4-Chlorotoluene	16.01	91	140804	5.1499	ug/L	91
88) a-Methylstyrene	16.29	118	90515	5.0177	ug/L	99
89) tert-Butylbenzene	16.35	134	34063	4.7778	ug/L	93
90) 1,2,4-Trimethylbenzene	16.41	105	164103	5.0346	ug/L	98
91) sec-Butylbenzene	16.62	105	185209	5.0069	ug/L	98
92) p-Isopropyltoluene	16.79	119	159526	4.9239	ug/L	97
93) 1,3-Dichlorobenzene	16.95	146	97856	4.9891	ug/L	99
94) 1,4-Dichlorobenzene	17.09	146	97376	4.7674	ug/L	95
95) n-Butylbenzene	17.31	91	138376	5.0100	ug/L	98
96) 1,2-Dichlorobenzene	17.57	146	85177	4.8269	ug/L	99
97) 1,2-Dibromo-3-Chloropropan	18.55	75	3782	4.5446	ug/L	97
98) 1,2,4-Trichlorobenzene	19.70	180	59053	4.8453	ug/L	98
99) Hexachlorobutadiene	19.87	225	25602	4.8445	ug/L	97
100) Naphthalene	20.05	128	93810	4.9734	ug/L	98
101) 1,2,3-Trichlorobenzene	20.37	180	49700	4.7213	ug/L	99

(#) = qualifier out of range (m) = manual integration
 8M380361.D 8260WTR.M Fri Jun 29 09:31:49 2012

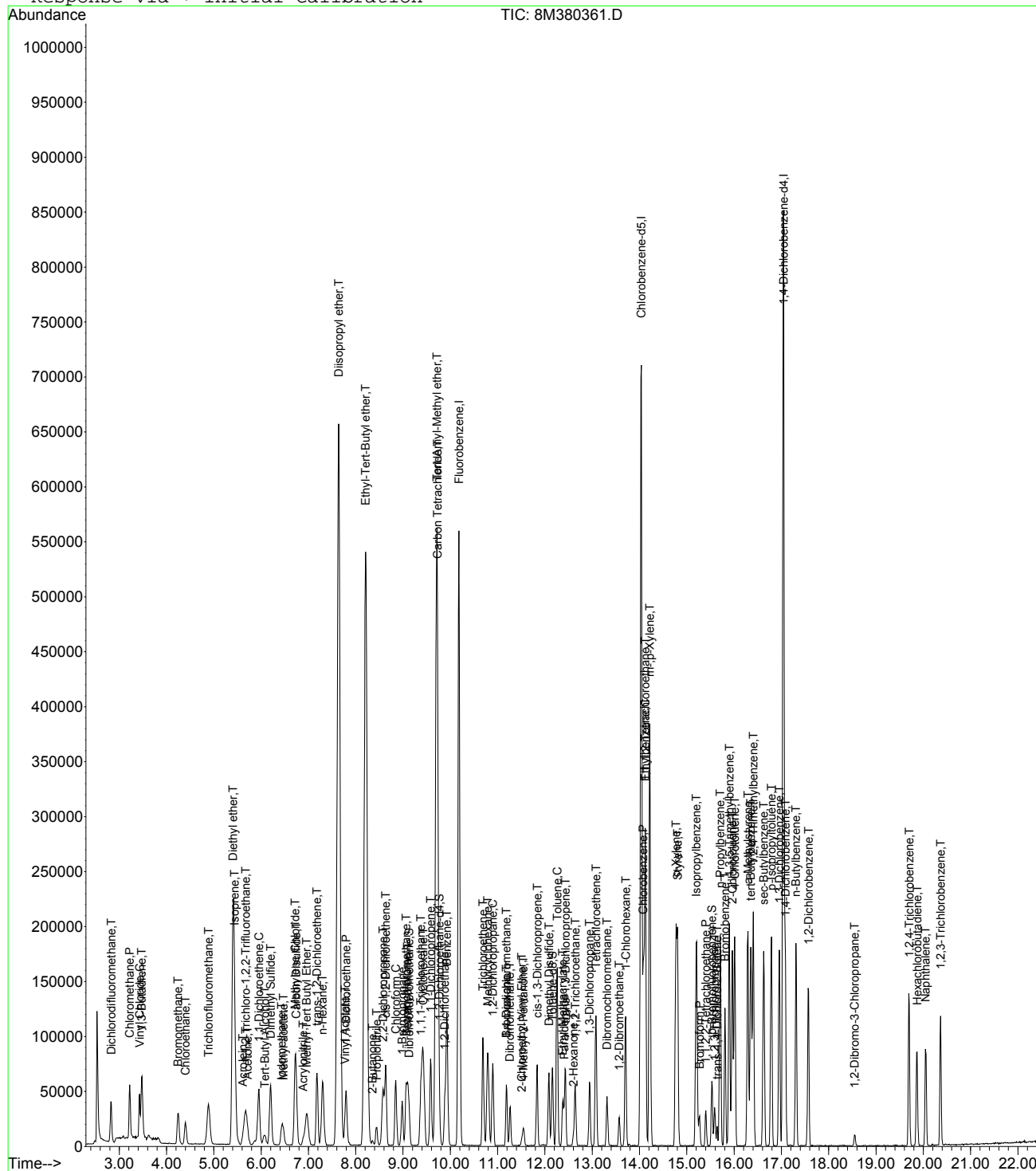
Page 2

Data File : C:\MSDCHEM\1\DATA\062812\8M380361.D
Acq On : 28 Jun 2012 20:42
Sample : WG401797-06 5.0ug/L STD 8260
Misc : 1,1 STD51967
MS Integration Params: RTEINT.P
Quant Time: Jun 29 9:31 2012

Vial: 6
Operator: adc
Inst : HPMS8
Multiplr: 1.00

Quant Results File: 8260WTR.RES

Method : C:\MSDCHEM\1\METHODS\8260WTR.M (RTE Integrator)
Title : Method 8260B/624 WTR-SOP:OVLMSV01 06/28/12 HPMS 8
Last Update : Fri Jun 29 09:29:43 2012
Response via : Initial Calibration



Data File : C:\MSDCHEM\1\DATA\062812\8M380362.D Vial: 7
 Acq On : 28 Jun 2012 21:12 Operator: adc
 Sample : WG401797-07 20.0ug/L STD 8260 Inst : HPMS8
 Misc : 1,1 STD51967 Multiplr: 1.00
 MS Integration Params: RTEINT.P
 Quant Time: Jun 29 09:31:50 2012 Quant Results File: 8260WTR.RES

Quant Method : C:\MSDCHEM\1\METHODS\8260WTR.M (RTE Integrator)
 Title : Method 8260B/624 WTR-SOP:OVLMSV01 06/28/12 HPMS 8
 Last Update : Fri Jun 29 09:29:43 2012
 Response via : Initial Calibration
 DataAcq Meth : 8260WTR

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene	10.18	96	673170	25.00	ug/L	0.00
57) Chlorobenzene-d5	14.03	117	550562	25.00	ug/L	0.00
78) 1,4-Dichlorobenzene-d4	17.04	152	321447	25.00	ug/L	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
37) Dibromofluoromethane	9.13	111	73076	10.0943	ug/L	0.00
Spiked Amount	25.000	Range 86 - 118	Recovery	=	40.36%#	
43) 1,2-Dichloroethane-d4	9.77	65	67567	10.0151	ug/L	0.00
Spiked Amount	25.000	Range 80 - 120	Recovery	=	40.08%#	
58) Toluene-d8	12.16	98	264663	10.5211	ug/L	0.00
Spiked Amount	25.000	Range 88 - 110	Recovery	=	42.08%#	
80) p-Bromofluorobenzene	15.53	95	109240	10.2371	ug/L	0.00
Spiked Amount	25.000	Range 86 - 115	Recovery	=	40.96%#	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	2.82	85	186610	19.5270	ug/L	100
3) Chloromethane	3.22	50	238181	18.6157	ug/L	100
4) Vinyl Chloride	3.42	62	161405	22.8995	ug/L	99
5) 1,3-Butadiene	3.46	54	68777	18.6284	ug/L	94
6) Bromomethane	4.24	94	117881	19.8126	ug/L	99
7) Chloroethane	4.39	64	118833	19.5487	ug/L	100
8) Trichlorofluoromethane	4.88	101	281558	19.8905	ug/L	99
9) Diethyl ether	5.41	59	341208	80.2764	ug/L	99
10) Isoprene	5.44	67	211545	19.9819	ug/L	99
11) Acrolein	5.60	56	21867	37.4470	ug/L	96
12) 1,1,2-Trichloro-1,2,2-Trif	5.67	101	148016	20.3202	ug/L	100
13) Acetone	5.72	43	22619	19.5764	ug/L	99
14) 1,1-Dichloroethene	5.95	61	239524	19.8011	ug/L	98
15) Tert-Butyl Alcohol	6.07	59	38377	150.5551	ug/L	97
16) Dimethyl Sulfide	6.20	62	173864	19.6428	ug/L	100
17) Iodomethane	6.44	142	167954	18.9510	ug/L	100
18) Methyl acetate	6.47	43	90824	19.1792	ug/L	99
19) Methylene Chloride	6.71	84	139224	18.6198	ug/L	99
20) Carbon Disulfide	6.74	76	401947	19.5599	ug/L	99
21) Acrylonitrile	6.89	53	30581	19.0758	ug/L	93
22) Methyl Tert Butyl Ether	6.97	73	252100	19.4469	ug/L	100
23) trans-1,2-Dichloroethene	7.18	61	226204	19.9202	ug/L	100
24) n-Hexane	7.30	57	205322	20.7211	ug/L	99
25) Diisopropyl ether	7.64	45	1970397	80.6930	ug/L	100
26) Vinyl Acetate	7.78	43	90590	17.8331	ug/L	99
27) 1,1-Dichloroethane	7.80	63	284877	19.9103	ug/L	100
28) Ethyl-Tert-Butyl ether	8.21	59	1585538	80.0289	ug/L	100
29) 2-Butanone	8.35	43	30204	17.4837	ug/L	98
30) Propionitrile	8.44	54	40306	81.9700	ug/L	97
31) 2,2-Dichloropropane	8.58	77	228090	19.3488	ug/L	99
32) cis-1,2-Dichloroethene	8.63	96	153918	19.7528	ug/L	99
33) Chloroform	8.85	83	243328	18.8405	ug/L	98
34) 1-Bromopropane	8.98	122	28413	21.2688	ug/L	99
35) Bromochloromethane	9.07	130	90856	19.7967	ug/L	99
36) Tetrahydrofuran	9.10	42	80397	78.3626	ug/L	98
38) 1,1,1-Trichloroethane	9.39	97	238173	19.1778	ug/L	100
39) Cyclohexane	9.43	56	264750	20.0613	ug/L	99
40) 1,1-Dichloropropene	9.58	75	207116	20.0746	ug/L	99
41) Tert-Amyl-Methyl ether	9.71	73	1110937	79.1853	ug/L	100
42) Carbon Tetrachloride	9.73	117	231153	19.5369	ug/L	99
45) 1,2-Dichloroethane	9.88	62	173791	19.2504	ug/L	99

(#) = qualifier out of range (m) = manual integration
 8M380362.D 8260WTR.M Fri Jun 29 09:31:50 2012

Data File : C:\MSDCHEM\1\DATA\062812\8M380362.D Vial: 7
 Acq On : 28 Jun 2012 21:12 Operator: adc
 Sample : WG401797-07 20.0ug/L STD 8260 Inst : HPMS8
 Misc : 1,1 STD51967 Multiplr: 1.00
 MS Integration Params: RTEINT.P
 Quant Time: Jun 29 09:31:50 2012 Quant Results File: 8260WTR.RES

Quant Method : C:\MSDCHEM\1\METHODS\8260WTR.M (RTE Integrator)
 Title : Method 8260B/624 WTR-SOP:OVLMSV01 06/28/12 HPMS 8
 Last Update : Fri Jun 29 09:29:43 2012
 Response via : Initial Calibration
 DataAcq Meth : 8260WTR

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
46) Benzene	9.93	78	562461	19.2614	ug/L	100
47) Trichloroethene	10.69	130	173359	19.1520	ug/L	98
48) Methylcyclohexane	10.79	83	202044	19.9002	ug/L	99
49) 1,2-Dichloropropane	10.90	63	150821	19.0402	ug/L	99
50) Bromodichloromethane	11.19	83	175129	19.0167	ug/L	99
51) 1,4-Dioxane	11.19	88	4572	150.3873	ug/L	87
52) Dibromomethane	11.26	93	67223	19.3128	ug/L	99
53) 2-Chloroethyl Vinyl Ether	11.51	63	15101	18.9422	ug/L	94
54) 4-Methyl-2-Pentanone	11.55	58	26488	17.8144	ug/L	99
55) cis-1,3-Dichloropropene	11.83	75	211759	21.0955	ug/L	99
56) Dimethyl Disulfide	12.09	94	211875	16.7402	ug/L	99
59) Toluene	12.25	91	632017	19.7270	ug/L	99
60) Ethyl Methacrylate	12.38	69	109108	20.5792	ug/L	100
61) Paraldehyde	12.41	89	5804	80.6293	ug/L	51
62) trans-1,3-Dichloropropene	12.43	75	178089	21.1267	ug/L	99
63) 1,1,2-Trichloroethane	12.65	97	90632	19.8994	ug/L	99
64) 2-Hexanone	12.60	58	24321	18.8065	ug/L	92
65) 1,3-Dichloropropane	12.94	76	161840	20.1871	ug/L	100
66) Tetrachloroethene	13.08	164	151468	19.4112	ug/L	97
67) Dibromochloromethane	13.32	129	134159	19.9380	ug/L	99
68) 1,2-Dibromoethane	13.57	107	99083	20.5486	ug/L	100
69) 1-Chlorohexane	13.70	91	206610	20.3562	ug/L	100
70) Chlorobenzene	14.08	112	434066	19.7276	ug/L	98
71) 1,1,1,2-Tetrachloroethane	14.12	131	167466	20.0152	ug/L	100
72) Ethylbenzene	14.12	106	250151	19.5962	ug/L	98
73) m-,p-Xylene	14.22	106	621174	40.0094	ug/L	96
74) o-Xylene	14.77	106	305110	19.9579	ug/L	99
75) Styrene	14.81	104	508555	20.4847	ug/L	99
76) Bromoform	15.27	173	82102	19.6417	ug/L	99
77) Isopropylbenzene	15.20	105	762410	20.0345	ug/L	99
79) 1,1,2,2-Tetrachloroethane	15.41	83	91342	19.1025	ug/L	99
81) 1,2,3-Trichloropropane	15.59	110	30452	20.1087	ug/L	97
82) trans-1,4-Dichloro-2-Butene	15.64	53	26347	17.3618	ug/L	98
83) n-Propylbenzene	15.71	91	859887	19.8252	ug/L	99
84) Bromobenzene	15.81	156	199207	19.4997	ug/L	100
85) 1,3,5-Trimethylbenzene	15.90	105	656662	19.8116	ug/L	99
86) 2-Chlorotoluene	15.96	91	554399	19.9348	ug/L	98
87) 4-Chlorotoluene	16.02	91	562388	19.7265	ug/L	99
88) a-Methylstyrene	16.29	118	383201	20.3724	ug/L	99
89) tert-Butylbenzene	16.36	134	144639	19.4564	ug/L	96
90) 1,2,4-Trimethylbenzene	16.41	105	674152	19.8354	ug/L	98
91) sec-Butylbenzene	16.63	105	761817	19.7509	ug/L	99
92) p-Isopropyltoluene	16.79	119	665427	19.6974	ug/L	99
93) 1,3-Dichlorobenzene	16.96	146	401376	19.6252	ug/L	99
94) 1,4-Dichlorobenzene	17.08	146	403361	18.9389	ug/L	100
95) n-Butylbenzene	17.31	91	562289	19.5239	ug/L	99
96) 1,2-Dichlorobenzene	17.57	146	354087	19.2437	ug/L	100
97) 1,2-Dibromo-3-Chloropropane	18.55	75	17578	20.2570	ug/L	98
98) 1,2,4-Trichlorobenzene	19.70	180	243907	19.1925	ug/L	100
99) Hexachlorobutadiene	19.87	225	103853	18.8461	ug/L	99
100) Naphthalene	20.05	128	390914	19.8755	ug/L	99
101) 1,2,3-Trichlorobenzene	20.37	180	203618	18.5504	ug/L	99

(#) = qualifier out of range (m) = manual integration
 8M380362.D 8260WTR.M Fri Jun 29 09:31:50 2012

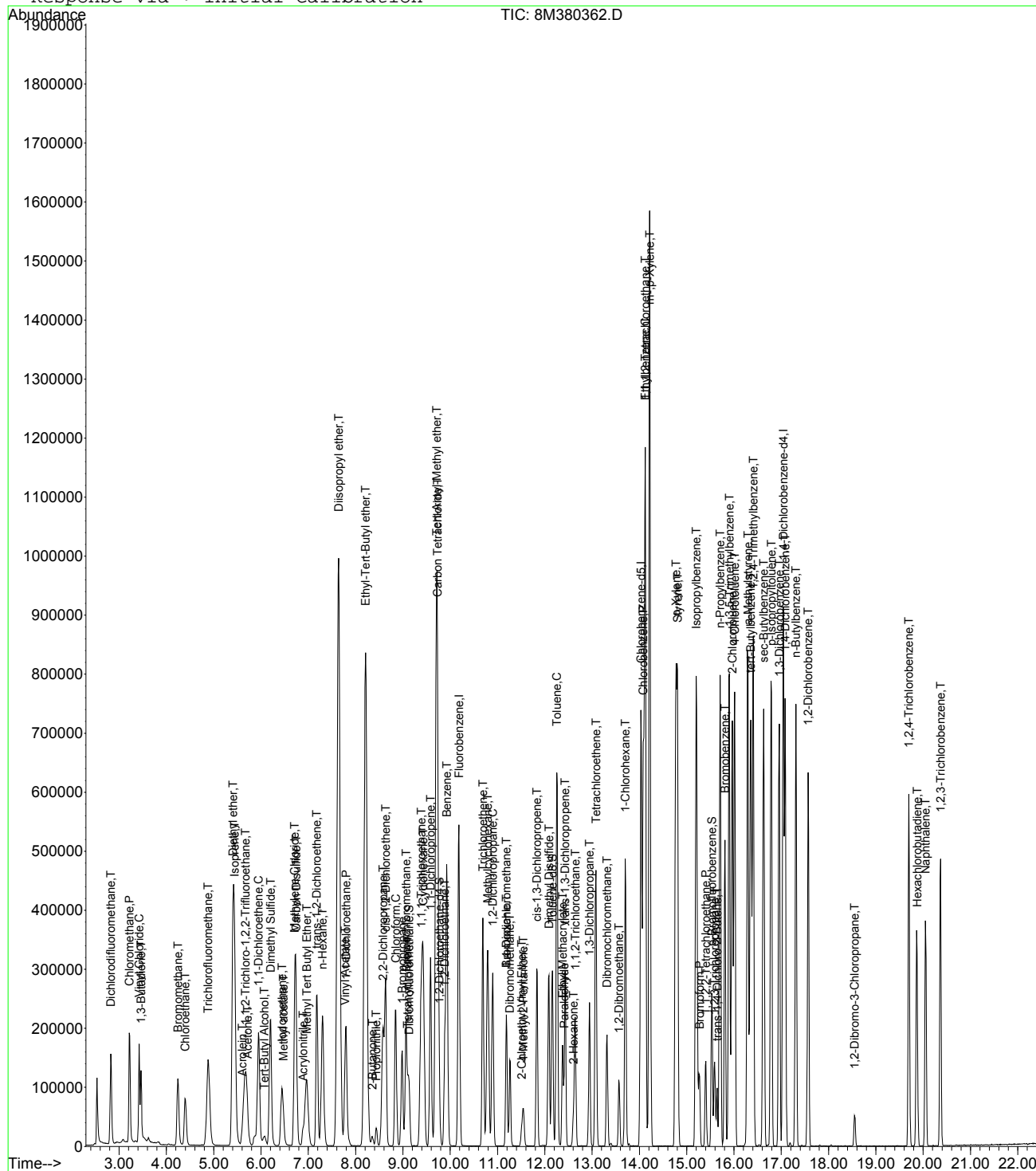
Page 2

Data File : C:\MSDCHEM\1\DATA\062812\8M380362.D
Acq On : 28 Jun 2012 21:12
Sample : WG401797-07 20.0ug/L STD 8260
Misc : 1,1 STD51967
MS Integration Params: RTEINT.P
Quant Time: Jun 29 9:31 2012

Vial: 7
Operator: adc
Inst : HPMS8
Multiplr: 1.00

Quant Results File: 8260WTR.RES

Method : C:\MSDCHEM\1\METHODS\8260WTR.M (RTE Integrator)
Title : Method 8260B/624 WTR-SOP:OVLMSV01 06/28/12 HPMS 8
Last Update : Fri Jun 29 09:29:43 2012
Response via : Initial Calibration



Data File : C:\MSDCHEM\1\DATA\062812\8M380363.D Vial: 8
 Acq On : 28 Jun 2012 21:42 Operator: adc
 Sample : WG401797-08 50.0ug/L STD 8260 Inst : HPMS8
 Misc : 1,1 STD51967 Multiplr: 1.00

MS Integration Params: RTEINT.P

Quant Time: Jun 29 09:31:51 2012

Quant Results File: 8260WTR.RES

Quant Method : C:\MSDCHEM\1\METHODS\8260WTR.M (RTE Integrator)
 Title : Method 8260B/624 WTR-SOP:OVLMSV01 06/28/12 HPMS 8
 Last Update : Fri Jun 29 09:29:43 2012
 Response via : Initial Calibration
 DataAcq Meth : 8260WTR

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene	10.18	96	686942	25.00	ug/L	0.00
57) Chlorobenzene-d5	14.03	117	575603	25.00	ug/L	0.00
78) 1,4-Dichlorobenzene-d4	17.04	152	331536	25.00	ug/L	0.00

System Monitoring Compounds

37) Dibromofluoromethane	9.13	111	193469	26.1890	ug/L	0.00
Spiked Amount	25.000	Range	86 - 118	Recovery	=	104.76%
43) 1,2-Dichloroethane-d4	9.77	65	174854	25.3982	ug/L	0.00
Spiked Amount	25.000	Range	80 - 120	Recovery	=	101.60%
58) Toluene-d8	12.16	98	679763	25.8469	ug/L	0.00
Spiked Amount	25.000	Range	88 - 110	Recovery	=	103.40%
80) p-Bromofluorobenzene	15.53	95	282232	25.6437	ug/L	0.00
Spiked Amount	25.000	Range	86 - 115	Recovery	=	102.56%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	2.82	85	469089	48.1018	ug/L	100
3) Chloromethane	3.22	50	585940	44.8777	ug/L	100
4) Vinyl Chloride	3.42	62	391015	55.7217	ug/L	100
5) 1,3-Butadiene	3.46	54	143630	53.3836	ug/L	100
6) Bromomethane	4.24	94	290902	47.9126	ug/L	100
7) Chloroethane	4.39	64	305726	49.2854	ug/L	100
8) Trichlorofluoromethane	4.88	101	701794	48.5838	ug/L	100
9) Diethyl ether	5.41	59	454098	104.6943	ug/L	100
10) Isoprene	5.44	67	557705	51.6230	ug/L	100
11) Acrolein	5.60	56	60629	101.7451	ug/L	100
12) 1,1,2-Trichloro-1,2,2-Trif	5.67	101	387614	52.1463	ug/L	100
13) Acetone	5.72	43	58987	50.0289	ug/L	100
14) 1,1-Dichloroethene	5.94	61	613069	49.6654	ug/L	100
15) Tert-Butyl Alcohol	6.08	59	50838	195.4419	ug/L	98
16) Dimethyl Sulfide	6.20	62	454655	50.3363	ug/L	100
17) Iodomethane	6.43	142	493677	51.4605	ug/L	100
18) Methyl acetate	6.47	43	233465	48.3121	ug/L	100
19) Methylene Chloride	6.71	84	356341	46.7016	ug/L	100
20) Carbon Disulfide	6.74	76	1071368	51.0906	ug/L	100
21) Acrylonitrile	6.89	53	82052	50.1561	ug/L	100
22) Methyl Tert Butyl Ether	6.96	73	677428	51.2089	ug/L	100
23) trans-1,2-Dichloroethene	7.18	61	594383	51.2936	ug/L	100
24) n-Hexane	7.30	57	519030	51.3303	ug/L	100
25) Diisopropyl ether	7.64	45	2580925	103.5767	ug/L	100
26) Vinyl Acetate	7.77	43	269494	48.3691	ug/L	100
27) 1,1-Dichloroethane	7.80	63	742831	50.8763	ug/L	100
28) Ethyl-Tert-Butyl ether	8.21	59	2080576	102.9102	ug/L	100
29) 2-Butanone	8.35	43	85524	48.5134	ug/L	100
30) Propionitrile	8.44	54	56085	111.7729	ug/L	100
31) 2,2-Dichloropropane	8.58	77	607522	50.5026	ug/L	100
32) cis-1,2-Dichloroethene	8.63	96	402737	50.6484	ug/L	100
33) Chloroform	8.85	83	647948	49.1637	ug/L	100
34) 1-Bromopropane	8.98	122	73287	53.4064	ug/L	100
35) Bromochloromethane	9.07	130	238146	50.8496	ug/L	100
36) Tetrahydrofuran	9.10	42	110058	105.1224	ug/L	100
38) 1,1,1-Trichloroethane	9.39	97	631539	49.8324	ug/L	100
39) Cyclohexane	9.43	56	679476	50.4548	ug/L	100
40) 1,1-Dichloropropene	9.58	75	535199	50.8340	ug/L	100
41) Tert-Amyl-Methyl ether	9.71	73	1452709	101.4702	ug/L	100
42) Carbon Tetrachloride	9.73	117	610684	50.5797	ug/L	100
45) 1,2-Dichloroethane	9.88	62	457154	49.6226	ug/L	100

(#) = qualifier out of range (m) = manual integration
 8M380363.D 8260WTR.M Fri Jun 29 09:31:52 2012

Page 1

Data File : C:\MSDCHEM\1\DATA\062812\8M380363.D Vial: 8
 Acq On : 28 Jun 2012 21:42 Operator: adc
 Sample : WG401797-08 50.0ug/L STD 8260 Inst : HPMS8
 Misc : 1,1 STD51967 Multiplr: 1.00

MS Integration Params: RTEINT.P

Quant Time: Jun 29 09:31:51 2012

Quant Results File: 8260WTR.RES

Quant Method : C:\MSDCHEM\1\METHODS\8260WTR.M (RTE Integrator)
 Title : Method 8260B/624 WTR-SOP:OVLMSV01 06/28/12 HPMS 8
 Last Update : Fri Jun 29 09:29:43 2012
 Response via : Initial Calibration
 DataAcq Meth : 8260WTR

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
46) Benzene	9.93	78	1447471	48.5746	ug/L	100
47) Trichloroethene	10.69	130	442966	47.9560	ug/L	100
48) Methylcyclohexane	10.79	83	527800	50.9430	ug/L	100
49) 1,2-Dichloropropane	10.90	63	396286	49.0255	ug/L	100
50) Bromodichloromethane	11.19	83	468291	49.8308	ug/L	100
51) 1,4-Dioxane	11.18	88	6445	207.7460	ug/L	100
52) Dibromomethane	11.26	93	177958	50.1012	ug/L	100
53) 2-Chloroethyl Vinyl Ether	11.51	63	42141	51.8006	ug/L	100
54) 4-Methyl-2-Pentanone	11.55	58	73839	48.6646	ug/L	100
55) cis-1,3-Dichloropropene	11.83	75	563529	55.0135	ug/L	100
56) Dimethyl Disulfide	12.09	94	603128	45.3964	ug/L	100
59) Toluene	12.25	91	1623891	48.4810	ug/L	100
60) Ethyl Methacrylate	12.38	69	290428	52.3955	ug/L	100
61) Paraldehyde	12.41	89	7587	100.8136	ug/L	100
62) trans-1,3-Dichloropropene	12.43	75	480231	54.4915	ug/L	100
63) 1,1,2-Trichloroethane	12.64	97	241009	50.6144	ug/L	100
64) 2-Hexanone	12.60	58	69629	51.4990	ug/L	100
65) 1,3-Dichloropropane	12.94	76	429094	51.1946	ug/L	100
66) Tetrachloroethene	13.08	164	400438	49.0851	ug/L	100
67) Dibromochloromethane	13.32	129	369828	52.5709	ug/L	100
68) 1,2-Dibromoethane	13.56	107	263017	52.1736	ug/L	100
69) 1-Chlorohexane	13.70	91	535052	50.4224	ug/L	100
70) Chlorobenzene	14.08	112	1132165	49.2167	ug/L	100
71) 1,1,1,2-Tetrachloroethane	14.12	131	447160	51.1187	ug/L	100
72) Ethylbenzene	14.12	106	649711	48.6826	ug/L	100
73) m-,p-Xylene	14.22	106	1608987	99.1252	ug/L	100
74) o-Xylene	14.77	106	793217	49.6289	ug/L	100
75) Styrene	14.81	104	1323798	51.0031	ug/L	100
76) Bromoform	15.27	173	231144	52.8921	ug/L	100
77) Isopropylbenzene	15.20	105	1947221	48.9428	ug/L	100
79) 1,1,2,2-Tetrachloroethane	15.41	83	253218	50.9824	ug/L	100
81) 1,2,3-Trichloropropane	15.59	110	81999	52.4996	ug/L	100
82) trans-1,4-Dichloro-2-Butene	15.64	53	82059	50.6363	ug/L	100
83) n-Propylbenzene	15.71	91	2190932	48.9760	ug/L	100
84) Bromobenzene	15.81	156	517316	49.0973	ug/L	100
85) 1,3,5-Trimethylbenzene	15.90	105	1692464	49.5082	ug/L	100
86) 2-Chlorotoluene	15.96	91	1405541	49.0019	ug/L	100
87) 4-Chlorotoluene	16.02	91	1438464	48.9205	ug/L	100
88) a-Methylstyrene	16.29	118	1001579	51.6272	ug/L	100
89) tert-Butylbenzene	16.36	134	379856	49.5422	ug/L	100
90) 1,2,4-Trimethylbenzene	16.41	105	1727641	49.2850	ug/L	100
91) sec-Butylbenzene	16.63	105	1953602	49.1078	ug/L	100
92) p-Isopropyltoluene	16.79	119	1716012	49.2501	ug/L	100
93) 1,3-Dichlorobenzene	16.96	146	1040177	49.3115	ug/L	100
94) 1,4-Dichlorobenzene	17.08	146	1035825	47.1548	ug/L	100
95) n-Butylbenzene	17.31	91	1451406	48.8625	ug/L	100
96) 1,2-Dichlorobenzene	17.57	146	916063	48.2706	ug/L	100
97) 1,2-Dibromo-3-Chloropropane	18.55	75	49351	55.1417	ug/L	100
98) 1,2,4-Trichlorobenzene	19.70	180	635582	48.4905	ug/L	100
99) Hexachlorobutadiene	19.86	225	272980	48.0299	ug/L	100
100) Naphthalene	20.05	128	1008006	49.6910	ug/L	100
101) 1,2,3-Trichlorobenzene	20.37	180	535463	47.2982	ug/L	100

(#) = qualifier out of range (m) = manual integration
 8M380363.D 8260WTR.M Fri Jun 29 09:31:52 2012

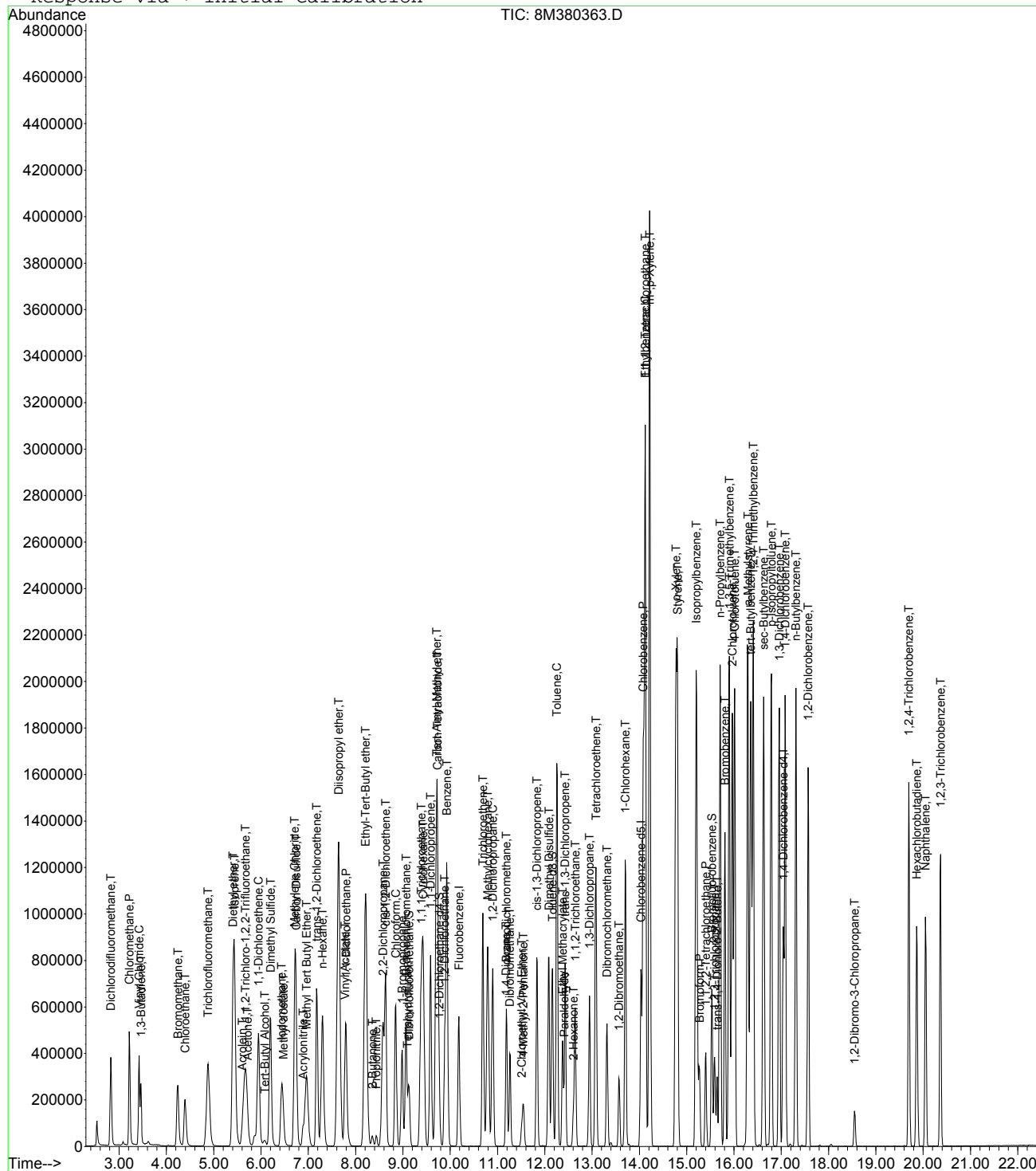
Page 2

Data File : C:\MSDCHEM\1\DATA\062812\8M380363.D
Acq On : 28 Jun 2012 21:42
Sample : WG401797-08 50.0ug/L STD 8260
Misc : 1,1 STD51967
MS Integration Params: RTEINT.P
Quant Time: Jun 29 9:31 2012

Vial: 8
Operator: adc
Inst : HPMS8
Multiplr: 1.00

Quant Results File: 8260WTR.RES

Method : C:\MSDCHEM\1\METHODS\8260WTR.M (RTE Integrator)
Title : Method 8260B/624 WTR-SOP:OVLMSV01 06/28/12 HPMS 8
Last Update : Fri Jun 29 09:29:43 2012
Response via : Initial Calibration



Data File : C:\MSDCHEM\1\DATA\062812\8M380364.D Vial: 9
 Acq On : 28 Jun 2012 22:12 Operator: adc
 Sample : WG401797-09 100.0ug/L STD 8260 Inst : HPMS8
 Misc : 1,1 STD51967 Multiplr: 1.00

MS Integration Params: RTEINT.P

Quant Time: Jun 29 09:31:53 2012

Quant Results File: 8260WTR.RES

Quant Method : C:\MSDCHEM\1\METHODS\8260WTR.M (RTE Integrator)
 Title : Method 8260B/624 WTR-SOP:OVLMSV01 06/28/12 HPMS 8
 Last Update : Fri Jun 29 09:29:43 2012
 Response via : Initial Calibration
 DataAcq Meth : 8260WTR

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene	10.18	96	677263	25.00	ug/L	0.00
57) Chlorobenzene-d5	14.04	117	581443	25.00	ug/L	0.00
78) 1,4-Dichlorobenzene-d4	17.05	152	344213	25.00	ug/L	0.00

System Monitoring Compounds

37) Dibromofluoromethane	9.13	111	376738	51.7261	ug/L	0.00
Spiked Amount	25.000	Range 86 - 118	Recovery	=	206.92%#	
43) 1,2-Dichloroethane-d4	9.77	65	337615	49.7407	ug/L	0.00
Spiked Amount	25.000	Range 80 - 120	Recovery	=	198.96%#	
58) Toluene-d8	12.16	98	1307035	49.1988	ug/L	0.00
Spiked Amount	25.000	Range 88 - 110	Recovery	=	196.80%#	
80) p-Bromofluorobenzene	15.53	95	571112	49.9804	ug/L	0.00
Spiked Amount	25.000	Range 86 - 115	Recovery	=	199.92%#	

Target Compounds

					Qvalue
2) Dichlorodifluoromethane	2.82	85	895177	93.1060	ug/L 99
3) Chloromethane	3.21	50	1131951	87.9363	ug/L 100
4) Vinyl Chloride	3.42	62	624055	90.8138	ug/L 100
5) 1,3-Butadiene	3.45	54	247472	104.1961	ug/L 100
6) Bromomethane	4.23	94	546207	91.2479	ug/L 99
7) Chloroethane	4.38	64	592157	96.8245	ug/L 99
8) Trichlorofluoromethane	4.87	101	1284290	90.1795	ug/L 100
9) Diethyl ether	5.41	59	911319	213.1113	ug/L 100
10) Isoprene	5.43	67	1094523	102.7605	ug/L 100
11) Acrolein	5.61	56	128246	218.2928	ug/L 98
12) 1,1,2-Trichloro-1,2,2-Trif	5.66	101	738786	100.8105	ug/L 99
13) Acetone	5.72	43	117256	100.8701	ug/L 98
14) 1,1-Dichloroethene	5.94	61	1166031	95.8115	ug/L 99
15) Tert-Butyl Alcohol	6.10	59	123136	480.1501	ug/L 96
16) Dimethyl Sulfide	6.19	62	905656	101.7009	ug/L 98
17) Iodomethane	6.43	142	1007956	100.8569	ug/L 100
18) Methyl acetate	6.47	43	462091	96.9893	ug/L 98
19) Methylene Chloride	6.71	84	726515	96.5769	ug/L 97
20) Carbon Disulfide	6.74	76	2125946	102.8294	ug/L 100
21) Acrylonitrile	6.88	53	168481	104.4596	ug/L 99
22) Methyl Tert Butyl Ether	6.97	73	1340968	102.8167	ug/L 99
23) trans-1,2-Dichloroethene	7.17	61	1161744	101.6881	ug/L 99
24) n-Hexane	7.30	57	982320	98.5365	ug/L 99
25) Diisopropyl ether	7.64	45	4953071	201.6155	ug/L 100
26) Vinyl Acetate	7.77	43	546642	102.1864	ug/L 100
27) 1,1-Dichloroethane	7.79	63	1466722	101.8911	ug/L 100
28) Ethyl-Tert-Butyl ether	8.21	59	4057349	203.5541	ug/L 99
29) 2-Butanone	8.35	43	178019	102.4242	ug/L 99
30) Propionitrile	8.45	54	118559	239.6552	ug/L 98
31) 2,2-Dichloropropane	8.58	77	1223960	103.2005	ug/L 100
32) cis-1,2-Dichloroethene	8.63	96	818757	104.4389	ug/L 99
33) Chloroform	8.85	83	1307802	100.6489	ug/L 100
34) 1-Bromopropane	8.98	122	151156	111.4734	ug/L 98
35) Bromochloromethane	9.07	130	481513	104.2834	ug/L 100
36) Tetrahydrofuran	9.10	42	230193	223.0122	ug/L 99
38) 1,1,1-Trichloroethane	9.39	97	1282498	102.6433	ug/L 100
39) Cyclohexane	9.43	56	1326695	99.9222	ug/L 99
40) 1,1-Dichloropropene	9.58	75	1067340	102.8263	ug/L 99
41) Tert-Amyl-Methyl ether	9.72	73	2906528	205.9194	ug/L 99
42) Carbon Tetrachloride	9.73	117	1239869	104.1594	ug/L 100
45) 1,2-Dichloroethane	9.88	62	925214	101.8643	ug/L 99

(#) = qualifier out of range (m) = manual integration
 8M380364.D 8260WTR.M Fri Jun 29 09:31:53 2012

Page 1

Data File : C:\MSDCHEM\1\DATA\062812\8M380364.D Vial: 9
 Acq On : 28 Jun 2012 22:12 Operator: adc
 Sample : WG401797-09 100.0ug/L STD 8260 Inst : HPMS8
 Misc : 1,1 STD51967 Multiplr: 1.00
 MS Integration Params: RTEINT.P
 Quant Time: Jun 29 09:31:53 2012 Quant Results File: 8260WTR.RES

Quant Method : C:\MSDCHEM\1\METHODS\8260WTR.M (RTE Integrator)
 Title : Method 8260B/624 WTR-SOP:OVLMSV01 06/28/12 HPMS 8
 Last Update : Fri Jun 29 09:29:43 2012
 Response via : Initial Calibration
 DataAcq Meth : 8260WTR

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
46) Benzene	9.92	78	2871579	97.7424	ug/L	100
47) Trichloroethene	10.69	130	898900	98.7068	ug/L	100
48) Methylcyclohexane	10.79	83	1008314	98.7128	ug/L	99
49) 1,2-Dichloropropane	10.90	63	809905	101.6273	ug/L	99
50) Bromodichloromethane	11.19	83	985992	106.4187	ug/L	100
51) 1,4-Dioxane	11.19	88	13949	456.0532	ug/L	92
52) Dibromomethane	11.26	93	371801	106.1706	ug/L	100
53) 2-Chloroethyl Vinyl Ether	11.51	63	84836	105.7725	ug/L	94
54) 4-Methyl-2-Pentanone	11.55	58	151349	101.1741	ug/L	99
55) cis-1,3-Dichloropropene	11.84	75	1177153	116.5597	ug/L	99
56) Dimethyl Disulfide	12.09	94	1252920	94.8479	ug/L	99
59) Toluene	12.26	91	3256165	96.2359	ug/L	100
60) Ethyl Methacrylate	12.37	69	603749	107.8270	ug/L	99
61) Paraldehyde	12.42	89	17993	236.6837	ug/L	87
62) trans-1,3-Dichloropropene	12.44	75	1010162	113.4712	ug/L	100
63) 1,1,2-Trichloroethane	12.64	97	508531	105.7242	ug/L	99
64) 2-Hexanone	12.60	58	145221	106.3296	ug/L	99
65) 1,3-Dichloropropane	12.94	76	888360	104.9243	ug/L	99
66) Tetrachloroethene	13.08	164	813082	98.6654	ug/L	99
67) Dibromochloromethane	13.32	129	786446	110.6702	ug/L	100
68) 1,2-Dibromoethane	13.57	107	541944	106.4235	ug/L	99
69) 1-Chlorohexane	13.71	91	1058841	98.7812	ug/L	99
70) Chlorobenzene	14.08	112	2323936	100.0098	ug/L	99
71) 1,1,1,2-Tetrachloroethane	14.12	131	953564	107.9153	ug/L	99
72) Ethylbenzene	14.12	106	1366290	101.3474	ug/L	95
73) m-,p-Xylene	14.22	106	3253933	198.4523	ug/L	95
74) o-Xylene	14.77	106	1647949	102.0710	ug/L	97
75) Styrene	14.80	104	2728320	104.0605	ug/L	99
76) Bromoform	15.27	173	506620	114.7642	ug/L	99
77) Isopropylbenzene	15.20	105	3992584	99.3444	ug/L	99
79) 1,1,2,2-Tetrachloroethane	15.40	83	545488	105.5521	ug/L	99
81) 1,2,3-Trichloropropane	15.59	110	174052	107.3322	ug/L	98
82) trans-1,4-Dichloro-2-Butene	15.64	53	177413	104.4840	ug/L	93
83) n-Propylbenzene	15.70	91	4420062	95.1669	ug/L	98
84) Bromobenzene	15.81	156	1083756	99.0687	ug/L	99
85) 1,3,5-Trimethylbenzene	15.90	105	3482318	98.1136	ug/L	98
86) 2-Chlorotoluene	15.96	91	2838447	95.3133	ug/L	91
87) 4-Chlorotoluene	16.01	91	3028545	99.2041	ug/L	94
88) a-Methylstyrene	16.29	118	2062880	102.4167	ug/L	97
89) tert-Butylbenzene	16.36	134	816722	102.5967	ug/L	97
90) 1,2,4-Trimethylbenzene	16.41	105	3580289	98.3746	ug/L	98
91) sec-Butylbenzene	16.62	105	4073316	98.6203	ug/L	99
92) p-Isopropyltoluene	16.79	119	3610640	99.8100	ug/L	98
93) 1,3-Dichlorobenzene	16.96	146	2194701	100.2120	ug/L	99
94) 1,4-Dichlorobenzene	17.09	146	2192973	96.1559	ug/L	100
95) n-Butylbenzene	17.31	91	3046226	98.7762	ug/L	98
96) 1,2-Dichlorobenzene	17.58	146	1945875	98.7588	ug/L	100
97) 1,2-Dibromo-3-Chloropropane	18.55	75	103878	111.7920	ug/L	94
98) 1,2,4-Trichlorobenzene	19.69	180	1365733	100.3586	ug/L	99
99) Hexachlorobutadiene	19.87	225	606334	102.7535	ug/L	99
100) Naphthalene	20.05	128	2092114	99.3353	ug/L	100
101) 1,2,3-Trichlorobenzene	20.37	180	1133258	96.4157	ug/L	100

(#) = qualifier out of range (m) = manual integration
 8M380364.D 8260WTR.M Fri Jun 29 09:31:54 2012

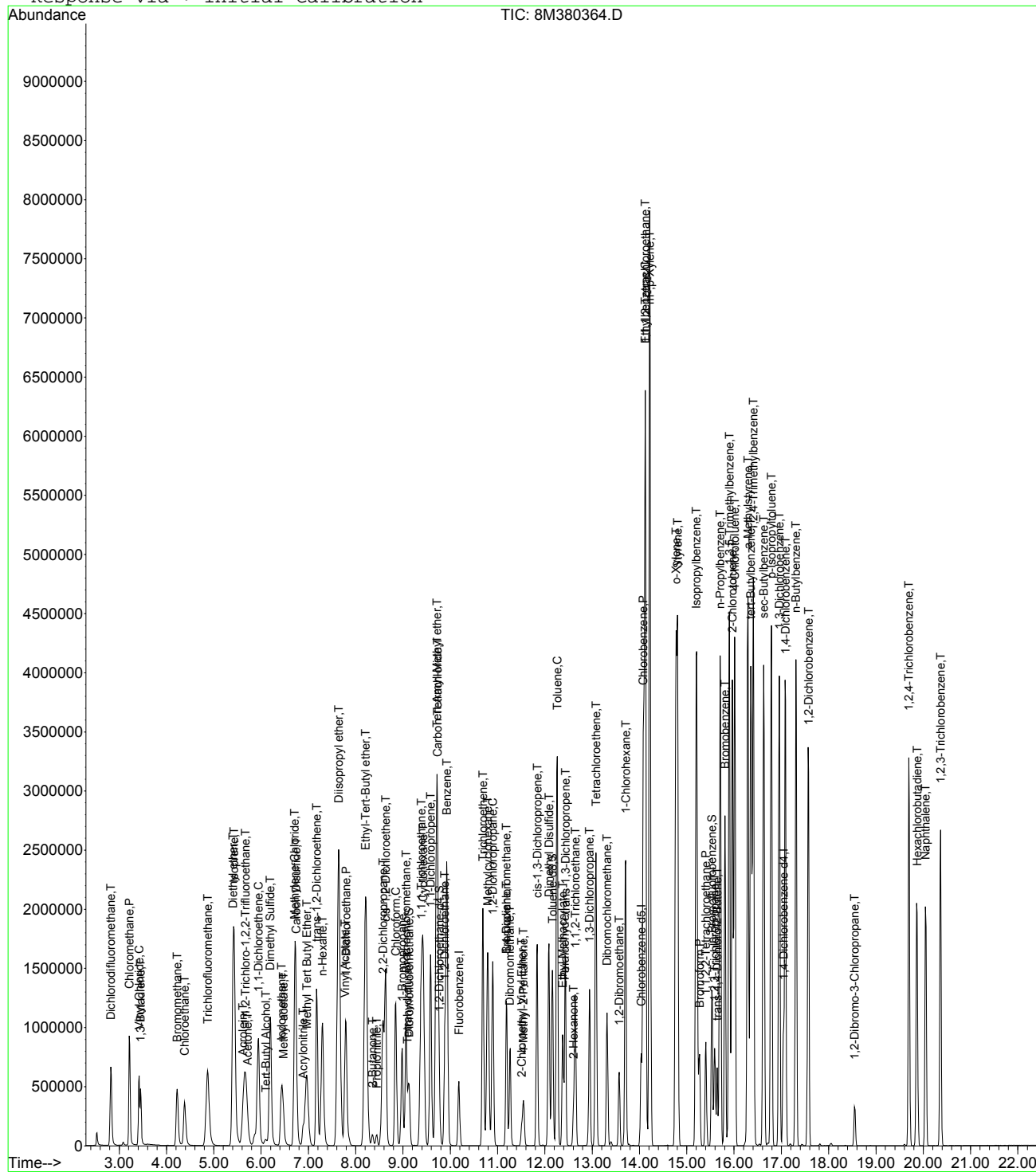
Page 2

Data File : C:\MSDCHEM\1\DATA\062812\8M380364.D
Acq On : 28 Jun 2012 22:12
Sample : WG401797-09 100.0ug/L STD 8260
Misc : 1,1 STD51967
MS Integration Params: RTEINT.P
Quant Time: Jun 29 9:31 2012

Vial: 9
Operator: adc
Inst : HPMS8
Multiplr: 1.00

Quant Results File: 8260WTR.RES

Method : C:\MSDCHEM\1\METHODS\8260WTR.M (RTE Integrator)
Title : Method 8260B/624 WTR-SOP:OVLMSV01 06/28/12 HPMS 8
Last Update : Fri Jun 29 09:29:43 2012
Response via : Initial Calibration



Data File : C:\MSDCHEM\1\DATA\062812\8M380365.D Vial: 10
 Acq On : 28 Jun 2012 22:43 Operator: adc
 Sample : WG401797-10 200.0ug/L STD 8260 Inst : HPMS8
 Misc : 1,1 STD51967 Multiplr: 1.00
 MS Integration Params: RTEINT.P
 Quant Time: Jun 29 09:31:54 2012 Quant Results File: 8260WTR.RES

Quant Method : C:\MSDCHEM\1\METHODS\8260WTR.M (RTE Integrator)
 Title : Method 8260B/624 WTR-SOP:OVLMSV01 06/28/12 HPMS 8
 Last Update : Fri Jun 29 09:29:43 2012
 Response via : Initial Calibration
 DataAcq Meth : 8260WTR

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene	10.18	96	567082	25.00	ug/L	0.00
57) Chlorobenzene-d5	14.04	117	583822	25.00	ug/L	0.00
78) 1,4-Dichlorobenzene-d4	17.05	152	352083	25.00	ug/L	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
37) Dibromofluoromethane	9.13	111	657113	107.7511	ug/L	0.00
Spiked Amount	25.000	Range 86 - 118	Recovery	= 431.00%#		
43) 1,2-Dichloroethane-d4	9.77	65	577343	101.5863	ug/L	0.00
Spiked Amount	25.000	Range 80 - 120	Recovery	= 406.36%#		
58) Toluene-d8	12.16	98	2460014	92.2214	ug/L	0.00
Spiked Amount	25.000	Range 88 - 110	Recovery	= 368.88%#		
80) p-Bromofluorobenzene	15.53	95	1107173	94.7275	ug/L	0.00
Spiked Amount	25.000	Range 86 - 115	Recovery	= 378.92%#		

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	2.83	85	1767190	219.5146	ug/L	99
3) Chloromethane	3.21	50	2251765	208.9176	ug/L	98
4) Vinyl Chloride	3.42	62	1146151	200.3766	ug/L	100
5) 1,3-Butadiene	3.45	54	384136	205.6137	ug/L	100
6) Bromomethane	4.22	94	1080990	215.6746	ug/L	100
7) Chloroethane	4.37	64	1176256	229.7005	ug/L	99
8) Trichlorofluoromethane	4.86	101	2469828	207.1203	ug/L	99
9) Diethyl ether	5.42	59	2803	0.7828	ug/L #	70
10) Isoprene	5.43	67	1451382	162.7401	ug/L	99
11) Acrolein	5.61	56	209295	425.4671	ug/L	97
12) 1,1,2-Trichloro-1,2,2-Trif	5.65	101	993709	161.9413	ug/L	99
13) Acetone	5.73	43	218369	224.3519	ug/L	96
14) 1,1-Dichloroethene	5.93	61	1799051	176.5479	ug/L	98
15) Tert-Butyl Alcohol	6.19	59	55702	259.4026	ug/L #	9
16) Dimethyl Sulfide	6.19	62	1528139	204.9444	ug/L	97
17) Iodomethane	6.43	142	1831066	199.4418	ug/L	98
18) Methyl acetate	6.48	43	757544	189.8960	ug/L	98
19) Methylene Chloride	6.71	84	1277199	202.7677	ug/L	95
20) Carbon Disulfide	6.73	76	3625319	209.4222	ug/L	99
21) Acrylonitrile	6.90	53	324121	240.0027	ug/L	100
22) Methyl Tert Butyl Ether	6.97	73	1992080	182.4162	ug/L	100
23) trans-1,2-Dichloroethene	7.17	61	1572843	164.4208	ug/L	98
24) n-Hexane	7.29	57	1187396	142.2497	ug/L	99
25) Diisopropyl ether	7.65	45	5807	0.2823	ug/L #	85
26) Vinyl Acetate	7.77	43	835099	207.3610	ug/L	100
27) 1,1-Dichloroethane	7.79	63	2102157	174.4075	ug/L	100
28) Ethyl-Tert-Butyl ether	8.22	59	6844	0.4101	ug/L #	73
29) 2-Butanone	8.36	43	351862	241.7797	ug/L	99
30) Propionitrile	8.36	54	405	0.9777	ug/L #	58
31) 2,2-Dichloropropane	8.58	77	1953911	196.7574	ug/L	99
32) cis-1,2-Dichloroethene	8.63	96	1242260	189.2479	ug/L	98
33) Chloroform	8.85	83	2108448	193.7945	ug/L	99
34) 1-Bromopropane	8.98	122	235330	207.0702	ug/L	99
35) Bromochloromethane	9.07	130	833390	215.5594	ug/L	98
36) Tetrahydrofuran	9.11	42	1418	1.6407	ug/L #	41
38) 1,1,1-Trichloroethane	9.39	97	2067818	197.6504	ug/L	100
39) Cyclohexane	9.43	56	1935190	174.0708	ug/L	100
40) 1,1-Dichloropropene	9.58	75	1588541	182.7727	ug/L	98
41) Tert-Amyl-Methyl ether	9.74	73	2033	0.1720	ug/L #	51
42) Carbon Tetrachloride	9.73	117	1928515	193.4895	ug/L	100
45) 1,2-Dichloroethane	9.88	62	1563596	205.5966	ug/L	100

(#) = qualifier out of range (m) = manual integration
 8M380365.D 8260WTR.M Fri Jun 29 09:31:55 2012

Data File : C:\MSDCHEM\1\DATA\062812\8M380365.D Vial: 10
 Acq On : 28 Jun 2012 22:43 Operator: adc
 Sample : WG401797-10 200.0ug/L STD 8260 Inst : HPMS8
 Misc : 1,1 STD51967 Multiplr: 1.00
 MS Integration Params: RTEINT.P
 Quant Time: Jun 29 09:31:54 2012 Quant Results File: 8260WTR.RES

Quant Method : C:\MSDCHEM\1\METHODS\8260WTR.M (RTE Integrator)
 Title : Method 8260B/624 WTR-SOP:OVLMSV01 06/28/12 HPMS 8
 Last Update : Fri Jun 29 09:29:43 2012
 Response via : Initial Calibration
 DataAcq Meth : 8260WTR

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
46) Benzene	9.92	78	4340665	176.4533	ug/L	99
47) Trichloroethene	10.69	130	1495529	196.1291	ug/L	99
48) Methylcyclohexane	10.79	83	1526807	178.5145	ug/L	99
49) 1,2-Dichloropropane	10.90	63	1447522	216.9267	ug/L	99
50) Bromodichloromethane	11.19	83	1879304	242.2440	ug/L	100
51) 1,4-Dioxane	11.20	88	4051	158.1780	ug/L	# 65
52) Dibromomethane	11.26	93	678863	231.5194	ug/L	99
53) 2-Chloroethyl Vinyl Ether	11.51	63	163410	243.3227	ug/L	96
54) 4-Methyl-2-Pentanone	11.55	58	299000	238.7111	ug/L	98
55) cis-1,3-Dichloropropene	11.84	75	2208840	261.2109	ug/L	98
56) Dimethyl Disulfide	12.09	94	2370562	213.4063	ug/L	99
59) Toluene	12.26	91	5860203	172.4924	ug/L	97
60) Ethyl Methacrylate	12.38	69	1167710	207.6982	ug/L	98
62) trans-1,3-Dichloropropene	12.44	75	1931108	216.0369	ug/L	98
63) 1,1,2-Trichloroethane	12.64	97	989604	204.9014	ug/L	99
64) 2-Hexanone	12.60	58	286212	208.7080	ug/L	100
65) 1,3-Dichloropropane	12.94	76	1711665	201.3412	ug/L	98
66) Tetrachloroethene	13.08	164	1476134	178.3951	ug/L	99
67) Dibromochloromethane	13.32	129	1544698	216.4871	ug/L	100
68) 1,2-Dibromoethane	13.57	107	1050019	205.3558	ug/L	99
69) 1-Chlorohexane	13.71	91	2072599	192.5687	ug/L	100
70) Chlorobenzene	14.08	112	4409416	188.9845	ug/L	97
71) 1,1,1,2-Tetrachloroethane	14.12	131	1820927	205.2354	ug/L	100
72) Ethylbenzene	14.12	106	2649172	195.7071	ug/L	86
73) m-,p-Xylene	14.22	106	5929255	360.1426	ug/L	85
74) o-Xylene	14.77	106	3168438	195.4476	ug/L	93
75) Styrene	14.80	104	5123804	194.6299	ug/L	98
76) Bromoform	15.27	173	979707	221.0278	ug/L	98
77) Isopropylbenzene	15.20	105	7320160	181.3996	ug/L	95
79) 1,1,2,2-Tetrachloroethane	15.40	83	1030089	194.6857	ug/L	99
81) 1,2,3-Trichloropropane	15.59	110	333933	201.3226	ug/L	100
82) trans-1,4-Dichloro-2-Butene	15.64	53	345365	198.0482	ug/L	92
83) n-Propylbenzene	15.70	91	7998801	168.3700	ug/L	93
84) Bromobenzene	15.81	156	2078722	185.7735	ug/L	98
85) 1,3,5-Trimethylbenzene	15.90	105	6452416	177.7319	ug/L	95
86) 2-Chlorotoluene	15.96	91	5589801	183.5063	ug/L	93
87) 4-Chlorotoluene	16.01	91	4943951	158.3259	ug/L	95
88) a-Methylstyrene	16.29	118	4035714	195.8841	ug/L	96
89) tert-Butylbenzene	16.36	134	1600808	196.5988	ug/L	85
90) 1,2,4-Trimethylbenzene	16.41	105	6539184	175.6590	ug/L	94
91) sec-Butylbenzene	16.62	105	7467213	176.7498	ug/L	95
92) p-Isopropyltoluene	16.79	119	6634690	179.3051	ug/L	95
93) 1,3-Dichlorobenzene	16.96	146	4142716	184.9319	ug/L	98
94) 1,4-Dichlorobenzene	17.09	146	4113706	176.3430	ug/L	98
95) n-Butylbenzene	17.31	91	5700506	180.7114	ug/L	95
96) 1,2-Dichlorobenzene	17.58	146	3662932	181.7489	ug/L	98
97) 1,2-Dibromo-3-Chloropropane	18.55	75	201236	211.7265	ug/L	95
98) 1,2,4-Trichlorobenzene	19.71	180	2617658	188.0545	ug/L	99
99) Hexachlorobutadiene	19.87	225	1230763	203.9112	ug/L	99
100) Naphthalene	20.06	128	3922021	182.0582	ug/L	99
101) 1,2,3-Trichlorobenzene	20.37	180	2167230	180.2628	ug/L	99

(#) = qualifier out of range (m) = manual integration
 8M380365.D 8260WTR.M Fri Jun 29 09:31:55 2012

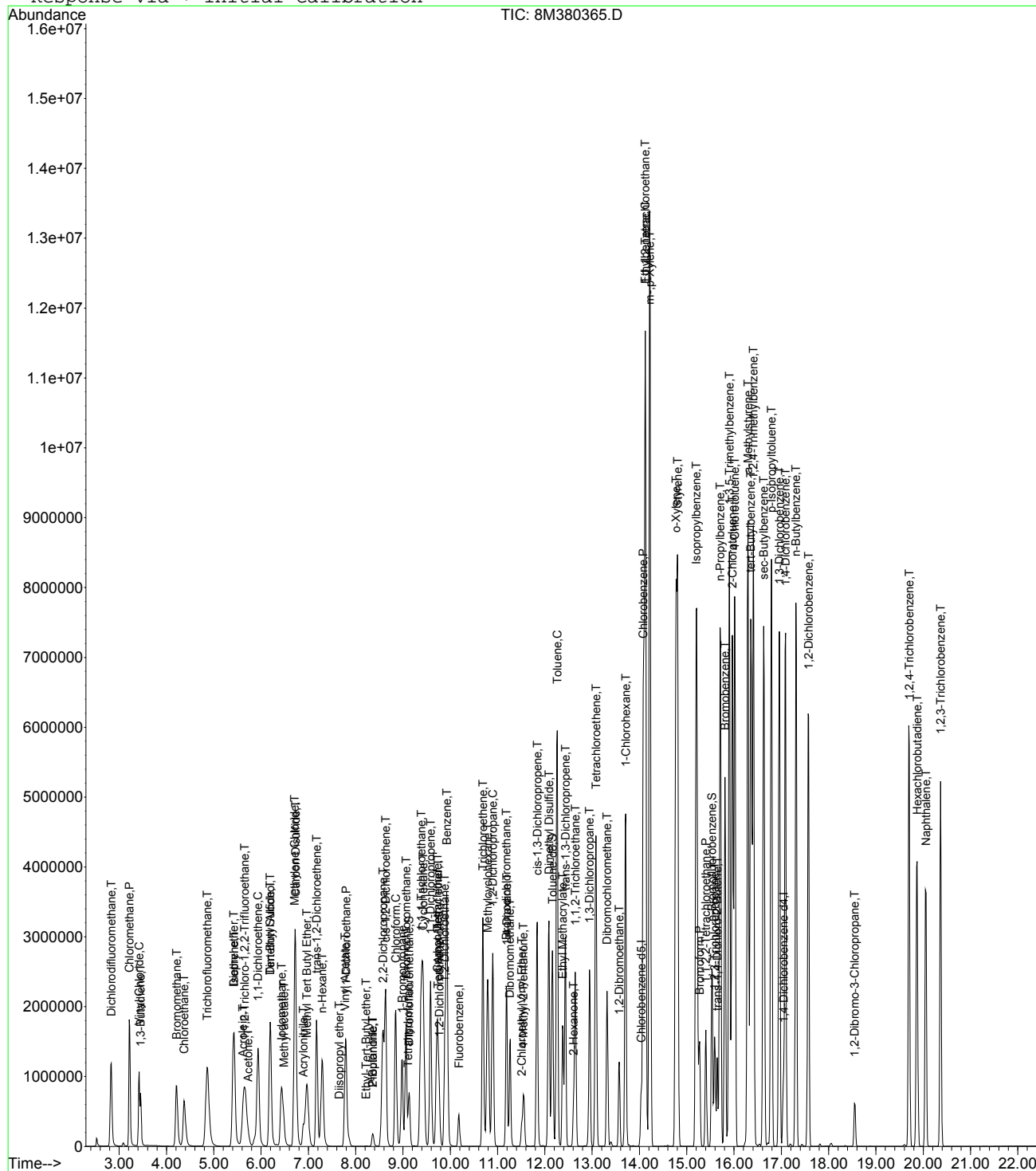
Page 2

Data File : C:\MSDCHEM\1\DATA\062812\8M380365.D
Acq On : 28 Jun 2012 22:43
Sample : WG401797-10 200.0ug/L STD 8260
Misc : 1,1 STD51967
MS Integration Params: RTEINT.P
Quant Time: Jun 29 9:31 2012

Vial: 10
Operator: adc
Inst : HPMS8
Multiplr: 1.00

Quant Results File: 8260WTR.RES

Method : C:\MSDCHEM\1\METHODS\8260WTR.M (RTE Integrator)
Title : Method 8260B/624 WTR-SOP:OVLMSV01 06/28/12 HPMS 8
Last Update : Fri Jun 29 09:29:43 2012
Response via : Initial Calibration



Data File : C:\MSDCHEM\1\DATA\062812\8M380366.D Vial: 11
 Acq On : 28 Jun 2012 23:13 Operator: adc
 Sample : WG401797-11 300.0ug/L STD 8260 Inst : HPMS8
 Misc : 1,1 STD51967 Multiplr: 1.00

MS Integration Params: RTEINT.P

Quant Time: Jun 29 09:31:56 2012

Quant Results File: 8260WTR.RES

Quant Method : C:\MSDCHEM\1\METHODS\8260WTR.M (RTE Integrator)
 Title : Method 8260B/624 WTR-SOP:OVLMSV01 06/28/12 HPMS 8
 Last Update : Fri Jun 29 09:29:43 2012
 Response via : Initial Calibration
 DataAcq Meth : 8260WTR

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene	10.18	96	643899	25.00	ug/L	0.00
57) Chlorobenzene-d5	14.04	117	572773	25.00	ug/L	0.00
78) 1,4-Dichlorobenzene-d4	17.05	152	338058	25.00	ug/L	0.00

System Monitoring Compounds

37) Dibromofluoromethane	9.12	111	1624	0.2345	ug/L	-0.01
Spiked Amount	25.000	Range	86 - 118	Recovery	=	0.92%#
43) 1,2-Dichloroethane-d4	9.72	65	4608	0.7141	ug/L	-0.05
Spiked Amount	25.000	Range	80 - 120	Recovery	=	2.84%#
58) Toluene-d8	12.17	98	8099	0.3095	ug/L	0.00
Spiked Amount	25.000	Range	88 - 110	Recovery	=	1.24%#
80) p-Bromofluorobenzene	15.54	95	4219	0.3759	ug/L	0.00
Spiked Amount	25.000	Range	86 - 115	Recovery	=	1.52%#

Target Compounds

	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	2.82	85	2628	0.2875	ug/L	# 69
3) Chloromethane	3.22	50	25597	2.0916	ug/L	100
4) Vinyl Chloride	3.42	62	1789	Below Cal		81
5) 1,3-Butadiene	3.45	54	600016	288.3293	ug/L	99
6) Bromomethane	4.22	94	38779	6.8140	ug/L	99
8) Trichlorofluoromethane	4.86	101	4733	0.3496	ug/L	# 77
9) Diethyl ether	5.42	59	1053191	259.0495	ug/L	99
10) Isoprene	5.42	67	6709	0.6625	ug/L	79
11) Acrolein	5.61	56	328785	588.6365	ug/L	97
12) 1,1,2-Trichloro-1,2,2-Trif	5.65	101	5478	0.7862	ug/L	75
13) Acetone	5.73	43	295257	267.1573	ug/L	93
14) 1,1-Dichloroethene	5.94	61	8414	0.7272	ug/L	91
15) Tert-Butyl Alcohol	6.12	59	204774	839.8591	ug/L	92
16) Dimethyl Sulfide	6.19	62	5804	0.6855	ug/L	83
17) Iodomethane	6.44	142	25789	3.7318	ug/L	98
18) Methyl acetate	6.48	43	479335	105.8218	ug/L	99
19) Methylene Chloride	6.71	84	4481	0.6265	ug/L	96
20) Carbon Disulfide	6.74	76	23913	1.2166	ug/L	98
21) Acrylonitrile	6.89	53	451937	294.7237	ug/L	96
22) Methyl Tert Butyl Ether	6.98	73	9475	0.7641	ug/L	# 65
23) trans-1,2-Dichloroethene	7.17	61	9930	0.9142	ug/L	93
24) n-Hexane	7.30	57	15911	1.6787	ug/L	98
25) Diisopropyl ether	7.64	45	6308592	270.0980	ug/L	99
26) Vinyl Acetate	7.77	43	1204670	292.5635	ug/L	100
27) 1,1-Dichloroethane	7.80	63	10706	0.7823	ug/L	# 85
28) Ethyl-Tert-Butyl ether	8.22	59	5323588	280.9193	ug/L	99
29) 2-Butanone	8.36	43	502477	304.0828	ug/L	99
30) Propionitrile	8.45	54	178788	380.1285	ug/L	97
31) 2,2-Dichloropropane	8.58	77	4435	0.3933	ug/L	# 76
32) cis-1,2-Dichloroethene	8.64	96	6885	0.9237	ug/L	86
33) Chloroform	8.86	83	8613	0.6972	ug/L	100
34) 1-Bromopropane	8.98	122	357567	277.0150	ug/L	100
35) Bromochloromethane	9.07	130	1716	0.3909	ug/L	# 49
36) Tetrahydrofuran	9.11	42	323217	329.3595	ug/L	98
38) 1,1,1-Trichloroethane	9.40	97	5834	0.4911	ug/L	98
39) Cyclohexane	9.43	56	12590	0.9974	ug/L	96
40) 1,1-Dichloropropene	9.58	75	8347	0.8458	ug/L	89
41) Tert-Amyl-Methyl ether	9.72	73	4033513	300.5702	ug/L	99
42) Carbon Tetrachloride	9.72	117	5200	0.4595	ug/L	96
45) 1,2-Dichloroethane	9.89	62	6613	0.7658	ug/L	# 84
46) Benzene	9.93	78	33335	1.1934	ug/L	90

(#) = qualifier out of range (m) = manual integration
 8M380366.D 8260WTR.M Fri Jun 29 09:31:56 2012

Page 1

Data File : C:\MSDCHEM\1\DATA\062812\8M380366.D Vial: 11
 Acq On : 28 Jun 2012 23:13 Operator: adc
 Sample : WG401797-11 300.0ug/L STD 8260 Inst : HPMS8
 Misc : 1,1 STD51967 Multiplr: 1.00
 MS Integration Params: RTEINT.P
 Quant Time: Jun 29 09:31:56 2012 Quant Results File: 8260WTR.RES

Quant Method : C:\MSDCHEM\1\METHODS\8260WTR.M (RTE Integrator)
 Title : Method 8260B/624 WTR-SOP:OVLMSV01 06/28/12 HPMS 8
 Last Update : Fri Jun 29 09:29:43 2012
 Response via : Initial Calibration
 DataAcq Meth : 8260WTR

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
47) Trichloroethene	10.69	130	7163	0.8273	ug/L	87
48) Methylcyclohexane	10.79	83	15636	1.6101	ug/L	93
49) 1,2-Dichloropropane	10.90	63	4338	0.5725	ug/L	100
50) Bromodichloromethane	11.20	83	2072	0.2352	ug/L #	91
51) 1,4-Dioxane	11.19	88	17671	607.6775	ug/L	82
52) Dibromomethane	11.27	93	853	0.2562	ug/L #	71
53) 2-Chloroethyl Vinyl Ether	11.51	63	245924	322.5024	ug/L	96
54) 4-Methyl-2-Pentanone	11.55	58	456945	321.2872	ug/L	98
55) cis-1,3-Dichloropropene	11.83	75	2727	0.2840	ug/L #	74
56) Dimethyl Disulfide	12.08	94	3934	1.0380	ug/L	80
59) Toluene	12.26	91	22654	0.6797	ug/L	98
60) Ethyl Methacrylate	12.37	69	1433	0.2598	ug/L #	1
61) Paraldehyde	12.42	89	25382	338.9341	ug/L #	18
62) trans-1,3-Dichloropropene	12.43	75	1851	0.2111	ug/L #	43
63) 1,1,2-Trichloroethane	12.63	97	687	0.1450	ug/L #	44
64) 2-Hexanone	12.60	58	429481	319.2222	ug/L #	34
65) 1,3-Dichloropropane	12.95	76	1961	0.2351	ug/L	85
66) Tetrachloroethene	13.08	164	6092	0.7504	ug/L	96
67) Dibromochloromethane	13.32	129	880	0.1257	ug/L	81
68) 1,2-Dibromoethane	13.57	107	1233	0.2458	ug/L	96
69) 1-Chlorohexane	13.70	91	6827	0.6465	ug/L	98
70) Chlorobenzene	14.09	112	9405	0.4109	ug/L	98
71) 1,1,1,2-Tetrachloroethane	14.12	131	1510	0.1735	ug/L	77
72) Ethylbenzene	14.13	106	5493	0.4136	ug/L	96
73) m-,p-Xylene	14.21	106	14229	0.8809	ug/L	99
74) o-Xylene	14.77	106	5358	0.3369	ug/L	84
75) Styrene	14.81	104	9405	0.3641	ug/L	97
77) Isopropylbenzene	15.21	105	14806	0.3740	ug/L	91
79) 1,1,2,2-Tetrachloroethane	15.40	83	656	0.3434	ug/L #	64
83) n-Propylbenzene	15.70	91	20598	0.4516	ug/L	98
84) Bromobenzene	15.81	156	4218	0.3926	ug/L	100
85) 1,3,5-Trimethylbenzene	15.90	105	14006	0.4018	ug/L	99
86) 2-Chlorotoluene	15.96	91	10834	0.3704	ug/L	88
87) 4-Chlorotoluene	16.01	91	12299	0.4102	ug/L	99
88) a-Methylstyrene	16.29	118	6219	0.3144	ug/L	99
89) tert-Butylbenzene	16.35	134	3086	0.3947	ug/L	87
90) 1,2,4-Trimethylbenzene	16.41	105	14371	0.4021	ug/L	83
91) sec-Butylbenzene	16.62	105	24102	0.5942	ug/L	93
92) p-Isopropyltoluene	16.79	119	22254	0.6264	ug/L	95
93) 1,3-Dichlorobenzene	16.95	146	9436	0.4387	ug/L	96
94) 1,4-Dichlorobenzene	17.09	146	10234	0.4569	ug/L	78
95) n-Butylbenzene	17.31	91	27488	0.9075	ug/L	99
96) 1,2-Dichlorobenzene	17.56	146	7782	0.4021	ug/L	91
98) 1,2,4-Trichlorobenzene	19.70	180	13896	1.0397	ug/L	97
99) Hexachlorobutadiene	19.87	225	24238	4.1823	ug/L	98
100) Naphthalene	20.06	128	18817	0.9097	ug/L	98
101) 1,2,3-Trichlorobenzene	20.37	180	12851	1.1132	ug/L	97

(#) = qualifier out of range (m) = manual integration
 8M380366.D 8260WTR.M Fri Jun 29 09:31:57 2012

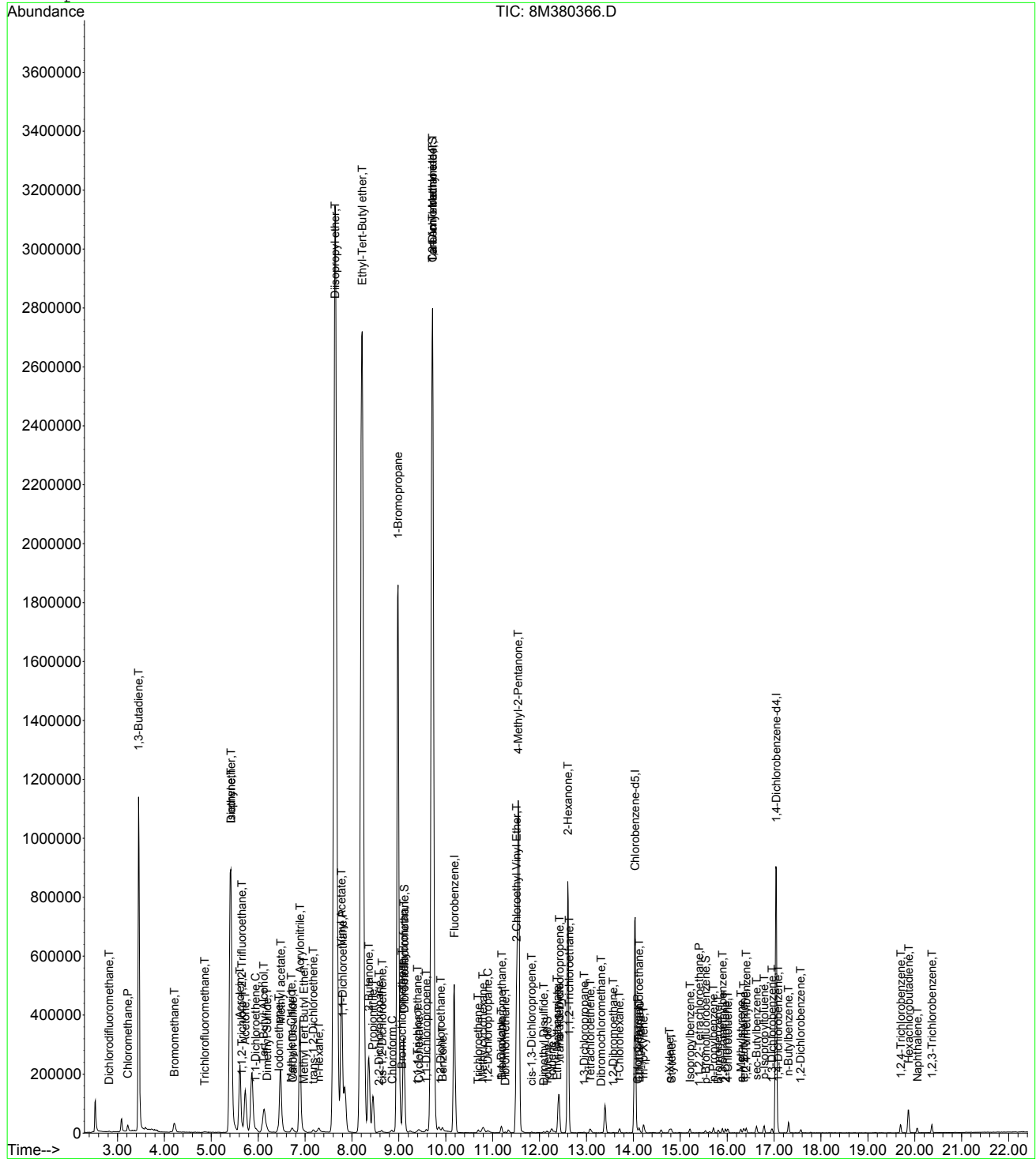
Page 2

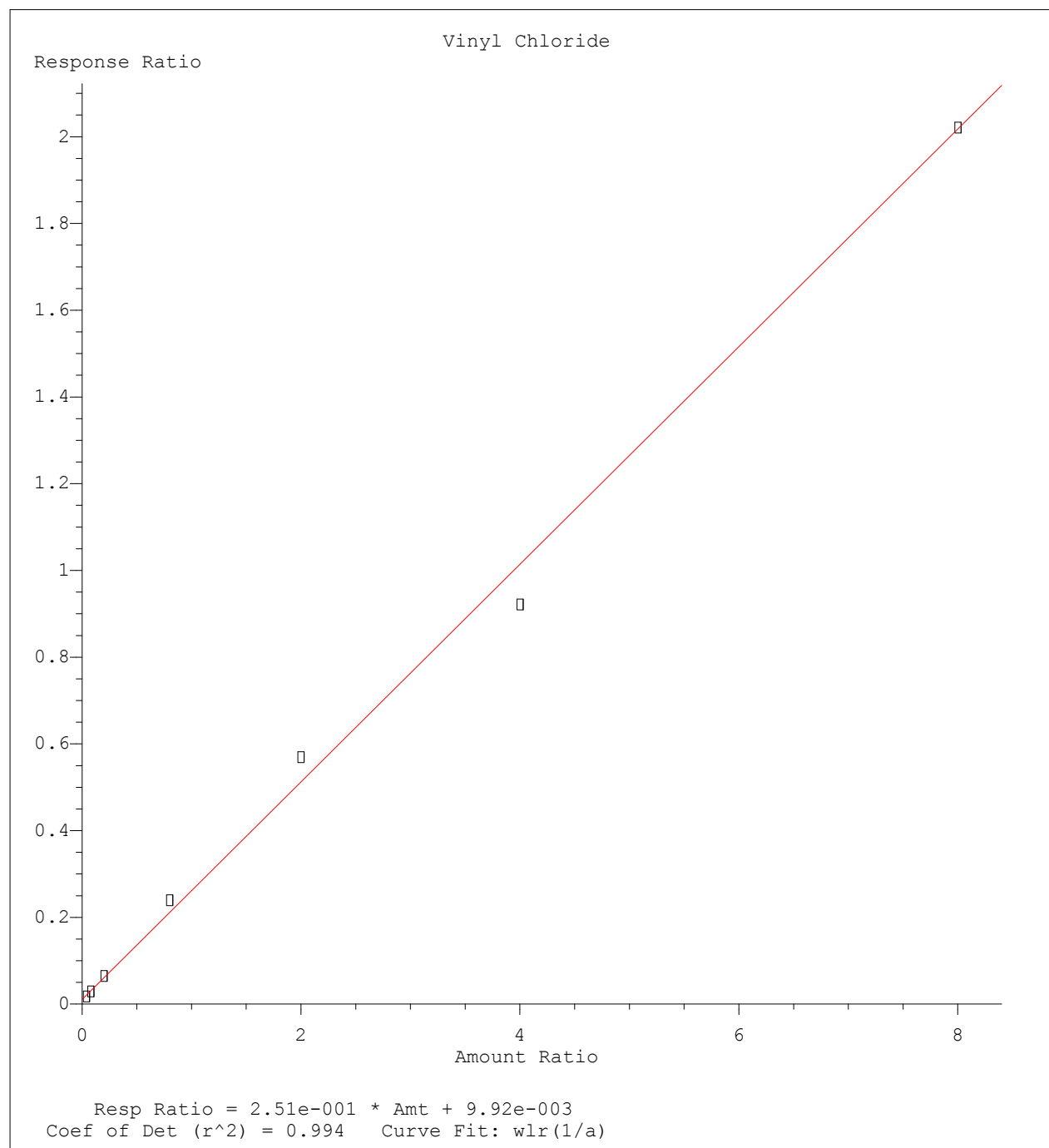
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Acq On : 28 Jun 2012 23:13
Sample : WG401797-11 300.0ug/L STD 8260
Misc : 1,1 STD51967
MS Integration Params: RTEINT.P
Quant Time: Jun 29 9:31 2012

Vial: 11
Operator: adc
Inst : HPMS8
Multiplr: 1.00

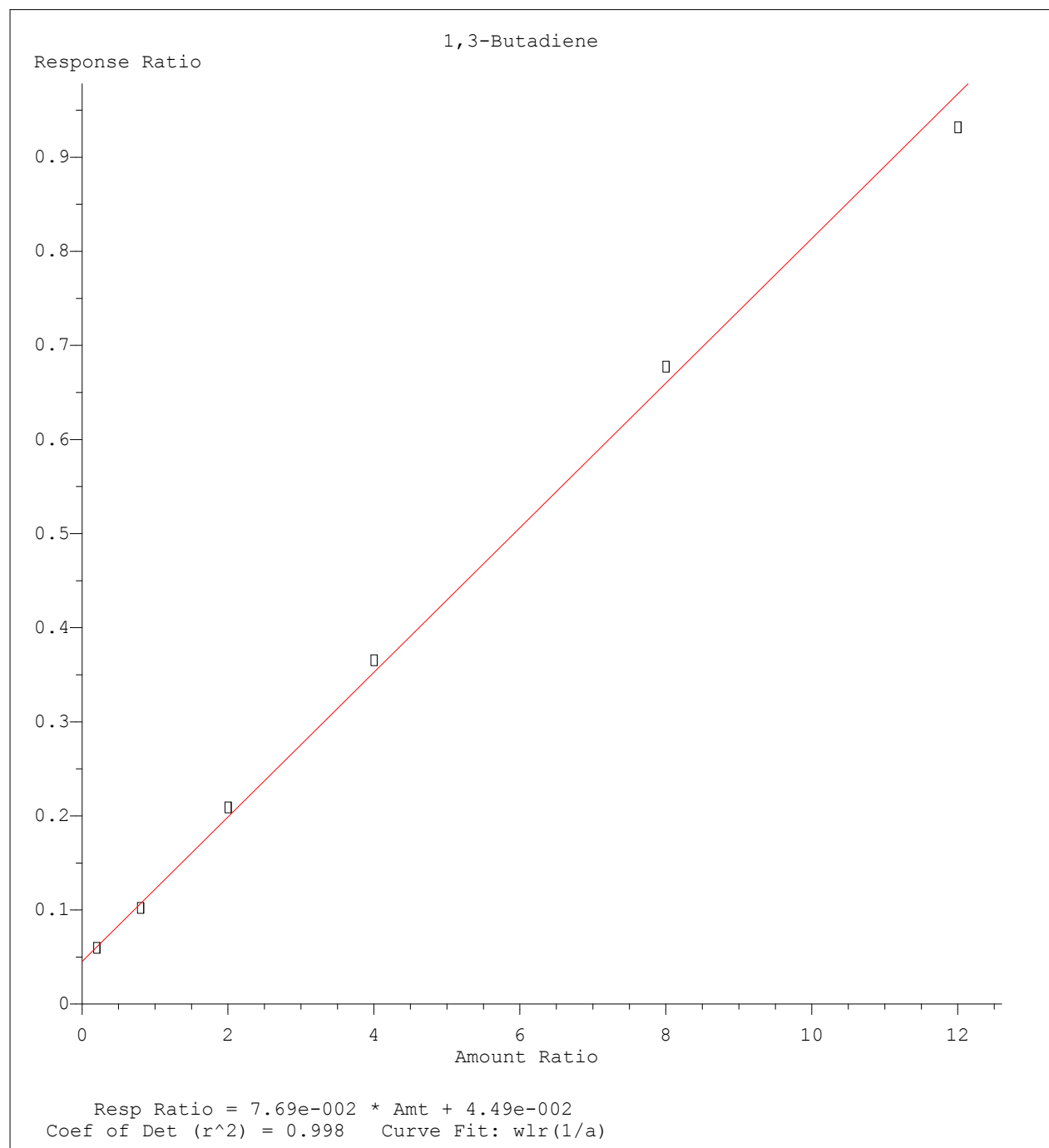
Quant Results File: 8260WTR.RES

Method : C:\MSDCHEM\1\METHODS\8260WTR.M (RTE Integrator)
Title : Method 8260B/624 WTR-SOP:OVLMSV01 06/28/12 HPMS 8
Last Update : Fri Jun 29 09:29:43 2012
Response via : Initial Calibration

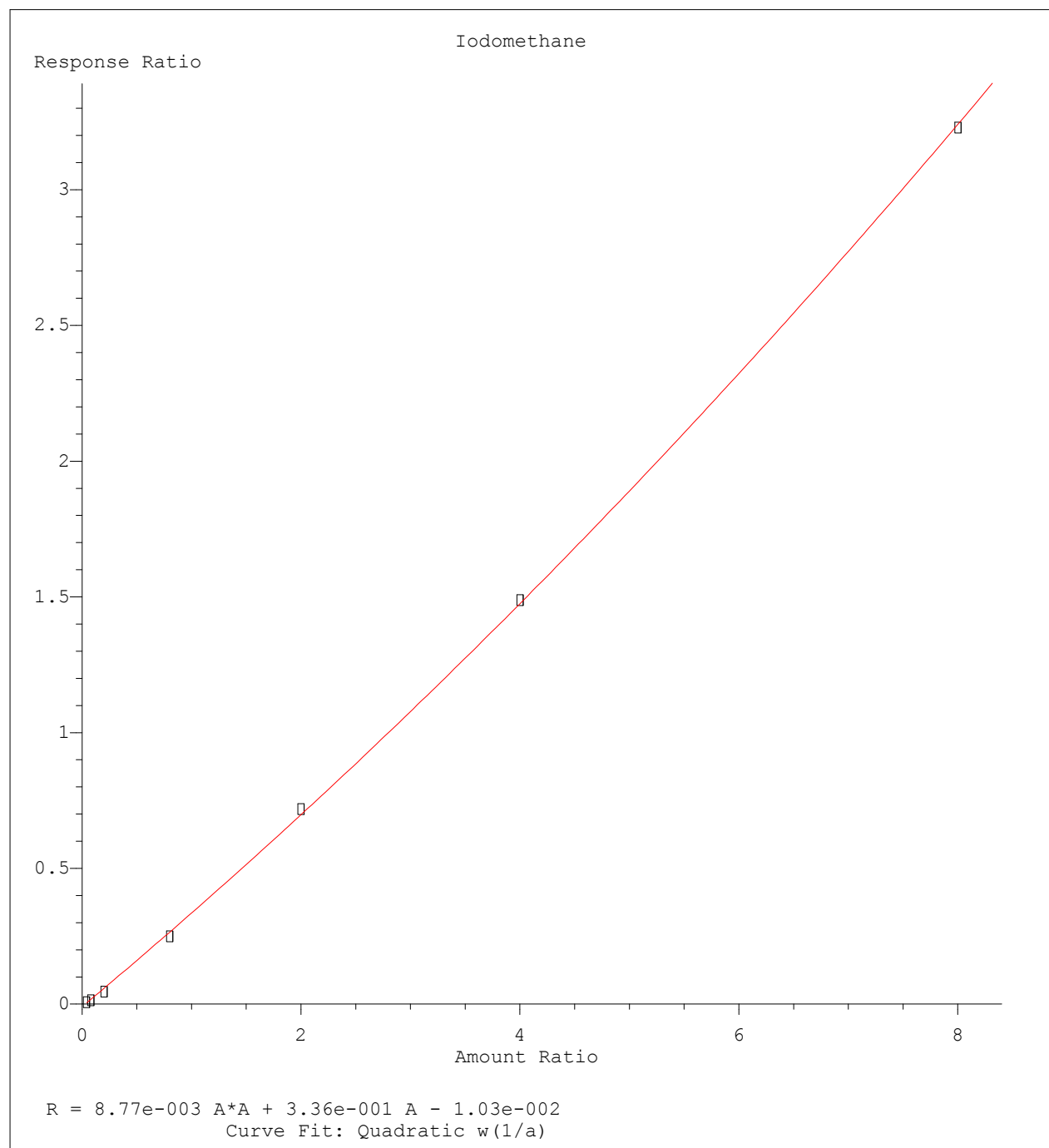




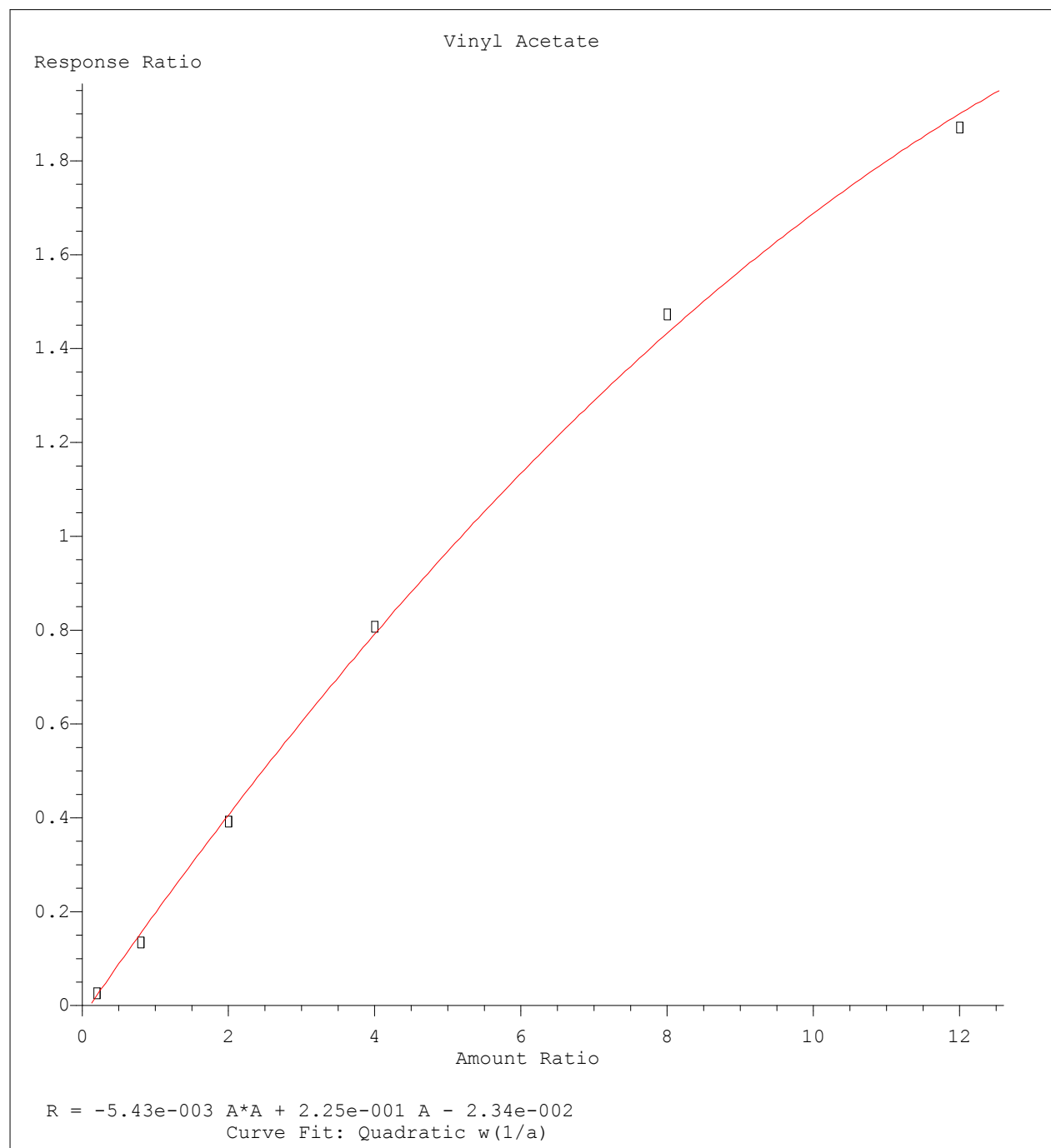
Method Name: C:\MSDCHEM\1\METHODS\8260WTR.M
Calibration Table Last Updated: Fri Jun 29 09:29:43 2012



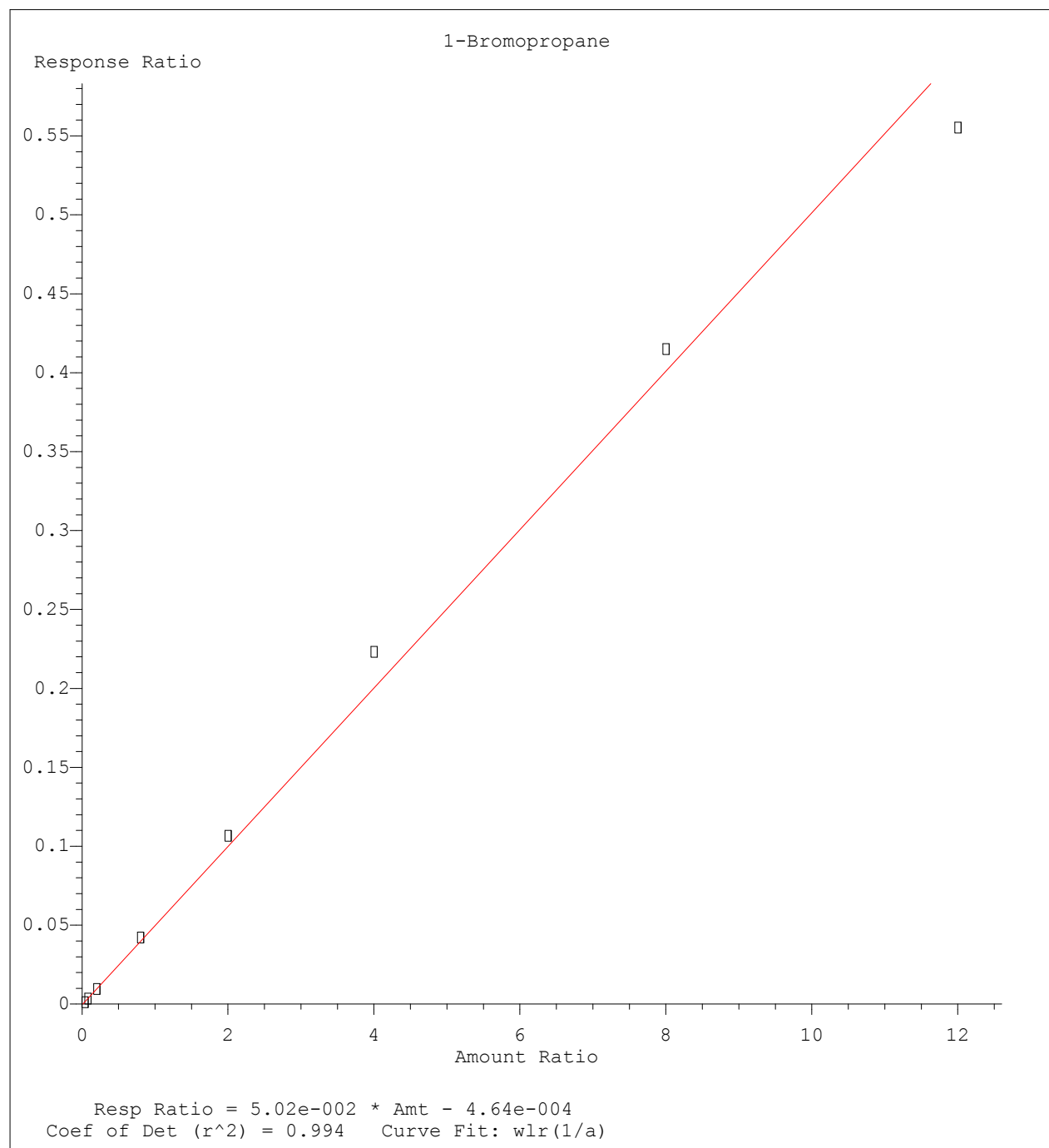
Method Name: C:\MSDCHEM\1\METHODS\8260WTR.M
Calibration Table Last Updated: Fri Jun 29 09:29:43 2012



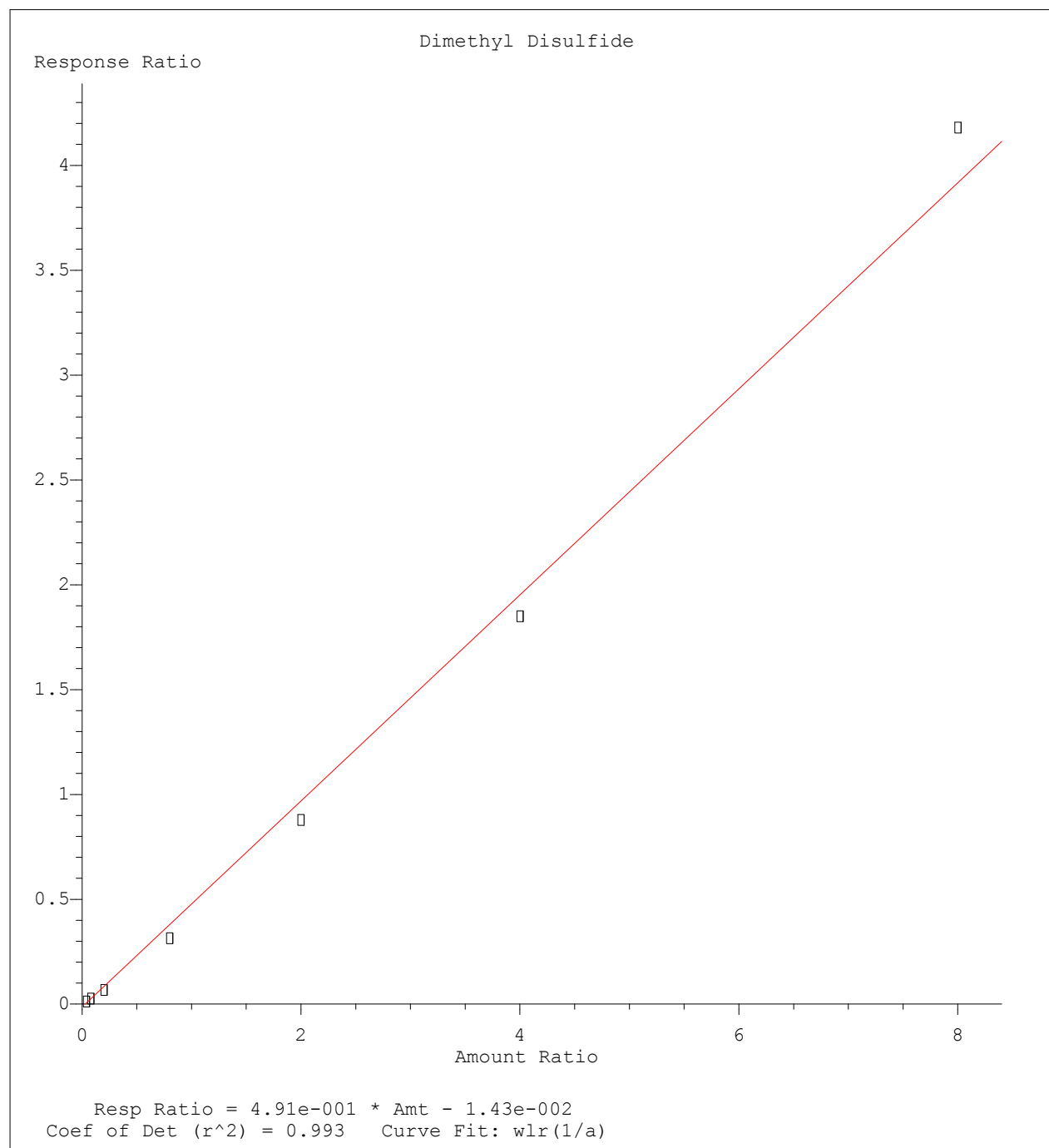
Method Name: C:\MSDCHEM\1\METHODS\8260WTR.M
Calibration Table Last Updated: Fri Jun 29 09:29:43 2012



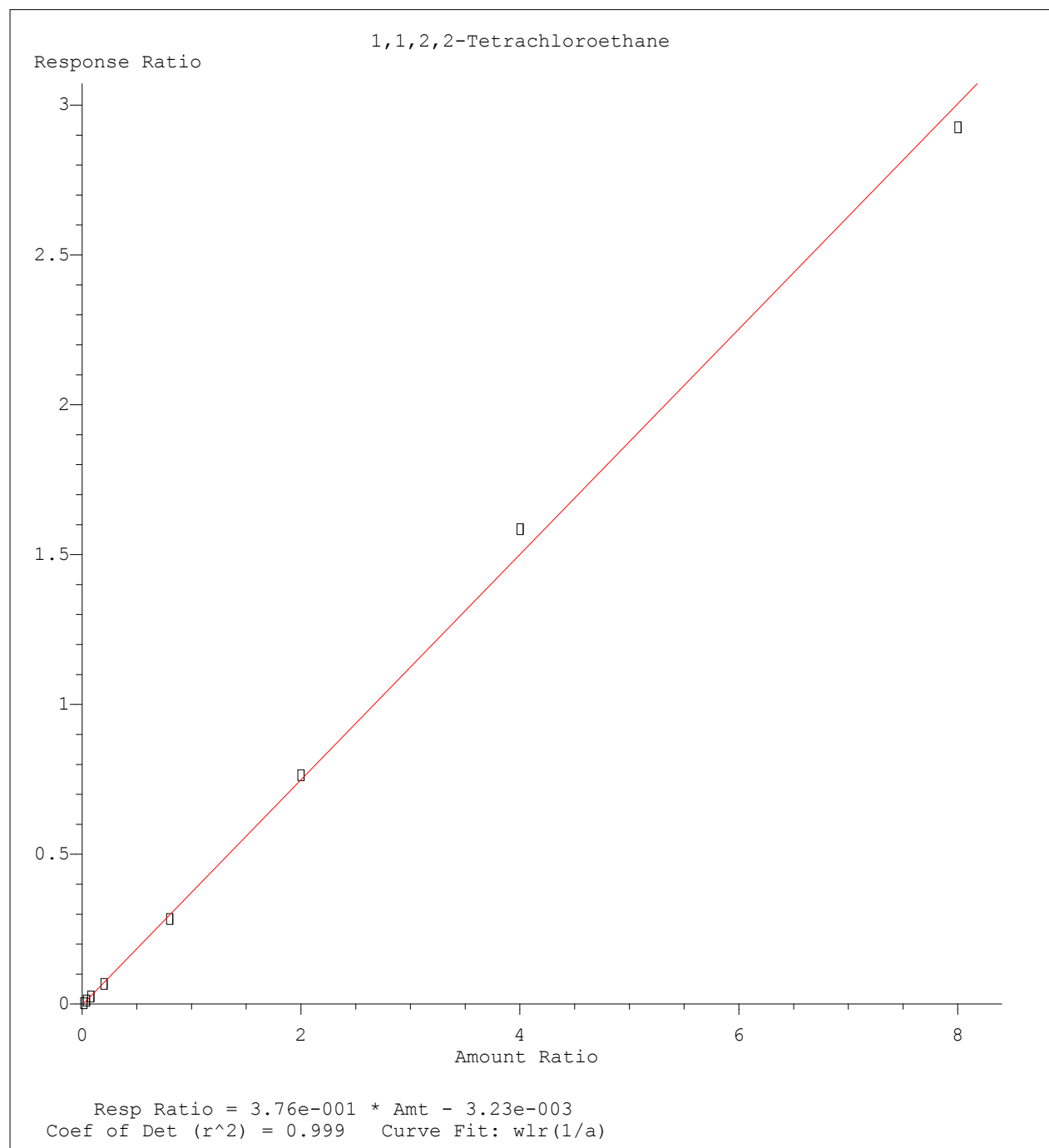
Method Name: C:\MSDCHEM\1\METHODS\8260WTR.M
Calibration Table Last Updated: Fri Jun 29 09:29:43 2012



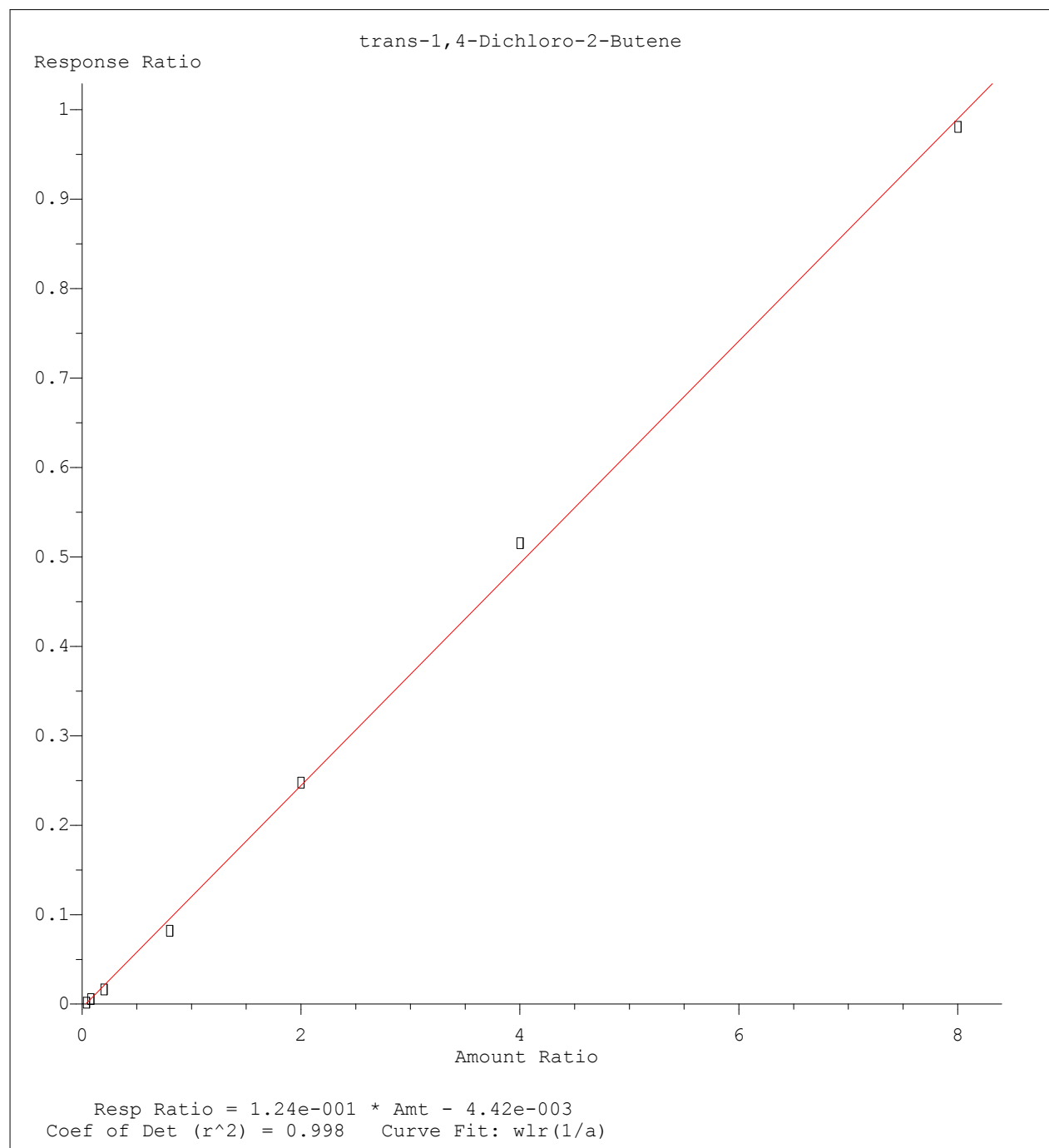
Method Name: C:\MSDCHEM\1\METHODS\8260WTR.M
Calibration Table Last Updated: Fri Jun 29 09:29:43 2012



Method Name: C:\MSDCHEM\1\METHODS\8260WTR.M
Calibration Table Last Updated: Fri Jun 29 09:29:43 2012



Method Name: C:\MSDCHEM\1\METHODS\8260WTR.M
Calibration Table Last Updated: Fri Jun 29 09:29:43 2012



Method Name: C:\MSDCHEM\1\METHODS\8260WTR.M
Calibration Table Last Updated: Fri Jun 29 09:29:43 2012

Data File : C:\MSDCHEM\1\DATA\062812\8M380368.D Vial: 13
 Acq On : 29 Jun 2012 00:14 Operator: adc
 Sample : WG401797-12 50.0ug/L ALTSRC 8260 Inst : HPMS8
 Misc : 1,1 STD52408 Multiplr: 1.00

MS Integration Params: RTEINT.P

Quant Time: Jun 29 09:31:59 2012

Quant Results File: 8260WTR.RES

Quant Method : C:\MSDCHEM\1\METHODS\8260WTR.M (RTE Integrator)
 Title : Method 8260B/624 WTR-SOP:OVLMSV01 06/28/12 HPMS 8
 Last Update : Fri Jun 29 09:29:43 2012
 Response via : Initial Calibration
 DataAcq Meth : 8260WTR

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene	10.19	96	701851	25.00	ug/L	0.00
57) Chlorobenzene-d5	14.03	117	572755	25.00	ug/L	0.00
78) 1,4-Dichlorobenzene-d4	17.04	152	336186	25.00	ug/L	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
37) Dibromofluoromethane	9.13	111	190228	25.2033	ug/L	0.00
Spiked Amount	25.000	Range 86 - 118	Recovery	=	100.80%	
43) 1,2-Dichloroethane-d4	9.76	65	175113	24.8955	ug/L	0.00
Spiked Amount	25.000	Range 80 - 120	Recovery	=	99.60%	
58) Toluene-d8	12.16	98	668839	25.5580	ug/L	0.00
Spiked Amount	25.000	Range 88 - 110	Recovery	=	102.24%	
80) p-Bromofluorobenzene	15.53	95	278977	24.9974	ug/L	0.00
Spiked Amount	25.000	Range 86 - 115	Recovery	=	100.00%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	2.82	85	567205	56.9274	ug/L	100
3) Chloromethane	3.22	50	626896	46.9946	ug/L	99
4) Vinyl Chloride	3.41	62	447053	62.4718	ug/L	99
5) 1,3-Butadiene	3.45	54	106386	34.6901	ug/L	98
6) Bromomethane	4.23	94	300576	48.4543	ug/L	98
7) Chloroethane	4.39	64	322923	50.9519	ug/L	99
8) Trichlorofluoromethane	4.88	101	714050	48.3822	ug/L	99
9) Diethyl ether	5.41	59	479544	108.2124	ug/L	99
10) Isoprene	5.44	67	564385	51.1316	ug/L	99
11) Acrolein	5.61	56	46604	76.5475	ug/L	97
12) 1,1,2-Trichloro-1,2,2-Trif	5.67	101	415078	54.6549	ug/L	100
13) Acetone	5.71	43	68273	56.6746	ug/L	99
14) 1,1-Dichloroethene	5.95	61	639193	50.6818	ug/L	100
15) Tert-Butyl Alcohol	6.08	59	57067	214.7284	ug/L	99
16) Dimethyl Sulfide	6.19	62	463432	50.2181	ug/L	99
17) Iodomethane	6.43	142	502865	51.3144	ug/L	99
18) Methyl acetate	6.47	43	255223	51.6926	ug/L	99
19) Methylene Chloride	6.71	84	379770	48.7149	ug/L	97
20) Carbon Disulfide	6.74	76	1198612	55.9443	ug/L	100
21) Acrylonitrile	6.89	53	89243	53.3930	ug/L	99
22) Methyl Tert Butyl Ether	6.96	73	731466	54.1192	ug/L	100
23) trans-1,2-Dichloroethene	7.18	61	619303	52.3089	ug/L	99
24) n-Hexane	7.30	57	525124	50.8298	ug/L	100
25) Diisopropyl ether	7.64	45	2624792	103.0995	ug/L	100
26) Vinyl Acetate	7.78	43	355135	62.4871	ug/L	99
27) 1,1-Dichloroethane	7.80	63	783343	52.5113	ug/L	100
28) Ethyl-Tert-Butyl ether	8.21	59	2068741	100.1512	ug/L	100
29) 2-Butanone	8.36	43	99301	55.1318	ug/L	100
30) Propionitrile	8.44	54	58260	113.6411	ug/L	100
31) 2,2-Dichloropropane	8.57	77	602833	49.0483	ug/L	100
32) cis-1,2-Dichloroethene	8.63	96	432931	53.2891	ug/L	99
33) Chloroform	8.84	83	702012	52.1344	ug/L	99
34) 1-Bromopropane	8.99	122	98469	70.1600	ug/L	100
35) Bromochloromethane	9.06	130	255061	53.3045	ug/L	100
36) Tetrahydrofuran	9.10	42	115831	108.2863	ug/L	99
38) 1,1,1-Trichloroethane	9.38	97	665913	51.4285	ug/L	100
39) Cyclohexane	9.43	56	713782	51.8763	ug/L	100
40) 1,1-Dichloropropene	9.59	75	559220	51.9872	ug/L	100
41) Tert-Amyl-Methyl ether	9.71	73	1514832	103.5618	ug/L	100
42) Carbon Tetrachloride	9.72	117	651215	52.7910	ug/L	99
45) 1,2-Dichloroethane	9.89	62	485096	51.5371	ug/L	100

(#) = qualifier out of range (m) = manual integration
 8M380368.D 8260WTR.M Fri Jun 29 09:31:59 2012

Page 1

Data File : C:\MSDCHEM\1\DATA\062812\8M380368.D Vial: 13
 Acq On : 29 Jun 2012 00:14 Operator: adc
 Sample : WG401797-12 50.0ug/L ALTSRC 8260 Inst : HPMS8
 Misc : 1,1 STD52408 Multiplr: 1.00
 MS Integration Params: RTEINT.P
 Quant Time: Jun 29 09:31:59 2012 Quant Results File: 8260WTR.RES

Quant Method : C:\MSDCHEM\1\METHODS\8260WTR.M (RTE Integrator)
 Title : Method 8260B/624 WTR-SOP:OVLMSV01 06/28/12 HPMS 8
 Last Update : Fri Jun 29 09:29:43 2012
 Response via : Initial Calibration
 DataAcq Meth : 8260WTR

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
46) Benzene	9.93	78	1547481	50.8276	ug/L	100
47) Trichloroethene	10.69	130	485725	51.4681	ug/L	100
48) Methylcyclohexane	10.80	83	556975	52.6170	ug/L	99
49) 1,2-Dichloropropane	10.90	63	425589	51.5323	ug/L	98
50) Bromodichloromethane	11.19	83	511158	53.2368	ug/L	100
51) 1,4-Dioxane	11.18	88	5636	177.8099	ug/L	93
52) Dibromomethane	11.26	93	194373	53.5602	ug/L	98
53) 2-Chloroethyl Vinyl Ether	11.51	63	176506	212.3559	ug/L	95
54) 4-Methyl-2-Pentanone	11.54	58	81344	52.4720	ug/L	99
55) cis-1,3-Dichloropropene	11.83	75	583188	55.7233	ug/L	99
56) Dimethyl Disulfide	12.08	94	593720	43.7656	ug/L	99
59) Toluene	12.25	91	1699872	51.0018	ug/L	100
60) Ethyl Methacrylate	12.38	69	331209	60.0498	ug/L	96
61) Paraldehyde	12.41	89	6958	92.9154	ug/L	91
62) trans-1,3-Dichloropropene	12.43	75	464523	52.9712	ug/L	99
63) 1,1,2-Trichloroethane	12.65	97	261482	55.1870	ug/L	100
64) 2-Hexanone	12.61	58	74926	55.6923	ug/L	97
65) 1,3-Dichloropropane	12.95	76	464725	55.7213	ug/L	99
66) Tetrachloroethene	13.08	164	421762	51.9561	ug/L	99
67) Dibromochloromethane	13.32	129	389447	55.6350	ug/L	99
68) 1,2-Dibromoethane	13.57	107	277700	55.3602	ug/L	99
69) 1-Chlorohexane	13.70	91	543891	51.5103	ug/L	99
70) Chlorobenzene	14.08	112	1162958	50.8067	ug/L	99
71) 1,1,1,2-Tetrachloroethane	14.13	131	474254	54.4857	ug/L	99
72) Ethylbenzene	14.13	106	682904	51.4242	ug/L	99
73) m-,p-Xylene	14.22	106	1666106	103.1546	ug/L	100
74) o-Xylene	14.77	106	822990	51.7477	ug/L	98
75) Styrene	14.81	104	1361419	52.7133	ug/L	100
76) Bromoform	15.27	173	241482	55.5325	ug/L	99
77) Isopropylbenzene	15.20	105	1804891	45.5909	ug/L	100
79) 1,1,2,2-Tetrachloroethane	15.40	83	261515	51.9206	ug/L	99
81) 1,2,3-Trichloropropane	15.59	110	88648	55.9716	ug/L	97
82) trans-1,4-Dichloro-2-Butene	15.65	53	81765	49.7724	ug/L	100
83) n-Propylbenzene	15.71	91	2297253	50.6424	ug/L	100
84) Bromobenzene	15.81	156	542781	50.8016	ug/L	100
85) 1,3,5-Trimethylbenzene	15.89	105	1754503	50.6131	ug/L	100
86) 2-Chlorotoluene	15.97	91	1487455	51.1404	ug/L	100
87) 4-Chlorotoluene	16.02	91	1439517	48.2792	ug/L	100
88) a-Methylstyrene	16.29	118	1063507	54.0611	ug/L	100
89) tert-Butylbenzene	16.36	134	393804	50.6509	ug/L	95
90) 1,2,4-Trimethylbenzene	16.41	105	1873985	52.7204	ug/L	100
91) sec-Butylbenzene	16.63	105	2021653	50.1156	ug/L	100
92) p-Isopropyltoluene	16.78	119	1797557	50.8768	ug/L	100
93) 1,3-Dichlorobenzene	16.96	146	1077650	50.3814	ug/L	100
94) 1,4-Dichlorobenzene	17.08	146	1069779	48.0269	ug/L	100
95) n-Butylbenzene	17.31	91	1525412	50.6436	ug/L	99
96) 1,2-Dichlorobenzene	17.57	146	951303	49.4342	ug/L	100
97) 1,2-Dibromo-3-Chloropropane	18.55	75	50785	55.9591	ug/L	95
98) 1,2,4-Trichlorobenzene	19.70	180	669265	50.3540	ug/L	100
99) Hexachlorobutadiene	19.86	225	277598	48.1669	ug/L	99
100) Naphthalene	20.05	128	1071610	52.0958	ug/L	100
101) 1,2,3-Trichlorobenzene	20.37	180	562292	48.9811	ug/L	99

(#) = qualifier out of range (m) = manual integration
 8M380368.D 8260WTR.M Fri Jun 29 09:31:59 2012

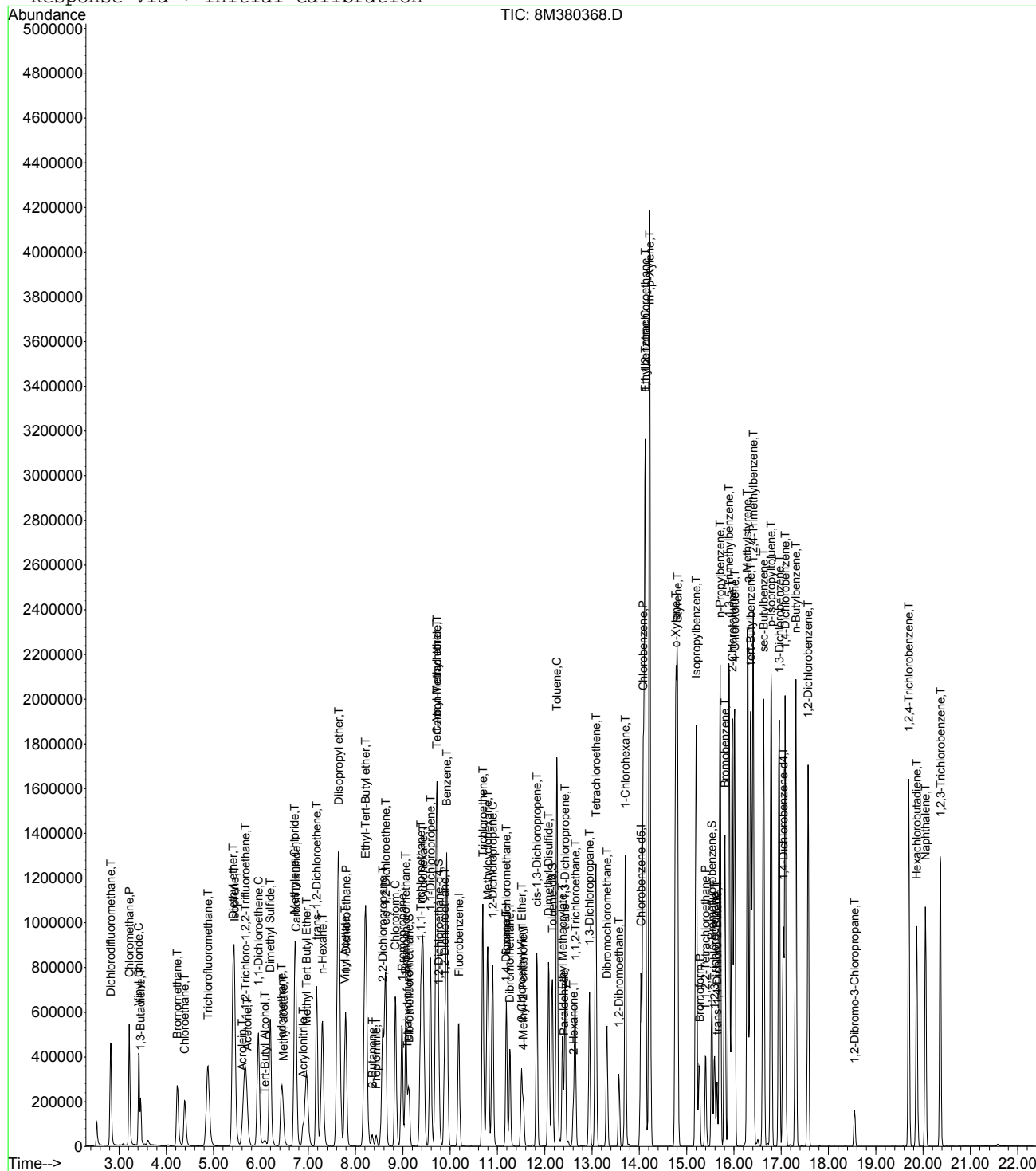
Page 2

Data File : C:\MSDCHEM\1\DATA\062812\8M380368.D
Acq On : 29 Jun 2012 00:14
Sample : WG401797-12 50.0ug/L ALTSRC 8260
Misc : 1,1 STD52408
MS Integration Params: RTEINT.P
Quant Time: Jun 29 9:31 2012

Vial: 13
Operator: adc
Inst : HPMS8
Multiplr: 1.00

Quant Results File: 8260WTR.RES

Method : C:\MSDCHEM\1\METHODS\8260WTR.M (RTE Integrator)
Title : Method 8260B/624 WTR-SOP:OVLMSV01 06/28/12 HPMS 8
Last Update : Fri Jun 29 09:29:43 2012
Response via : Initial Calibration



Data File : C:\MSDCHEM\1\DATA\062812\8M380368.D Vial: 13
 Acq On : 29 Jun 2012 00:14 Operator: adc
 Sample : WG401797-12 50.0ug/L ALTSRC 8260 Inst : HPMS8
 Misc : 1,1 STD52408 Multiplr: 1.00
 MS Integration Params: RTEINT.P

Method : C:\MSDCHEM\1\METHODS\8260WTR.M (RTE Integrator)
 Title : Method 8260B/624 WTR-SOP:OVLMSV01 06/28/12 HPMS 8
 Last Update : Fri Jun 29 09:29:43 2012
 Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
 Max. RRF Dev : 25% Max. Rel. Area : 150%

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1 I	Fluorobenzene	25.0000	25.0000	0.0	102	0.00
2 T	Dichlorodifluoromethane	50.0000	56.9274	-13.9	121	0.00
3 P	Chloromethane	50.0000	46.9947	6.0	107	0.00
4 C	Vinyl Chloride	50.0000	62.4718	-24.9#	114	0.00
5 T	1,3-Butadiene	50.0000	34.6901	30.6#	74	0.00
6 T	Bromomethane	50.0000	48.4543	3.1	103	0.00
7 T	Chloroethane	50.0000	50.9519	-1.9	106	0.00
8 T	Trichlorofluoromethane	50.0000	48.3822	3.2	102	0.00
9 T	Diethyl ether	100.0000	108.2124	-8.2	106	0.00
10 T	Isoprene	50.0000	51.1316	-2.3	101	0.00
11 T	Acrolein	100.0000	76.5475	23.5	77	0.00
12 T	1,1,2-Trichloro-1,2,2-Trifl	50.0000	54.6549	-9.3	107	0.00
13 T	Acetone	50.0000	56.6746	-13.3	116	0.00
14 C	1,1-Dichloroethene	50.0000	50.6818	-1.4	104	0.00
15 T	Tert-Butyl Alcohol	200.0000	214.7284	-7.4	108	0.00
16 T	Dimethyl Sulfide	50.0000	50.2181	-0.4	102	0.00
17 T	Iodomethane	50.0000	51.3143	-2.6	102	0.00
18 T	Methyl acetate	50.0000	51.6926	-3.4	109	0.00
19 T	Methylene Chloride	50.0000	48.7149	2.6	107	0.00
20 T	Carbon Disulfide	50.0000	55.9443	-11.9	112	0.00
21 T	Acrylonitrile	50.0000	53.3930	-6.8	109	0.00
22 T	Methyl Tert Butyl Ether	50.0000	54.1192	-8.2	108	0.00
23 T	trans-1,2-Dichloroethene	50.0000	52.3089	-4.6	104	0.00
24 T	n-Hexane	50.0000	50.8298	-1.7	101	0.00
25 T	Diisopropyl ether	100.0000	103.0995	-3.1	102	0.00
26 T	Vinyl Acetate	50.0000	62.4871	-25.0	132	0.00
27 P	1,1-Dichloroethane	50.0000	52.5113	-5.0	105	0.00
28 T	Ethyl-Tert-Butyl ether	100.0000	100.1512	-0.2	99	0.00
29 T	2-Butanone	50.0000	55.1318	-10.3	116	0.00
30 T	Propionitrile	100.0000	113.6411	-13.6	104	0.00
31 T	2,2-Dichloropropane	50.0000	49.0483	1.9	99	0.00
32 T	cis-1,2-Dichloroethene	50.0000	53.2891	-6.6	107	0.00
33 C	Chloroform	50.0000	52.1344	-4.3	108	0.00
34	1-Bromopropane	50.0000	70.1600	-40.3#	134	0.00
35 T	Bromochloromethane	50.0000	53.3045	-6.6	107	0.00
36 T	Tetrahydrofuran	100.0000	108.2863	-8.3	105	0.00
37 S	Dibromofluoromethane	25.0000	25.2033	-0.8	98	0.00
38 T	1,1,1-Trichloroethane	50.0000	51.4285	-2.9	105	0.00
39 T	Cyclohexane	50.0000	51.8763	-3.8	105	0.00
40 T	1,1-Dichloropropene	50.0000	51.9872	-4.0	104	0.00
41 T	Tert-Amyl-Methyl ether	100.0000	103.5618	-3.6	104	0.00
42 T	Carbon Tetrachloride	50.0000	52.7910	-5.6	107	0.00
43 S	1,2-Dichloroethane-d4	25.0000	24.8955	0.4	100	0.00
44	Heptane	50.0000	0.0000	100.0#	0	-2.46#
45 T	1,2-Dichloroethane	50.0000	51.5371	-3.1	106	0.00
46 T	Benzene	50.0000	50.8276	-1.7	107	0.00
47 T	Trichloroethene	50.0000	51.4681	-2.9	110	0.00
48 T	Methylcyclohexane	50.0000	52.6170	-5.2	106	0.00
49 C	1,2-Dichloropropane	50.0000	51.5323	-3.1	107	0.00
50 T	Bromodichloromethane	50.0000	53.2368	-6.5	109	0.00
51 T	1,4-Dioxane	200.0000	177.8099	11.1	87	0.00
52 T	Dibromomethane	50.0000	53.5602	-7.1	109	0.00
53 T	2-Chloroethyl Vinyl Ether	50.0000	212.3559	-324.7#	419	0.00
54 T	4-Methyl-2-Pentanone	50.0000	52.4720	-4.9	110	0.00
55 T	cis-1,3-Dichloropropene	50.0000	55.7233	-11.4	103	0.00

(#) = Out of Range

8M380368.D 8260WTR.M

Fri Jun 29 11:08:30 2012

Page 1

Data File : C:\MSDCHEM\1\DATA\062812\8M380368.D Vial: 13
 Acq On : 29 Jun 2012 00:14 Operator: adc
 Sample : WG401797-12 50.0ug/L ALTSRC 8260 Inst : HPMS8
 Misc : 1,1 STD52408 Multiplr: 1.00
 MS Integration Params: RTEINT.P

Method : C:\MSDCHEM\1\METHODS\8260WTR.M (RTE Integrator)
 Title : Method 8260B/624 WTR-SOP:OVLMSV01 06/28/12 HPMS 8
 Last Update : Fri Jun 29 09:29:43 2012
 Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
 Max. RRF Dev : 25% Max. Rel. Area : 150%

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
56 T	Dimethyl Disulfide	50.0000	43.7656	12.5	98	0.00
57 I	Chlorobenzene-d5	25.0000	25.0000	0.0	100	0.00
58 S	Toluene-d8	25.0000	25.5580	-2.2	98	0.00
59 C	Toluene	50.0000	51.0018	-2.0	105	0.00
60 T	Ethyl Methacrylate	50.0000	60.0498	-20.1	114	0.00
61	Paraldehyde	100.0000	92.9154	7.1	92	0.00
62 T	trans-1,3-Dichloropropene	50.0000	52.9712	-5.9	97	0.00
63 T	1,1,2-Trichloroethane	50.0000	55.1870	-10.4	108	0.00
64 T	2-Hexanone	50.0000	55.6923	-11.4	108	0.00
65 T	1,3-Dichloropropane	50.0000	55.7213	-11.4	108	0.00
66 T	Tetrachloroethene	50.0000	51.9561	-3.9	105	0.00
67 T	Dibromochloromethane	50.0000	55.6351	-11.3	105	0.00
68 T	1,2-Dibromoethane	50.0000	55.3602	-10.7	106	0.00
69 T	1-Chlorohexane	50.0000	51.5103	-3.0	102	0.00
70 P	Chlorobenzene	50.0000	50.8067	-1.6	103	0.00
71 T	1,1,1,2-Tetrachloroethane	50.0000	54.4857	-9.0	106	0.00
72 C	Ethylbenzene	50.0000	51.4242	-2.8	105	0.00
73 T	m-,p-Xylene	100.0000	103.1546	-3.2	104	0.00
74 T	o-Xylene	50.0000	51.7477	-3.5	104	0.00
75 T	Styrene	50.0000	52.7133	-5.4	103	0.00
76 P	Bromoform	50.0000	55.5325	-11.1	104	0.00
77 T	Isopropylbenzene	50.0000	45.5909	8.8	93	0.00
78 I	1,4-Dichlorobenzene-d4	25.0000	25.0000	0.0	101	0.00
79 P	1,1,2,2-Tetrachloroethane	50.0000	51.9206	-3.8	103	0.00
80 S	p-Bromofluorobenzene	25.0000	24.9974	0.0	99	0.00
81 T	1,2,3-Trichloropropane	50.0000	55.9716	-11.9	108	0.00
82 T	trans-1,4-Dichloro-2-Butene	50.0000	49.7724	0.5	100	0.00
83 T	n-Propylbenzene	50.0000	50.6424	-1.3	105	0.00
84 T	Bromobenzene	50.0000	50.8016	-1.6	105	0.00
85 T	1,3,5-Trimethylbenzene	50.0000	50.6131	-1.2	104	0.00
86 T	2-Chlorotoluene	50.0000	51.1404	-2.3	106	0.00
87 T	4-Chlorotoluene	50.0000	48.2792	3.4	100	0.00
88 T	a-Methylstyrene	50.0000	54.0611	-8.1	106	0.00
89 T	tert-Butylbenzene	50.0000	50.6509	-1.3	104	0.00
90 T	1,2,4-Trimethylbenzene	50.0000	52.7204	-5.4	108	0.00
91 T	sec-Butylbenzene	50.0000	50.1155	-0.2	103	0.00
92 T	p-Isopropyltoluene	50.0000	50.8768	-1.8	105	0.00
93 T	1,3-Dichlorobenzene	50.0000	50.3814	-0.8	104	0.00
94 T	1,4-Dichlorobenzene	50.0000	48.0269	3.9	103	0.00
95 T	n-Butylbenzene	50.0000	50.6436	-1.3	105	0.00
96 T	1,2-Dichlorobenzene	50.0000	49.4342	1.1	104	0.00
97 T	1,2-Dibromo-3-Chloropropane	50.0000	55.9591	-11.9	103	0.00
98 T	1,2,4-Trichlorobenzene	50.0000	50.3541	-0.7	105	0.00
99 T	Hexachlorobutadiene	50.0000	48.1669	3.7	102	0.00
100 T	Naphthalene	50.0000	52.0958	-4.2	106	0.00
101 T	1,2,3-Trichlorobenzene	50.0000	48.9811	2.0	105	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 1
 8M380368.D 8260WTR.M Fri Jun 29 11:08:30 2012

Page 2

Data File : C:\MSDCHEM\1\data\072112\10M97157.D Vial: 3
 Acq On : 21 Jul 2012 16:11 Operator: MES
 Sample : WG404057-02 50ug/L CCV STD 8260 Inst : HPMS10
 Misc : 1,1 STD52670 Multiplr: 1.00
 MS Integration Params: RTEINT.P
 Quant Time: Jul 21 16:32:49 2012 Quant Results File: 8260BWT.RES

Quant Method : C:\MSDCHEM\1\METHODS\8260BWT.M (RTE Integrator)
 Title : 8260B/624 WT (SOP: OVL MSV01) 06/26/12 HPMS10
 Last Update : Tue Jul 10 17:22:08 2012
 Response via : Initial Calibration
 DataAcq Meth : 8260BWT

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene	10.10	96	509989	25.00	ug/L	0.00
57) Chlorobenzene-d5	13.71	117	390931	25.00	ug/L	-0.01
78) 1,4-Dichlorobenzene-d4	16.51	152	218465	25.00	ug/L	-0.01

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
37) Dibromofluoromethane	9.11	111	116520	24.92	ug/L	0.00
Spiked Amount	25.000	Range 86 - 118	Recovery	=	99.68%	
43) 1,2-Dichloroethane-d4	9.72	65	122116	25.00	ug/L	0.00
Spiked Amount	25.000	Range 80 - 120	Recovery	=	100.00%	
58) Toluene-d8	11.95	98	412394	24.70	ug/L	0.00
Spiked Amount	25.000	Range 88 - 110	Recovery	=	98.80%	
80) p-Bromofluorobenzene	15.10	95	158861	24.28	ug/L	0.00
Spiked Amount	25.000	Range 86 - 115	Recovery	=	97.12%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	2.94	85	273285	62.45	ug/L	99
3) Chloromethane	3.35	50	405165	53.12	ug/L	98
4) Vinyl Chloride	3.56	62	318402	55.13	ug/L	100
5) 1,3-Butadiene	3.59	54	179006	63.13	ug/L	93
6) Bromomethane	4.40	94	164166	56.05	ug/L	99
7) Chloroethane	4.55	64	183378	52.06	ug/L	97
8) Trichlorofluoromethane	5.02	101	429342	54.63	ug/L	100
9) Diethyl ether	5.52	59	400676	102.58	ug/L	91
10) Isoprene	5.55	67	381465	51.41	ug/L	94
11) Acrolein	5.74	56	35473	58.45	ug/L	100
12) 1,1,2-Trichloro-1,2,2-Trif	5.77	101	242473	54.32	ug/L	95
13) Acetone	5.84	43	56542	47.24	ug/L	94
14) 1,1-Dichloroethene	6.06	96	228221	53.52	ug/L	95
15) Tert-Butyl Alcohol	6.16	59	55485	174.47	ug/L	96
16) Dimethyl Sulfide	6.31	62	309550	55.94	ug/L	87
17) Iodomethane	6.56	142	302137	37.02	ug/L	92
18) Methyl acetate	6.57	43	169893	54.58	ug/L	92
19) Methylene Chloride	6.81	84	261831	51.40	ug/L	84
20) Carbon Disulfide	6.84	76	692333	54.37	ug/L	99
21) Acrylonitrile	6.99	53	71647	47.87	ug/L	98
22) Methyl Tert Butyl Ether	7.02	73	590197	51.41	ug/L	96
23) trans-1,2-Dichloroethene	7.25	96	255620	52.41	ug/L	94
24) n-Hexane	7.33	57	357763	57.45	ug/L	96
25) Diisopropyl ether	7.65	45	2011763	111.95	ug/L	95
26) Vinyl Acetate	7.82	43	326743	53.50	ug/L	95
27) 1,1-Dichloroethane	7.84	63	491933	52.56	ug/L	99
28) Ethyl-Tert-Butyl ether	8.20	59	1657254	106.15	ug/L	96
29) 2-Butanone	8.36	43	78540	46.91	ug/L	92
30) Propionitrile	8.47	54	46604	98.40	ug/L	98
31) 2,2-Dichloropropane	8.58	77	404346	55.27	ug/L	95
32) cis-1,2-Dichloroethene	8.64	96	282895	52.75	ug/L	97
33) Chloroform	8.84	83	469799	52.78	ug/L	99
34) 1-Bromopropane	8.96	122	45928	55.10	ug/L	100
35) Bromochloromethane	9.06	128	126323	52.99	ug/L	86
36) Tetrahydrofuran	9.08	42	101997	100.06	ug/L	89
38) 1,1,1-Trichloroethane	9.35	97	423961	54.23	ug/L	99
39) Cyclohexane	9.37	56	446104	59.55	ug/L	93
40) 1,1-Dichloropropene	9.53	75	360112	53.82	ug/L	99
41) Carbon Tetrachloride	9.67	117	383275	55.72	ug/L	100
42) Tert-Amyl-Methyl ether	9.64	73	1286679	104.10	ug/L	98

(#) = qualifier out of range (m) = manual integration
 10M97157.D 8260BWT.M Sat Jul 21 16:32:51 2012

Data File : C:\MSDCHEM\1\data\072112\10M97157.D Vial: 3
 Acq On : 21 Jul 2012 16:11 Operator: MES
 Sample : WG404057-02 50ug/L CCV STD 8260 Inst : HPMS10
 Misc : 1,1 STD52670 Multiplr: 1.00
 MS Integration Params: RTEINT.P
 Quant Time: Jul 21 16:32:49 2012 Quant Results File: 8260BWT.RES

Quant Method : C:\MSDCHEM\1\METHODS\8260BWT.M (RTE Integrator)
 Title : 8260B/624 WT (SOP: OVL MSV01) 06/26/12 HPMS10
 Last Update : Tue Jul 10 17:22:08 2012
 Response via : Initial Calibration
 DataAcq Meth : 8260BWT

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
45) 1,2-Dichloroethane	9.83	62	348969	53.48	ug/L	91
46) Benzene	9.86	78	1004489	51.45	ug/L	99
47) Trichloroethene	10.58	130	263750	50.56	ug/L	97
48) Methylcyclohexane	10.65	83	365072	55.61	ug/L	95
49) 1,2-Dichloropropane	10.77	63	268285	51.59	ug/L	94
50) Bromodichloromethane	11.05	83	356937	52.72	ug/L	99
51) 1,4-Dioxane	11.04	88	5974	179.89	ug/L	90
52) Dibromomethane	11.13	93	143714	52.46	ug/L	95
53) 2-Chloroethyl Vinyl Ether	11.34	63	101037	38.49	ug/L	98
54) 4-Methyl-2-Pentanone	11.36	58	59819	45.99	ug/L	97
55) cis-1,3-Dichloropropene	11.65	75	418582	56.60	ug/L	97
56) Dimethyl Disulfide	11.89	79	245751	50.69	ug/L	98
59) Toluene	12.04	91	1079658	50.84	ug/L	98
60) Ethyl Methacrylate	12.14	69	249221	52.64	ug/L	97
61) Paraldehyde	12.17	89	5589	75.90	ug/L	86
62) trans-1,3-Dichloropropene	12.21	75	365317	51.18	ug/L	100
63) 1,1,2-Trichloroethane	12.41	97	186238	47.98	ug/L	100
64) 2-Hexanone	12.35	43	110445	44.64	ug/L #	59
65) 1,3-Dichloropropane	12.69	76	327286	47.84	ug/L	91
66) Tetrachloroethene	12.81	164	222451	50.23	ug/L	90
67) Dibromochloromethane	13.05	129	250253	51.89	ug/L	99
68) 1,2-Dibromoethane	13.28	107	189096	50.60	ug/L	98
69) 1-Chlorohexane	13.38	91	342912	52.02	ug/L	96
70) Chlorobenzene	13.76	112	729470	51.04	ug/L	100
71) 1,1,1,2-Tetrachloroethane	13.78	131	290336	53.33	ug/L	96
72) Ethylbenzene	13.78	106	396644	50.38	ug/L	94
73) m-,p-Xylene	13.86	106	968932	106.37	ug/L	96
74) o-Xylene	14.39	106	460812	50.34	ug/L	96
75) Styrene	14.42	104	791730	53.31	ug/L	99
76) Bromoform	14.88	173	164388	50.45	ug/L	98
77) Isopropylbenzene	14.78	105	1149452	51.85	ug/L	99
79) 1,1,2,2-Tetrachloroethane	14.98	83	216609	49.48	ug/L	99
81) 1,2,3-Trichloropropane	15.15	110	61458	46.24	ug/L #	28
82) trans-1,4-Dichloro-2-Butene	15.20	53	69516	42.60	ug/L #	41
83) n-Propylbenzene	15.25	91	1347341	51.14	ug/L	99
84) Bromobenzene	15.37	156	318324	49.66	ug/L	69
85) 1,3,5-Trimethylbenzene	15.42	105	968473	51.92	ug/L	100
86) 2-Chlorotoluene	15.50	91	827603	46.32	ug/L	91
87) 4-Chlorotoluene	15.55	91	895433	56.36	ug/L	89
88) a-Methylstyrene	15.80	118	566126	51.36	ug/L	99
89) tert-Butylbenzene	15.85	134	212640	49.22	ug/L	88
90) 1,2,4-Trimethylbenzene	15.90	105	1007598	51.34	ug/L	100
91) sec-Butylbenzene	16.09	105	1143448	51.15	ug/L	98
92) p-Isopropyltoluene	16.25	119	955478	49.65	ug/L	98
93) 1,3-Dichlorobenzene	16.43	146	601223	50.39	ug/L	94
94) 1,4-Dichlorobenzene	16.54	146	607069	50.48	ug/L	94
95) n-Butylbenzene	16.74	91	883675	51.70	ug/L	99
96) 1,2-Dichlorobenzene	17.00	146	553706	50.41	ug/L	95
97) 1,2-Dibromo-3-Chloropropane	17.92	157	40992	44.25	ug/L	93
98) 1,2,4-Trichlorobenzene	18.97	180	359690	44.85	ug/L	99
99) Hexachlorobutadiene	19.11	225	134501	49.92	ug/L	98
100) Naphthalene	19.31	128	603187	42.91	ug/L	99
101) 1,2,3-Trichlorobenzene	19.60	180	311125	43.69	ug/L	98

(#) = qualifier out of range (m) = manual integration
 10M97157.D 8260BWT.M Sat Jul 21 16:32:51 2012

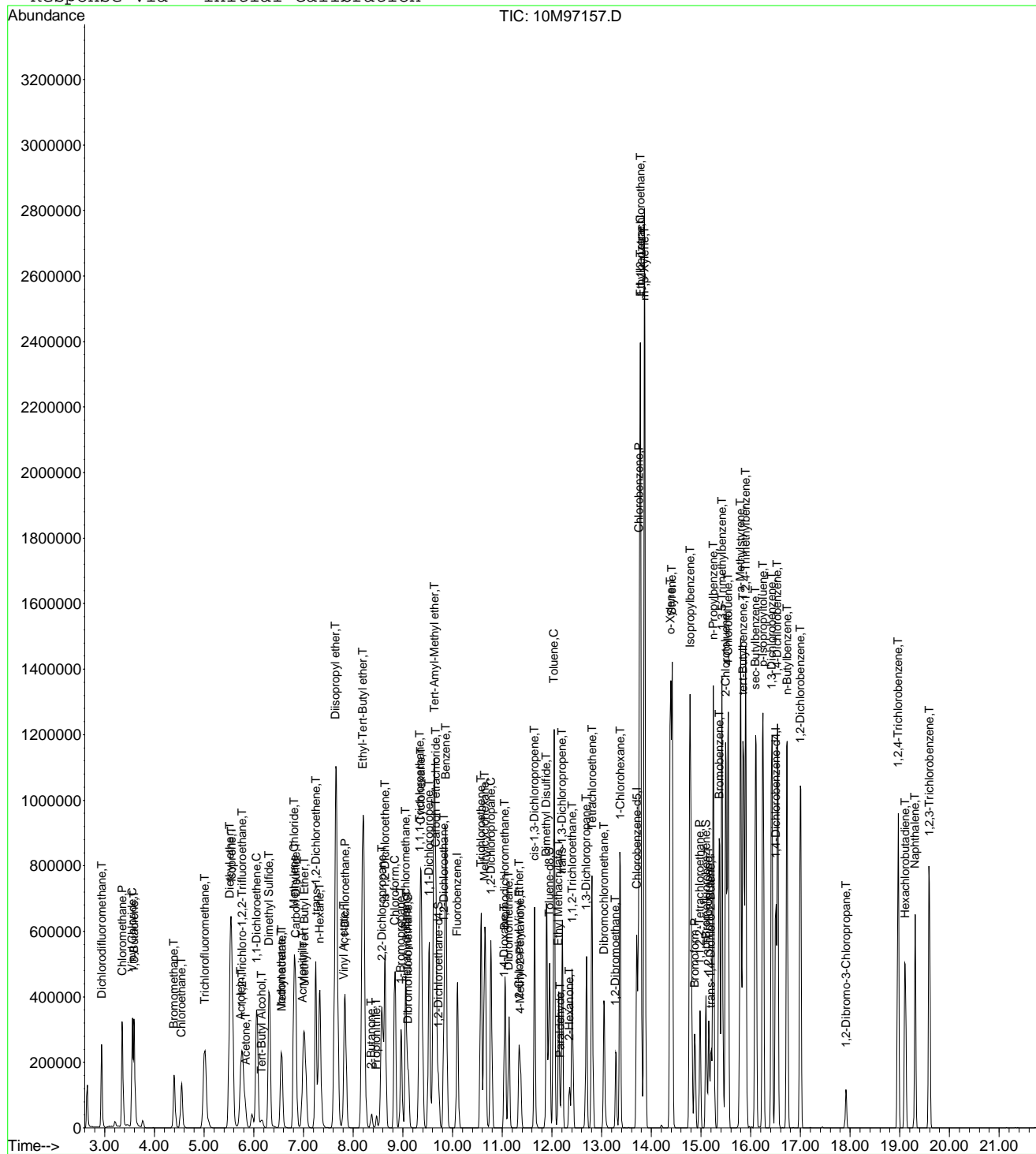
Page 2

Data File : C:\MSDchem\1\data\072112\10M97157.D
Acq On : 21 Jul 2012 16:11
Sample : WG404057-02 50ug/L CCV STD 8260
Misc : 1,1 STD52670
MS Integration Params: RTEINT.P
Quant Time: Jul 21 16:32 2012

Vial: 3
Operator: MES
Inst : HPMS10
Multiplr: 1.00

Quant Results File: 8260BWT.RES

Method : C:\MSDCHEM\1\METHODS\8260BWT.M (RTE Integrator)
Title : 8260B/624 WT (SOP: OVL MSV01) 06/26/12 HPMS10
Last Update : Tue Jul 10 17:22:08 2012
Response via : Initial Calibration



Continuing Calibration Area and RT check

Instrument: HPMS10
Initial cal date: 26 Jun 2012 13:40
CCV date: 21 Jul 2012 16:11
CCV Filename: 10M97157.D

	Fluorobenzene		Chlorobenzene-d5		1,4-Dichlorobenzene-d4	
	<u>Amount</u>	<u>RT</u>	<u>Amount</u>	<u>RT</u>	<u>Amount</u>	<u>RT</u>
InitCal	805772	10.13	586339	13.75	335735	16.54
CCV	509989	10.10	390931	13.71	218465	16.51

Data File : C:\MSDCHEM\1\DATA\072112\10M97157.D Vial: 3
 Acq On : 21 Jul 2012 16:11 Operator: MES
 Sample : WG404057-02 50ug/L CCV STD 8260 Inst : HPMS10
 Misc : 1,1 STD52670 Multiplr: 1.00
 MS Integration Params: RTEINT.P

Method : C:\MSDCHEM\1\METHODS\8260BWT.M (RTE Integrator)
 Title : 8260B/624 WT (SOP: OVL MSV01) 06/26/12 HPMS10
 Last Update : Tue Jul 10 17:22:08 2012
 Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
 Max. RRF Dev : 25% Max. Rel. Area : 150%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1 I	Fluorobenzene	1.0000	1.0000	0.0	63	0.00
2 T	Dichlorodifluoromethane	0.2145	0.2679	-24.9	74	0.06
3 P	Chloromethane	0.3739	0.3972	-6.2	72	0.00
4 C	Vinyl Chloride	0.2831	0.3122	-10.3	75	0.05
5 T	1,3-Butadiene	0.1525	0.1755	-15.1	81	0.05
6 T	Bromomethane	0.1436	0.1610	-12.1	63	0.04
7 T	Chloroethane	0.1727	0.1798	-4.1	64	0.04
8 T	Trichlorofluoromethane	0.3852	0.4209	-9.3	68	0.04
9 T	Diethyl ether	0.1915	0.1964	-2.6	67	0.03
10 T	Isoprene	0.3637	0.3740	-2.8	68	0.02
11 T	Acrolein	0.0297	0.0174	41.5#	36#	0.02
12 T	1,1,2-Trichloro-1,2,2-Trifl	0.2188	0.2377	-8.6	67	0.03
13 T	Acetone	0.0587	0.0554	5.5	62	0.03
14 C	1,1-Dichloroethene	0.2090	0.2238	-7.0	65	0.02
15 T	Tert-Butyl Alcohol	0.0156	0.0136	12.8	56	0.02
16 T	Dimethyl Sulfide	0.2713	0.3035	-11.9	73	0.02
17 T	Iodomethane	0.3625	0.2962	18.3	49#	0.02
18 T	Methyl acetate	0.1526	0.1666	-9.2	73	0.02
19 T	Methylene Chloride	0.2497	0.2567	-2.8	65	0.02
20 T	Carbon Disulfide	0.6242	0.6788	-8.7	70	0.02
21 T	Acrylonitrile	0.0734	0.0702	4.3	62	0.02
22 T	Methyl Tert Butyl Ether	0.5627	0.5786	-2.8	66	0.02
23 T	trans-1,2-Dichloroethene	0.2391	0.2506	-4.8	65	0.02
24 T	n-Hexane	0.3053	0.3508	-14.9	76	0.02
25 T	Diisopropyl ether	0.8809	0.9862	-11.9	71	0.01
26 T	Vinyl Acetate	0.2685	0.3203	-19.3	75	0.01
27 P	1,1-Dichloroethane	0.4588	0.4823	-5.1	64	0.01
28 T	Ethyl-Tert-Butyl ether	0.7653	0.8124	-6.2	67	0.01
29 T	2-Butanone	0.0821	0.0770	6.2	60	0.01
30 T	Propionitrile	0.0232	0.0228	1.6	62	0.01
31 T	2,2-Dichloropropane	0.3586	0.3964	-10.5	71	0.01
32 T	cis-1,2-Dichloroethene	0.2629	0.2773	-5.5	64	0.01
33 C	Chloroform	0.4364	0.4606	-5.6	65	0.01
34 T	1-Bromopropane	0.0409	0.0450	-10.2	69	0.00
35 T	Bromochloromethane	0.1169	0.1239	-6.0	63	0.00
36 T	Tetrahydrofuran	0.0500	0.0500	-0.1	63	0.00
37 S	Dibromofluoromethane	0.2292	0.2285	0.3	61	0.00
38 T	1,1,1-Trichloroethane	0.3832	0.4157	-8.5	68	0.01
39 T	Cyclohexane	0.3672	0.4374	-19.1	78	0.00
40 T	1,1-Dichloropropene	0.3280	0.3531	-7.6	66	0.01
41 T	Carbon Tetrachloride	0.3372	0.3758	-11.4	68	0.01
42 T	Tert-Amyl-Methyl ether	0.6059	0.6307	-4.1	66	0.01
43 S	1,2-Dichloroethane-d4	0.2394	0.2395	-0.0	59	0.00
44	Heptane	0.0000	0.0000	0.0	68	0.00
45 T	1,2-Dichloroethane	0.3199	0.3421	-7.0	67	0.00
46 T	Benzene	0.9570	0.9848	-2.9	64	0.00
47 T	Trichloroethene	0.2557	0.2586	-1.1	63	0.00
48 T	Methylcyclohexane	0.3218	0.3579	-11.2	74	0.00
49 C	1,2-Dichloropropane	0.2549	0.2630	-3.2	64	0.00
50 T	Bromodichloromethane	0.3319	0.3499	-5.4	65	0.00
51 T	1,4-Dioxane	0.0016	0.0015	10.4	55	0.00
52 T	Dibromomethane	0.1343	0.1409	-4.9	63	0.00
53 T	2-Chloroethyl Vinyl Ether	0.1287	0.0991	23.0	49#	0.00
54 T	4-Methyl-2-Pentanone	0.0638	0.0587	8.0	59	0.00

(#) = Out of Range

10M97157.D 8260BWT.M

Sat Jul 21 16:36:41 2012

Page 1

Data File : C:\MSDCHEM\1\DATA\072112\10M97157.D Vial: 3
 Acq On : 21 Jul 2012 16:11 Operator: MES
 Sample : WG404057-02 50ug/L CCV STD 8260 Inst : HPMS10
 Misc : 1,1 STD52670 Multiplr: 1.00
 MS Integration Params: RTEINT.P

Method : C:\MSDCHEM\1\METHODS\8260BWT.M (RTE Integrator)
 Title : 8260B/624 WT (SOP: OVL MSV01) 06/26/12 HPMS10
 Last Update : Tue Jul 10 17:22:08 2012
 Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
 Max. RRF Dev : 25% Max. Rel. Area : 150%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
55 T	cis-1,3-Dichloropropene	0.3625	0.4104	-13.2	68	0.00
56 T	Dimethyl Disulfide	0.2187	0.2409	-10.2	72	0.00
57 I	Chlorobenzene-d5	1.0000	1.0000	0.0	67	-0.01
58 S	Toluene-d8	1.0676	1.0549	1.2	63	0.00
59 C	Toluene	1.3582	1.3809	-1.7	65	0.00
60 T	Ethyl Methacrylate	0.3028	0.3187	-5.3	63	0.00
61 T	Paraldehyde	0.0047	0.0036	24.2	52	0.00
62 T	trans-1,3-Dichloropropene	0.4564	0.4672	-2.4	64	0.00
63 T	1,1,2-Trichloroethane	0.2482	0.2382	4.0	61	0.00
64 T	2-Hexanone	0.1582	0.1413	10.7	58	0.00
65 T	1,3-Dichloropropane	0.4375	0.4186	4.3	62	0.00
66 T	Tetrachloroethene	0.2832	0.2845	-0.5	66	0.00
67 T	Dibromochloromethane	0.3084	0.3201	-3.8	64	-0.01
68 T	1,2-Dibromoethane	0.2390	0.2419	-1.2	62	0.00
69 T	1-Chlorohexane	0.4215	0.4386	-4.0	69	0.00
70 P	Chlorobenzene	0.9140	0.9330	-2.1	66	0.00
71 T	1,1,1,2-Tetrachloroethane	0.3482	0.3713	-6.7	66	0.00
72 C	Ethylbenzene	0.5035	0.5073	-0.8	66	0.00
73 T	m-,p-Xylene	0.5825	0.6196	-6.4	67	0.00
74 T	o-Xylene	0.5853	0.5894	-0.7	65	0.00
75 T	Styrene	0.9498	1.0126	-6.6	63	0.00
76 P	Bromoform	0.2084	0.2102	-0.9	62	0.00
77 T	Isopropylbenzene	1.4177	1.4702	-3.7	65	0.00
78 I	1,4-Dichlorobenzene-d4	1.0000	1.0000	0.0	65	-0.01
79 P	1,1,2,2-Tetrachloroethane	0.5010	0.4958	1.0	63	0.00
80 S	p-Bromofluorobenzene	0.7487	0.7272	2.9	61	0.00
81 T	1,2,3-Trichloropropane	0.1521	0.1407	7.5	61	0.00
82 T	trans-1,4-Dichloro-2-Butene	0.1640	0.1591	3.0	61	0.00
83 T	n-Propylbenzene	3.0147	3.0837	-2.3	65	0.00
84 T	Bromobenzene	0.7335	0.7286	0.7	64	-0.01
85 T	1,3,5-Trimethylbenzene	2.1344	2.2165	-3.8	66	0.00
86 T	2-Chlorotoluene	2.0446	1.8941	7.4	60	0.00
87 T	4-Chlorotoluene	1.8181	2.0494	-12.7	72	0.00
88 T	a-Methylstyrene	1.2614	1.2957	-2.7	70	0.00
89 T	tert-Butylbenzene	0.4944	0.4867	1.6	64	0.00
90 T	1,2,4-Trimethylbenzene	2.2458	2.3061	-2.7	64	0.00
91 T	sec-Butylbenzene	2.5584	2.6170	-2.3	65	0.00
92 T	p-Isopropyltoluene	2.2024	2.1868	0.7	62	0.00
93 T	1,3-Dichlorobenzene	1.3654	1.3760	-0.8	64	0.00
94 T	1,4-Dichlorobenzene	1.3763	1.3894	-1.0	65	-0.01
95 T	n-Butylbenzene	1.9561	2.0225	-3.4	65	0.00
96 T	1,2-Dichlorobenzene	1.2568	1.2673	-0.8	64	-0.01
97 T	1,2-Dibromo-3-Chloropropane	0.1060	0.0938	11.5	56	0.00
98 T	1,2,4-Trichlorobenzene	0.7577	0.8232	-8.6	60	-0.01
99 T	Hexachlorobutadiene	0.3083	0.3078	0.2	65	0.00
100 T	Naphthalene	1.3019	1.3805	-6.0	58	0.00
101 T	1,2,3-Trichlorobenzene	0.6994	0.7121	-1.8	61	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0
 10M97157.D 8260BWT.M Sat Jul 21 16:36:41 2012

Page 2

Data File : C:\MSDCHEM\1\DATA\072112\10M97157.D Vial: 3
 Acq On : 21 Jul 2012 16:11 Operator: MES
 Sample : WG404057-02 50ug/L CCV STD 8260 Inst : HPMS10
 Misc : 1,1 STD52670 Multiplr: 1.00
 MS Integration Params: RTEINT.P

Method : C:\MSDCHEM\1\METHODS\8260BWT.M (RTE Integrator)
 Title : 8260B/624 WT (SOP: OVL MSV01) 06/26/12 HPMS10
 Last Update : Tue Jul 10 17:22:08 2012
 Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
 Max. RRF Dev : 25% Max. Rel. Area : 150%

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1 I	Fluorobenzene	25.0000	25.0000	0.0	63	0.00
2 T	Dichlorodifluoromethane	50.0000	62.4500	-24.9	74	0.06
3 P	Chloromethane	50.0000	53.1226	-6.2	72	0.00
4 C	Vinyl Chloride	50.0000	55.1279	-10.3	75	0.05
5 T	1,3-Butadiene	50.0000	63.1301	-26.3#	81	0.05
6 T	Bromomethane	50.0000	56.0494	-12.1	63	0.04
7 T	Chloroethane	50.0000	52.0560	-4.1	64	0.04
8 T	Trichlorofluoromethane	50.0000	54.6315	-9.3	68	0.04
9 T	Diethyl ether	100.0000	102.5812	-2.6	67	0.03
10 T	Isoprene	50.0000	51.4122	-2.8	68	0.02
11 T	Acrolein	100.0000	58.4479	41.6#	36	0.02
12 T	1,1,2-Trichloro-1,2,2-Trifl	50.0000	54.3160	-8.6	67	0.03
13 T	Acetone	50.0000	47.2412	5.5	62	0.03
14 C	1,1-Dichloroethene	50.0000	53.5204	-7.0	65	0.02
15 T	Tert-Butyl Alcohol	200.0000	174.4681	12.8	56	0.02
16 T	Dimethyl Sulfide	50.0000	55.9366	-11.9	73	0.02
17 T	Iodomethane	50.0000	37.0244	26.0#	49	0.02
18 T	Methyl acetate	50.0000	54.5786	-9.2	73	0.02
19 T	Methylene Chloride	50.0000	51.3995	-2.8	65	0.02
20 T	Carbon Disulfide	50.0000	54.3750	-8.7	70	0.02
21 T	Acrylonitrile	50.0000	47.8745	4.3	62	0.02
22 T	Methyl Tert Butyl Ether	50.0000	51.4116	-2.8	66	0.02
23 T	trans-1,2-Dichloroethene	50.0000	52.4119	-4.8	65	0.02
24 T	n-Hexane	50.0000	57.4472	-14.9	76	0.02
25 T	Diisopropyl ether	100.0000	111.9482	-11.9	71	0.01
26 T	Vinyl Acetate	50.0000	53.5010	-7.0	75	0.01
27 P	1,1-Dichloroethane	50.0000	52.5631	-5.1	64	0.01
28 T	Ethyl-Tert-Butyl ether	100.0000	106.1546	-6.2	67	0.01
29 T	2-Butanone	50.0000	46.9106	6.2	60	0.01
30 T	Propionitrile	100.0000	98.3995	1.6	62	0.01
31 T	2,2-Dichloropropane	50.0000	55.2720	-10.5	71	0.01
32 T	cis-1,2-Dichloroethene	50.0000	52.7467	-5.5	64	0.01
33 C	Chloroform	50.0000	52.7761	-5.6	65	0.01
34 T	1-Bromopropane	50.0000	55.1001	-10.2	69	0.00
35 T	Bromochloromethane	50.0000	52.9874	-6.0	63	0.00
36 T	Tetrahydrofuran	100.0000	100.0552	-0.1	63	0.00
37 S	Dibromofluoromethane	25.0000	24.9191	0.3	61	0.00
38 T	1,1,1-Trichloroethane	50.0000	54.2336	-8.5	68	0.01
39 T	Cyclohexane	50.0000	59.5536	-19.1	78	0.00
40 T	1,1-Dichloropropene	50.0000	53.8208	-7.6	66	0.01
41 T	Carbon Tetrachloride	50.0000	55.7239	-11.4	68	0.01
42 T	Tert-Amyl-Methyl ether	100.0000	104.1012	-4.1	66	0.01
43 S	1,2-Dichloroethane-d4	25.0000	25.0032	-0.0	59	0.00
44	Heptane	-1.0000	0.0000	0.0	68	0.00
45 T	1,2-Dichloroethane	50.0000	53.4842	-7.0	67	0.00
46 T	Benzene	50.0000	51.4523	-2.9	64	0.00
47 T	Trichloroethene	50.0000	50.5553	-1.1	63	0.00
48 T	Methylcyclohexane	50.0000	55.6079	-11.2	74	0.00
49 C	1,2-Dichloropropane	50.0000	51.5941	-3.2	64	0.00
50 T	Bromodichloromethane	50.0000	52.7192	-5.4	65	0.00
51 T	1,4-Dioxane	200.0000	179.8893	10.1	55	0.00
52 T	Dibromomethane	50.0000	52.4586	-4.9	63	0.00
53 T	2-Chloroethyl Vinyl Ether	50.0000	38.4903	23.0	49	0.00
54 T	4-Methyl-2-Pentanone	50.0000	45.9871	8.0	59	0.00

(#) = Out of Range

10M97157.D 8260BWT.M

Sat Jul 21 16:36:39 2012

Page 1

Data File : C:\MSDCHEM\1\DATA\072112\10M97157.D Vial: 3
 Acq On : 21 Jul 2012 16:11 Operator: MES
 Sample : WG404057-02 50ug/L CCV STD 8260 Inst : HPMS10
 Misc : 1,1 STD52670 Multiplr: 1.00
 MS Integration Params: RTEINT.P

Method : C:\MSDCHEM\1\METHODS\8260BWT.M (RTE Integrator)
 Title : 8260B/624 WT (SOP: OVL MSV01) 06/26/12 HPMS10
 Last Update : Tue Jul 10 17:22:08 2012
 Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
 Max. RRF Dev : 25% Max. Rel. Area : 150%

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
55 T	cis-1,3-Dichloropropene	50.0000	56.5985	-13.2	68	0.00
56 T	Dimethyl Disulfide	50.0000	50.6914	-1.4	72	0.00
57 I	Chlorobenzene-d5	25.0000	25.0000	0.0	67	-0.01
58 S	Toluene-d8	25.0000	24.7032	1.2	63	0.00
59 C	Toluene	50.0000	50.8360	-1.7	65	0.00
60 T	Ethyl Methacrylate	50.0000	52.6383	-5.3	63	0.00
61 T	Paraldehyde	100.0000	75.8971	24.1	52	0.00
62 T	trans-1,3-Dichloropropene	50.0000	51.1828	-2.4	64	0.00
63 T	1,1,2-Trichloroethane	50.0000	47.9817	4.0	61	0.00
64 T	2-Hexanone	50.0000	44.6372	10.7	58	0.00
65 T	1,3-Dichloropropane	50.0000	47.8398	4.3	62	0.00
66 T	Tetrachloroethene	50.0000	50.2265	-0.5	66	0.00
67 T	Dibromochloromethane	50.0000	51.8920	-3.8	64	-0.01
68 T	1,2-Dibromoethane	50.0000	50.5952	-1.2	62	0.00
69 T	1-Chlorohexane	50.0000	52.0199	-4.0	69	0.00
70 P	Chlorobenzene	50.0000	51.0366	-2.1	66	0.00
71 T	1,1,1,2-Tetrachloroethane	50.0000	53.3290	-6.7	66	0.00
72 C	Ethylbenzene	50.0000	50.3791	-0.8	66	0.00
73 T	m-,p-Xylene	100.0000	106.3688	-6.4	67	0.00
74 T	o-Xylene	50.0000	50.3447	-0.7	65	0.00
75 T	Styrene	50.0000	53.3056	-6.6	63	0.00
76 P	Bromoform	50.0000	50.4537	-0.9	62	0.00
77 T	Isopropylbenzene	50.0000	51.8493	-3.7	65	0.00
78 I	1,4-Dichlorobenzene-d4	25.0000	25.0000	0.0	65	-0.01
79 P	1,1,2,2-Tetrachloroethane	50.0000	49.4769	1.0	63	0.00
80 S	p-Bromofluorobenzene	25.0000	24.2820	2.9	61	0.00
81 T	1,2,3-Trichloropropane	50.0000	46.2409	7.5	61	0.00
82 T	trans-1,4-Dichloro-2-Butene	50.0000	42.5983	14.8	61	0.00
83 T	n-Propylbenzene	50.0000	51.1439	-2.3	65	0.00
84 T	Bromobenzene	50.0000	49.6608	0.7	64	-0.01
85 T	1,3,5-Trimethylbenzene	50.0000	51.9250	-3.8	66	0.00
86 T	2-Chlorotoluene	50.0000	46.3209	7.4	60	0.00
87 T	4-Chlorotoluene	50.0000	56.3587	-12.7	72	0.00
88 T	a-Methylstyrene	50.0000	51.3603	-2.7	70	0.00
89 T	tert-Butylbenzene	50.0000	49.2228	1.6	64	0.00
90 T	1,2,4-Trimethylbenzene	50.0000	51.3434	-2.7	64	0.00
91 T	sec-Butylbenzene	50.0000	51.1460	-2.3	65	0.00
92 T	p-Isopropyltoluene	50.0000	49.6451	0.7	62	0.00
93 T	1,3-Dichlorobenzene	50.0000	50.3908	-0.8	64	0.00
94 T	1,4-Dichlorobenzene	50.0000	50.4766	-1.0	65	-0.01
95 T	n-Butylbenzene	50.0000	51.6968	-3.4	65	0.00
96 T	1,2-Dichlorobenzene	50.0000	50.4146	-0.8	64	-0.01
97 T	1,2-Dibromo-3-Chloropropane	50.0000	44.2512	11.5	56	0.00
98 T	1,2,4-Trichlorobenzene	50.0000	44.8470	10.3	60	-0.01
99 T	Hexachlorobutadiene	50.0000	49.9247	0.2	65	0.00
100 T	Naphthalene	50.0000	42.9130	14.2	58	0.00
101 T	1,2,3-Trichlorobenzene	50.0000	43.6920	12.6	61	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0
 10M97157.D 8260BWT.M Sat Jul 21 16:36:39 2012

Page 2

Data File : C:\MSDCHEM\1\data\072012\11M85443.D Vial: 3
 Acq On : 20 Jul 2012 16:28 Operator: FJB
 Sample : WG404019-02 50ug/L CCV 8260 Inst : hpms11
 Misc : 1,1 STD52793 Multiplr: 1.00
 MS Integration Params: rteint.p
 Quant Time: Jul 20 16:50:04 2012 Quant Results File: 8260WTR.RES

Quant Method : C:\MSDCHEM\1\METHODS\8260WTR.M (RTE Integrator)
 Title : 8260B/624 (SOP: OVL MSV01) Water 05/03/12 HPMS11
 Last Update : Fri Jul 13 11:24:02 2012
 Response via : Initial Calibration
 DataAcq Meth : 8260WTR

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene	10.28	96	572472	25.00	ug/L	-0.01
57) Chlorobenzene-d5	13.92	117	431328	25.00	ug/L	0.00
78) 1,4-Dichlorobenzene-d4	16.72	152	241390	25.00	ug/L	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
37) Dibromofluoromethane	9.30	111	157969	22.6448	ug/L	0.00
Spiked Amount	25.000	Range 86 - 118	Recovery	=	90.56%	
43) 1,2-Dichloroethane-d4	9.90	65	133653	20.0221	ug/L	0.00
Spiked Amount	25.000	Range 80 - 120	Recovery	=	80.08%	
58) Toluene-d8	12.14	98	575308	25.2866	ug/L	-0.01
Spiked Amount	25.000	Range 88 - 110	Recovery	=	101.16%	
80) p-Bromofluorobenzene	15.30	95	202179	25.3395	ug/L	-0.01
Spiked Amount	25.000	Range 86 - 115	Recovery	=	101.36%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	3.04	85	338538	45.8282	ug/L	96
3) Chloromethane	3.46	50	532278	41.9556	ug/L	96
4) Vinyl Chloride	3.68	62	531019	40.9613	ug/L	98
5) 1,3-Butadiene	3.72	54	814511	92.9300	ug/L	99
6) Bromomethane	4.55	94	234932	57.7463	ug/L	99
7) Chloroethane	4.70	64	203980	46.6584	ug/L	97
8) Trichlorofluoromethane	5.18	101	542235	43.9290	ug/L	100
9) Diethyl ether	5.69	59	385310	88.4312	ug/L	98
10) Isoprene	5.73	67	919680	95.7635	ug/L	98
11) Acrolein	5.90	56	31674	104.6620	ug/L	97
12) 1,1,2-Trichloro-1,2,2-Trif	5.94	101	318215	49.7189	ug/L	99
13) Acetone	6.01	43	44490	41.9028	ug/L	96
14) 1,1-Dichloroethene	6.24	61	453654	52.2043	ug/L	97
15) Tert-Butyl Alcohol	6.34	59	51895	179.7663	ug/L	94
16) Dimethyl Sulfide	6.48	62	653678	91.8437	ug/L	94
17) Iodomethane	6.73	142	781311	88.1077	ug/L	95
18) Methyl acetate	6.74	43	245384	66.3641	ug/L	98
19) Methylene Chloride	6.99	84	317549	51.4151	ug/L	94
20) Carbon Disulfide	7.02	76	1724960	97.3685	ug/L	99
21) Acrylonitrile	7.16	53	59926	47.5077	ug/L	100
22) Methyl Tert Butyl Ether	7.20	73	643483	44.5944	ug/L	99
23) trans-1,2-Dichloroethene	7.42	96	336395	54.2195	ug/L	98
24) n-Hexane	7.51	57	700814	111.8028	ug/L	98
25) Diisopropyl ether	7.83	45	1686826	92.8270	ug/L	96
26) Vinyl Acetate	7.99	43	132932	37.1276	ug/L	98
27) 1,1-Dichloroethane	8.01	63	544971	52.4166	ug/L	100
28) Ethyl-Tert-Butyl ether	8.38	59	1595338	89.9106	ug/L	99
29) 2-Butanone	8.55	43	59778	40.5778	ug/L	95
30) Propionitrile	8.64	54	37306	85.8091	ug/L	94
31) 2,2-Dichloropropane	8.76	77	494087	58.7956	ug/L	99
32) cis-1,2-Dichloroethene	8.82	96	360186	53.5724	ug/L	99
33) Chloroform	9.02	83	554040	50.4046	ug/L	97
34) 1-Bromopropane	9.15	122	124222	98.7973	ug/L	100
35) Bromochloromethane	9.24	130	212999	49.8685	ug/L	98
36) Tetrahydrofuran	9.26	42	73828	77.2147	ug/L	99
38) 1,1,1-Trichloroethane	9.52	97	537166	52.0933	ug/L	97
39) Cyclohexane	9.55	56	900753	108.4224	ug/L	96
40) 1,1-Dichloropropene	9.71	75	439720	53.6279	ug/L	100
41) Carbon Tetrachloride	9.85	117	520490	47.4725	ug/L	99
42) Tert-Amyl-Methyl ether	9.81	73	1395385	86.0151	ug/L	100

(#) = qualifier out of range (m) = manual integration
 11M85443.D 8260WTR.M Fri Jul 20 16:50:05 2012

Data File : C:\MSDCHEM\1\data\072012\11M85443.D Vial: 3
 Acq On : 20 Jul 2012 16:28 Operator: FJB
 Sample : WG404019-02 50ug/L CCV 8260 Inst : hpms11
 Misc : 1,1 STD52793 Multiplr: 1.00
 MS Integration Params: rteint.p
 Quant Time: Jul 20 16:50:04 2012 Quant Results File: 8260WTR.RES

Quant Method : C:\MSDCHEM\1\METHODS\8260WTR.M (RTE Integrator)
 Title : 8260B/624 (SOP: OVL MSV01) Water 05/03/12 HPMS11
 Last Update : Fri Jul 13 11:24:02 2012
 Response via : Initial Calibration
 DataAcq Meth : 8260WTR

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
45) 1,2-Dichloroethane	10.01	62	351078	45.4298	ug/L	99
46) Benzene	10.05	78	1247774	52.0881	ug/L	100
47) Trichloroethene	10.76	130	395227	50.3210	ug/L	99
48) Methylcyclohexane	10.85	83	891691	108.4433	ug/L	99
49) 1,2-Dichloropropane	10.96	63	296450	53.7570	ug/L	94
50) 1,4-Dioxane	11.23	88	6120	156.0910	ug/L	95
51) Bromodichloromethane	11.24	83	401683	53.2157	ug/L	98
52) Dibromomethane	11.32	93	162950	44.1874	ug/L	94
53) 2-Chloroethyl Vinyl Ether	11.53	63	104493	44.4202	ug/L	98
54) 4-Methyl-2-Pentanone	11.55	58	53967	41.8881	ug/L	98
55) cis-1,3-Dichloropropene	11.84	75	475553	54.6946	ug/L	100
56) Dimethyl Disulfide	12.09	79	559405	98.4895	ug/L	98
59) Toluene	12.24	91	1396479	53.8278	ug/L	99
60) Ethyl Methacrylate	12.33	69	488235	88.6903	ug/L	91
61) Paraldehyde	12.36	89	5895	96.8772	ug/L	38
62) trans-1,3-Dichloropropene	12.40	75	391330	56.2598	ug/L	100
63) 1,1,2-Trichloroethane	12.60	97	213376	49.7932	ug/L	100
64) 2-Hexanone	12.54	43	83280	38.4334	ug/L	77
65) 1,3-Dichloropropane	12.89	76	359328	49.9193	ug/L	91
66) Tetrachloroethene	13.01	164	301036	56.6353	ug/L	98
67) Dibromochloromethane	13.25	129	310091	50.8506	ug/L	100
68) 1,2-Dibromoethane	13.49	107	220107	49.6001	ug/L	99
69) 1-Chlorohexane	13.57	91	885619	119.0688	ug/L	96
70) Chlorobenzene	13.96	112	990523	57.3574	ug/L	100
71) 1,1,1,2-Tetrachloroethane	13.99	131	375653	52.4470	ug/L	99
72) Ethylbenzene	13.98	106	527168	56.2529	ug/L	99
73) m-,p-Xylene	14.06	106	1290987	111.5585	ug/L	99
74) o-Xylene	14.59	106	592747	52.5814	ug/L	99
75) Styrene	14.62	104	995137	55.4805	ug/L	98
76) Bromoform	15.09	173	187711	52.3828	ug/L	99
77) Isopropylbenzene	14.98	105	1492753	56.2462	ug/L	99
79) 1,1,2,2-Tetrachloroethane	15.19	83	193644	45.0652	ug/L	98
81) 1,2,3-Trichloropropane	15.36	110	67770	52.1076	ug/L	74
82) trans-1,4-Dichloro-2-Butene	15.41	53	87505	70.1958	ug/L #	5
83) n-Propylbenzene	15.46	91	1694301	53.9447	ug/L	100
84) Bromobenzene	15.58	156	408886	54.4934	ug/L	98
85) 1,3,5-Trimethylbenzene	15.62	105	1223311	52.4465	ug/L	100
86) 2-Chlorotoluene	15.71	91	1054160	49.9062	ug/L	99
87) 4-Chlorotoluene	15.75	91	1079096	58.3760	ug/L	99
88) a-Methylstyrene	16.01	118	1450578	111.6681	ug/L	99
89) tert-Butylbenzene	16.06	134	270634	53.3135	ug/L	94
90) 1,2,4-Trimethylbenzene	16.11	105	1275317	52.5527	ug/L	97
91) sec-Butylbenzene	16.31	105	1429709	52.4960	ug/L	98
92) p-Isopropyltoluene	16.46	119	1284425	54.9640	ug/L	99
93) 1,3-Dichlorobenzene	16.64	146	785336	53.3650	ug/L	98
94) 1,4-Dichlorobenzene	16.76	146	786238	52.4879	ug/L	99
95) n-Butylbenzene	16.95	91	1071445	60.1911	ug/L	99
96) 1,2-Dichlorobenzene	17.22	146	713571	53.5001	ug/L	99
97) 1,2-Dibromo-3-Chloropropane	18.14	75	29952	38.9618	ug/L	92
98) 1,2,4-Trichlorobenzene	19.19	180	447102	59.2740	ug/L	97
99) Hexachlorobutadiene	19.34	225	172272	57.5279	ug/L	94
100) Naphthalene	19.53	128	745219	44.6043	ug/L	100
101) 1,2,3-Trichlorobenzene	19.82	180	393118	55.7693	ug/L	98

(#) = qualifier out of range (m) = manual integration
 11M85443.D 8260WTR.M Fri Jul 20 16:50:05 2012

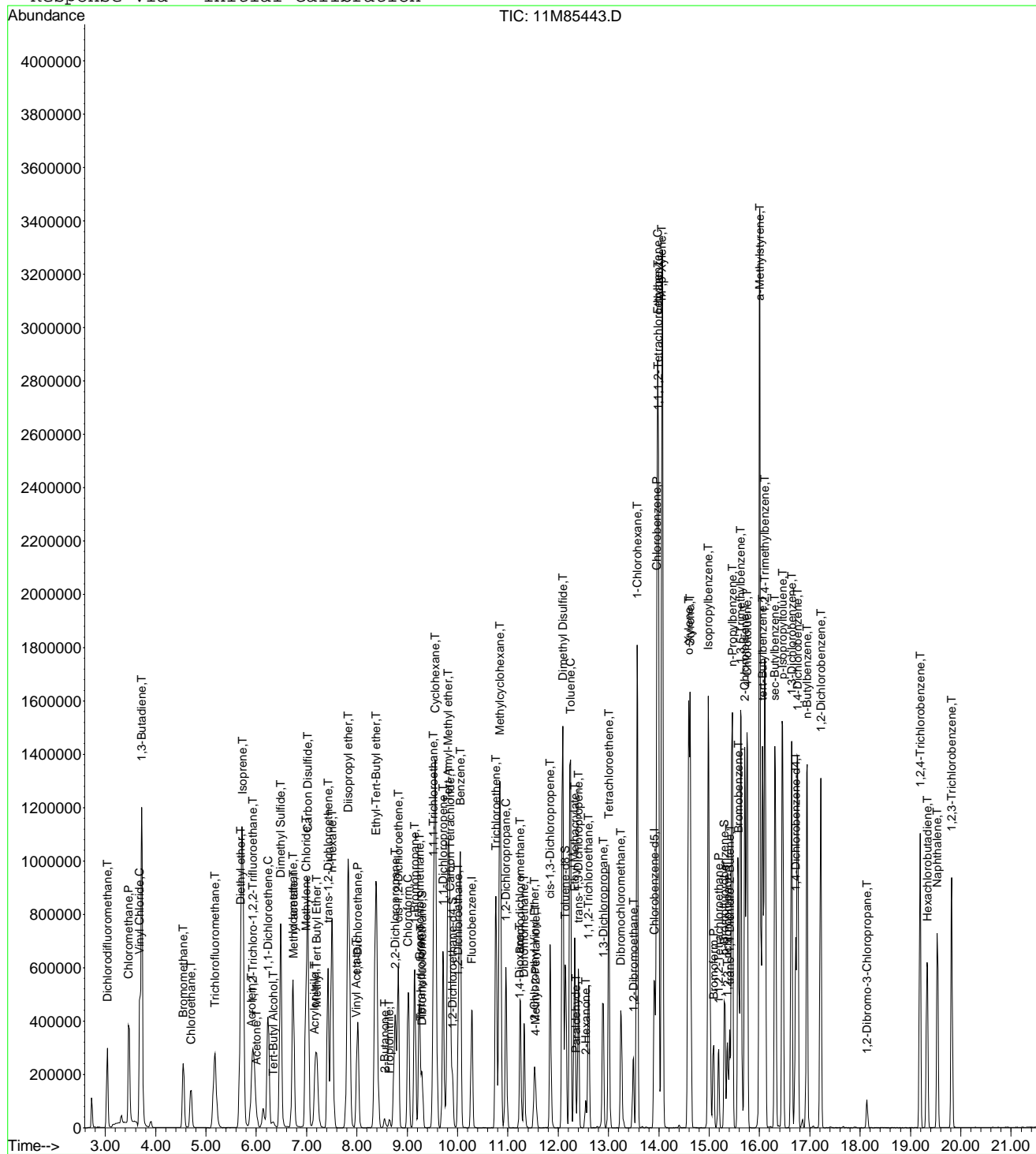
Page 2

Data File : C:\MSDCHEM\1\data\072012\11M85443.D
Acq On : 20 Jul 2012 16:28
Sample : WG404019-02 50ug/L CCV 8260
Misc : 1,1 STD52793
MS Integration Params: rteint.p
Quant Time: Jul 20 16:50 2012

Vial: 3
Operator: FJB
Inst : hpms11
Multiplr: 1.00

Quant Results File: 8260WTR.RES

Method : C:\MSDCHEM\1\METHODS\8260WTR.M (RTE Integrator)
Title : 8260B/624 (SOP: OVL MSV01) Water 05/03/12 HPMS11
Last Update : Fri Jul 13 11:24:02 2012
Response via : Initial Calibration



Continuing Calibration Area and RT check

Instrument: hpms11
Initial cal date: 3 May 2012 20:05
CCV date: 20 Jul 2012 16:28
CCV Filename: 11M85443.D

	Fluorobenzene		Chlorobenzene-d5		1,4-Dichlorobenzene-d4	
	<u>Amount</u>	<u>RT</u>	<u>Amount</u>	<u>RT</u>	<u>Amount</u>	<u>RT</u>
InitCal	480987	10.31	384086	13.94	223120	16.74
CCV	572472	10.28	431328	13.92	241390	16.72

Data File : C:\MSDCHEM\1\DATA\072012\11M85443.D Vial: 3
 Acq On : 20 Jul 2012 16:28 Operator: FJB
 Sample : WG404019-02 50ug/L CCV 8260 Inst : hpms11
 Misc : 1,1 STD52793 Multiplr: 1.00
 MS Integration Params: rteint.p

Method : C:\MSDCHEM\1\METHODS\8260WTR.M (RTE Integrator)
 Title : 8260B/624 (SOP: OVL MSV01) Water 05/03/12 HPMS11
 Last Update : Fri Jul 13 11:24:02 2012
 Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
 Max. RRF Dev : 25% Max. Rel. Area : 150%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1 I	Fluorobenzene	1.0000	1.0000	0.0	119	-0.01
2 T	Dichlorodifluoromethane	0.3226	0.2957	8.3	106	0.00
3 P	Chloromethane	0.5540	0.4649	16.1	95	0.00
4 C	Vinyl Chloride	0.5604	0.4638	17.2	110	0.00
5 T	1,3-Butadiene	0.3828	0.7114	-85.9#	303#	0.01
6 T	Bromomethane	0.1777	0.2052	-15.5	137	0.00
7 T	Chloroethane	0.1909	0.1782	6.7	108	0.00
8 T	Trichlorofluoromethane	0.5390	0.4736	12.1	102	0.00
9 T	Diethyl ether	0.1903	0.1683	11.6	106	0.00
10 T	Isoprene	0.4194	0.8033	-91.5#	218#	0.00
11 T	Acrolein	0.0132	0.0138	-4.6	124	-0.01
12 T	1,1,2-Trichloro-1,2,2-Trifl	0.2795	0.2779	0.6	113	0.00
13 T	Acetone	0.0541	0.0389	28.2#	96	-0.01
14 C	1,1-Dichloroethene	0.3795	0.3962	-4.4	120	0.00
15 T	Tert-Butyl Alcohol	0.0126	0.0113	10.2	103	-0.02
16 T	Dimethyl Sulfide	0.3108	0.5709	-83.7#	217#	0.00
17 T	Iodomethane	0.3544	0.6824	-92.5#	195#	0.01
18 T	Methyl acetate	0.1615	0.2143	-32.7#	164#	0.00
19 T	Methylene Chloride	0.2697	0.2773	-2.8	124	0.00
20 T	Carbon Disulfide	0.7736	1.5066	-94.7#	229#	0.00
21 T	Acrylonitrile	0.0551	0.0523	5.0	104	0.00
22 T	Methyl Tert Butyl Ether	0.6301	0.5620	10.8	106	0.00
23 T	trans-1,2-Dichloroethene	0.2709	0.2938	-8.4	125	0.00
24 T	n-Hexane	0.2737	0.6121	-123.6#	258#	0.00
25 T	Diisopropyl ether	0.7936	0.7366	7.2	112	0.00
26 T	Vinyl Acetate	0.1472	0.1161	21.1	85	0.00
27 P	1,1-Dichloroethane	0.4540	0.4760	-4.8	122	0.00
28 T	Ethyl-Tert-Butyl ether	0.7749	0.6967	10.1	109	0.00
29 T	2-Butanone	0.0643	0.0522	18.8	96	0.00
30 T	Propionitrile	0.0190	0.0163	14.2	100	0.00
31 T	2,2-Dichloropropane	0.3670	0.4315	-17.6	135	0.00
32 T	cis-1,2-Dichloroethene	0.2936	0.3146	-7.1	124	0.00
33 C	Chloroform	0.4800	0.4839	-0.8	120	0.00
34 T	1-Bromopropane	0.0549	0.1085	-97.6#	220#	0.00
35 T	Bromochloromethane	0.1865	0.1860	0.3	114	0.00
36 T	Tetrahydrofuran	0.0418	0.0322	22.8	93	0.00
37 S	Dibromofluoromethane	0.3046	0.2759	9.4	109	0.00
38 T	1,1,1-Trichloroethane	0.4503	0.4692	-4.2	120	0.00
39 T	Cyclohexane	0.3628	0.7867	-116.8#	250#	0.00
40 T	1,1-Dichloropropene	0.3581	0.3841	-7.3	123	0.00
41 T	Carbon Tetrachloride	0.3990	0.4546	-13.9	119	0.00
42 T	Tert-Amyl-Methyl ether	0.7084	0.6094	14.0	103	0.00
43 S	1,2-Dichloroethane-d4	0.2915	0.2335	19.9	97	0.00
44 T	Heptane	0.0000	0.0000	0.0	109	0.00
45 T	1,2-Dichloroethane	0.3375	0.3066	9.1	106	0.00
46 T	Benzene	1.0461	1.0898	-4.2	123	0.00
47 T	Trichloroethene	0.3430	0.3452	-0.6	124	0.00
48 T	Methylcyclohexane	0.3591	0.7788	-116.9#	245#	0.00
49 C	1,2-Dichloropropane	0.2408	0.2589	-7.5	126	0.00
50 T	1,4-Dioxane	0.0017	0.0013	21.6	87	-0.01
51 T	Bromodichloromethane	0.3296	0.3508	-6.4	117	-0.01
52 T	Dibromomethane	0.1422	0.1423	-0.1	107	0.00
53 T	2-Chloroethyl Vinyl Ether	0.1027	0.0913	11.2	98	0.00
54 T	4-Methyl-2-Pentanone	0.0563	0.0471	16.2	95	-0.01

(#) = Out of Range

11M85443.D 8260WTR.M Fri Jul 20 16:53:55 2012

Page 1

Data File : C:\MSDCHEM\1\DATA\072012\11M85443.D Vial: 3
 Acq On : 20 Jul 2012 16:28 Operator: FJB
 Sample : WG404019-02 50ug/L CCV 8260 Inst : hpms11
 Misc : 1,1 STD52793 Multiplr: 1.00
 MS Integration Params: rteint.p

Method : C:\MSDCHEM\1\METHODS\8260WTR.M (RTE Integrator)
 Title : 8260B/624 (SOP: OVL MSV01) Water 05/03/12 HPMS11
 Last Update : Fri Jul 13 11:24:02 2012
 Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
 Max. RRF Dev : 25% Max. Rel. Area : 150%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
55 T	cis-1,3-Dichloropropene	0.3797	0.4154	-9.4	122	-0.01
56 T	Dimethyl Disulfide	0.1831	0.4886	-166.9#	252#	0.00
57 I	Chlorobenzene-d5	1.0000	1.0000	0.0	112	0.00
58 S	Toluene-d8	1.3187	1.3338	-1.1	119	-0.01
59 C	Toluene	1.5037	1.6188	-7.7	120	0.00
60 T	Ethyl Methacrylate	0.2735	0.5660	-106.9#	210#	0.00
61 T	Paraldehyde	0.0030	0.0034	-13.2	104	0.00
62 T	trans-1,3-Dichloropropene	0.4032	0.4536	-12.5	110	-0.01
63 T	1,1,2-Trichloroethane	0.2484	0.2473	0.4	110	0.00
64 T	2-Hexanone	0.1256	0.0965	23.1	86	-0.01
65 T	1,3-Dichloropropane	0.4172	0.4165	0.2	110	0.00
66 T	Tetrachloroethene	0.3081	0.3490	-13.3	123	0.00
67 T	Dibromochloromethane	0.3098	0.3595	-16.0	113	-0.01
68 T	1,2-Dibromoethane	0.2572	0.2551	0.8	108	0.00
69 T	1-Chlorohexane	0.4311	1.0266	-138.1#	252#	-0.01
70 P	Chlorobenzene	1.0009	1.1482	-14.7	120	0.00
71 T	1,1,1,2-Tetrachloroethane	0.3660	0.4355	-19.0	117	0.00
72 C	Ethylbenzene	0.5432	0.6111	-12.5	115	-0.01
73 T	m-,p-Xylene	0.6707	0.7483	-11.6	114	0.00
74 T	o-Xylene	0.6534	0.6871	-5.2	115	-0.01
75 T	Styrene	1.0396	1.1536	-11.0	112	-0.01
76 P	Bromoform	0.1568	0.2176	-38.7#	113	0.00
77 T	Isopropylbenzene	1.5382	1.7304	-12.5	114	-0.01
78 I	1,4-Dichlorobenzene-d4	1.0000	1.0000	0.0	108	0.00
79 P	1,1,2,2-Tetrachloroethane	0.4450	0.4011	9.9	92	0.00
80 S	p-Bromofluorobenzene	0.8263	0.8376	-1.4	115	-0.01
81 T	1,2,3-Trichloropropane	0.1347	0.1404	-4.2	111	0.00
82 T	trans-1,4-Dichloro-2-Butene	0.1051	0.1812	-72.5#	164#	0.00
83 T	n-Propylbenzene	3.2528	3.5095	-7.9	115	0.00
84 T	Bromobenzene	0.7771	0.8469	-9.0	119	0.00
85 T	1,3,5-Trimethylbenzene	2.4157	2.5339	-4.9	112	-0.01
86 T	2-Chlorotoluene	2.1876	2.1835	0.2	108	0.02
87 T	4-Chlorotoluene	1.9145	2.2352	-16.8	125	-0.01
88 T	a-Methylstyrene	1.3453	3.0046	-123.3#	224#	0.00
89 T	tert-Butylbenzene	0.5257	0.5606	-6.6	113	-0.01
90 T	1,2,4-Trimethylbenzene	2.5133	2.6416	-5.1	108	0.00
91 T	sec-Butylbenzene	2.8206	2.9614	-5.0	109	-0.01
92 T	p-Isopropyltoluene	2.4202	2.6605	-9.9	113	0.00
93 T	1,3-Dichlorobenzene	1.5241	1.6267	-6.7	114	-0.01
94 T	1,4-Dichlorobenzene	1.5514	1.6286	-5.0	113	0.00
95 T	n-Butylbenzene	1.8436	2.2193	-20.4	115	0.00
96 T	1,2-Dichlorobenzene	1.3814	1.4781	-7.0	113	-0.01
97 T	1,2-Dibromo-3-Chloropropane	0.0695	0.0620	10.8	91	-0.01
98 T	1,2,4-Trichlorobenzene	0.7812	0.9261	-18.5	115	-0.01
99 T	Hexachlorobutadiene	0.2707	0.3568	-31.8#	133	0.00
100 T	Naphthalene	1.5237	1.5436	-1.3	97	-0.01
101 T	1,2,3-Trichlorobenzene	0.7300	0.8143	-11.5	116	-0.01

(#) = Out of Range SPCC's out = 0 CCC's out = 0
 11M85443.D 8260WTR.M Fri Jul 20 16:53:55 2012

Page 2

Data File : C:\MSDCHEM\1\DATA\072012\11M85443.D Vial: 3
 Acq On : 20 Jul 2012 16:28 Operator: FJB
 Sample : WG404019-02 50ug/L CCV 8260 Inst : hpms11
 Misc : 1,1 STD52793 Multiplr: 1.00
 MS Integration Params: rteint.p

Method : C:\MSDCHEM\1\METHODS\8260WTR.M (RTE Integrator)
 Title : 8260B/624 (SOP: OVL MSV01) Water 05/03/12 HPMS11
 Last Update : Fri Jul 13 11:24:02 2012
 Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
 Max. RRF Dev : 25% Max. Rel. Area : 150%

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1 I	Fluorobenzene	25.0000	25.0000	0.0	119	-0.01
2 T	Dichlorodifluoromethane	50.0000	45.8282	8.3	106	0.00
3 P	Chloromethane	50.0000	41.9556	16.1	95	0.00
4 C	Vinyl Chloride	50.0000	40.9613	18.1	110	0.00
5 T	1,3-Butadiene	50.0000	92.9300	-85.9#	303	0.01
6 T	Bromomethane	50.0000	57.7463	-15.5	137	0.00
7 T	Chloroethane	50.0000	46.6584	6.7	108	0.00
8 T	Trichlorofluoromethane	50.0000	43.9290	12.1	102	0.00
9 T	Diethyl ether	100.0000	88.4312	11.6	106	0.00
10 T	Isoprene	50.0000	95.7635	-91.5#	218	0.00
11 T	Acrolein	100.0000	104.6620	-4.7	124	-0.01
12 T	1,1,2-Trichloro-1,2,2-Trifl	50.0000	49.7189	0.6	113	0.00
13 T	Acetone	50.0000	41.9028	16.2	96	-0.01
14 C	1,1-Dichloroethene	50.0000	52.2043	-4.4	120	0.00
15 T	Tert-Butyl Alcohol	200.0000	179.7663	10.1	103	-0.02
16 T	Dimethyl Sulfide	50.0000	91.8437	-83.7#	217	0.00
17 T	Iodomethane	50.0000	88.1077	-76.2#	195	0.01
18 T	Methyl acetate	50.0000	66.3641	-32.7#	164	0.00
19 T	Methylene Chloride	50.0000	51.4151	-2.8	124	0.00
20 T	Carbon Disulfide	50.0000	97.3685	-94.7#	229	0.00
21 T	Acrylonitrile	50.0000	47.5077	5.0	104	0.00
22 T	Methyl Tert Butyl Ether	50.0000	44.5944	10.8	106	0.00
23 T	trans-1,2-Dichloroethene	50.0000	54.2195	-8.4	125	0.00
24 T	n-Hexane	50.0000	111.8028	-123.6#	258	0.00
25 T	Diisopropyl ether	100.0000	92.8270	7.2	112	0.00
26 T	Vinyl Acetate	50.0000	37.1275	25.7#	85	0.00
27 P	1,1-Dichloroethane	50.0000	52.4166	-4.8	122	0.00
28 T	Ethyl-Tert-Butyl ether	100.0000	89.9106	10.1	109	0.00
29 T	2-Butanone	50.0000	40.5778	18.8	96	0.00
30 T	Propionitrile	100.0000	85.8091	14.2	100	0.00
31 T	2,2-Dichloropropane	50.0000	58.7957	-17.6	135	0.00
32 T	cis-1,2-Dichloroethene	50.0000	53.5724	-7.1	124	0.00
33 C	Chloroform	50.0000	50.4046	-0.8	120	0.00
34 T	1-Bromopropane	50.0000	98.7973	-97.6#	220	0.00
35 T	Bromochloromethane	50.0000	49.8685	0.3	114	0.00
36 T	Tetrahydrofuran	100.0000	77.2147	22.8	93	0.00
37 S	Dibromofluoromethane	25.0000	22.6448	9.4	109	0.00
38 T	1,1,1-Trichloroethane	50.0000	52.0933	-4.2	120	0.00
39 T	Cyclohexane	50.0000	108.4224	-116.8#	250	0.00
40 T	1,1-Dichloropropene	50.0000	53.6279	-7.3	123	0.00
41 T	Carbon Tetrachloride	50.0000	47.4725	5.1	119	0.00
42 T	Tert-Amyl-Methyl ether	100.0000	86.0151	14.0	103	0.00
43 S	1,2-Dichloroethane-d4	25.0000	20.0221	19.9	97	0.00
44 T	Heptane	-1.0000	0.0000	0.0	109	0.00
45 T	1,2-Dichloroethane	50.0000	45.4298	9.1	106	0.00
46 T	Benzene	50.0000	52.0881	-4.2	123	0.00
47 T	Trichloroethene	50.0000	50.3210	-0.6	124	0.00
48 T	Methylcyclohexane	50.0000	108.4434	-116.9#	245	0.00
49 C	1,2-Dichloropropane	50.0000	53.7571	-7.5	126	0.00
50 T	1,4-Dioxane	200.0000	156.0910	22.0	87	-0.01
51 T	Bromodichloromethane	50.0000	53.2157	-6.4	117	-0.01
52 T	Dibromomethane	50.0000	44.1874	11.6	107	0.00
53 T	2-Chloroethyl Vinyl Ether	50.0000	44.4202	11.2	98	0.00
54 T	4-Methyl-2-Pentanone	50.0000	41.8881	16.2	95	-0.01

(#) = Out of Range

11M85443.D 8260WTR.M Fri Jul 20 16:53:57 2012

Page 1

Data File : C:\MSDCHEM\1\DATA\072012\11M85443.D Vial: 3
 Acq On : 20 Jul 2012 16:28 Operator: FJB
 Sample : WG404019-02 50ug/L CCV 8260 Inst : hpms11
 Misc : 1,1 STD52793 Multiplr: 1.00
 MS Integration Params: rteint.p

Method : C:\MSDCHEM\1\METHODS\8260WTR.M (RTE Integrator)
 Title : 8260B/624 (SOP: OVL MSV01) Water 05/03/12 HPMS11
 Last Update : Fri Jul 13 11:24:02 2012
 Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
 Max. RRF Dev : 25% Max. Rel. Area : 150%

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
55 T	cis-1,3-Dichloropropene	50.0000	54.6946	-9.4	122	-0.01
56 T	Dimethyl Disulfide	50.0000	98.4895	-97.0#	252	0.00
57 I	Chlorobenzene-d5	25.0000	25.0000	0.0	112	0.00
58 S	Toluene-d8	25.0000	25.2866	-1.1	119	-0.01
59 C	Toluene	50.0000	53.8278	-7.7	120	0.00
60 T	Ethyl Methacrylate	50.0000	88.6903	-77.4#	210	0.00
61 T	Paraldehyde	100.0000	96.8772	3.1	104	0.00
62 T	trans-1,3-Dichloropropene	50.0000	56.2599	-12.5	110	-0.01
63 T	1,1,2-Trichloroethane	50.0000	49.7932	0.4	110	0.00
64 T	2-Hexanone	50.0000	38.4334	23.1	86	-0.01
65 T	1,3-Dichloropropane	50.0000	49.9193	0.2	110	0.00
66 T	Tetrachloroethene	50.0000	56.6353	-13.3	123	0.00
67 T	Dibromochloromethane	50.0000	50.8506	-1.7	113	-0.01
68 T	1,2-Dibromoethane	50.0000	49.6001	0.8	108	0.00
69 T	1-Chlorohexane	50.0000	119.0688	-138.1#	252	-0.01
70 P	Chlorobenzene	50.0000	57.3574	-14.7	120	0.00
71 T	1,1,1,2-Tetrachloroethane	50.0000	52.4470	-4.9	117	0.00
72 C	Ethylbenzene	50.0000	56.2529	-12.5	115	-0.01
73 T	m-,p-Xylene	100.0000	111.5585	-11.6	114	0.00
74 T	o-Xylene	50.0000	52.5814	-5.2	115	-0.01
75 T	Styrene	50.0000	55.4805	-11.0	112	-0.01
76 P	Bromoform	50.0000	52.3828	-4.8	113	0.00
77 T	Isopropylbenzene	50.0000	56.2462	-12.5	114	-0.01
78 I	1,4-Dichlorobenzene-d4	25.0000	25.0000	0.0	108	0.00
79 P	1,1,2,2-Tetrachloroethane	50.0000	45.0652	9.9	92	0.00
80 S	p-Bromofluorobenzene	25.0000	25.3395	-1.4	115	-0.01
81 T	1,2,3-Trichloropropane	50.0000	52.1076	-4.2	111	0.00
82 T	trans-1,4-Dichloro-2-Butene	50.0000	70.1958	-40.4#	164	0.00
83 T	n-Propylbenzene	50.0000	53.9447	-7.9	115	0.00
84 T	Bromobenzene	50.0000	54.4934	-9.0	119	0.00
85 T	1,3,5-Trimethylbenzene	50.0000	52.4466	-4.9	112	-0.01
86 T	2-Chlorotoluene	50.0000	49.9062	0.2	108	0.02
87 T	4-Chlorotoluene	50.0000	58.3760	-16.8	125	-0.01
88 T	a-Methylstyrene	50.0000	111.6682	-123.3#	224	0.00
89 T	tert-Butylbenzene	50.0000	53.3135	-6.6	113	-0.01
90 T	1,2,4-Trimethylbenzene	50.0000	52.5527	-5.1	108	0.00
91 T	sec-Butylbenzene	50.0000	52.4960	-5.0	109	-0.01
92 T	p-Isopropyltoluene	50.0000	54.9640	-9.9	113	0.00
93 T	1,3-Dichlorobenzene	50.0000	53.3650	-6.7	114	-0.01
94 T	1,4-Dichlorobenzene	50.0000	52.4879	-5.0	113	0.00
95 T	n-Butylbenzene	50.0000	60.1911	-20.4	115	0.00
96 T	1,2-Dichlorobenzene	50.0000	53.5001	-7.0	113	-0.01
97 T	1,2-Dibromo-3-Chloropropane	50.0000	38.9618	22.1	91	-0.01
98 T	1,2,4-Trichlorobenzene	50.0000	59.2740	-18.5	115	-0.01
99 T	Hexachlorobutadiene	50.0000	57.5279	-15.1	133	0.00
100 T	Naphthalene	50.0000	44.6043	10.8	97	-0.01
101 T	1,2,3-Trichlorobenzene	50.0000	55.7693	-11.5	116	-0.01

(#) = Out of Range SPCC's out = 0 CCC's out = 0
 11M85443.D 8260WTR.M Fri Jul 20 16:53:57 2012

Page 2

Data File : C:\MSDCHEM\1\data\072312\11M85500.D Vial: 2
 Acq On : 23 Jul 2012 12:50 Operator: FJB
 Sample : WG404129-02 50ug/L CCV 8260 Inst : hpms11
 Misc : 1,1 STD52670 Multiplr: 1.00
 MS Integration Params: rteint.p
 Quant Time: Jul 23 13:11:59 2012 Quant Results File: 8260WTR.RES

Quant Method : C:\MSDCHEM\1\METHODS\8260WTR.M (RTE Integrator)
 Title : 8260B/624 (SOP: OVL MSV01) Water 05/03/12 HPMS11
 Last Update : Fri Jul 13 11:24:02 2012
 Response via : Initial Calibration
 DataAcq Meth : 8260WTR

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene	10.28	96	682233	25.00	ug/L	-0.01
57) Chlorobenzene-d5	13.91	117	524654	25.00	ug/L	-0.01
78) 1,4-Dichlorobenzene-d4	16.72	152	340283	25.00	ug/L	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
37) Dibromofluoromethane	9.30	111	187787	22.5883	ug/L	0.00
Spiked Amount	25.000	Range 86 - 118	Recovery	=	90.36%	
43) 1,2-Dichloroethane-d4	9.90	65	156653	19.6921	ug/L	0.00
Spiked Amount	25.000	Range 80 - 120	Recovery	=	78.76%#	
58) Toluene-d8	12.14	98	670151	24.2157	ug/L	-0.01
Spiked Amount	25.000	Range 88 - 110	Recovery	=	96.88%	
80) p-Bromofluorobenzene	15.30	95	237621	21.1264	ug/L	-0.01
Spiked Amount	25.000	Range 86 - 115	Recovery	=	84.52%#	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	3.03	85	406417	46.1656	ug/L	98
3) Chloromethane	3.46	50	640772	42.3815	ug/L	99
4) Vinyl Chloride	3.68	62	658404	42.9756	ug/L	97
5) 1,3-Butadiene	3.72	54	618914	59.2531	ug/L	99
6) Bromomethane	4.54	94	266317	54.9291	ug/L	99
7) Chloroethane	4.69	64	246577	47.3278	ug/L	99
8) Trichlorofluoromethane	5.17	101	636429	43.2648	ug/L	99
9) Diethyl ether	5.69	59	441592	85.0429	ug/L	97
10) Isoprene	5.72	67	547154	47.8073	ug/L	99
11) Acrolein	5.90	56	41485	115.0267	ug/L	98
12) 1,1,2-Trichloro-1,2,2-Trif	5.94	101	370984	48.6382	ug/L	99
13) Acetone	6.01	43	75500	60.0314	ug/L	88
14) 1,1-Dichloroethene	6.22	61	563223	54.3855	ug/L	100
15) Tert-Butyl Alcohol	6.33	59	53143	154.4722	ug/L	97
16) Dimethyl Sulfide	6.48	62	496236	58.5053	ug/L	98
17) Iodomethane	6.72	142	406774	38.6868	ug/L	96
18) Methyl acetate	6.74	43	181429	41.1732	ug/L	99
19) Methylene Chloride	6.98	84	366923	49.8513	ug/L	98
20) Carbon Disulfide	7.02	76	980779	46.4550	ug/L	99
21) Acrylonitrile	7.16	53	71457	47.5352	ug/L	99
22) Methyl Tert Butyl Ether	7.20	73	710977	41.3447	ug/L	98
23) trans-1,2-Dichloroethene	7.42	96	394236	53.3193	ug/L	98
24) n-Hexane	7.50	57	431387	57.7482	ug/L	96
25) Diisopropyl ether	7.83	45	2077164	95.9172	ug/L	95
26) Vinyl Acetate	7.98	43	155971	36.5938	ug/L	97
27) 1,1-Dichloroethane	8.01	63	659735	53.2459	ug/L	99
28) Ethyl-Tert-Butyl ether	8.38	59	1827160	86.4084	ug/L	97
29) 2-Butanone	8.55	43	79085	45.0466	ug/L	97
30) Propionitrile	8.64	54	43587	84.1265	ug/L	99
31) 2,2-Dichloropropane	8.76	77	370361	36.9818	ug/L	99
32) cis-1,2-Dichloroethene	8.82	96	421065	52.5515	ug/L	97
33) Chloroform	9.02	83	659506	50.3465	ug/L	96
34) 1-Bromopropane	9.15	122	72458	48.3564	ug/L	100
35) Bromochloromethane	9.23	130	234791	46.1266	ug/L	97
36) Tetrahydrofuran	9.26	42	85952	75.4321	ug/L	98
38) 1,1,1-Trichloroethane	9.52	97	616954	50.2051	ug/L	98
39) Cyclohexane	9.55	56	554152	55.9711	ug/L	93
40) 1,1-Dichloropropene	9.71	75	525535	53.7821	ug/L	99
41) Carbon Tetrachloride	9.84	117	595554	45.5926	ug/L	99
42) Tert-Amyl-Methyl ether	9.81	73	1529207	79.0985	ug/L	99

(#) = qualifier out of range (m) = manual integration
 11M85500.D 8260WTR.M Mon Jul 23 13:12:00 2012

Data File : C:\MSDCHEM\1\data\072312\11M85500.D Vial: 2
 Acq On : 23 Jul 2012 12:50 Operator: FJB
 Sample : WG404129-02 50ug/L CCV 8260 Inst : hpms11
 Misc : 1,1 STD52670 Multiplr: 1.00
 MS Integration Params: rteint.p
 Quant Time: Jul 23 13:11:59 2012 Quant Results File: 8260WTR.RES

Quant Method : C:\MSDCHEM\1\METHODS\8260WTR.M (RTE Integrator)
 Title : 8260B/624 (SOP: OVL MSV01) Water 05/03/12 HPMS11
 Last Update : Fri Jul 13 11:24:02 2012
 Response via : Initial Calibration
 DataAcq Meth : 8260WTR

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
45) 1,2-Dichloroethane	10.01	62	409956	44.5140	ug/L	99
46) Benzene	10.05	78	1495876	52.3986	ug/L	100
47) Trichloroethene	10.76	130	441012	47.1167	ug/L	99
48) Methylcyclohexane	10.84	83	527578	53.8390	ug/L	97
49) 1,2-Dichloropropane	10.96	63	346430	52.7134	ug/L	95
50) 1,4-Dioxane	11.23	88	9886	211.5771	ug/L	90
51) Bromodichloromethane	11.24	83	459252	51.0539	ug/L	98
52) Dibromomethane	11.32	93	179812	40.9320	ug/L	96
53) 2-Chloroethyl Vinyl Ether	11.52	63	97675	34.8416	ug/L	96
54) 4-Methyl-2-Pentanone	11.55	58	76328	49.7127	ug/L	96
55) cis-1,3-Dichloropropene	11.84	75	505375	48.7731	ug/L	100
56) Dimethyl Disulfide	12.09	79	150281	26.4371	ug/L	93
59) Toluene	12.23	91	1651158	52.3233	ug/L	99
60) Ethyl Methacrylate	12.32	69	271718	40.8946	ug/L	95
61) Paraldehyde	12.36	89	405	26.8409	ug/L #	1
62) trans-1,3-Dichloropropene	12.40	75	355787	42.0514	ug/L	98
63) 1,1,2-Trichloroethane	12.60	97	237425	45.5497	ug/L	99
64) 2-Hexanone	12.54	43	119340	45.2782	ug/L	98
65) 1,3-Dichloropropane	12.88	76	412586	47.1223	ug/L	92
66) Tetrachloroethene	13.01	164	350512	54.2134	ug/L	99
67) Dibromochloromethane	13.25	129	338154	45.8345	ug/L	98
68) 1,2-Dibromoethane	13.48	107	236818	43.8731	ug/L	99
69) 1-Chlorohexane	13.57	91	505763	55.9027	ug/L	99
70) Chlorobenzene	13.96	112	1163448	55.3868	ug/L	100
71) 1,1,1,2-Tetrachloroethane	13.99	131	425401	49.2909	ug/L	100
72) Ethylbenzene	13.98	106	622058	54.5709	ug/L	98
73) m-,p-Xylene	14.06	106	1509388	107.2300	ug/L	98
74) o-Xylene	14.59	106	685172	49.9685	ug/L	98
75) Styrene	14.62	104	1123765	51.5071	ug/L	98
76) Bromoform	15.09	173	186803	43.8537	ug/L	99
77) Isopropylbenzene	14.98	105	1714735	53.1174	ug/L	100
79) 1,1,2,2-Tetrachloroethane	15.18	83	244600	40.3806	ug/L	99
81) 1,2,3-Trichloropropane	15.36	110	72261	39.4137	ug/L	87
82) trans-1,4-Dichloro-2-Butene	15.41	53	21317	13.4232	ug/L #	1
83) n-Propylbenzene	15.46	91	1954818	44.1513	ug/L	100
84) Bromobenzene	15.57	156	461978	43.6759	ug/L	96
85) 1,3,5-Trimethylbenzene	15.62	105	1411104	42.9159	ug/L	100
86) 2-Chlorotoluene	15.71	91	1257009	42.2149	ug/L	98
87) 4-Chlorotoluene	15.75	91	1218158	46.7473	ug/L	99
88) a-Methylstyrene	16.01	118	782143	42.7123	ug/L	99
89) tert-Butylbenzene	16.06	134	301647	42.1534	ug/L	99
90) 1,2,4-Trimethylbenzene	16.11	105	1464068	42.7974	ug/L	98
91) sec-Butylbenzene	16.31	105	1852673	48.2566	ug/L	98
92) p-Isopropyltoluene	16.45	119	1616419	49.0684	ug/L	99
93) 1,3-Dichlorobenzene	16.64	146	1010853	48.7268	ug/L	100
94) 1,4-Dichlorobenzene	16.75	146	993540	47.0511	ug/L	100
95) n-Butylbenzene	16.94	91	1339595	53.3845	ug/L	100
96) 1,2-Dichlorobenzene	17.22	146	858827	45.6775	ug/L	98
97) 1,2-Dibromo-3-Chloropropane	18.13	75	40715	37.5899	ug/L	99
98) 1,2,4-Trichlorobenzene	19.19	180	571141	53.7130	ug/L	97
99) Hexachlorobutadiene	19.32	225	218878	51.8737	ug/L	93
100) Naphthalene	19.53	128	988086	42.0492	ug/L	100
101) 1,2,3-Trichlorobenzene	19.82	180	476656	47.9685	ug/L	97

(#) = qualifier out of range (m) = manual integration
 11M85500.D 8260WTR.M Mon Jul 23 13:12:00 2012

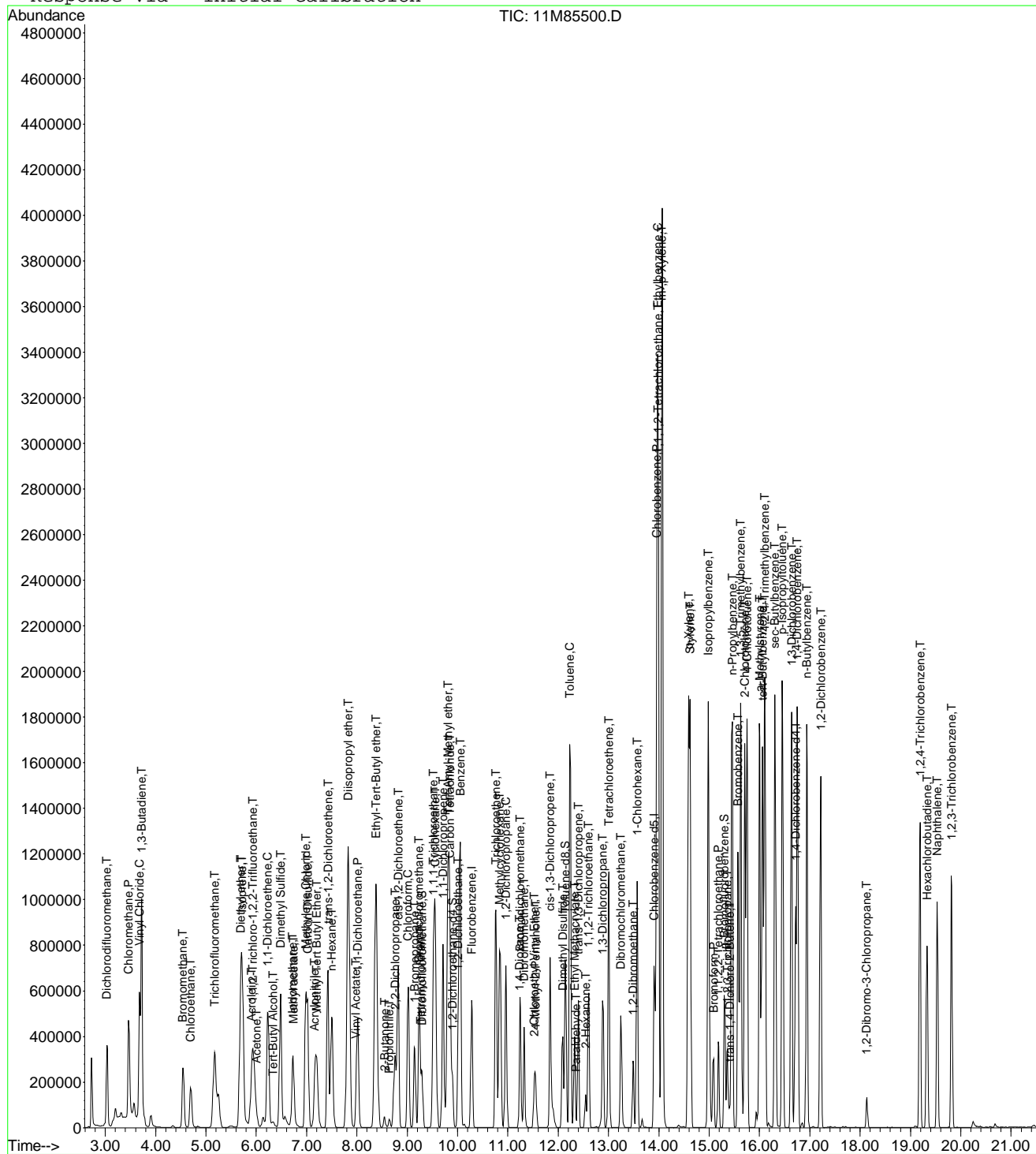
Page 2

Data File : C:\MSDCHEM\1\data\072312\11M85500.D
Acq On : 23 Jul 2012 12:50
Sample : WG404129-02 50ug/L CCV 8260
Misc : 1,1 STD52670
MS Integration Params: rteint.p
Quant Time: Jul 23 13:11 2012

Vial: 2
Operator: FJB
Inst : hpms11
Multiplr: 1.00

Quant Results File: 8260WTR.RES

Method : C:\MSDCHEM\1\METHODS\8260WTR.M (RTE Integrator)
Title : 8260B/624 (SOP: OVL MSV01) Water 05/03/12 HPMS11
Last Update : Fri Jul 13 11:24:02 2012
Response via : Initial Calibration



Continuing Calibration Area and RT check

Instrument: hpms11
Initial cal date: 3 May 2012 20:05
CCV date: 23 Jul 2012 12:50
CCV Filename: 11M85500.D

	Fluorobenzene		Chlorobenzene-d5		1,4-Dichlorobenzene-d4	
	<u>Amount</u>	<u>RT</u>	<u>Amount</u>	<u>RT</u>	<u>Amount</u>	<u>RT</u>
InitCal	480987	10.31	384086	13.94	223120	16.74
CCV	682233	10.28	524654	13.91	340283	16.72

Data File : C:\MSDCHEM\1\DATA\072312\11M85500.D Vial: 2
 Acq On : 23 Jul 2012 12:50 Operator: FJB
 Sample : WG404129-02 50ug/L CCV 8260 Inst : hpms11
 Misc : 1,1 STD52670 Multiplr: 1.00
 MS Integration Params: rteint.p

Method : C:\MSDCHEM\1\METHODS\8260WTR.M (RTE Integrator)
 Title : 8260B/624 (SOP: OVL MSV01) Water 05/03/12 HPMS11
 Last Update : Fri Jul 13 11:24:02 2012
 Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
 Max. RRF Dev : 25% Max. Rel. Area : 150%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1 I	Fluorobenzene	1.0000	1.0000	0.0	142	-0.01
2 T	Dichlorodifluoromethane	0.3226	0.2979	7.7	127	0.00
3 P	Chloromethane	0.5540	0.4696	15.2	114	0.00
4 C	Vinyl Chloride	0.5604	0.4825	13.9	137	0.00
5 T	1,3-Butadiene	0.3828	0.4536	-18.5	230#	0.01
6 T	Bromomethane	0.1777	0.1952	-9.9	156#	0.00
7 T	Chloroethane	0.1909	0.1807	5.3	131	0.00
8 T	Trichlorofluoromethane	0.5390	0.4664	13.5	120	0.00
9 T	Diethyl ether	0.1903	0.1618	15.0	121	0.00
10 T	Isoprene	0.4194	0.4010	4.4	129	0.00
11 T	Acrolein	0.0132	0.0152	-15.0	163#	-0.01
12 T	1,1,2-Trichloro-1,2,2-Trifl	0.2795	0.2719	2.7	132	0.00
13 T	Acetone	0.0541	0.0553	-2.2	163#	-0.01
14 C	1,1-Dichloroethene	0.3795	0.4128	-8.8	150	0.00
15 T	Tert-Butyl Alcohol	0.0126	0.0097	22.8	105	-0.03
16 T	Dimethyl Sulfide	0.3108	0.3637	-17.0	164#	0.00
17 T	Iodomethane	0.3544	0.2981	15.9	101	0.00
18 T	Methyl acetate	0.1615	0.1330	17.7	121	0.00
19 T	Methylene Chloride	0.2697	0.2689	0.3	143	0.00
20 T	Carbon Disulfide	0.7736	0.7188	7.1	130	0.00
21 T	Acrylonitrile	0.0551	0.0524	4.9	124	0.00
22 T	Methyl Tert Butyl Ether	0.6301	0.5211	17.3	117	0.00
23 T	trans-1,2-Dichloroethene	0.2709	0.2889	-6.6	147	0.00
24 T	n-Hexane	0.2737	0.3162	-15.5	159#	0.00
25 T	Diisopropyl ether	0.7936	0.7612	4.1	138	0.00
26 T	Vinyl Acetate	0.1472	0.1143	22.3	100	-0.01
27 P	1,1-Dichloroethane	0.4540	0.4835	-6.5	147	0.00
28 T	Ethyl-Tert-Butyl ether	0.7749	0.6695	13.6	125	0.00
29 T	2-Butanone	0.0643	0.0580	9.9	128	0.00
30 T	Propionitrile	0.0190	0.0160	15.9	116	0.00
31 T	2,2-Dichloropropane	0.3670	0.2714	26.0#	101	0.00
32 T	cis-1,2-Dichloroethene	0.2936	0.3086	-5.1	145	0.00
33 C	Chloroform	0.4800	0.4833	-0.7	143	0.00
34 T	1-Bromopropane	0.0549	0.0531	3.3	128	0.00
35 T	Bromochloromethane	0.1865	0.1721	7.7	126	-0.01
36 T	Tetrahydrofuran	0.0418	0.0315	24.6	109	0.00
37 S	Dibromofluoromethane	0.3046	0.2752	9.6	129	0.00
38 T	1,1,1-Trichloroethane	0.4503	0.4522	-0.4	138	0.00
39 T	Cyclohexane	0.3628	0.4061	-11.9	154#	0.00
40 T	1,1-Dichloropropene	0.3581	0.3852	-7.6	146	0.00
41 T	Carbon Tetrachloride	0.3990	0.4365	-9.4	136	-0.01
42 T	Tert-Amyl-Methyl ether	0.7084	0.5604	20.9	113	0.00
43 S	1,2-Dichloroethane-d4	0.2915	0.2296	21.2	114	0.00
44 T	Heptane	0.0000	0.0000	0.0	132	0.00
45 T	1,2-Dichloroethane	0.3375	0.3004	11.0	124	0.00
46 T	Benzene	1.0461	1.0963	-4.8	147	0.00
47 T	Trichloroethene	0.3430	0.3232	5.8	138	0.00
48 T	Methylcyclohexane	0.3591	0.3867	-7.7	145	-0.01
49 C	1,2-Dichloropropane	0.2408	0.2539	-5.4	147	0.00
50 T	1,4-Dioxane	0.0017	0.0018	-5.8	140	-0.01
51 T	Bromodichloromethane	0.3296	0.3366	-2.1	134	-0.01
52 T	Dibromomethane	0.1422	0.1318	7.3	118	0.00
53 T	2-Chloroethyl Vinyl Ether	0.1027	0.0716	30.3#	91	-0.01
54 T	4-Methyl-2-Pentanone	0.0563	0.0559	0.6	134	-0.01

(#) = Out of Range

11M85500.D 8260WTR.M

Mon Jul 23 13:22:04 2012

Page 1

Data File : C:\MSDCHEM\1\DATA\072312\11M85500.D Vial: 2
 Acq On : 23 Jul 2012 12:50 Operator: FJB
 Sample : WG404129-02 50ug/L CCV 8260 Inst : hpms11
 Misc : 1,1 STD52670 Multiplr: 1.00
 MS Integration Params: rteint.p

Method : C:\MSDCHEM\1\METHODS\8260WTR.M (RTE Integrator)
 Title : 8260B/624 (SOP: OVL MSV01) Water 05/03/12 HPMS11
 Last Update : Fri Jul 13 11:24:02 2012
 Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
 Max. RRF Dev : 25% Max. Rel. Area : 150%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
55 T	cis-1,3-Dichloropropene	0.3797	0.3704	2.5	130	-0.01
56 T	Dimethyl Disulfide	0.1831	0.1101	39.8#	68	0.00
57 I	Chlorobenzene-d5	1.0000	1.0000	0.0	137	-0.01
58 S	Toluene-d8	1.3187	1.2773	3.1	138	-0.01
59 C	Toluene	1.5037	1.5736	-4.6	142	-0.01
60 T	Ethyl Methacrylate	0.2735	0.2590	5.3	117	0.00
61 T	Paraldehyde	0.0030	0.0002	93.7#	7#	0.00
62 T	trans-1,3-Dichloropropene	0.4032	0.3391	15.9	100	-0.01
63 T	1,1,2-Trichloroethane	0.2484	0.2263	8.9	122	0.00
64 T	2-Hexanone	0.1256	0.1137	9.4	123	-0.01
65 T	1,3-Dichloropropane	0.4172	0.3932	5.8	127	-0.01
66 T	Tetrachloroethene	0.3081	0.3340	-8.4	143	0.00
67 T	Dibromochloromethane	0.3098	0.3223	-4.0	123	-0.01
68 T	1,2-Dibromoethane	0.2572	0.2257	12.3	116	-0.01
69 T	1-Chlorohexane	0.4311	0.4820	-11.8	144	-0.01
70 P	Chlorobenzene	1.0009	1.1088	-10.8	141	0.00
71 T	1,1,1,2-Tetrachloroethane	0.3660	0.4054	-10.8	133	0.00
72 C	Ethylbenzene	0.5432	0.5928	-9.1	135	-0.01
73 T	m-,p-Xylene	0.6707	0.7192	-7.2	133	0.00
74 T	o-Xylene	0.6534	0.6530	0.1	133	-0.01
75 T	Styrene	1.0396	1.0710	-3.0	127	-0.01
76 P	Bromoform	0.1568	0.1780	-13.5	113	0.00
77 T	Isopropylbenzene	1.5382	1.6342	-6.2	131	-0.01
78 I	1,4-Dichlorobenzene-d4	1.0000	1.0000	0.0	153#	0.00
79 P	1,1,2,2-Tetrachloroethane	0.4450	0.3594	19.2	117	-0.01
80 S	p-Bromofluorobenzene	0.8263	0.6983	15.5	135	-0.01
81 T	1,2,3-Trichloropropane	0.1347	0.1062	21.2	118	0.00
82 T	trans-1,4-Dichloro-2-Butene	0.1051	0.0313	70.2#	40#	0.00
83 T	n-Propylbenzene	3.2528	2.8723	11.7	133	0.00
84 T	Bromobenzene	0.7771	0.6788	12.6	135	-0.01
85 T	1,3,5-Trimethylbenzene	2.4157	2.0734	14.2	130	-0.01
86 T	2-Chlorotoluene	2.1876	1.8470	15.6	129	0.02
87 T	4-Chlorotoluene	1.9145	1.7899	6.5	142	-0.01
88 T	a-Methylstyrene	1.3453	1.1493	14.6	121	0.00
89 T	tert-Butylbenzene	0.5257	0.4432	15.7	126	-0.01
90 T	1,2,4-Trimethylbenzene	2.5133	2.1513	14.4	124	0.00
91 T	sec-Butylbenzene	2.8206	2.7222	3.5	142	-0.01
92 T	p-Isopropyltoluene	2.4202	2.3751	1.9	142	-0.01
93 T	1,3-Dichlorobenzene	1.5241	1.4853	2.5	147	-0.01
94 T	1,4-Dichlorobenzene	1.5514	1.4599	5.9	143	-0.01
95 T	n-Butylbenzene	1.8436	1.9684	-6.8	144	-0.01
96 T	1,2-Dichlorobenzene	1.3814	1.2619	8.6	136	-0.01
97 T	1,2-Dibromo-3-Chloropropane	0.0695	0.0598	14.0	124	-0.02
98 T	1,2,4-Trichlorobenzene	0.7812	0.8392	-7.4	147	-0.01
99 T	Hexachlorobutadiene	0.2707	0.3216	-18.8	169#	-0.01
100 T	Naphthalene	1.5237	1.4519	4.7	129	-0.01
101 T	1,2,3-Trichlorobenzene	0.7300	0.7004	4.1	141	-0.01

(#) = Out of Range SPCC's out = 0 CCC's out = 0
 11M85500.D 8260WTR.M Mon Jul 23 13:22:04 2012

Page 2

Data File : C:\MSDCHEM\1\DATA\072312\11M85500.D Vial: 2
 Acq On : 23 Jul 2012 12:50 Operator: FJB
 Sample : WG404129-02 50ug/L CCV 8260 Inst : hpms11
 Misc : 1,1 STD52670 Multiplr: 1.00
 MS Integration Params: rteint.p

Method : C:\MSDCHEM\1\METHODS\8260WTR.M (RTE Integrator)
 Title : 8260B/624 (SOP: OVL MSV01) Water 05/03/12 HPMS11
 Last Update : Fri Jul 13 11:24:02 2012
 Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
 Max. RRF Dev : 25% Max. Rel. Area : 150%

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1 I	Fluorobenzene	25.0000	25.0000	0.0	142	-0.01
2 T	Dichlorodifluoromethane	50.0000	46.1656	7.7	127	0.00
3 P	Chloromethane	50.0000	42.3815	15.2	114	0.00
4 C	Vinyl Chloride	50.0000	42.9756	14.0	137	0.00
5 T	1,3-Butadiene	50.0000	59.2531	-18.5	230	0.01
6 T	Bromomethane	50.0000	54.9291	-9.9	156	0.00
7 T	Chloroethane	50.0000	47.3278	5.3	131	0.00
8 T	Trichlorofluoromethane	50.0000	43.2648	13.5	120	0.00
9 T	Diethyl ether	100.0000	85.0429	15.0	121	0.00
10 T	Isoprene	50.0000	47.8073	4.4	129	0.00
11 T	Acrolein	100.0000	115.0267	-15.0	163	-0.01
12 T	1,1,2-Trichloro-1,2,2-Trifl	50.0000	48.6382	2.7	132	0.00
13 T	Acetone	50.0000	60.0314	-20.1	163	-0.01
14 C	1,1-Dichloroethene	50.0000	54.3855	-8.8	150	0.00
15 T	Tert-Butyl Alcohol	200.0000	154.4722	22.8	105	-0.03
16 T	Dimethyl Sulfide	50.0000	58.5053	-17.0	164	0.00
17 T	Iodomethane	50.0000	38.6868	22.6	101	0.00
18 T	Methyl acetate	50.0000	41.1732	17.7	121	0.00
19 T	Methylene Chloride	50.0000	49.8513	0.3	143	0.00
20 T	Carbon Disulfide	50.0000	46.4550	7.1	130	0.00
21 T	Acrylonitrile	50.0000	47.5352	4.9	124	0.00
22 T	Methyl Tert Butyl Ether	50.0000	41.3447	17.3	117	0.00
23 T	trans-1,2-Dichloroethene	50.0000	53.3192	-6.6	147	0.00
24 T	n-Hexane	50.0000	57.7482	-15.5	159	0.00
25 T	Diisopropyl ether	100.0000	95.9172	4.1	138	0.00
26 T	Vinyl Acetate	50.0000	36.5938	26.8#	100	-0.01
27 P	1,1-Dichloroethane	50.0000	53.2459	-6.5	147	0.00
28 T	Ethyl-Tert-Butyl ether	100.0000	86.4084	13.6	125	0.00
29 T	2-Butanone	50.0000	45.0467	9.9	128	0.00
30 T	Propionitrile	100.0000	84.1265	15.9	116	0.00
31 T	2,2-Dichloropropane	50.0000	36.9818	26.0#	101	0.00
32 T	cis-1,2-Dichloroethene	50.0000	52.5515	-5.1	145	0.00
33 C	Chloroform	50.0000	50.3465	-0.7	143	0.00
34 T	1-Bromopropane	50.0000	48.3564	3.3	128	0.00
35 T	Bromochloromethane	50.0000	46.1266	7.7	126	-0.01
36 T	Tetrahydrofuran	100.0000	75.4321	24.6	109	0.00
37 S	Dibromofluoromethane	25.0000	22.5883	9.6	129	0.00
38 T	1,1,1-Trichloroethane	50.0000	50.2051	-0.4	138	0.00
39 T	Cyclohexane	50.0000	55.9711	-11.9	154	0.00
40 T	1,1-Dichloropropene	50.0000	53.7820	-7.6	146	0.00
41 T	Carbon Tetrachloride	50.0000	45.5926	8.8	136	-0.01
42 T	Tert-Amyl-Methyl ether	100.0000	79.0985	20.9	113	0.00
43 S	1,2-Dichloroethane-d4	25.0000	19.6920	21.2	114	0.00
44 T	Heptane	-1.0000	0.0000	0.0	132	0.00
45 T	1,2-Dichloroethane	50.0000	44.5140	11.0	124	0.00
46 T	Benzene	50.0000	52.3986	-4.8	147	0.00
47 T	Trichloroethene	50.0000	47.1167	5.8	138	0.00
48 T	Methylcyclohexane	50.0000	53.8390	-7.7	145	-0.01
49 C	1,2-Dichloropropane	50.0000	52.7134	-5.4	147	0.00
50 T	1,4-Dioxane	200.0000	211.5771	-5.8	140	-0.01
51 T	Bromodichloromethane	50.0000	51.0539	-2.1	134	-0.01
52 T	Dibromomethane	50.0000	40.9320	18.1	118	0.00
53 T	2-Chloroethyl Vinyl Ether	50.0000	34.8416	30.3#	91	-0.01
54 T	4-Methyl-2-Pentanone	50.0000	49.7127	0.6	134	-0.01

(#) = Out of Range

11M85500.D 8260WTR.M

Mon Jul 23 13:22:06 2012

Page 1

Data File : C:\MSDCHEM\1\DATA\072312\11M85500.D Vial: 2
 Acq On : 23 Jul 2012 12:50 Operator: FJB
 Sample : WG404129-02 50ug/L CCV 8260 Inst : hpms11
 Misc : 1,1 STD52670 Multiplr: 1.00
 MS Integration Params: rteint.p

Method : C:\MSDCHEM\1\METHODS\8260WTR.M (RTE Integrator)
 Title : 8260B/624 (SOP: OVL MSV01) Water 05/03/12 HPMS11
 Last Update : Fri Jul 13 11:24:02 2012
 Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
 Max. RRF Dev : 25% Max. Rel. Area : 150%

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
55 T	cis-1,3-Dichloropropene	50.0000	48.7731	2.5	130	-0.01
56 T	Dimethyl Disulfide	50.0000	26.4371	47.1#	68	0.00
57 I	Chlorobenzene-d5	25.0000	25.0000	0.0	137	-0.01
58 S	Toluene-d8	25.0000	24.2157	3.1	138	-0.01
59 C	Toluene	50.0000	52.3233	-4.6	142	-0.01
60 T	Ethyl Methacrylate	50.0000	40.8946	18.2	117	0.00
61 T	Paraldehyde	100.0000	26.8409	73.2#	7	0.00
62 T	trans-1,3-Dichloropropene	50.0000	42.0514	15.9	100	-0.01
63 T	1,1,2-Trichloroethane	50.0000	45.5497	8.9	122	0.00
64 T	2-Hexanone	50.0000	45.2782	9.4	123	-0.01
65 T	1,3-Dichloropropane	50.0000	47.1223	5.8	127	-0.01
66 T	Tetrachloroethene	50.0000	54.2134	-8.4	143	0.00
67 T	Dibromochloromethane	50.0000	45.8345	8.3	123	-0.01
68 T	1,2-Dibromoethane	50.0000	43.8731	12.3	116	-0.01
69 T	1-Chlorohexane	50.0000	55.9027	-11.8	144	-0.01
70 P	Chlorobenzene	50.0000	55.3868	-10.8	141	0.00
71 T	1,1,1,2-Tetrachloroethane	50.0000	49.2909	1.4	133	0.00
72 C	Ethylbenzene	50.0000	54.5709	-9.1	135	-0.01
73 T	m-,p-Xylene	100.0000	107.2300	-7.2	133	0.00
74 T	o-Xylene	50.0000	49.9685	0.1	133	-0.01
75 T	Styrene	50.0000	51.5072	-3.0	127	-0.01
76 P	Bromoform	50.0000	43.8537	12.3	113	0.00
77 T	Isopropylbenzene	50.0000	53.1174	-6.2	131	-0.01
78 I	1,4-Dichlorobenzene-d4	25.0000	25.0000	0.0	153	0.00
79 P	1,1,2,2-Tetrachloroethane	50.0000	40.3806	19.2	117	-0.01
80 S	p-Bromofluorobenzene	25.0000	21.1264	15.5	135	-0.01
81 T	1,2,3-Trichloropropane	50.0000	39.4137	21.2	118	0.00
82 T	trans-1,4-Dichloro-2-Butene	50.0000	13.4232	73.2#	40	0.00
83 T	n-Propylbenzene	50.0000	44.1514	11.7	133	0.00
84 T	Bromobenzene	50.0000	43.6759	12.6	135	-0.01
85 T	1,3,5-Trimethylbenzene	50.0000	42.9159	14.2	130	-0.01
86 T	2-Chlorotoluene	50.0000	42.2149	15.6	129	0.02
87 T	4-Chlorotoluene	50.0000	46.7473	6.5	142	-0.01
88 T	a-Methylstyrene	50.0000	42.7124	14.6	121	0.00
89 T	tert-Butylbenzene	50.0000	42.1534	15.7	126	-0.01
90 T	1,2,4-Trimethylbenzene	50.0000	42.7974	14.4	124	0.00
91 T	sec-Butylbenzene	50.0000	48.2566	3.5	142	-0.01
92 T	p-Isopropyltoluene	50.0000	49.0684	1.9	142	-0.01
93 T	1,3-Dichlorobenzene	50.0000	48.7268	2.5	147	-0.01
94 T	1,4-Dichlorobenzene	50.0000	47.0511	5.9	143	-0.01
95 T	n-Butylbenzene	50.0000	53.3845	-6.8	144	-0.01
96 T	1,2-Dichlorobenzene	50.0000	45.6775	8.6	136	-0.01
97 T	1,2-Dibromo-3-Chloropropane	50.0000	37.5899	24.8	124	-0.02
98 T	1,2,4-Trichlorobenzene	50.0000	53.7130	-7.4	147	-0.01
99 T	Hexachlorobutadiene	50.0000	51.8737	-3.7	169	-0.01
100 T	Naphthalene	50.0000	42.0493	15.9	129	-0.01
101 T	1,2,3-Trichlorobenzene	50.0000	47.9685	4.1	141	-0.01

(#) = Out of Range SPCC's out = 0 CCC's out = 0
 11M85500.D 8260WTR.M Mon Jul 23 13:22:06 2012

Page 2

Data File : C:\MSDCHEM\1\data\072512\8M381037.D Vial: 2
 Acq On : 25 Jul 2012 10:04 Operator: adc
 Sample : WG404415-02 50ug/L CCV STD 8260 Inst : HPMS8
 Misc : 1,1 STD52789 Multiplr: 1.00

MS Integration Params: RTEINT.P

Quant Time: Jul 25 10:27:14 2012

Quant Results File: 8260WTR.RES

Quant Method : C:\MSDCHEM\1\METHODS\8260WTR.M (RTE Integrator)
 Title : Method 8260B/624 WTR-SOP:OVLMSV01 06/28/12 HPMS 8
 Last Update : Fri Jun 29 09:29:43 2012
 Response via : Initial Calibration
 DataAcq Meth : 8260WTR

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene	10.18	96	623691	25.00	ug/L	0.00
57) Chlorobenzene-d5	14.03	117	531546	25.00	ug/L	0.00
78) 1,4-Dichlorobenzene-d4	17.04	152	296584	25.00	ug/L	0.00

System Monitoring Compounds

37) Dibromofluoromethane	9.13	111	168779	25.1638	ug/L	0.00
Spiked Amount	25.000	Range 86 - 118	Recovery	=	100.64%	
43) 1,2-Dichloroethane-d4	9.76	65	130626	20.8981	ug/L	0.00
Spiked Amount	25.000	Range 80 - 120	Recovery	=	83.60%	
58) Toluene-d8	12.16	98	602548	24.8099	ug/L	0.00
Spiked Amount	25.000	Range 88 - 110	Recovery	=	99.24%	
80) p-Bromofluorobenzene	15.53	95	247828	25.1714	ug/L	0.00
Spiked Amount	25.000	Range 86 - 115	Recovery	=	100.68%	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	2.82	85	353652	39.9423	ug/L	99
3) Chloromethane	3.22	50	372409	31.4158	ug/L	98
4) Vinyl Chloride	3.41	62	263344	41.0785	ug/L	99
5) 1,3-Butadiene	3.46	54	119637	47.7713	ug/L	98
6) Bromomethane	4.23	94	250508	45.4439	ug/L	99
7) Chloroethane	4.39	64	261862	46.4953	ug/L	96
8) Trichlorofluoromethane	4.88	101	596787	45.5042	ug/L	98
9) Diethyl ether	5.41	59	318218	80.8070	ug/L	96
10) Isoprene	5.44	67	605159	61.6963	ug/L	92
11) Acrolein	5.61	56	44226	81.7450	ug/L	94
12) 1,1,2-Trichloro-1,2,2-Trif	5.67	101	347398	51.4757	ug/L	99
13) Acetone	5.71	43	48487	45.2940	ug/L	84
14) 1,1-Dichloroethene	5.95	61	517296	46.1567	ug/L	91
15) Tert-Butyl Alcohol	6.08	59	59566	252.2193	ug/L	91
16) Dimethyl Sulfide	6.20	62	428323	52.2301	ug/L	89
17) Iodomethane	6.43	142	492463	56.2040	ug/L	92
18) Methyl acetate	6.47	43	206557	47.0787	ug/L	97
19) Methylene Chloride	6.71	84	301092	43.4626	ug/L	87
20) Carbon Disulfide	6.74	76	1017532	53.4442	ug/L	99
21) Acrylonitrile	6.88	53	75800	51.0334	ug/L	97
22) Methyl Tert Butyl Ether	6.96	73	579899	48.2820	ug/L	99
23) trans-1,2-Dichloroethene	7.18	61	500175	47.5412	ug/L	92
24) n-Hexane	7.30	57	413934	45.0882	ug/L	94
25) Diisopropyl ether	7.64	45	1994158	88.1448	ug/L	95
26) Vinyl Acetate	7.78	43	227557	45.0228	ug/L	97
27) 1,1-Dichloroethane	7.80	63	639121	48.2125	ug/L	99
28) Ethyl-Tert-Butyl ether	8.21	59	1641755	89.4404	ug/L	97
29) 2-Butanone	8.36	43	71142	44.4478	ug/L	95
30) Propionitrile	8.44	54	52534	115.3137	ug/L	97
31) 2,2-Dichloropropane	8.57	77	514492	47.1065	ug/L	100
32) cis-1,2-Dichloroethene	8.64	96	367486	50.9021	ug/L	89
33) Chloroform	8.84	83	544047	45.4665	ug/L	100
34) 1-Bromopropane	8.99	122	73299	58.8087	ug/L	100
35) Bromochloromethane	9.06	130	214016	50.3317	ug/L	93
36) Tetrahydrofuran	9.10	42	104155	109.5732	ug/L	95
38) 1,1,1-Trichloroethane	9.38	97	522879	45.4426	ug/L	100
39) Cyclohexane	9.43	56	597847	48.8955	ug/L	98
40) 1,1-Dichloropropene	9.59	75	458172	47.9311	ug/L	97
41) Tert-Amyl-Methyl ether	9.71	73	1243014	95.6284	ug/L	96
42) Carbon Tetrachloride	9.72	117	511748	46.6839	ug/L	99
45) 1,2-Dichloroethane	9.89	62	338447	40.4630	ug/L	98

(#) = qualifier out of range (m) = manual integration
 8M381037.D 8260WTR.M Wed Jul 25 10:27:44 2012

Page 1

Data File : C:\MSDCHEM\1\data\072512\8M381037.D Vial: 2
 Acq On : 25 Jul 2012 10:04 Operator: adc
 Sample : WG404415-02 50ug/L CCV STD 8260 Inst : HPMS8
 Misc : 1,1 STD52789 Multiplr: 1.00

MS Integration Params: RTEINT.P

Quant Time: Jul 25 10:27:14 2012

Quant Results File: 8260WTR.RES

Quant Method : C:\MSDCHEM\1\METHODS\8260WTR.M (RTE Integrator)
 Title : Method 8260B/624 WTR-SOP:OVLMSV01 06/28/12 HPMS 8
 Last Update : Fri Jun 29 09:29:43 2012
 Response via : Initial Calibration
 DataAcq Meth : 8260WTR

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
46) Benzene	9.93	78	1272245	47.0241	ug/L	95
47) Trichloroethene	10.69	130	394014	46.9824	ug/L	98
48) Methylcyclohexane	10.80	83	413880	43.9987	ug/L	96
49) 1,2-Dichloropropane	10.90	63	346946	47.2744	ug/L	95
50) Bromodichloromethane	11.19	83	398132	46.6616	ug/L	100
51) 1,4-Dioxane	11.18	88	8205	291.2989	ug/L	90
52) Dibromomethane	11.26	93	153475	47.5904	ug/L	98
53) 2-Chloroethyl Vinyl Ether	11.51	63	145657	197.2022	ug/L	93
54) 4-Methyl-2-Pentanone	11.54	58	64828	47.0588	ug/L	98
55) cis-1,3-Dichloropropene	11.83	75	496595	53.3956	ug/L	99
56) Dimethyl Disulfide	12.08	94	540481	44.8162	ug/L	97
59) Toluene	12.25	91	1385304	44.7860	ug/L	100
60) Ethyl Methacrylate	12.38	69	241516	47.1828	ug/L	87
61) Paraldehyde	12.41	89	9028	129.9040	ug/L	67
62) trans-1,3-Dichloropropene	12.43	75	396433	48.7114	ug/L	99
63) 1,1,2-Trichloroethane	12.64	97	213074	48.4567	ug/L	98
64) 2-Hexanone	12.61	58	58242	46.6474	ug/L	95
65) 1,3-Dichloropropane	12.95	76	367416	47.4692	ug/L	84
66) Tetrachloroethene	13.08	164	332261	44.1038	ug/L	96
67) Dibromochloromethane	13.31	129	320417	49.3223	ug/L	100
68) 1,2-Dibromoethane	13.57	107	229233	49.2410	ug/L	100
69) 1-Chlorohexane	13.70	91	441124	45.0164	ug/L	91
70) Chlorobenzene	14.08	112	961193	45.2476	ug/L	95
71) 1,1,1,2-Tetrachloroethane	14.12	131	370699	45.8903	ug/L	99
72) Ethylbenzene	14.13	106	531398	43.1177	ug/L	99
73) m-,p-Xylene	14.22	106	1301471	86.8257	ug/L	97
74) o-Xylene	14.77	106	661240	44.8006	ug/L	95
75) Styrene	14.81	104	1080155	45.0654	ug/L	95
76) Bromoform	15.26	173	195128	48.3515	ug/L	99
77) Isopropylbenzene	15.20	105	1541797	41.9646	ug/L	100
79) 1,1,2,2-Tetrachloroethane	15.40	83	222977	50.1877	ug/L	99
81) 1,2,3-Trichloropropane	15.58	110	68909	49.3181	ug/L	99
82) trans-1,4-Dichloro-2-Buten	15.64	53	66391	45.8808	ug/L	# 69
83) n-Propylbenzene	15.71	91	1705023	42.6057	ug/L	99
84) Bromobenzene	15.81	156	432344	45.8685	ug/L	95
85) 1,3,5-Trimethylbenzene	15.89	105	1294405	42.3263	ug/L	98
86) 2-Chlorotoluene	15.96	91	1186304	46.2326	ug/L	99
87) 4-Chlorotoluene	16.01	91	1078477	41.0002	ug/L	98
88) a-Methylstyrene	16.29	118	809328	46.6338	ug/L	99
89) tert-Butylbenzene	16.35	134	286214	41.7282	ug/L	90
90) 1,2,4-Trimethylbenzene	16.40	105	1312555	41.8564	ug/L	99
91) sec-Butylbenzene	16.63	105	1427240	40.1047	ug/L	100
92) p-Isopropyltoluene	16.78	119	1255045	40.2651	ug/L	100
93) 1,3-Dichlorobenzene	16.96	146	833052	44.1465	ug/L	98
94) 1,4-Dichlorobenzene	17.08	146	836311	42.5589	ug/L	99
95) n-Butylbenzene	17.31	91	1017479	38.2909	ug/L	98
96) 1,2-Dichlorobenzene	17.57	146	742628	43.7433	ug/L	99
97) 1,2-Dibromo-3-Chloropropan	18.55	75	36712	45.8538	ug/L	84
98) 1,2,4-Trichlorobenzene	19.70	180	464165	39.5859	ug/L	99
99) Hexachlorobutadiene	19.86	225	191655	37.6950	ug/L	99
100) Naphthalene	20.05	128	823442	45.3765	ug/L	99
101) 1,2,3-Trichlorobenzene	20.36	180	389920	38.5012	ug/L	99

(#) = qualifier out of range (m) = manual integration
 8M381037.D 8260WTR.M Wed Jul 25 10:27:49 2012

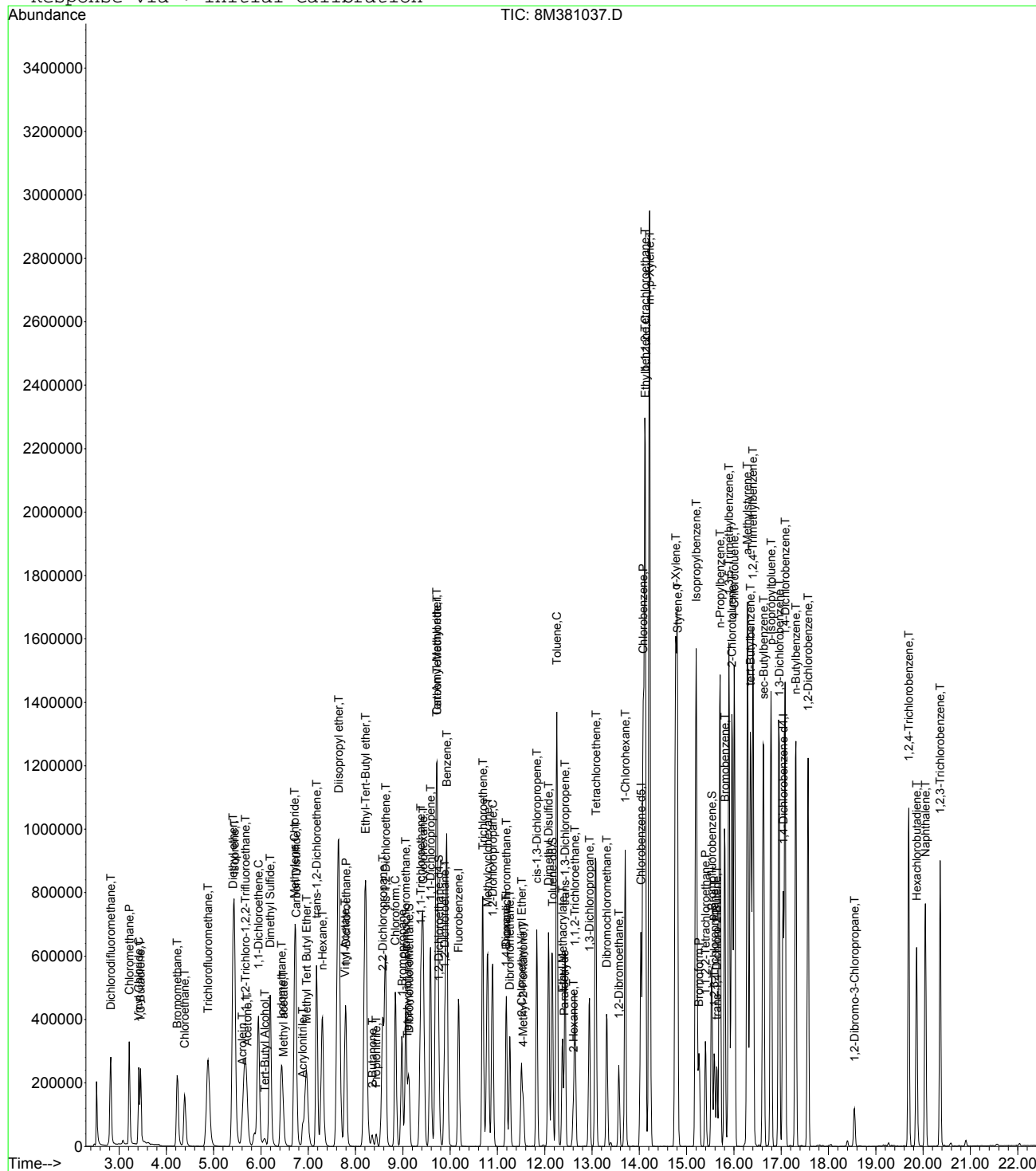
Page 2

Data File : C:\MSDchem\1\data\072512\8M381037.D
Acq On : 25 Jul 2012 10:04
Sample : WG404415-02 50ug/L CCV STD 8260
Misc : 1,1 STD52789
MS Integration Params: RTEINT.P
Quant Time: Jul 25 10:27 2012

Vial: 2
Operator: adc
Inst : HPMS8
Multiplr: 1.00

Quant Results File: 8260WTR.RES

Method : C:\MSDCHEM\1\METHODS\8260WTR.M (RTE Integrator)
Title : Method 8260B/624 WTR-SOP:OVLMSV01 06/28/12 HPMS 8
Last Update : Fri Jun 29 09:29:43 2012
Response via : Initial Calibration



Data File : C:\MSDCHEM\1\DATA\072512\8M381037.D Vial: 2
 Acq On : 25 Jul 2012 10:04 Operator: adc
 Sample : WG404415-02 50ug/L CCV STD 8260 Inst : HPMS8
 Misc : 1,1 STD52789 Multiplr: 1.00
 MS Integration Params: RTEINT.P

Method : C:\MSDCHEM\1\METHODS\8260WTR.M (RTE Integrator)
 Title : Method 8260B/624 WTR-SOP:OVLMSV01 06/28/12 HPMS 8
 Last Update : Fri Jun 29 09:29:43 2012
 Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
 Max. RRF Dev : 25% Max. Rel. Area : 150%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1 I	Fluorobenzene	1.0000	1.0000	0.0	91	0.00
2 T	Dichlorodifluoromethane	0.3549	0.2835	20.1	75	0.00
3 P	Chloromethane	0.4752	0.2985	37.2#	64	0.00
4 C	Vinyl Chloride	0.3142	0.2111	32.8#	67	0.00
5 T	1,3-Butadiene	0.1308	0.0959	26.7#	83	0.00
6 T	Bromomethane	0.2210	0.2008	9.1	86	0.00
7 T	Chloroethane	0.2258	0.2099	7.0	86	0.00
8 T	Trichlorofluoromethane	0.5257	0.4784	9.0	85	0.00
9 T	Diethyl ether	0.1578	0.1276	19.2	70	0.00
10 T	Isoprene	0.3932	0.4851	-23.4	109	0.00
11 T	Acrolein	0.0217	0.0177	18.3	73	0.00
12 T	1,1,2-Trichloro-1,2,2-Trifl	0.2705	0.2785	-2.9	90	0.00
13 T	Acetone	0.0429	0.0389	9.4	82	0.00
14 C	1,1-Dichloroethene	0.4492	0.4147	7.7	84	0.00
15 T	Tert-Butyl Alcohol	0.0095	0.0119	-26.1#	113	0.00
16 T	Dimethyl Sulfide	0.3287	0.3434	-4.5	94	0.00
17 T	Iodomethane	0.2893	0.3948	-36.5#	100	0.00
18 T	Methyl acetate	0.1759	0.1656	5.8	88	0.00
19 T	Methylene Chloride	0.2777	0.2414	13.1	84	0.00
20 T	Carbon Disulfide	0.7632	0.8157	-6.9	95	0.00
21 T	Acrylonitrile	0.0595	0.0608	-2.1	92	0.00
22 T	Methyl Tert Butyl Ether	0.4814	0.4649	3.4	86	0.00
23 T	trans-1,2-Dichloroethene	0.4217	0.4010	4.9	84	0.00
24 T	n-Hexane	0.3680	0.3318	9.8	80	0.00
25 T	Diisopropyl ether	0.9069	0.7993	11.9	77	0.00
26 T	Vinyl Acetate	0.1728	0.1824	-5.6	84	0.00
27 P	1,1-Dichloroethane	0.5314	0.5124	3.6	86	0.00
28 T	Ethyl-Tert-Butyl ether	0.7358	0.6581	10.6	79	0.00
29 T	2-Butanone	0.0642	0.0570	11.1	83	0.00
30 T	Propionitrile	0.0183	0.0211	-15.3	94	0.00
31 T	2,2-Dichloropropane	0.4378	0.4125	5.8	85	0.00
32 T	cis-1,2-Dichloroethene	0.2894	0.2946	-1.8	91	0.00
33 C	Chloroform	0.4796	0.4361	9.1	84	0.00
34	1-Bromopropane	0.0476	0.0588	-23.5	100	0.00
35 T	Bromochloromethane	0.1704	0.1716	-0.7	90	0.00
36 T	Tetrahydrofuran	0.0381	0.0418	-9.6	95	0.00
37 S	Dibromofluoromethane	0.2688	0.2706	-0.7	87	0.00
38 T	1,1,1-Trichloroethane	0.4612	0.4192	9.1	83	0.00
39 T	Cyclohexane	0.4901	0.4793	2.2	88	0.00
40 T	1,1-Dichloropropene	0.3832	0.3673	4.1	86	0.00
41 T	Tert-Amyl-Methyl ether	0.5210	0.4983	4.4	86	0.00
42 T	Carbon Tetrachloride	0.4394	0.4103	6.6	84	0.00
43 S	1,2-Dichloroethane-d4	0.2505	0.2094	16.4	75	0.00
44	Heptane	0.0000	0.0000	0.0	0#	-2.46#
45 T	1,2-Dichloroethane	0.3353	0.2713	19.1	74	0.00
46 T	Benzene	1.0845	1.0199	6.0	88	0.00
47 T	Trichloroethene	0.3362	0.3159	6.0	89	0.00
48 T	Methylcyclohexane	0.3771	0.3318	12.0	78	0.00
49 C	1,2-Dichloropropane	0.2942	0.2781	5.5	88	0.00
50 T	Bromodichloromethane	0.3420	0.3192	6.7	85	0.00
51 T	1,4-Dioxane	0.0011	0.0016	-45.1#	127	0.00
52 T	Dibromomethane	0.1293	0.1230	4.8	86	0.00
53 T	2-Chloroethyl Vinyl Ether	0.0296	0.1168	-294.4#	346#	0.00
54 T	4-Methyl-2-Pentanone	0.0552	0.0520	5.9	88	0.00
55 T	cis-1,3-Dichloropropene	0.3728	0.3981	-6.8	88	0.00

(#) = Out of Range

8M381037.D 8260WTR.M

Wed Jul 25 11:38:55 2012

Page 1

Data File : C:\MSDCHEM\1\DATA\072512\8M381037.D Vial: 2
 Acq On : 25 Jul 2012 10:04 Operator: adc
 Sample : WG404415-02 50ug/L CCV STD 8260 Inst : HPMS8
 Misc : 1,1 STD52789 Multiplr: 1.00
 MS Integration Params: RTEINT.P

Method : C:\MSDCHEM\1\METHODS\8260WTR.M (RTE Integrator)
 Title : Method 8260B/624 WTR-SOP:OVLMSV01 06/28/12 HPMS 8
 Last Update : Fri Jun 29 09:29:43 2012
 Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
 Max. RRF Dev : 25% Max. Rel. Area : 150%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
56 T	Dimethyl Disulfide	0.4003	0.4333	-8.3	90	0.00
57 I	Chlorobenzene-d5	1.0000	1.0000	0.0	92	0.00
58 S	Toluene-d8	1.1423	1.1336	0.8	89	0.00
59 C	Toluene	1.4548	1.3031	10.4	85	0.00
60 T	Ethyl Methacrylate	0.2407	0.2272	5.6	83	0.00
61	Paraldehyde	0.0033	0.0043	-30.0#	119	0.00
62 T	trans-1,3-Dichloropropene	0.3828	0.3729	2.6	83	0.00
63 T	1,1,2-Trichloroethane	0.2068	0.2004	3.1	88	0.00
64 T	2-Hexanone	0.0587	0.0548	6.7	84	0.00
65 T	1,3-Dichloropropane	0.3640	0.3456	5.1	86	0.00
66 T	Tetrachloroethene	0.3543	0.3125	11.8	83	0.00
67 T	Dibromochloromethane	0.3055	0.3014	1.4	87	0.00
68 T	1,2-Dibromoethane	0.2190	0.2156	1.5	87	0.00
69 T	1-Chlorohexane	0.4609	0.4149	10.0	82	0.00
70 P	Chlorobenzene	0.9991	0.9042	9.5	85	0.00
71 T	1,1,1,2-Tetrachloroethane	0.3799	0.3487	8.2	83	0.00
72 C	Ethylbenzene	0.5797	0.4999	13.8	82	0.00
73 T	m-,p-Xylene	0.7050	0.6121	13.2	81	0.00
74 T	o-Xylene	0.6942	0.6220	10.4	83	0.00
75 T	Styrene	1.1273	1.0160	9.9	82	0.00
76 P	Bromoform	0.1898	0.1835	3.3	84	0.00
77 T	Isopropylbenzene	1.7280	1.4503	16.1	79	0.00
78 I	1,4-Dichlorobenzene-d4	1.0000	1.0000	0.0	89	0.00
79 P	1,1,2,2-Tetrachloroethane	0.3329	0.3759	-12.9	88	0.00
80 S	p-Bromofluorobenzene	0.8299	0.8356	-0.7	88	0.00
81 T	1,2,3-Trichloropropane	0.1178	0.1162	1.4	84	0.00
82 T	trans-1,4-Dichloro-2-Butene	0.0962	0.1119	-16.3	81	0.00
83 T	n-Propylbenzene	3.3733	2.8744	14.8	78	0.00
84 T	Bromobenzene	0.7945	0.7289	8.3	84	0.00
85 T	1,3,5-Trimethylbenzene	2.5778	2.1822	15.3	76	0.00
86 T	2-Chlorotoluene	2.1629	1.9999	7.5	84	0.00
87 T	4-Chlorotoluene	2.2173	1.8182	18.0	75	0.00
88 T	a-Methylstyrene	1.4629	1.3644	6.7	81	0.00
89 T	tert-Butylbenzene	0.5782	0.4825	16.5	75	0.00
90 T	1,2,4-Trimethylbenzene	2.6433	2.2128	16.3	76	0.00
91 T	sec-Butylbenzene	2.9998	2.4061	19.8	73	0.00
92 T	p-Isopropyltoluene	2.6274	2.1158	19.5	73	0.00
93 T	1,3-Dichlorobenzene	1.5906	1.4044	11.7	80	0.00
94 T	1,4-Dichlorobenzene	1.6564	1.4099	14.9	81	0.00
95 T	n-Butylbenzene	2.2399	1.7153	23.4	70	0.00
96 T	1,2-Dichlorobenzene	1.4310	1.2520	12.5	81	0.00
97 T	1,2-Dibromo-3-Chloropropane	0.0675	0.0619	8.3	74	0.00
98 T	1,2,4-Trichlorobenzene	0.9884	0.7825	20.8	73	0.00
99 T	Hexachlorobutadiene	0.4286	0.3231	24.6	70	0.00
100 T	Naphthalene	1.5297	1.3882	9.2	82	0.00
101 T	1,2,3-Trichlorobenzene	0.8537	0.6573	23.0	73	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 1
 8M381037.D 8260WTR.M Wed Jul 25 11:38:56 2012

Page 2

Data File : C:\MSDCHEM\1\DATA\072512\8M381037.D Vial: 2
 Acq On : 25 Jul 2012 10:04 Operator: adc
 Sample : WG404415-02 50ug/L CCV STD 8260 Inst : HPMS8
 Misc : 1,1 STD52789 Multiplr: 1.00
 MS Integration Params: RTEINT.P

Method : C:\MSDCHEM\1\METHODS\8260WTR.M (RTE Integrator)
 Title : Method 8260B/624 WTR-SOP:OVLMSV01 06/28/12 HPMS 8
 Last Update : Fri Jun 29 09:29:43 2012
 Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
 Max. RRF Dev : 25% Max. Rel. Area : 150%

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1 I	Fluorobenzene	25.0000	25.0000	0.0	91	0.00
2 T	Dichlorodifluoromethane	50.0000	39.9423	20.1	75	0.00
3 P	Chloromethane	50.0000	31.4158	37.2#	64	0.00
4 C	Vinyl Chloride	50.0000	41.0786	17.8	67	0.00
5 T	1,3-Butadiene	50.0000	47.7713	4.5	83	0.00
6 T	Bromomethane	50.0000	45.4439	9.1	86	0.00
7 T	Chloroethane	50.0000	46.4953	7.0	86	0.00
8 T	Trichlorofluoromethane	50.0000	45.5042	9.0	85	0.00
9 T	Diethyl ether	100.0000	80.8070	19.2	70	0.00
10 T	Isoprene	50.0000	61.6962	-23.4	109	0.00
11 T	Acrolein	100.0000	81.7450	18.3	73	0.00
12 T	1,1,2-Trichloro-1,2,2-Trifl	50.0000	51.4757	-3.0	90	0.00
13 T	Acetone	50.0000	45.2940	9.4	82	0.00
14 C	1,1-Dichloroethene	50.0000	46.1567	7.7	84	0.00
15 T	Tert-Butyl Alcohol	200.0000	252.2193	-26.1#	113	0.00
16 T	Dimethyl Sulfide	50.0000	52.2301	-4.5	94	0.00
17 T	Iodomethane	50.0000	56.2040	-12.4	100	0.00
18 T	Methyl acetate	50.0000	47.0787	5.8	88	0.00
19 T	Methylene Chloride	50.0000	43.4626	13.1	84	0.00
20 T	Carbon Disulfide	50.0000	53.4442	-6.9	95	0.00
21 T	Acrylonitrile	50.0000	51.0334	-2.1	92	0.00
22 T	Methyl Tert Butyl Ether	50.0000	48.2820	3.4	86	0.00
23 T	trans-1,2-Dichloroethene	50.0000	47.5412	4.9	84	0.00
24 T	n-Hexane	50.0000	45.0882	9.8	80	0.00
25 T	Diisopropyl ether	100.0000	88.1448	11.9	77	0.00
26 T	Vinyl Acetate	50.0000	45.0228	10.0	84	0.00
27 P	1,1-Dichloroethane	50.0000	48.2125	3.6	86	0.00
28 T	Ethyl-Tert-Butyl ether	100.0000	89.4404	10.6	79	0.00
29 T	2-Butanone	50.0000	44.4478	11.1	83	0.00
30 T	Propionitrile	100.0000	115.3137	-15.3	94	0.00
31 T	2,2-Dichloropropane	50.0000	47.1065	5.8	85	0.00
32 T	cis-1,2-Dichloroethene	50.0000	50.9021	-1.8	91	0.00
33 C	Chloroform	50.0000	45.4665	9.1	84	0.00
34	1-Bromopropane	50.0000	58.8087	-17.6	100	0.00
35 T	Bromochloromethane	50.0000	50.3317	-0.7	90	0.00
36 T	Tetrahydrofuran	100.0000	109.5732	-9.6	95	0.00
37 S	Dibromofluoromethane	25.0000	25.1638	-0.7	87	0.00
38 T	1,1,1-Trichloroethane	50.0000	45.4426	9.1	83	0.00
39 T	Cyclohexane	50.0000	48.8955	2.2	88	0.00
40 T	1,1-Dichloropropene	50.0000	47.9311	4.1	86	0.00
41 T	Tert-Amyl-Methyl ether	100.0000	95.6283	4.4	86	0.00
42 T	Carbon Tetrachloride	50.0000	46.6839	6.6	84	0.00
43 S	1,2-Dichloroethane-d4	25.0000	20.8981	16.4	75	0.00
44	Heptane	50.0000	0.0000	100.0#	0	-2.46#
45 T	1,2-Dichloroethane	50.0000	40.4630	19.1	74	0.00
46 T	Benzene	50.0000	47.0241	6.0	88	0.00
47 T	Trichloroethene	50.0000	46.9824	6.0	89	0.00
48 T	Methylcyclohexane	50.0000	43.9987	12.0	78	0.00
49 C	1,2-Dichloropropane	50.0000	47.2744	5.5	88	0.00
50 T	Bromodichloromethane	50.0000	46.6616	6.7	85	0.00
51 T	1,4-Dioxane	200.0000	291.2989	-45.6#	127	0.00
52 T	Dibromomethane	50.0000	47.5904	4.8	86	0.00
53 T	2-Chloroethyl Vinyl Ether	50.0000	197.2022	-294.4#	346	0.00
54 T	4-Methyl-2-Pentanone	50.0000	47.0588	5.9	88	0.00
55 T	cis-1,3-Dichloropropene	50.0000	53.3956	-6.8	88	0.00

(#) = Out of Range

8M381037.D 8260WTR.M Wed Jul 25 11:38:53 2012

Page 1

Data File : C:\MSDCHEM\1\DATA\072512\8M381037.D Vial: 2
 Acq On : 25 Jul 2012 10:04 Operator: adc
 Sample : WG404415-02 50ug/L CCV STD 8260 Inst : HPMS8
 Misc : 1,1 STD52789 Multiplr: 1.00
 MS Integration Params: RTEINT.P

Method : C:\MSDCHEM\1\METHODS\8260WTR.M (RTE Integrator)
 Title : Method 8260B/624 WTR-SOP:OVLMSV01 06/28/12 HPMS 8
 Last Update : Fri Jun 29 09:29:43 2012
 Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
 Max. RRF Dev : 25% Max. Rel. Area : 150%

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
56 T	Dimethyl Disulfide	50.0000	44.8162	10.4	90	0.00
57 I	Chlorobenzene-d5	25.0000	25.0000	0.0	92	0.00
58 S	Toluene-d8	25.0000	24.8099	0.8	89	0.00
59 C	Toluene	50.0000	44.7860	10.4	85	0.00
60 T	Ethyl Methacrylate	50.0000	47.1828	5.6	83	0.00
61	Paraldehyde	100.0000	129.9040	-29.9#	119	0.00
62 T	trans-1,3-Dichloropropene	50.0000	48.7114	2.6	83	0.00
63 T	1,1,2-Trichloroethane	50.0000	48.4567	3.1	88	0.00
64 T	2-Hexanone	50.0000	46.6474	6.7	84	0.00
65 T	1,3-Dichloropropane	50.0000	47.4692	5.1	86	0.00
66 T	Tetrachloroethene	50.0000	44.1038	11.8	83	0.00
67 T	Dibromochloromethane	50.0000	49.3223	1.4	87	0.00
68 T	1,2-Dibromoethane	50.0000	49.2410	1.5	87	0.00
69 T	1-Chlorohexane	50.0000	45.0164	10.0	82	0.00
70 P	Chlorobenzene	50.0000	45.2476	9.5	85	0.00
71 T	1,1,1,2-Tetrachloroethane	50.0000	45.8903	8.2	83	0.00
72 C	Ethylbenzene	50.0000	43.1177	13.8	82	0.00
73 T	m-,p-Xylene	100.0000	86.8257	13.2	81	0.00
74 T	o-Xylene	50.0000	44.8006	10.4	83	0.00
75 T	Styrene	50.0000	45.0654	9.9	82	0.00
76 P	Bromoform	50.0000	48.3515	3.3	84	0.00
77 T	Isopropylbenzene	50.0000	41.9646	16.1	79	0.00
78 I	1,4-Dichlorobenzene-d4	25.0000	25.0000	0.0	89	0.00
79 P	1,1,2,2-Tetrachloroethane	50.0000	50.1877	-0.4	88	0.00
80 S	p-Bromofluorobenzene	25.0000	25.1714	-0.7	88	0.00
81 T	1,2,3-Trichloropropane	50.0000	49.3181	1.4	84	0.00
82 T	trans-1,4-Dichloro-2-Butene	50.0000	45.8808	8.2	81	0.00
83 T	n-Propylbenzene	50.0000	42.6057	14.8	78	0.00
84 T	Bromobenzene	50.0000	45.8685	8.3	84	0.00
85 T	1,3,5-Trimethylbenzene	50.0000	42.3263	15.3	76	0.00
86 T	2-Chlorotoluene	50.0000	46.2326	7.5	84	0.00
87 T	4-Chlorotoluene	50.0000	41.0002	18.0	75	0.00
88 T	a-Methylstyrene	50.0000	46.6338	6.7	81	0.00
89 T	tert-Butylbenzene	50.0000	41.7282	16.5	75	0.00
90 T	1,2,4-Trimethylbenzene	50.0000	41.8564	16.3	76	0.00
91 T	sec-Butylbenzene	50.0000	40.1047	19.8	73	0.00
92 T	p-Isopropyltoluene	50.0000	40.2651	19.5	73	0.00
93 T	1,3-Dichlorobenzene	50.0000	44.1465	11.7	80	0.00
94 T	1,4-Dichlorobenzene	50.0000	42.5589	14.9	81	0.00
95 T	n-Butylbenzene	50.0000	38.2908	23.4	70	0.00
96 T	1,2-Dichlorobenzene	50.0000	43.7433	12.5	81	0.00
97 T	1,2-Dibromo-3-Chloropropane	50.0000	45.8537	8.3	74	0.00
98 T	1,2,4-Trichlorobenzene	50.0000	39.5859	20.8	73	0.00
99 T	Hexachlorobutadiene	50.0000	37.6950	24.6	70	0.00
100 T	Naphthalene	50.0000	45.3765	9.2	82	0.00
101 T	1,2,3-Trichlorobenzene	50.0000	38.5012	23.0	73	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0
 8M381037.D 8260WTR.M Wed Jul 25 11:38:54 2012

Page 2

Data File : C:\MSDCHEM\1\DATA\073012\8M381190.D Vial: 2
 Acq On : 30 Jul 2012 11:15 Operator: ADC
 Sample : WG404913-02 50ug/L CCV 8260 Inst : HPMS8
 Misc : 1,1 STD53053 Multiplr: 1.00
 MS Integration Params: RTEINT.P
 Quant Time: Jul 30 11:41:11 2012 Quant Results File: 8260WTR.RES

Quant Method : C:\MSDCHEM\1\METHODS\8260WTR.M (RTE Integrator)
 Title : Method 8260B/624 WTR-SOP:OVLMSV01 06/28/12 HPMS 8
 Last Update : Fri Jun 29 09:29:43 2012
 Response via : Initial Calibration
 DataAcq Meth : 8260WTR

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene	10.18	96	629947	25.00	ug/L	0.00
57) Chlorobenzene-d5	14.03	117	502461	25.00	ug/L	0.00
78) 1,4-Dichlorobenzene-d4	17.04	152	266819	25.00	ug/L	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
37) Dibromofluoromethane	9.13	111	167846	24.7762	ug/L	0.00
Spiked Amount	25.000	Range 86 - 118	Recovery	=	99.12%	
43) 1,2-Dichloroethane-d4	9.77	65	127051	20.1243	ug/L	0.00
Spiked Amount	25.000	Range 80 - 120	Recovery	=	80.48%	
58) Toluene-d8	12.16	98	596408	25.9786	ug/L	0.00
Spiked Amount	25.000	Range 88 - 110	Recovery	=	103.92%	
80) p-Bromofluorobenzene	15.53	95	229702	25.9330	ug/L	0.00
Spiked Amount	25.000	Range 86 - 115	Recovery	=	103.72%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	2.82	85	372195	41.6191	ug/L	99
3) Chloromethane	3.21	50	390834	32.6427	ug/L	98
4) Vinyl Chloride	3.42	62	262389	40.5097	ug/L	100
5) 1,3-Butadiene	3.46	54	122486	48.6222	ug/L	97
6) Bromomethane	4.24	94	272406	48.9256	ug/L	98
7) Chloroethane	4.39	64	257263	45.2251	ug/L	97
8) Trichlorofluoromethane	4.89	101	597374	45.0966	ug/L	99
9) Diethyl ether	5.41	59	390713	98.2307	ug/L	97
10) Isoprene	5.44	67	584176	58.9656	ug/L	93
11) Acrolein	5.60	56	33802	61.8574	ug/L	99
12) 1,1,2-Trichloro-1,2,2-Trif	5.68	101	349566	51.2825	ug/L	100
13) Acetone	5.71	43	37710	34.8768	ug/L	86
14) 1,1-Dichloroethene	5.94	61	513715	45.3820	ug/L	90
15) Tert-Butyl Alcohol	6.07	59	30653	128.5045	ug/L	95
16) Dimethyl Sulfide	6.19	62	413250	49.8917	ug/L	90
17) Iodomethane	6.43	142	488657	55.2789	ug/L	92
18) Methyl acetate	6.47	43	191371	43.1843	ug/L	96
19) Methylene Chloride	6.71	84	292370	41.7845	ug/L	87
20) Carbon Disulfide	6.74	76	999015	51.9506	ug/L	99
21) Acrylonitrile	6.88	53	64513	43.0029	ug/L	99
22) Methyl Tert Butyl Ether	6.96	73	531058	43.7764	ug/L	100
23) trans-1,2-Dichloroethene	7.17	61	503754	47.4058	ug/L	93
24) n-Hexane	7.30	57	418506	45.1335	ug/L	95
25) Diisopropyl ether	7.64	45	2031020	88.8826	ug/L	95
26) Vinyl Acetate	7.77	43	183354	36.1434	ug/L	96
27) 1,1-Dichloroethane	7.79	63	625781	46.7374	ug/L	99
28) Ethyl-Tert-Butyl ether	8.21	59	1612507	86.9746	ug/L	97
29) 2-Butanone	8.35	43	60843	37.6357	ug/L	97
30) Propionitrile	8.44	54	41984	91.2409	ug/L	98
31) 2,2-Dichloropropane	8.58	77	508380	46.0847	ug/L	100
32) cis-1,2-Dichloroethene	8.63	96	359191	49.2590	ug/L	89
33) Chloroform	8.84	83	531709	43.9941	ug/L	100
34) 1-Bromopropane	8.98	122	74011	58.7903	ug/L	96
35) Bromochloromethane	9.07	130	204528	47.6226	ug/L	93
36) Tetrahydrofuran	9.10	42	84169	87.6682	ug/L	96
38) 1,1,1-Trichloroethane	9.38	97	517929	44.5654	ug/L	99
39) Cyclohexane	9.43	56	595187	48.1945	ug/L	99
40) 1,1-Dichloropropene	9.58	75	448338	46.4366	ug/L	96
41) Tert-Amyl-Methyl ether	9.71	73	1160390	88.3853	ug/L	96
42) Carbon Tetrachloride	9.72	117	512218	46.2627	ug/L	99
45) 1,2-Dichloroethane	9.88	62	319648	37.8360	ug/L	98

(#) = qualifier out of range (m) = manual integration
 8M381190.D 8260WTR.M Mon Jul 30 11:41:12 2012

Data File : C:\MSDCHEM\1\DATA\073012\8M381190.D Vial: 2
 Acq On : 30 Jul 2012 11:15 Operator: ADC
 Sample : WG404913-02 50ug/L CCV 8260 Inst : HPMS8
 Misc : 1,1 STD53053 Multiplr: 1.00
 MS Integration Params: RTEINT.P
 Quant Time: Jul 30 11:41:11 2012 Quant Results File: 8260WTR.RES

Quant Method : C:\MSDCHEM\1\METHODS\8260WTR.M (RTE Integrator)
 Title : Method 8260B/624 WTR-SOP:OVLMSV01 06/28/12 HPMS 8
 Last Update : Fri Jun 29 09:29:43 2012
 Response via : Initial Calibration
 DataAcq Meth : 8260WTR

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
46) Benzene	9.92	78	1240103	45.3809	ug/L	95
47) Trichloroethene	10.69	130	380803	44.9562	ug/L	98
48) Methylcyclohexane	10.79	83	420514	44.2600	ug/L	95
49) 1,2-Dichloropropane	10.90	63	331185	44.6787	ug/L	95
50) Bromodichloromethane	11.19	83	378716	43.9452	ug/L	99
51) 1,4-Dioxane	11.18	88	2945	103.5169	ug/L	85
52) Dibromomethane	11.26	93	141603	43.4730	ug/L	97
53) 2-Chloroethyl Vinyl Ether	11.51	63	133653	179.1532	ug/L	95
54) 4-Methyl-2-Pentanone	11.54	58	56055	40.2863	ug/L	97
55) cis-1,3-Dichloropropene	11.83	75	469699	50.0021	ug/L	100
56) Dimethyl Disulfide	12.09	94	511874	42.0679	ug/L	98
59) Toluene	12.25	91	1338789	45.7876	ug/L	100
60) Ethyl Methacrylate	12.38	69	214918	44.4169	ug/L	87
61) Paraldehyde	12.41	89	6406	97.5117	ug/L	86
62) trans-1,3-Dichloropropene	12.43	75	372014	48.3569	ug/L	99
63) 1,1,2-Trichloroethane	12.64	97	194509	46.7952	ug/L	98
64) 2-Hexanone	12.60	58	50241	42.5684	ug/L	88
65) 1,3-Dichloropropane	12.94	76	335346	45.8337	ug/L	85
66) Tetrachloroethene	13.08	164	324205	45.5255	ug/L	97
67) Dibromochloromethane	13.32	129	295887	48.1829	ug/L	99
68) 1,2-Dibromoethane	13.56	107	206735	46.9788	ug/L	98
69) 1-Chlorohexane	13.70	91	433545	46.8040	ug/L	91
70) Chlorobenzene	14.08	112	918199	45.7257	ug/L	95
71) 1,1,1,2-Tetrachloroethane	14.11	131	349276	45.7411	ug/L	100
72) Ethylbenzene	14.12	106	521726	44.7834	ug/L	97
73) m-,p-Xylene	14.22	106	1253198	88.4448	ug/L	97
74) o-Xylene	14.76	106	622508	44.6178	ug/L	98
75) Styrene	14.80	104	1022493	45.1290	ug/L	96
76) Bromoform	15.26	173	174993	45.8722	ug/L	99
77) Isopropylbenzene	15.20	105	1493911	43.0149	ug/L	100
79) 1,1,2,2-Tetrachloroethane	15.39	83	195614	48.9458	ug/L	99
81) 1,2,3-Trichloropropane	15.59	110	60026	47.7530	ug/L	89
82) trans-1,4-Dichloro-2-Butene	15.64	53	59021	45.3482	ug/L	79
83) n-Propylbenzene	15.70	91	1639152	45.5289	ug/L	99
84) Bromobenzene	15.81	156	406252	47.9083	ug/L	95
85) 1,3,5-Trimethylbenzene	15.89	105	1238102	45.0016	ug/L	98
86) 2-Chlorotoluene	15.96	91	1069861	46.3458	ug/L	98
87) 4-Chlorotoluene	16.01	91	1060863	44.8297	ug/L	98
88) a-Methylstyrene	16.28	118	765586	49.0344	ug/L	99
89) tert-Butylbenzene	16.36	134	272810	44.2110	ug/L	91
90) 1,2,4-Trimethylbenzene	16.41	105	1261875	44.7292	ug/L	99
91) sec-Butylbenzene	16.62	105	1378005	43.0407	ug/L	100
92) p-Isopropyltoluene	16.78	119	1206649	43.0310	ug/L	100
93) 1,3-Dichlorobenzene	16.96	146	784160	46.1912	ug/L	98
94) 1,4-Dichlorobenzene	17.08	146	784255	44.3619	ug/L	99
95) n-Butylbenzene	17.31	91	985180	41.2113	ug/L	99
96) 1,2-Dichlorobenzene	17.57	146	682502	44.6864	ug/L	99
97) 1,2-Dibromo-3-Chloropropane	18.55	75	30638	42.5362	ug/L	84
98) 1,2,4-Trichlorobenzene	19.70	180	427876	40.5618	ug/L	100
99) Hexachlorobutadiene	19.86	225	188662	41.2458	ug/L	99
100) Naphthalene	20.05	128	707115	43.3131	ug/L	99
101) 1,2,3-Trichlorobenzene	20.36	180	347303	38.1187	ug/L	99

(#) = qualifier out of range (m) = manual integration
 8M381190.D 8260WTR.M Mon Jul 30 11:41:12 2012

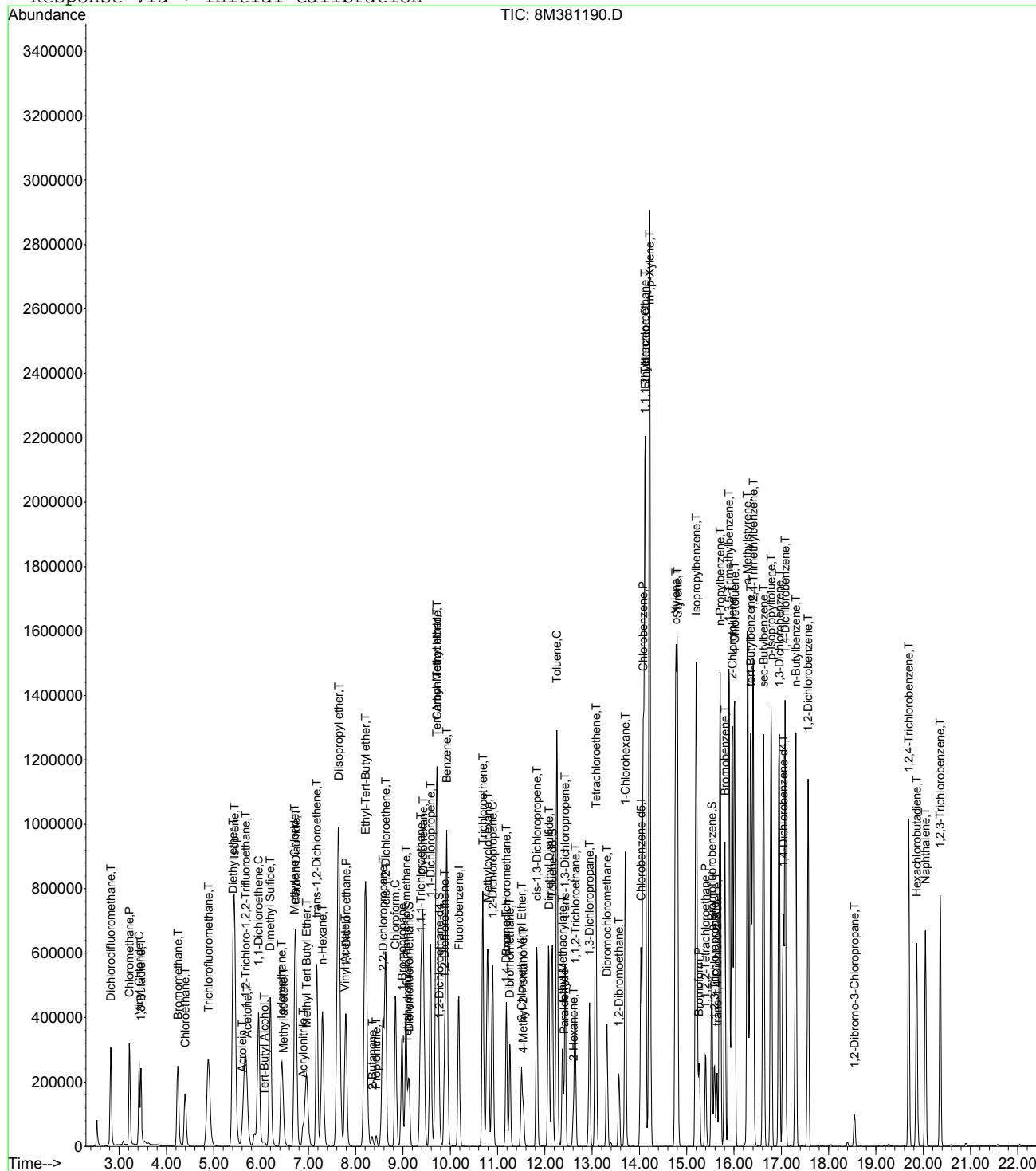
Page 2

Data File : C:\MSDCHEM\1\DATA\073012\8M381190.D
Acq On : 30 Jul 2012 11:15
Sample : WG404913-02 50ug/L CCV 8260
Misc : 1,1 STD53053
MS Integration Params: RTEINT.P
Quant Time: Jul 30 11:41 2012

Vial: 2
Operator: ADC
Inst : HPMS8
Multiplr: 1.00

Quant Results File: 8260WTR.RES

Method : C:\MSDCHEM\1\METHODS\8260WTR.M (RTE Integrator)
Title : Method 8260B/624 WTR-SOP:OVLMSV01 06/28/12 HPMS 8
Last Update : Fri Jun 29 09:29:43 2012
Response via : Initial Calibration



Data File : C:\MSDCHEM\1\DATA\073012\8M381190.D Vial: 2
 Acq On : 30 Jul 2012 11:15 Operator: ADC
 Sample : WG404913-02 50ug/L CCV 8260 Inst : HPMS8
 Misc : 1,1 STD53053 Multiplr: 1.00
 MS Integration Params: RTEINT.P

Method : C:\MSDCHEM\1\METHODS\8260WTR.M (RTE Integrator)
 Title : Method 8260B/624 WTR-SOP:OVLMSV01 06/28/12 HPMS 8
 Last Update : Fri Jun 29 09:29:43 2012
 Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
 Max. RRF Dev : 25% Max. Rel. Area : 150%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1 I	Fluorobenzene	1.0000	1.0000	0.0	92	0.00
2 T	Dichlorodifluoromethane	0.3549	0.2954	16.8	79	0.00
3 P	Chloromethane	0.4752	0.3102	34.7#	67	0.00
4 C	Vinyl Chloride	0.3142	0.2083	33.7#	67	0.00
5 T	1,3-Butadiene	0.1308	0.0972	25.7#	85	0.00
6 T	Bromomethane	0.2210	0.2162	2.1	94	0.00
7 T	Chloroethane	0.2258	0.2042	9.6	84	0.00
8 T	Trichlorofluoromethane	0.5257	0.4742	9.8	85	0.00
9 T	Diethyl ether	0.1578	0.1551	1.8	86	0.00
10 T	Isoprene	0.3932	0.4637	-17.9	105	0.00
11 T	Acrolein	0.0217	0.0134	38.2#	56	0.00
12 T	1,1,2-Trichloro-1,2,2-Trifl	0.2705	0.2775	-2.6	90	0.00
13 T	Acetone	0.0429	0.0299	30.2#	64	-0.01
14 C	1,1-Dichloroethene	0.4492	0.4077	9.2	84	0.00
15 T	Tert-Butyl Alcohol	0.0095	0.0061	35.8#	58	-0.01
16 T	Dimethyl Sulfide	0.3287	0.3280	0.2	91	-0.01
17 T	Iodomethane	0.2893	0.3879	-34.1#	99	0.00
18 T	Methyl acetate	0.1759	0.1519	13.6	82	0.00
19 T	Methylene Chloride	0.2777	0.2321	16.4	82	0.00
20 T	Carbon Disulfide	0.7632	0.7929	-3.9	93	0.00
21 T	Acrylonitrile	0.0595	0.0512	14.0	79	0.00
22 T	Methyl Tert Butyl Ether	0.4814	0.4215	12.4	78	0.00
23 T	trans-1,2-Dichloroethene	0.4217	0.3998	5.2	85	0.00
24 T	n-Hexane	0.3680	0.3322	9.7	81	0.00
25 T	Diisopropyl ether	0.9069	0.8060	11.1	79	0.00
26 T	Vinyl Acetate	0.1728	0.1455	15.8	68	0.00
27 P	1,1-Dichloroethane	0.5314	0.4967	6.5	84	0.00
28 T	Ethyl-Tert-Butyl ether	0.7358	0.6399	13.0	77	0.00
29 T	2-Butanone	0.0642	0.0483	24.7	71	0.00
30 T	Propionitrile	0.0183	0.0167	8.8	75	0.00
31 T	2,2-Dichloropropane	0.4378	0.4035	7.8	84	0.00
32 T	cis-1,2-Dichloroethene	0.2894	0.2851	1.5	89	0.00
33 C	Chloroform	0.4796	0.4220	12.0	82	-0.01
34	1-Bromopropane	0.0476	0.0587	-23.5	101	0.00
35 T	Bromochloromethane	0.1704	0.1623	4.8	86	0.00
36 T	Tetrahydrofuran	0.0381	0.0334	12.3	76	0.00
37 S	Dibromofluoromethane	0.2688	0.2664	0.9	87	0.00
38 T	1,1,1-Trichloroethane	0.4612	0.4111	10.9	82	-0.01
39 T	Cyclohexane	0.4901	0.4724	3.6	88	0.00
40 T	1,1-Dichloropropene	0.3832	0.3559	7.1	84	0.00
41 T	Tert-Amyl-Methyl ether	0.5210	0.4605	11.6	80	0.00
42 T	Carbon Tetrachloride	0.4394	0.4066	7.5	84	-0.01
43 S	1,2-Dichloroethane-d4	0.2505	0.2017	19.5	73	0.00
44	Heptane	0.0000	0.0000	0.0	0#	-2.46#
45 T	1,2-Dichloroethane	0.3353	0.2537	24.3	70	0.00
46 T	Benzene	1.0845	0.9843	9.2	86	0.00
47 T	Trichloroethene	0.3362	0.3023	10.1	86	0.00
48 T	Methylcyclohexane	0.3771	0.3338	11.5	80	0.00
49 C	1,2-Dichloropropane	0.2942	0.2629	10.6	84	0.00
50 T	Bromodichloromethane	0.3420	0.3006	12.1	81	0.00
51 T	1,4-Dioxane	0.0011	0.0006	48.7#	46#	0.00
52 T	Dibromomethane	0.1293	0.1124	13.1	80	0.00
53 T	2-Chloroethyl Vinyl Ether	0.0296	0.1061	-258.3#	317#	0.00
54 T	4-Methyl-2-Pentanone	0.0552	0.0445	19.4	76	-0.01
55 T	cis-1,3-Dichloropropene	0.3728	0.3728	-0.0	83	0.00

(#) = Out of Range

8M381190.D 8260WTR.M Mon Jul 30 11:41:24 2012

Page 1

Data File : C:\MSDCHEM\1\DATA\073012\8M381190.D Vial: 2
 Acq On : 30 Jul 2012 11:15 Operator: ADC
 Sample : WG404913-02 50ug/L CCV 8260 Inst : HPMS8
 Misc : 1,1 STD53053 Multiplr: 1.00
 MS Integration Params: RTEINT.P

Method : C:\MSDCHEM\1\METHODS\8260WTR.M (RTE Integrator)
 Title : Method 8260B/624 WTR-SOP:OVLMSV01 06/28/12 HPMS 8
 Last Update : Fri Jun 29 09:29:43 2012
 Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
 Max. RRF Dev : 25% Max. Rel. Area : 150%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
56 T	Dimethyl Disulfide	0.4003	0.4063	-1.5	85	0.00
57 I	Chlorobenzene-d5	1.0000	1.0000	0.0	87	0.00
58 S	Toluene-d8	1.1423	1.1870	-3.9	88	0.00
59 C	Toluene	1.4548	1.3322	8.4	82	0.00
60 T	Ethyl Methacrylate	0.2407	0.2139	11.2	74	0.00
61	Paraldehyde	0.0033	0.0032	2.4	84	0.00
62 T	trans-1,3-Dichloropropene	0.3828	0.3702	3.3	77	0.00
63 T	1,1,2-Trichloroethane	0.2068	0.1936	6.4	81	0.00
64 T	2-Hexanone	0.0587	0.0500	14.9	72	0.00
65 T	1,3-Dichloropropane	0.3640	0.3337	8.3	78	0.00
66 T	Tetrachloroethene	0.3543	0.3226	8.9	81	0.00
67 T	Dibromochloromethane	0.3055	0.2944	3.6	80	0.00
68 T	1,2-Dibromoethane	0.2190	0.2057	6.0	79	0.00
69 T	1-Chlorohexane	0.4609	0.4314	6.4	81	0.00
70 P	Chlorobenzene	0.9991	0.9137	8.5	81	0.00
71 T	1,1,1,2-Tetrachloroethane	0.3799	0.3476	8.5	78	-0.01
72 C	Ethylbenzene	0.5797	0.5192	10.4	80	0.00
73 T	m-,p-Xylene	0.7050	0.6235	11.6	78	0.00
74 T	o-Xylene	0.6942	0.6195	10.8	78	-0.01
75 T	Styrene	1.1273	1.0175	9.7	77	0.00
76 P	Bromoform	0.1898	0.1741	8.3	76	-0.01
77 T	Isopropylbenzene	1.7280	1.4866	14.0	77	0.00
78 I	1,4-Dichlorobenzene-d4	1.0000	1.0000	0.0	80	0.00
79 P	1,1,2,2-Tetrachloroethane	0.3329	0.3666	-10.1	77	-0.01
80 S	p-Bromofluorobenzene	0.8299	0.8609	-3.7	81	0.00
81 T	1,2,3-Trichloropropane	0.1178	0.1125	4.5	73	0.00
82 T	trans-1,4-Dichloro-2-Butene	0.0962	0.1106	-14.9	72	0.00
83 T	n-Propylbenzene	3.3733	3.0717	8.9	75	0.00
84 T	Bromobenzene	0.7945	0.7613	4.2	79	0.00
85 T	1,3,5-Trimethylbenzene	2.5778	2.3201	10.0	73	-0.01
86 T	2-Chlorotoluene	2.1629	2.0048	7.3	76	0.00
87 T	4-Chlorotoluene	2.2173	1.9880	10.3	74	0.00
88 T	a-Methylstyrene	1.4629	1.4347	1.9	76	-0.01
89 T	tert-Butylbenzene	0.5782	0.5112	11.6	72	0.00
90 T	1,2,4-Trimethylbenzene	2.6433	2.3647	10.5	73	0.00
91 T	sec-Butylbenzene	2.9998	2.5823	13.9	71	0.00
92 T	p-Isopropyltoluene	2.6274	2.2612	13.9	70	-0.01
93 T	1,3-Dichlorobenzene	1.5906	1.4695	7.6	75	0.00
94 T	1,4-Dichlorobenzene	1.6564	1.4696	11.3	76	0.00
95 T	n-Butylbenzene	2.2399	1.8462	17.6	68	0.00
96 T	1,2-Dichlorobenzene	1.4310	1.2790	10.6	75	0.00
97 T	1,2-Dibromo-3-Chloropropane	0.0675	0.0574	14.9	62	0.00
98 T	1,2,4-Trichlorobenzene	0.9884	0.8018	18.9	67	0.00
99 T	Hexachlorobutadiene	0.4286	0.3535	17.5	69	0.00
100 T	Naphthalene	1.5297	1.3251	13.4	70	0.00
101 T	1,2,3-Trichlorobenzene	0.8537	0.6508	23.8	65	-0.01

(#) = Out of Range SPCC's out = 0 CCC's out = 1
 8M381190.D 8260WTR.M Mon Jul 30 11:41:25 2012

Page 2

Data File : C:\MSDCHEM\1\DATA\073012\8M381190.D Vial: 2
 Acq On : 30 Jul 2012 11:15 Operator: ADC
 Sample : WG404913-02 50ug/L CCV 8260 Inst : HPMS8
 Misc : 1,1 STD53053 Multiplr: 1.00
 MS Integration Params: RTEINT.P

Method : C:\MSDCHEM\1\METHODS\8260WTR.M (RTE Integrator)
 Title : Method 8260B/624 WTR-SOP:OVLMSV01 06/28/12 HPMS 8
 Last Update : Fri Jun 29 09:29:43 2012
 Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
 Max. RRF Dev : 25% Max. Rel. Area : 150%

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1 I	Fluorobenzene	25.0000	25.0000	0.0	92	0.00
2 T	Dichlorodifluoromethane	50.0000	41.6191	16.8	79	0.00
3 P	Chloromethane	50.0000	32.6427	34.7#	67	0.00
4 C	Vinyl Chloride	50.0000	40.5097	19.0	67	0.00
5 T	1,3-Butadiene	50.0000	48.6222	2.8	85	0.00
6 T	Bromomethane	50.0000	48.9256	2.1	94	0.00
7 T	Chloroethane	50.0000	45.2251	9.5	84	0.00
8 T	Trichlorofluoromethane	50.0000	45.0966	9.8	85	0.00
9 T	Diethyl ether	100.0000	98.2307	1.8	86	0.00
10 T	Isoprene	50.0000	58.9656	-17.9	105	0.00
11 T	Acrolein	100.0000	61.8574	38.1#	56	0.00
12 T	1,1,2-Trichloro-1,2,2-Trifl	50.0000	51.2825	-2.6	90	0.00
13 T	Acetone	50.0000	34.8768	30.2#	64	-0.01
14 C	1,1-Dichloroethene	50.0000	45.3820	9.2	84	0.00
15 T	Tert-Butyl Alcohol	200.0000	128.5045	35.7#	58	-0.01
16 T	Dimethyl Sulfide	50.0000	49.8916	0.2	91	-0.01
17 T	Iodomethane	50.0000	55.2789	-10.6	99	0.00
18 T	Methyl acetate	50.0000	43.1843	13.6	82	0.00
19 T	Methylene Chloride	50.0000	41.7845	16.4	82	0.00
20 T	Carbon Disulfide	50.0000	51.9506	-3.9	93	0.00
21 T	Acrylonitrile	50.0000	43.0029	14.0	79	0.00
22 T	Methyl Tert Butyl Ether	50.0000	43.7764	12.4	78	0.00
23 T	trans-1,2-Dichloroethene	50.0000	47.4058	5.2	85	0.00
24 T	n-Hexane	50.0000	45.1335	9.7	81	0.00
25 T	Diisopropyl ether	100.0000	88.8826	11.1	79	0.00
26 T	Vinyl Acetate	50.0000	36.1434	27.7#	68	0.00
27 P	1,1-Dichloroethane	50.0000	46.7374	6.5	84	0.00
28 T	Ethyl-Tert-Butyl ether	100.0000	86.9746	13.0	77	0.00
29 T	2-Butanone	50.0000	37.6357	24.7	71	0.00
30 T	Propionitrile	100.0000	91.2409	8.8	75	0.00
31 T	2,2-Dichloropropane	50.0000	46.0847	7.8	84	0.00
32 T	cis-1,2-Dichloroethene	50.0000	49.2590	1.5	89	0.00
33 C	Chloroform	50.0000	43.9941	12.0	82	-0.01
34	1-Bromopropane	50.0000	58.7903	-17.6	101	0.00
35 T	Bromochloromethane	50.0000	47.6226	4.8	86	0.00
36 T	Tetrahydrofuran	100.0000	87.6682	12.3	76	0.00
37 S	Dibromofluoromethane	25.0000	24.7762	0.9	87	0.00
38 T	1,1,1-Trichloroethane	50.0000	44.5654	10.9	82	-0.01
39 T	Cyclohexane	50.0000	48.1945	3.6	88	0.00
40 T	1,1-Dichloropropene	50.0000	46.4366	7.1	84	0.00
41 T	Tert-Amyl-Methyl ether	100.0000	88.3853	11.6	80	0.00
42 T	Carbon Tetrachloride	50.0000	46.2627	7.5	84	-0.01
43 S	1,2-Dichloroethane-d4	25.0000	20.1243	19.5	73	0.00
44	Heptane	50.0000	0.0000	100.0#	0	-2.46#
45 T	1,2-Dichloroethane	50.0000	37.8360	24.3	70	0.00
46 T	Benzene	50.0000	45.3809	9.2	86	0.00
47 T	Trichloroethene	50.0000	44.9562	10.1	86	0.00
48 T	Methylcyclohexane	50.0000	44.2600	11.5	80	0.00
49 C	1,2-Dichloropropane	50.0000	44.6787	10.6	84	0.00
50 T	Bromodichloromethane	50.0000	43.9452	12.1	81	0.00
51 T	1,4-Dioxane	200.0000	103.5169	48.2#	46	0.00
52 T	Dibromomethane	50.0000	43.4730	13.1	80	0.00
53 T	2-Chloroethyl Vinyl Ether	50.0000	179.1532	-258.3#	317	0.00
54 T	4-Methyl-2-Pentanone	50.0000	40.2863	19.4	76	-0.01
55 T	cis-1,3-Dichloropropene	50.0000	50.0021	-0.0	83	0.00

(#) = Out of Range

8M381190.D 8260WTR.M Mon Jul 30 11:41:23 2012

Page 1

Data File : C:\MSDCHEM\1\DATA\073012\8M381190.D Vial: 2
 Acq On : 30 Jul 2012 11:15 Operator: ADC
 Sample : WG404913-02 50ug/L CCV 8260 Inst : HPMS8
 Misc : 1,1 STD53053 Multiplr: 1.00
 MS Integration Params: RTEINT.P

Method : C:\MSDCHEM\1\METHODS\8260WTR.M (RTE Integrator)
 Title : Method 8260B/624 WTR-SOP:OVLMSV01 06/28/12 HPMS 8
 Last Update : Fri Jun 29 09:29:43 2012
 Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
 Max. RRF Dev : 25% Max. Rel. Area : 150%

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
56 T	Dimethyl Disulfide	50.0000	42.0679	15.9	85	0.00
57 I	Chlorobenzene-d5	25.0000	25.0000	0.0	87	0.00
58 S	Toluene-d8	25.0000	25.9786	-3.9	88	0.00
59 C	Toluene	50.0000	45.7876	8.4	82	0.00
60 T	Ethyl Methacrylate	50.0000	44.4170	11.2	74	0.00
61	Paraldehyde	100.0000	97.5117	2.5	84	0.00
62 T	trans-1,3-Dichloropropene	50.0000	48.3569	3.3	77	0.00
63 T	1,1,2-Trichloroethane	50.0000	46.7952	6.4	81	0.00
64 T	2-Hexanone	50.0000	42.5684	14.9	72	0.00
65 T	1,3-Dichloropropane	50.0000	45.8337	8.3	78	0.00
66 T	Tetrachloroethene	50.0000	45.5255	8.9	81	0.00
67 T	Dibromochloromethane	50.0000	48.1829	3.6	80	0.00
68 T	1,2-Dibromoethane	50.0000	46.9788	6.0	79	0.00
69 T	1-Chlorohexane	50.0000	46.8040	6.4	81	0.00
70 P	Chlorobenzene	50.0000	45.7257	8.5	81	0.00
71 T	1,1,1,2-Tetrachloroethane	50.0000	45.7411	8.5	78	-0.01
72 C	Ethylbenzene	50.0000	44.7834	10.4	80	0.00
73 T	m-,p-Xylene	100.0000	88.4448	11.6	78	0.00
74 T	o-Xylene	50.0000	44.6178	10.8	78	-0.01
75 T	Styrene	50.0000	45.1290	9.7	77	0.00
76 P	Bromoform	50.0000	45.8722	8.3	76	-0.01
77 T	Isopropylbenzene	50.0000	43.0149	14.0	77	0.00
78 I	1,4-Dichlorobenzene-d4	25.0000	25.0000	0.0	80	0.00
79 P	1,1,2,2-Tetrachloroethane	50.0000	48.9458	2.1	77	-0.01
80 S	p-Bromofluorobenzene	25.0000	25.9330	-3.7	81	0.00
81 T	1,2,3-Trichloropropane	50.0000	47.7530	4.5	73	0.00
82 T	trans-1,4-Dichloro-2-Butene	50.0000	45.3482	9.3	72	0.00
83 T	n-Propylbenzene	50.0000	45.5289	8.9	75	0.00
84 T	Bromobenzene	50.0000	47.9083	4.2	79	0.00
85 T	1,3,5-Trimethylbenzene	50.0000	45.0016	10.0	73	-0.01
86 T	2-Chlorotoluene	50.0000	46.3458	7.3	76	0.00
87 T	4-Chlorotoluene	50.0000	44.8297	10.3	74	0.00
88 T	a-Methylstyrene	50.0000	49.0344	1.9	76	-0.01
89 T	tert-Butylbenzene	50.0000	44.2110	11.6	72	0.00
90 T	1,2,4-Trimethylbenzene	50.0000	44.7293	10.5	73	0.00
91 T	sec-Butylbenzene	50.0000	43.0407	13.9	71	0.00
92 T	p-Isopropyltoluene	50.0000	43.0310	13.9	70	-0.01
93 T	1,3-Dichlorobenzene	50.0000	46.1912	7.6	75	0.00
94 T	1,4-Dichlorobenzene	50.0000	44.3620	11.3	76	0.00
95 T	n-Butylbenzene	50.0000	41.2113	17.6	68	0.00
96 T	1,2-Dichlorobenzene	50.0000	44.6864	10.6	75	0.00
97 T	1,2-Dibromo-3-Chloropropane	50.0000	42.5362	14.9	62	0.00
98 T	1,2,4-Trichlorobenzene	50.0000	40.5618	18.9	67	0.00
99 T	Hexachlorobutadiene	50.0000	41.2458	17.5	69	0.00
100 T	Naphthalene	50.0000	43.3130	13.4	70	0.00
101 T	1,2,3-Trichlorobenzene	50.0000	38.1187	23.8	65	-0.01

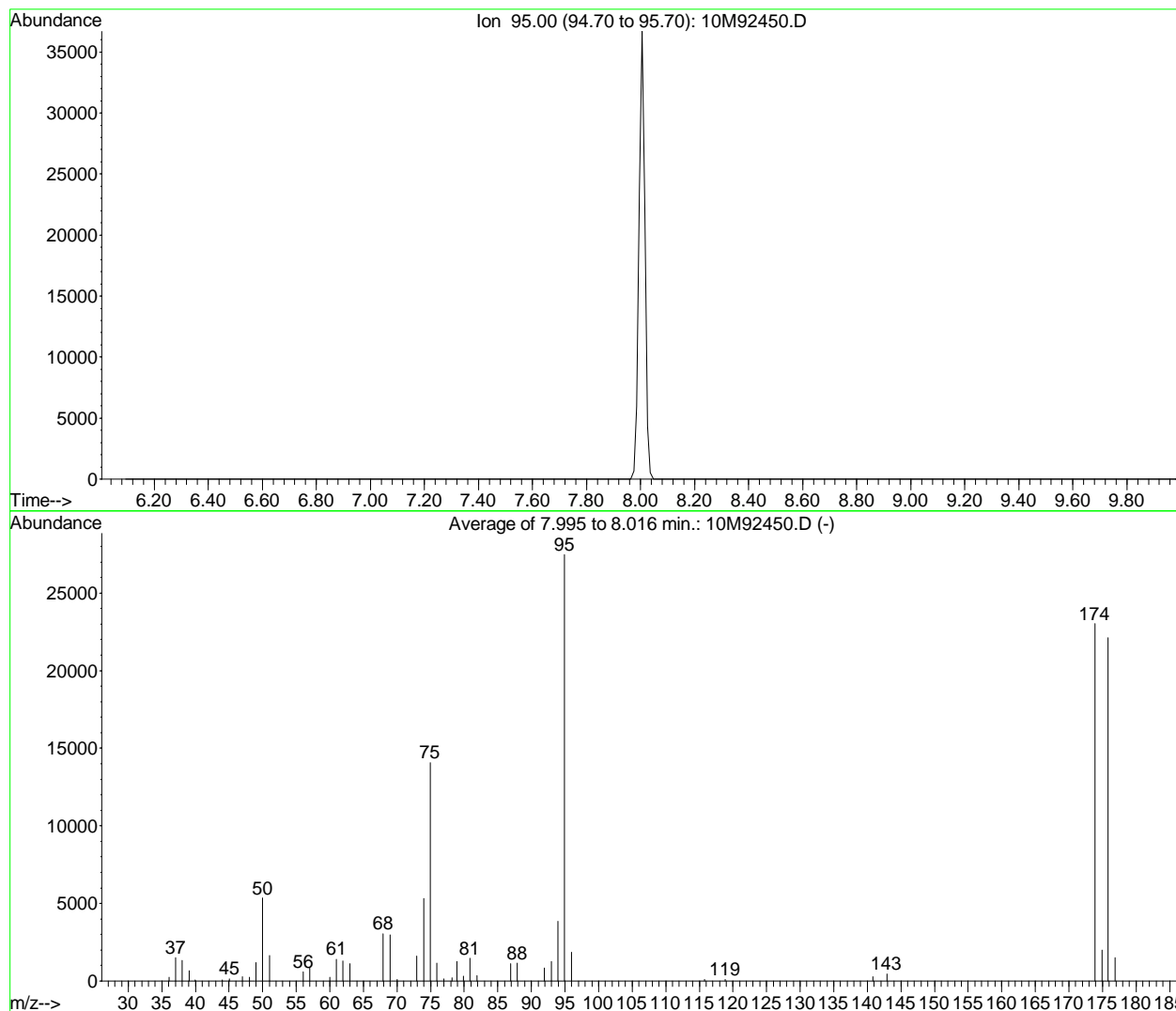
(#) = Out of Range SPCC's out = 0 CCC's out = 0
 8M381190.D 8260WTR.M Mon Jul 30 11:41:23 2012

Page 2

2.1.1.5 Raw QC Data

BFB

Data File : C:\MSDCHEM\1\DATA\011012\10M92450.D Vial: 1
 Acq On : 10 Jan 2012 12:09 Operator: TMB
 Sample : WG386582-01 50ng BFB STD 8260 Inst : HPMS10
 Misc : 1,1 STD49071 Multiplr: 1.00
 MS Integration Params: RTEINT.P
 Method : C:\MSDCHEM\1\METHODS\BFB.M (RTE Integrator)
 Title : BFB (SOP:OVL MSV01)



AutoFind: Scans 185, 186, 187; Background Corrected with Scan 180

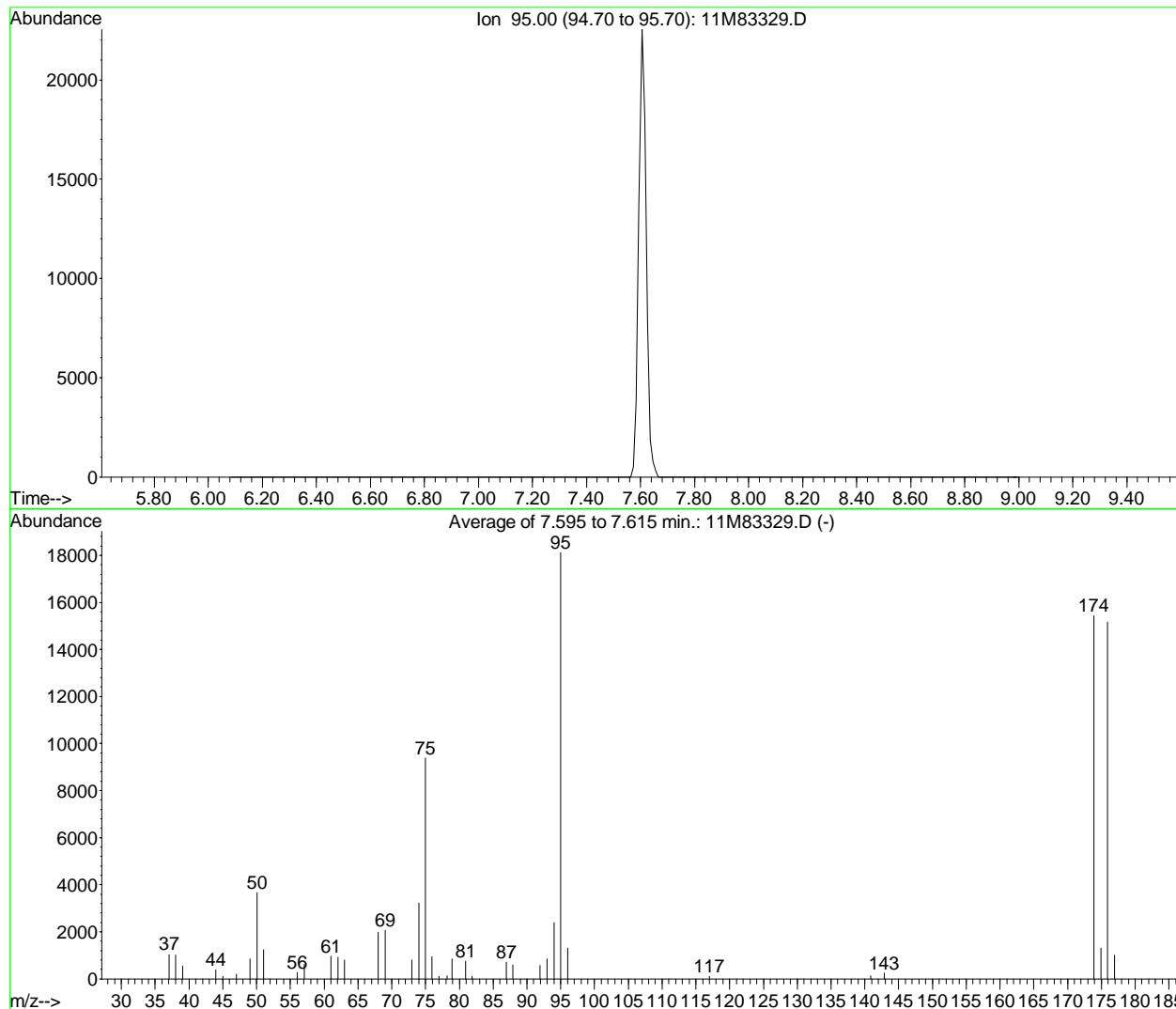
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	19.5	5346	PASS
75	95	30	60	51.2	14073	PASS
95	95	100	100	100.0	27466	PASS
96	95	5	9	6.8	1858	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	100	83.8	23029	PASS
175	174	5	9	8.6	1984	PASS
176	174	95	101	96.1	22127	PASS
177	176	5	9	6.8	1498	PASS

10M92450.D BFB.M Tue Jan 10 12:20:34 2012



BFB

Data File : C:\MSDCHEM\1\DATA\050312\11M83329.D Vial: 3
 Acq On : 3 May 2012 16:30 Operator: ADC
 Sample : WG396851-01 BFB 50ng 8260 Inst : HPMS11
 Misc : 1,1 STD51241 Multiplr: 1.00
 MS Integration Params: rteint.p
 Method : C:\MSDCHEM\1\METHODS\8260WTR.M (RTE Integrator)
 Title : 8260B/624 (SOP: OVL MSV01) Water 05/03/12 HPMS11



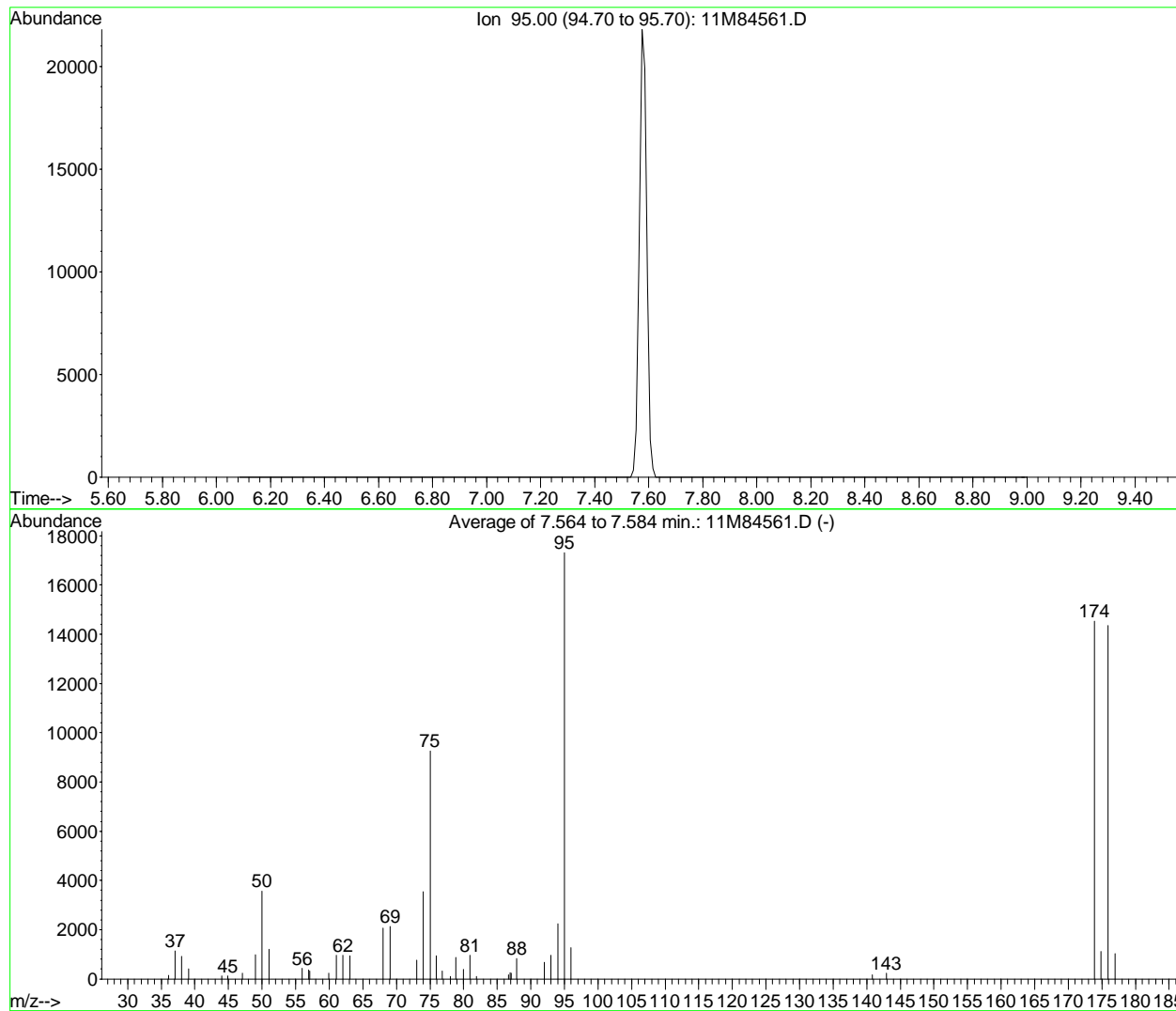
AutoFind: Scans 147, 148, 149; Background Corrected with Scan 142

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	20.3	3670	PASS
75	95	30	60	51.8	9391	PASS
95	95	100	100	100.0	18119	PASS
96	95	5	9	7.2	1313	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	100	85.2	15443	PASS
175	174	5	9	8.5	1311	PASS
176	174	95	101	98.2	15168	PASS
177	176	5	9	6.6	1006	PASS

11M83329.D 8260WTR.M Fri May 04 12:18:18 2012

BFB

Data File : C:\MSDCHEM\1\DATA\061412\11M84561.D Vial: 1
 Acq On : 14 Jun 2012 16:36 Operator: fjb
 Sample : WG402310-01 BFB 50ng 6200 Inst : HPMS11
 Misc : 1,1 STD51824 Multiplr: 1.00
 MS Integration Params: rteint.p
 Method : C:\MSDCHEM\1\METHODS\8260WTR.M (RTE Integrator)
 Title : 8260B/624 (SOP: OVL MSV01) Water 05/03/12 HPMS11



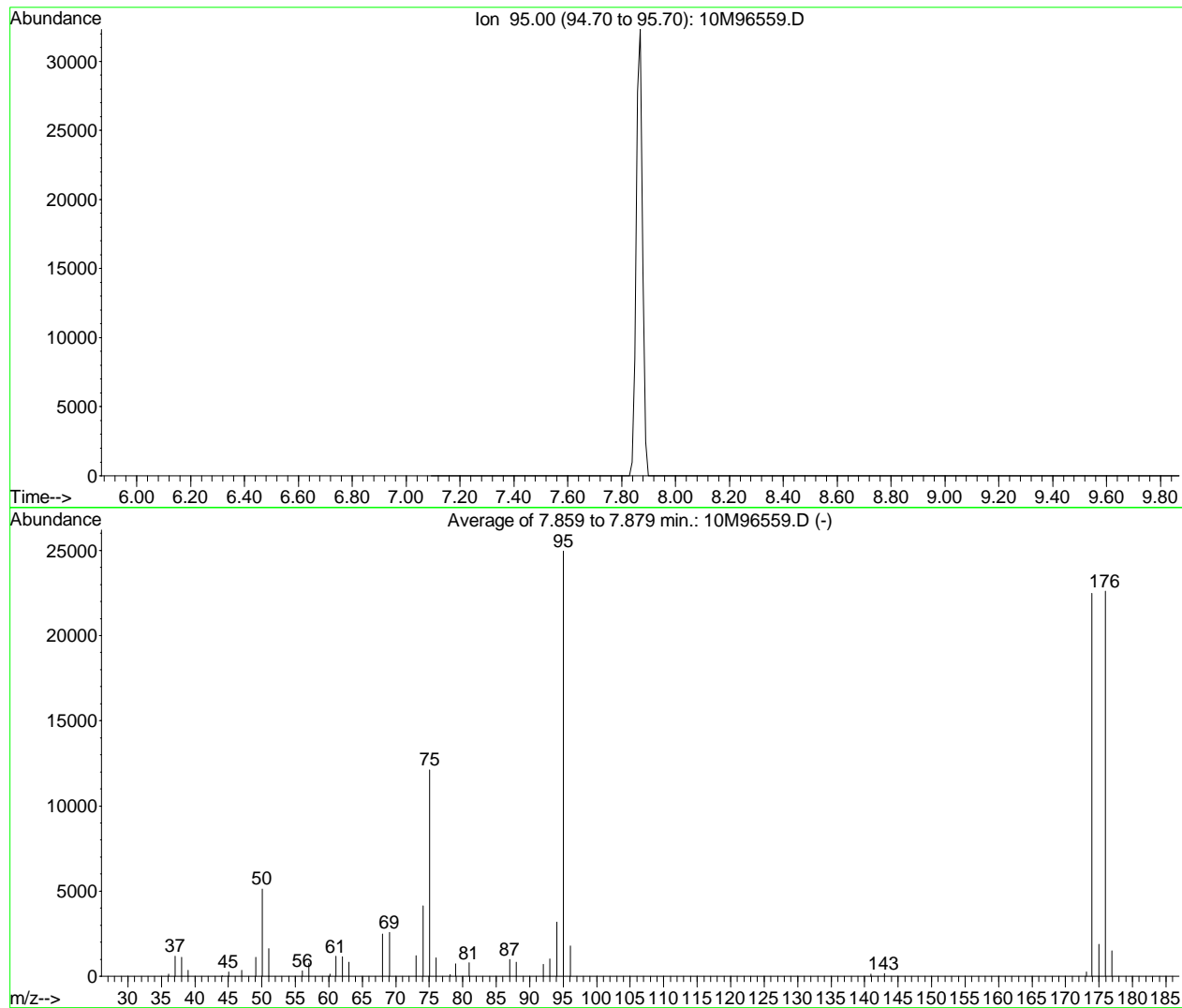
AutoFind: Scans 144, 145, 146; Background Corrected with Scan 139

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	20.6	3569	PASS
75	95	30	60	53.5	9265	PASS
95	95	100	100	100.0	17317	PASS
96	95	5	9	7.3	1259	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	100	84.0	14538	PASS
175	174	5	9	7.7	1120	PASS
176	174	95	101	98.8	14362	PASS
177	176	5	9	7.1	1020	PASS

11M84561.D 8260WTR.M Mon Jul 09 11:35:50 2012

BFB

Data File : C:\MSDCHEM\1\DATA\062612\10M96559.D Vial: 1
 Acq On : 26 Jun 2012 9:43 Operator: TMB
 Sample : WG401620-01 50ng BFB STD 8260 Inst : HPMS10
 Misc : 1,1 STD52401 Multiplr: 1.00
 MS Integration Params: RTEINT.P
 Method : C:\MSDCHEM\1\METHODS\BFB.M (RTE Integrator)
 Title : BFB (SOP:OVL MSV01)



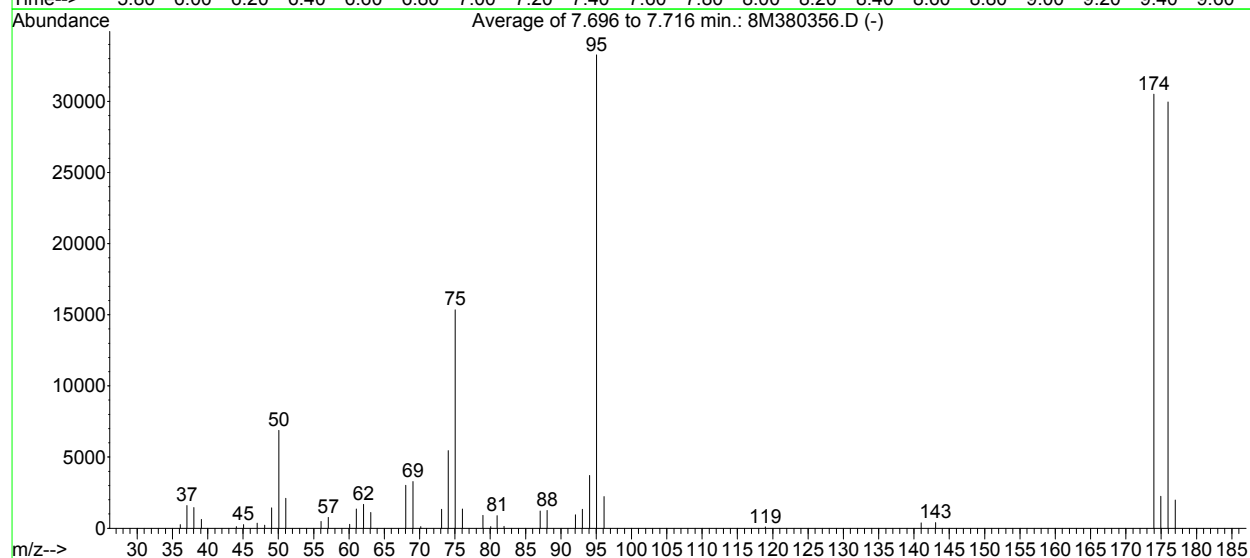
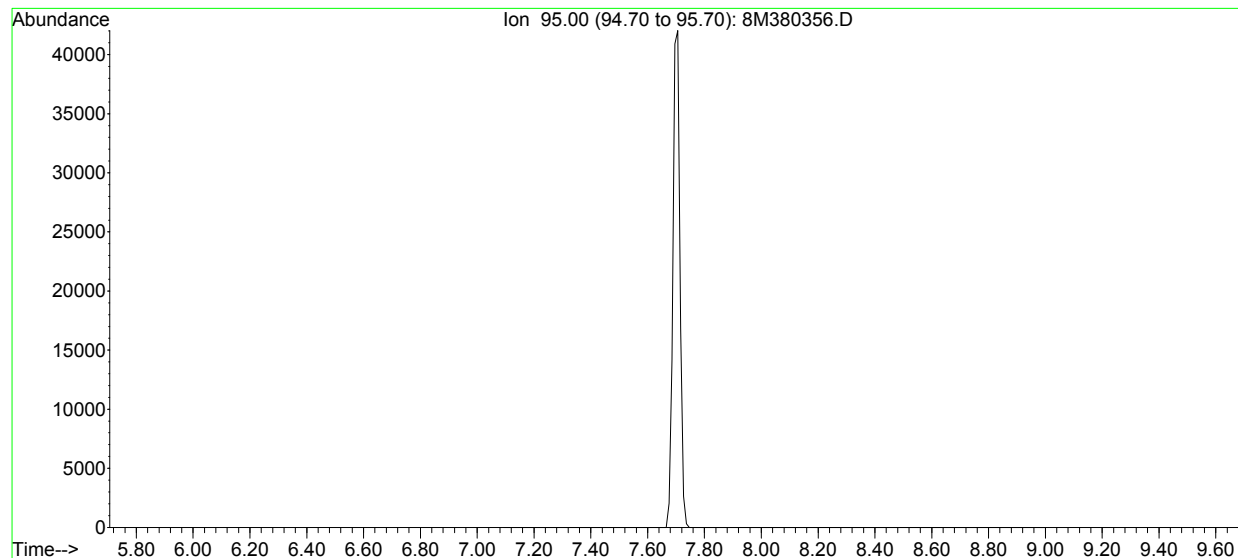
AutoFind: Scans 75, 76, 77; Background Corrected with Scan 70

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	20.6	5129	PASS
75	95	30	60	48.6	12121	PASS
95	95	100	100	100.0	24952	PASS
96	95	5	9	7.2	1797	PASS
173	174	0.00	2	1.1	245	PASS
174	95	50	100	90.1	22472	PASS
175	174	5	9	8.3	1866	PASS
176	174	95	101	100.6	22600	PASS
177	176	5	9	6.7	1506	PASS

10M96559.D BFB.M Tue Jun 26 09:53:28 2012

BFB

Data File : C:\MSDCHEM\1\DATA\062812\8M380356.D Vial: 1
 Acq On : 28 Jun 2012 18:16 Operator: adc
 Sample : WG401797-01 BFB 50ng 8260 Inst : HPMS8
 Misc : 1,1 STD51824 Multiplr: 1.00
 MS Integration Params: rteint.p
 Method : C:\MSDCHEM\1\METHODS\BFB.M (RTE Integrator)
 Title : SOP:OVL MSV01



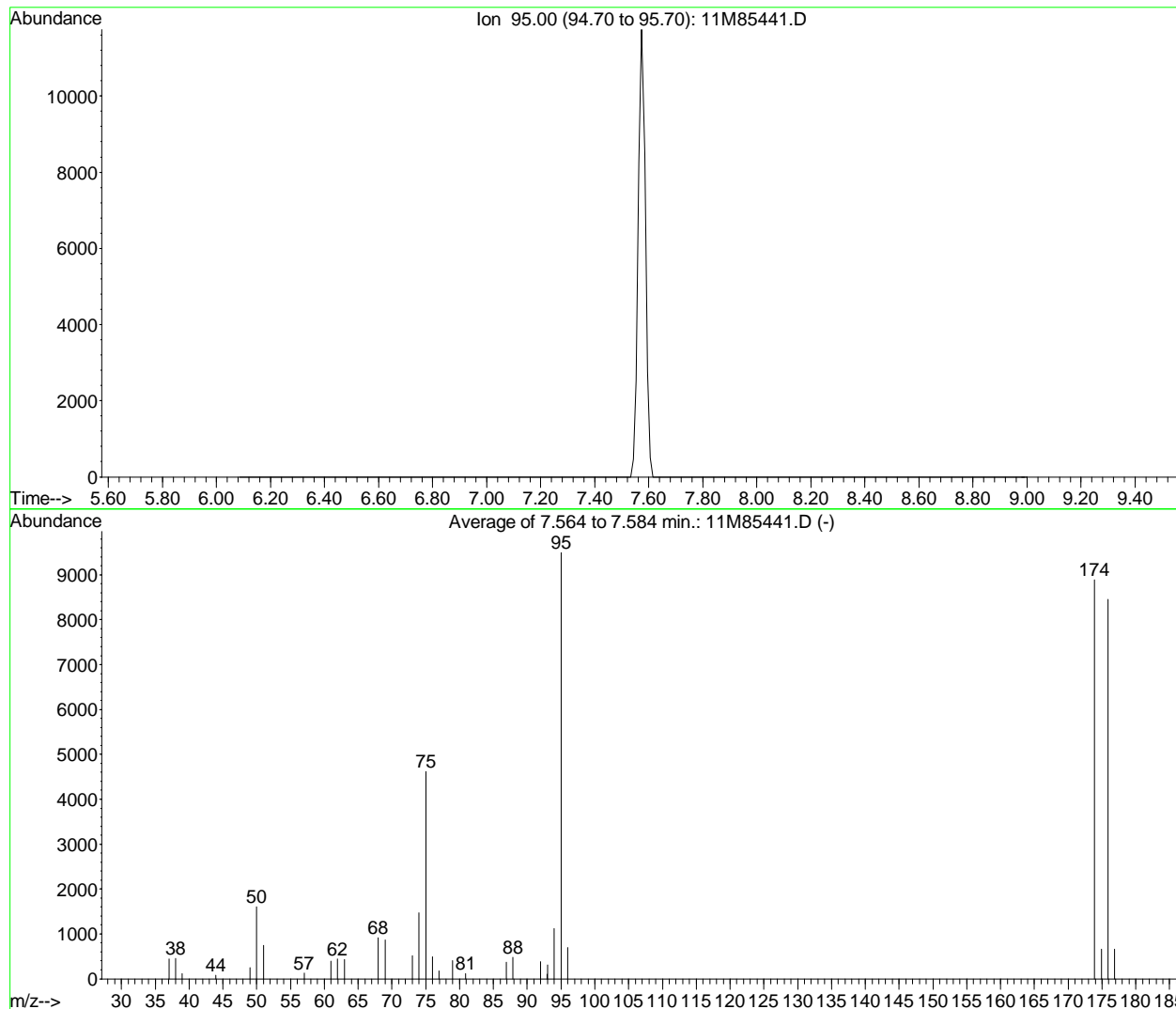
AutoFind: Scans 60, 61, 62; Background Corrected with Scan 55

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	20.7	6883	PASS
75	95	30	60	46.1	15343	PASS
95	95	100	100	100.0	33256	PASS
96	95	5	9	6.7	2216	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	100	91.7	30493	PASS
175	174	5	9	7.3	2241	PASS
176	174	95	101	98.2	29949	PASS
177	176	5	9	6.6	1983	PASS

8M380356.D BFB.M Fri Jul 27 09:47:11 2012

BFB

Data File : C:\MSDCHEM\1\DATA\072012\11M85441.D Vial: 1
 Acq On : 20 Jul 2012 15:30 Operator: FJB
 Sample : WG404019-01 BFB 50ng 8260 Inst : hpms11
 Misc : 1,1 STD52401 Multiplr: 1.00
 MS Integration Params: rteint.p
 Method : C:\MSDCHEM\1\METHODS\BFB.M (RTE Integrator)
 Title : SOP: OVL MSV01



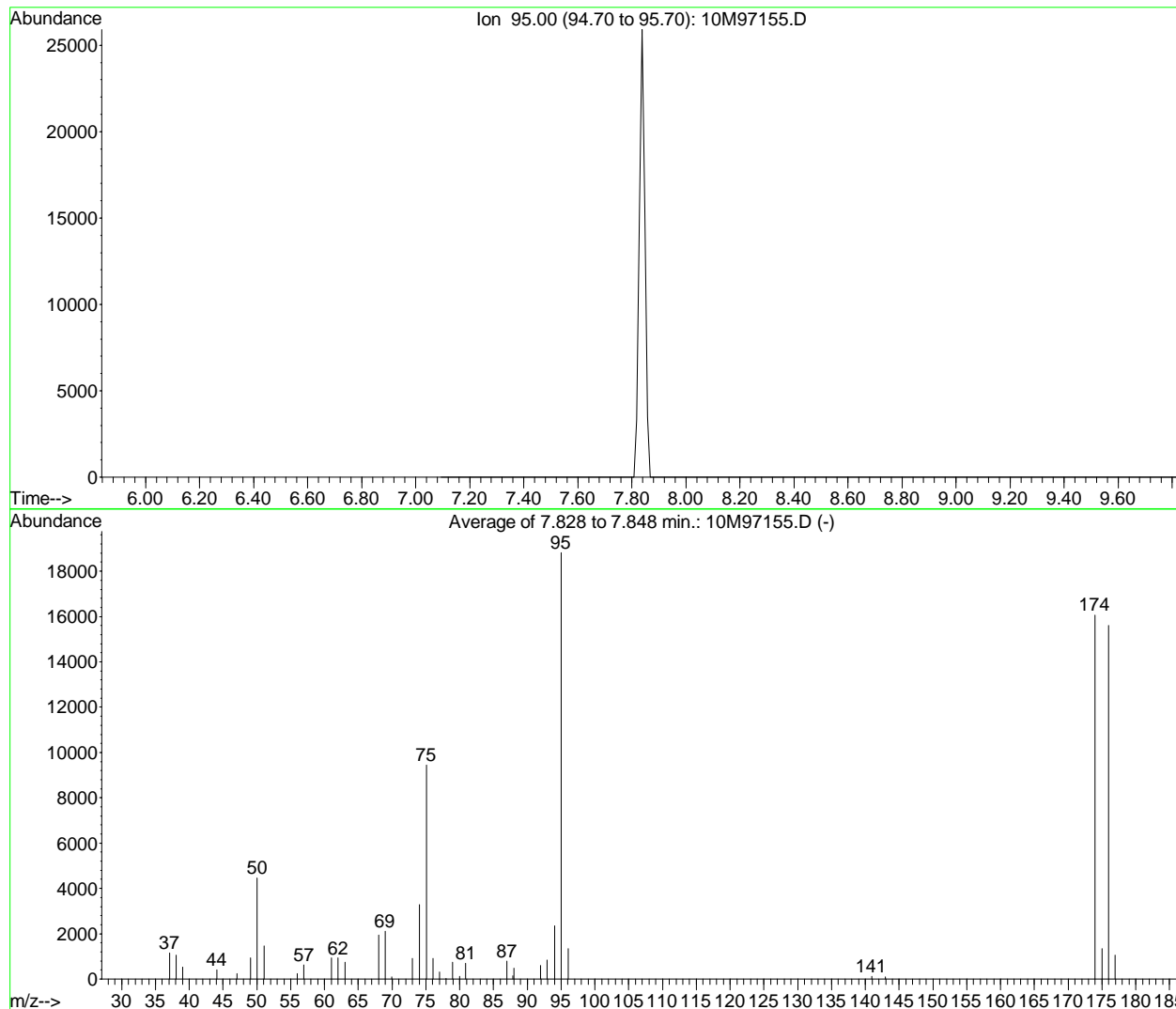
AutoFind: Scans 144, 145, 146; Background Corrected with Scan 139

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	16.8	1599	PASS
75	95	30	60	48.6	4618	PASS
95	95	100	100	100.0	9496	PASS
96	95	5	9	7.4	699	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	100	93.5	8883	PASS
175	174	5	9	7.4	658	PASS
176	174	95	101	95.2	8457	PASS
177	176	5	9	7.8	661	PASS

11M85441.D BFB.M Fri Jul 20 16:56:00 2012

BFB

Data File : C:\MSDCHEM\1\DATA\072112\10M97155.D Vial: 1
 Acq On : 21 Jul 2012 15:10 Operator: MES
 Sample : WG404057-01 50ng BFB STD 8260 Inst : HPMS10
 Misc : 1,1 STD52401 Multiplr: 1.00
 MS Integration Params: RTEINT.P
 Method : C:\MSDCHEM\1\METHODS\BFB.M (RTE Integrator)
 Title : BFB (SOP:OVL MSV01)



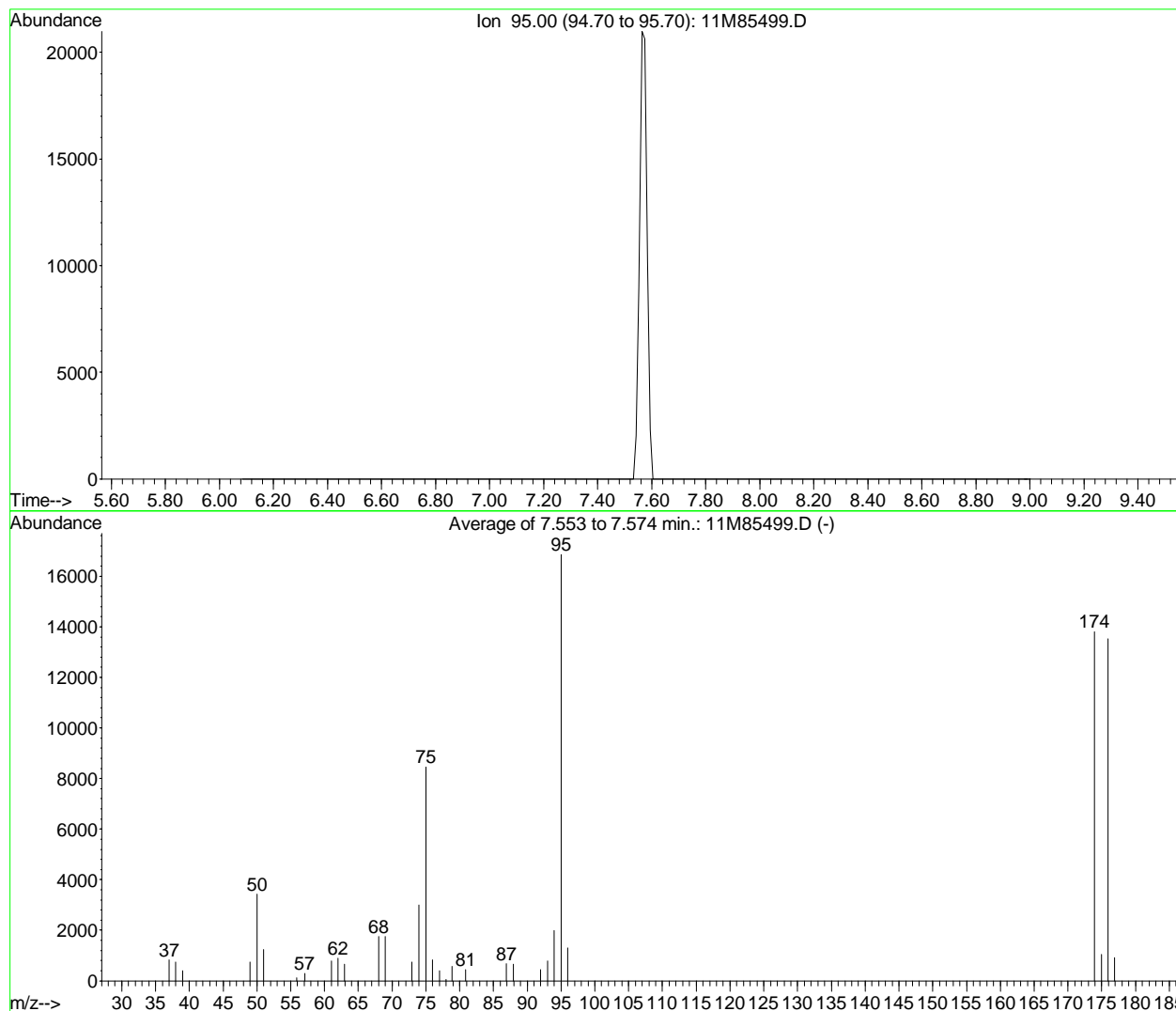
AutoFind: Scans 72, 73, 74; Background Corrected with Scan 68

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	23.7	4461	PASS
75	95	30	60	50.3	9457	PASS
95	95	100	100	100.0	18812	PASS
96	95	5	9	7.1	1336	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	100	85.4	16066	PASS
175	174	5	9	8.4	1342	PASS
176	174	95	101	97.2	15616	PASS
177	176	5	9	6.7	1046	PASS

10M97155.D BFB.M Sat Jul 21 15:24:05 2012

BFB

Data File : C:\MSDCHEM\1\DATA\072312\11M85499.D Vial: 1
 Acq On : 23 Jul 2012 12:24 Operator: FJB
 Sample : WG404129-01 BFB 50ng 8260 Inst : hpms11
 Misc : 1,1 STD52948 Multiplr: 1.00
 MS Integration Params: rteint.p
 Method : C:\MSDCHEM\1\METHODS\BFB.M (RTE Integrator)
 Title : SOP: OVL MSV01



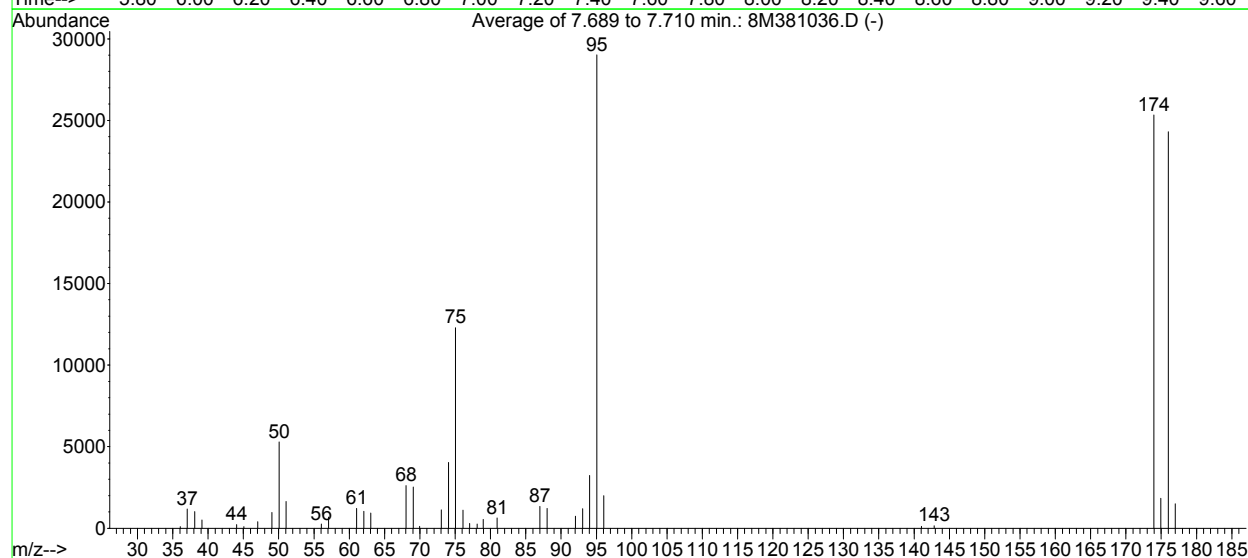
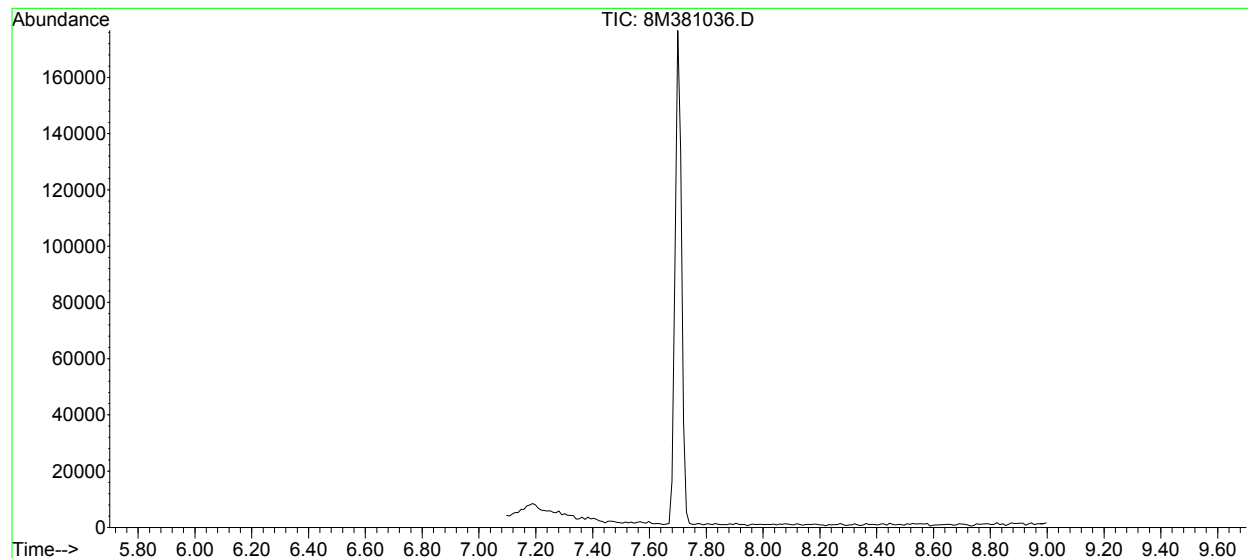
AutoFind: Scans 143, 144, 145; Background Corrected with Scan 139

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	20.3	3423	PASS
75	95	30	60	50.2	8456	PASS
95	95	100	100	100.0	16861	PASS
96	95	5	9	7.7	1305	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	100	81.9	13814	PASS
175	174	5	9	7.6	1043	PASS
176	174	95	101	97.9	13517	PASS
177	176	5	9	6.7	905	PASS

11M85499.D BFB.M Mon Jul 23 13:25:06 2012

BFB

Data File : C:\MSDCHEM\1\DATA\072512\8M381036.D Vial: 1
 Acq On : 25 Jul 2012 9:40 Operator: adc
 Sample : WG404415-01 50ng BFB STD 8260 Inst : HPMS8
 Misc : 1,1 STD52401 Multiplr: 1.00
 MS Integration Params: RTEINT.P
 Method : C:\MSDCHEM\1\METHODS\8260WTR.M (RTE Integrator)
 Title : Method 8260B/624 WTR-SOP:OVLMSV01 06/28/12 HPMS 8



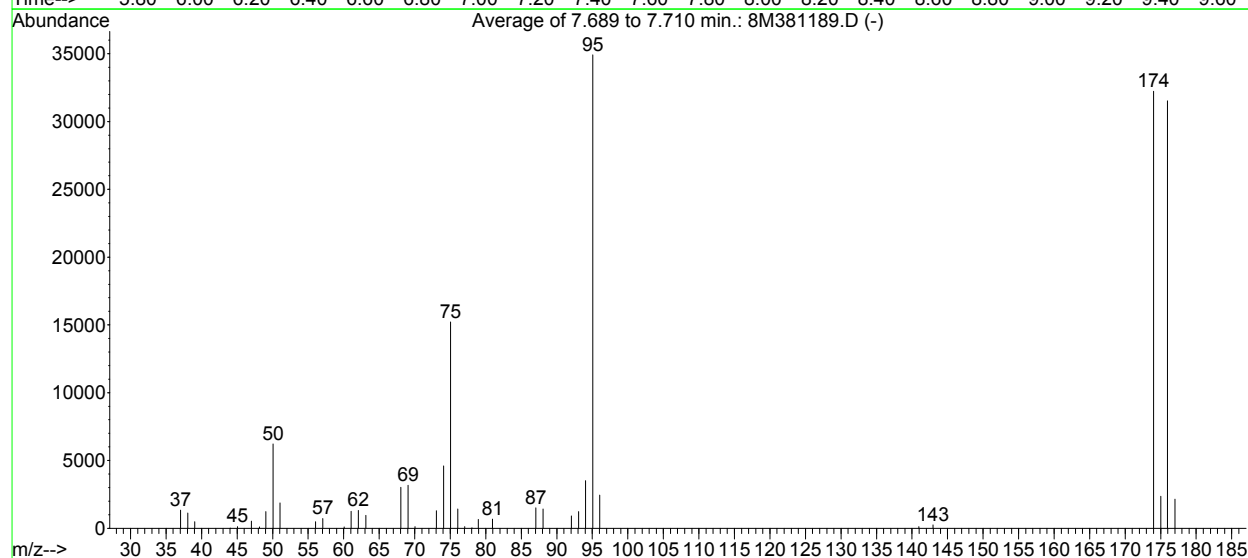
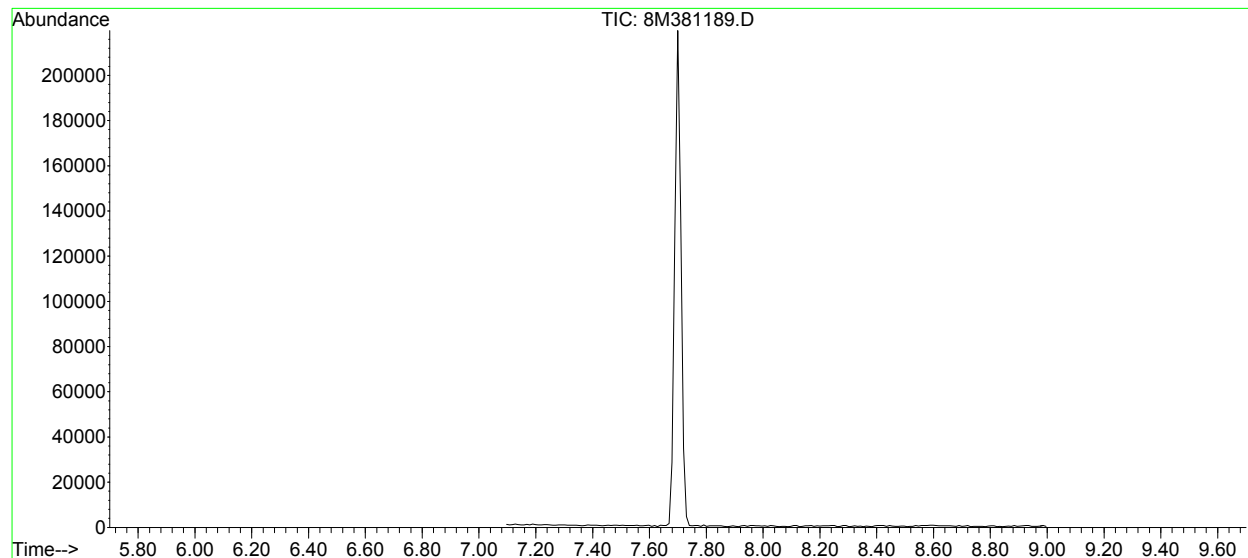
AutoFind: Scans 59, 60, 61; Background Corrected with Scan 55

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	18.2	5287	PASS
75	95	30	60	42.3	12285	PASS
95	95	100	100	100.0	29010	PASS
96	95	5	9	6.9	1998	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	100	87.3	25327	PASS
175	174	5	9	7.3	1839	PASS
176	174	95	101	95.9	24298	PASS
177	176	5	9	6.2	1505	PASS

8M381036.D 8260WTR.M Wed Jul 25 09:50:53 2012

BFB

Data File : C:\MSDCHEM\1\DATA\073012\8M381189.D Vial: 1
 Acq On : 30 Jul 2012 10:53 Operator: ADC
 Sample : WG404913-01 BFB 50ng 8260 Inst : HPMS8
 Misc : 1,1 STD52948 Multiplr: 1.00
 MS Integration Params: RTEINT.P
 Method : C:\MSDCHEM\1\METHODS\8260WTR.M (RTE Integrator)
 Title : Method 8260B/624 WTR-SOP:OVLMSV01 06/28/12 HPMS 8



AutoFind: Scans 59, 60, 61; Background Corrected with Scan 54

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	17.8	6216	PASS
75	95	30	60	43.6	15212	PASS
95	95	100	100	100.0	34914	PASS
96	95	5	9	7.0	2443	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	100	92.4	32245	PASS
175	174	5	9	7.3	2366	PASS
176	174	95	101	97.8	31525	PASS
177	176	5	9	6.8	2134	PASS

8M381189.D 8260WTR.M Mon Jul 30 11:41:33 2012

Data File : C:\MSDCHEM\1\DATA\072112\10M97159.D Vial: 4
 Acq On : 21 Jul 2012 17:09 Operator: MES
 Sample : WG404058-01 BLANK 7/21 Inst : HPMS10
 Misc : 1,1 Multiplr: 1.00
 MS Integration Params: RTEINT.P
 Quant Time: Jul 23 15:51:18 2012 Quant Results File: 8260BWT.RES

Quant Method : C:\MSDCHEM\1\METHODS\8260BWT.M (RTE Integrator)
 Title : 8260B/624 WT (SOP: OVL MSV01) 06/26/12 HPMS10
 Last Update : Tue Jul 10 17:22:08 2012
 Response via : Initial Calibration
 DataAcq Meth : 8260BWT

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene	10.10	96	477439	25.00	ug/L	0.00
57) Chlorobenzene-d5	13.72	117	354219	25.00	ug/L	0.00
78) 1,4-Dichlorobenzene-d4	16.51	152	171213	25.00	ug/L	-0.01
System Monitoring Compounds						
37) Dibromofluoromethane	9.12	111	108208	24.72	ug/L	0.00
Spiked Amount	25.000	Range 86 - 118	Recovery	=	98.88%	
43) 1,2-Dichloroethane-d4	9.72	65	114674	25.08	ug/L	0.00
Spiked Amount	25.000	Range 80 - 120	Recovery	=	100.32%	
58) Toluene-d8	11.95	98	382412	25.28	ug/L	0.00
Spiked Amount	25.000	Range 88 - 110	Recovery	=	101.12%	
80) p-Bromofluorobenzene	15.10	95	136815	26.68	ug/L	0.00
Spiked Amount	25.000	Range 86 - 115	Recovery	=	106.72%	
Target Compounds						
3) Chloromethane	3.36	50	1407	0.20	ug/L	Qvalue 86
13) Acetone	5.84	43	234	0.21	ug/L #	46
20) Carbon Disulfide	6.84	76	1457	0.12	ug/L #	74

 (#) = qualifier out of range (m) = manual integration
 10M97159.D 8260BWT.M Mon Jul 23 15:51:18 2012

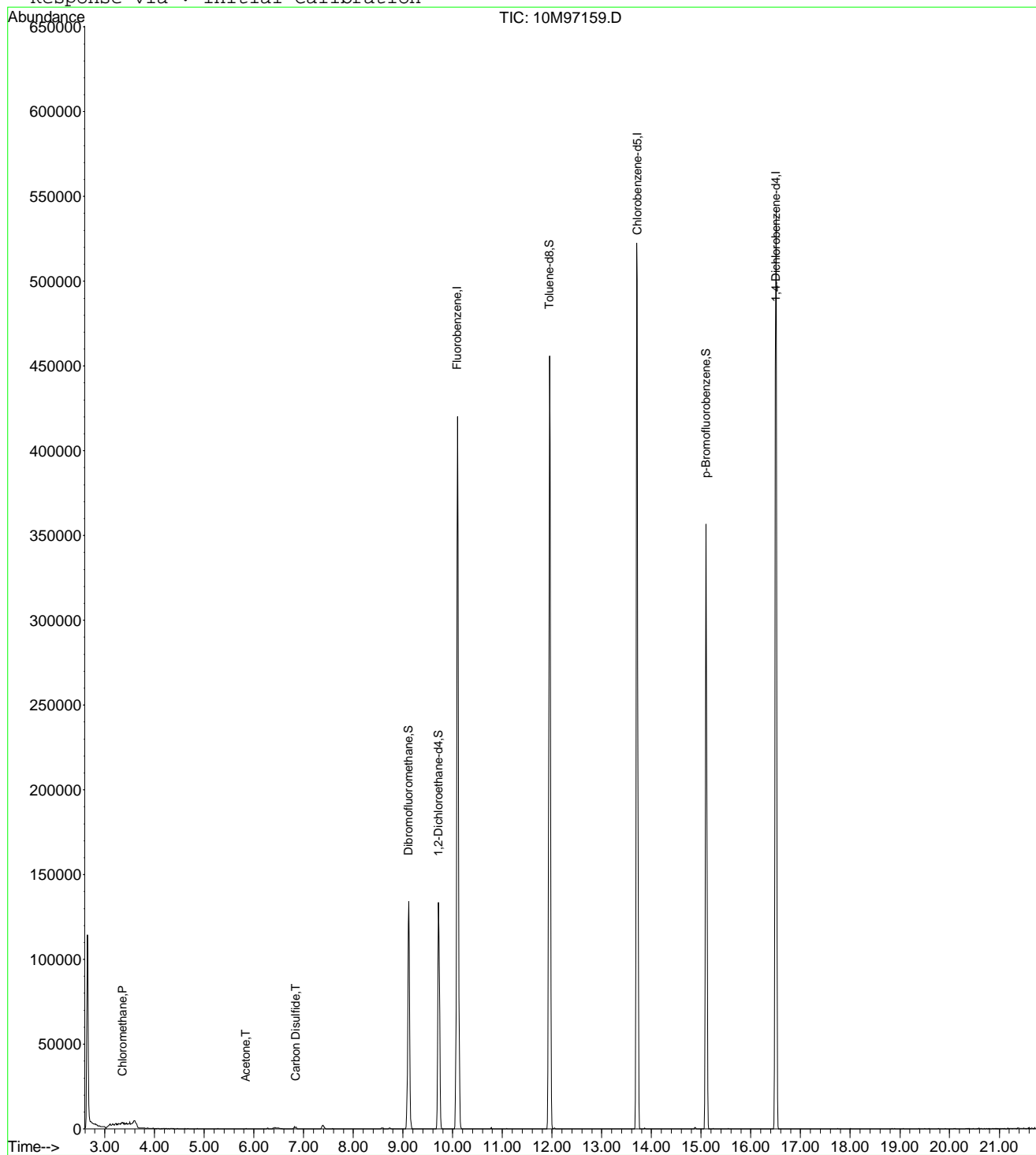
Page 1

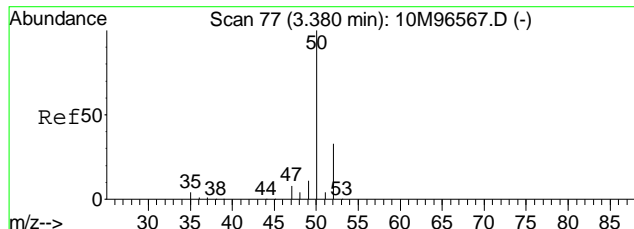
Data File : C:\MSDCHEM\1\DATA\072112\10M97159.D
 Acq On : 21 Jul 2012 17:09
 Sample : WG404058-01 BLANK 7/21
 Misc : 1,1
 MS Integration Params: RTEINT.P
 Quant Time: Jul 23 15:51 2012

Vial: 4
 Operator: MES
 Inst : HPMS10
 Multiplr: 1.00

Quant Results File: 8260BWT.RES

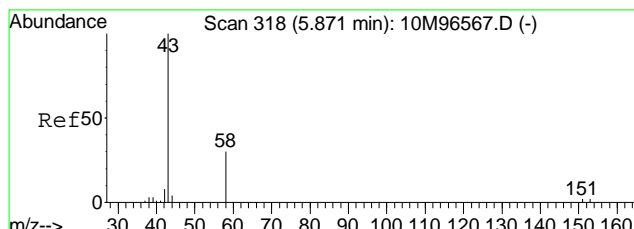
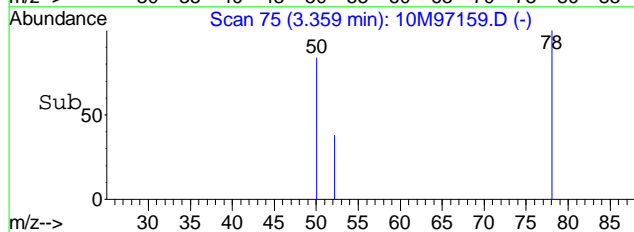
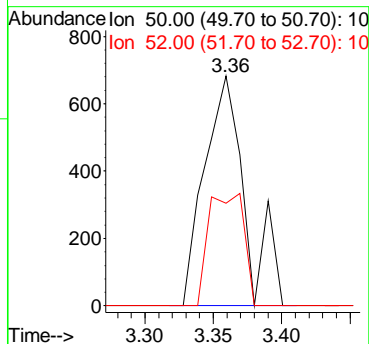
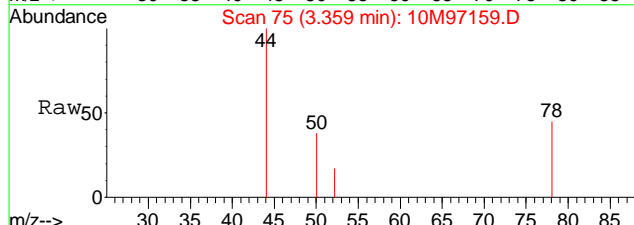
Method : C:\MSDCHEM\1\METHODS\8260BWT.M (RTE Integrator)
 Title : 8260B/624 WT (SOP: OVL MSV01) 06/26/12 HPMS10
 Last Update : Tue Jul 10 17:22:08 2012
 Response via : Initial Calibration





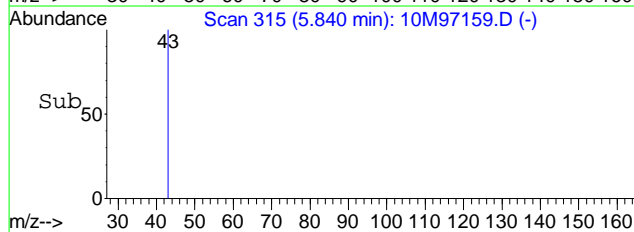
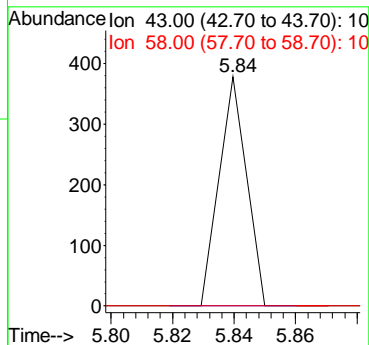
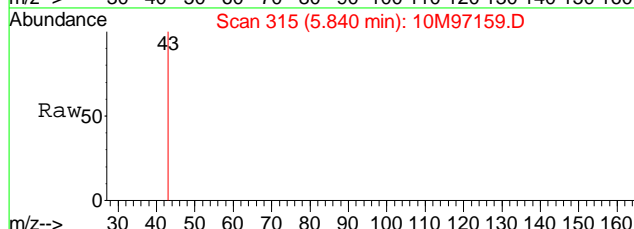
#3
 Chloromethane
 Concen: 0.20 ug/L
 RT: 3.36 min Scan# 75
 Delta R.T. 0.01 min
 Lab File: 10M97159.D
 Acq: 21 Jul 2012 17:09

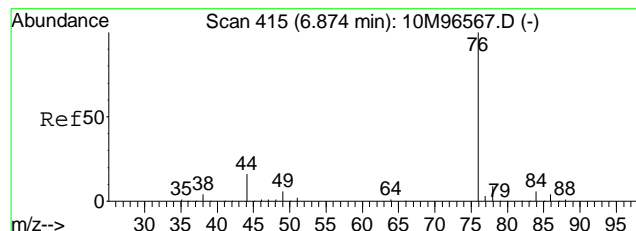
Tgt Ion	Resp	Lower	Upper
50	1407		
50	100		
52	42.4	20.6	48.0



#13
 Acetone
 Concen: 0.21 ug/L
 RT: 5.84 min Scan# 315
 Delta R.T. 0.03 min
 Lab File: 10M97159.D
 Acq: 21 Jul 2012 17:09

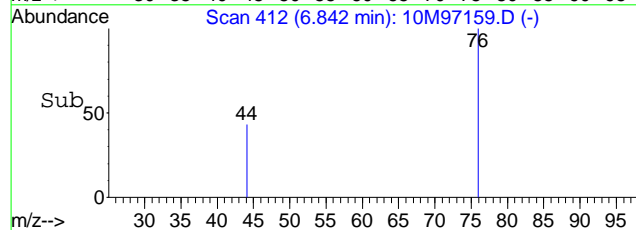
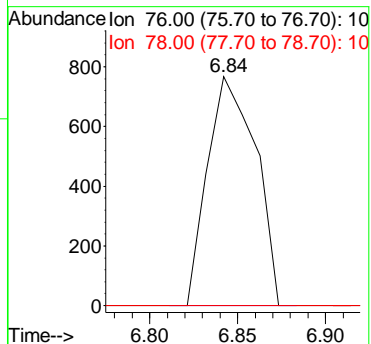
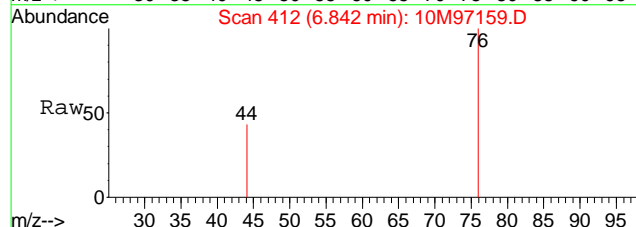
Tgt Ion	Resp	Lower	Upper
43	234		
43	100		
58	0.0	17.2	40.2#





#20
 Carbon Disulfide
 Concen: 0.12 ug/L
 RT: 6.84 min Scan# 412
 Delta R.T. 0.02 min
 Lab File: 10M97159.D
 Acq: 21 Jul 2012 17:09

Tgt Ion	Ratio	Lower	Upper
76	100		
78	0.0	5.7	13.3#



Data File : C:\MSDCHEM\1\DATA\072112\10M97159.D Vial: 4
 Acq On : 21 Jul 2012 17:09 Operator: MES
 Sample : WG404058-01 BLANK 7/21 Inst : HPMS10
 Misc : 1,1 Multiplr: 1.00
 MS Integration Params: RTEINT.P

Method : C:\MSDCHEM\1\METHODS\8260BWT.M (RTE Integrator)
 Title : 8260B/624 WT (SOP: OVL MSV01) 06/26/12 HPMS10
 Smoothing : ON Filtering: 5
 Sampling : 1 Min Area: 50 Area counts
 Start Thrs: 0.2 Max Peaks: 100
 Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
 Peak separation: 5

Signal : TIC

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	3.111	43	51	53	rBV	2727	10685	0.94%	0.187%
2	3.152	53	55	59	rVV2	1176	2850	0.25%	0.050%
3	3.225	59	62	65	rVV2	1092	2591	0.23%	0.045%
4	3.349	72	74	80	rVB2	1126	3096	0.27%	0.054%
5	3.587	94	97	110	rVB4	4356	19969	1.76%	0.350%
6	3.866	121	124	131	rBV	163	367	0.03%	0.006%
7	4.052	138	142	148	rBB	415	1601	0.14%	0.028%
8	4.134	149	150	151	rBB	374	232	0.02%	0.004%
9	4.165	152	153	158	rBB	376	1043	0.09%	0.018%
10	4.227	158	159	163	rBB	331	590	0.05%	0.010%
11	4.279	163	164	166	rBB	341	212	0.02%	0.004%
12	4.362	167	172	176	rBB	369	1216	0.11%	0.021%
13	4.465	179	182	184	rBB	312	381	0.03%	0.007%
14	4.610	194	196	198	rBB	311	193	0.02%	0.003%
15	4.672	200	202	204	rBB	305	189	0.02%	0.003%
16	4.858	218	220	222	rBB	311	193	0.02%	0.003%
17	5.271	258	260	262	rBB	302	187	0.02%	0.003%
18	5.840	313	315	317	rBB	377	234	0.02%	0.004%
19	6.284	354	358	360	rBB	512	842	0.07%	0.015%
20	6.429	366	372	387	rBB	755	5244	0.46%	0.092%
21	6.811	405	409	416	rBB2	1351	4130	0.36%	0.072%
22	7.390	460	465	472	rBB3	2062	7024	0.62%	0.123%
23	7.586	482	484	486	rBB3	314	195	0.02%	0.003%
24	8.568	576	579	584	rBB	671	1614	0.14%	0.028%
25	8.733	591	595	599	rBB	576	1344	0.12%	0.024%
26	9.116	625	632	639	rBB	134108	349409	30.86%	6.123%
27	9.715	684	690	698	rBB	133514	313978	27.73%	5.502%
28	10.098	720	727	736	rBB	420356	1049605	92.70%	18.393%
29	10.780	790	793	795	rBB	717	668	0.06%	0.012%
30	11.090	821	823	825	rBB	311	193	0.02%	0.003%
31	11.948	900	906	913	rBB	456050	1041404	91.98%	18.249%
32	12.051	913	916	919	rBB	524	1016	0.09%	0.018%
33	13.705	1070	1076	1083	rBB	522603	1132232	100.00%	19.841%
34	13.860	1089	1091	1095	rBB	601	821	0.07%	0.014%
35	14.873	1187	1189	1193	rBB	841	1198	0.11%	0.021%
36	15.100	1205	1211	1217	rBB	356824	692275	61.14%	12.131%
37	15.245	1223	1225	1227	rBB	325	202	0.02%	0.004%
38	15.544	1252	1254	1256	rBB	317	197	0.02%	0.003%
39	16.506	1341	1347	1353	rBB	542206	1040041	91.86%	18.225%
40	17.746	1465	1467	1469	rBB	316	196	0.02%	0.003%
41	18.004	1490	1492	1494	rBB	307	190	0.02%	0.003%
42	18.841	1571	1573	1575	rBB	352	218	0.02%	0.004%

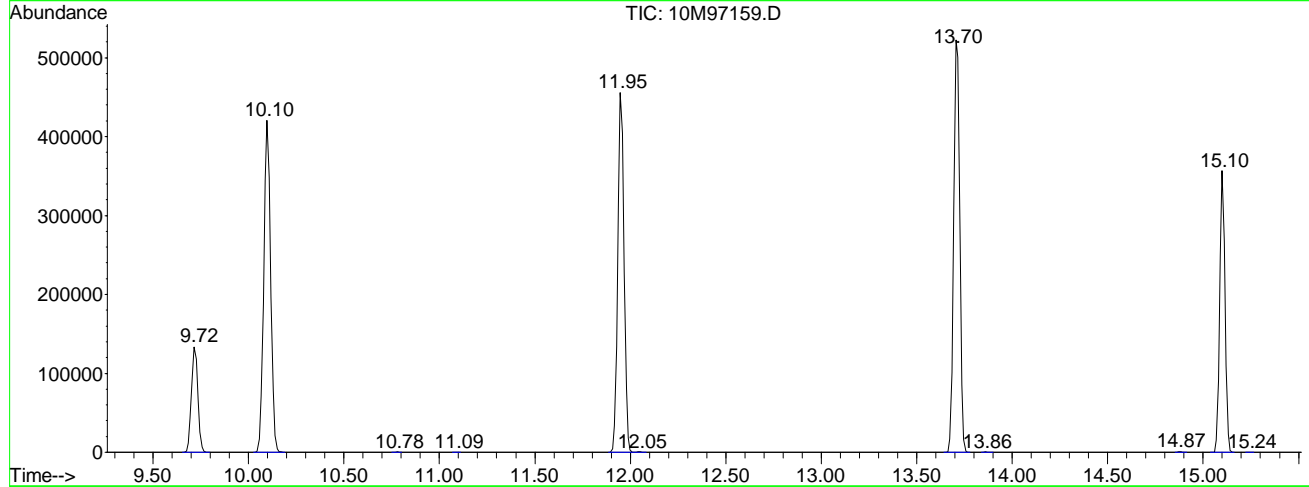
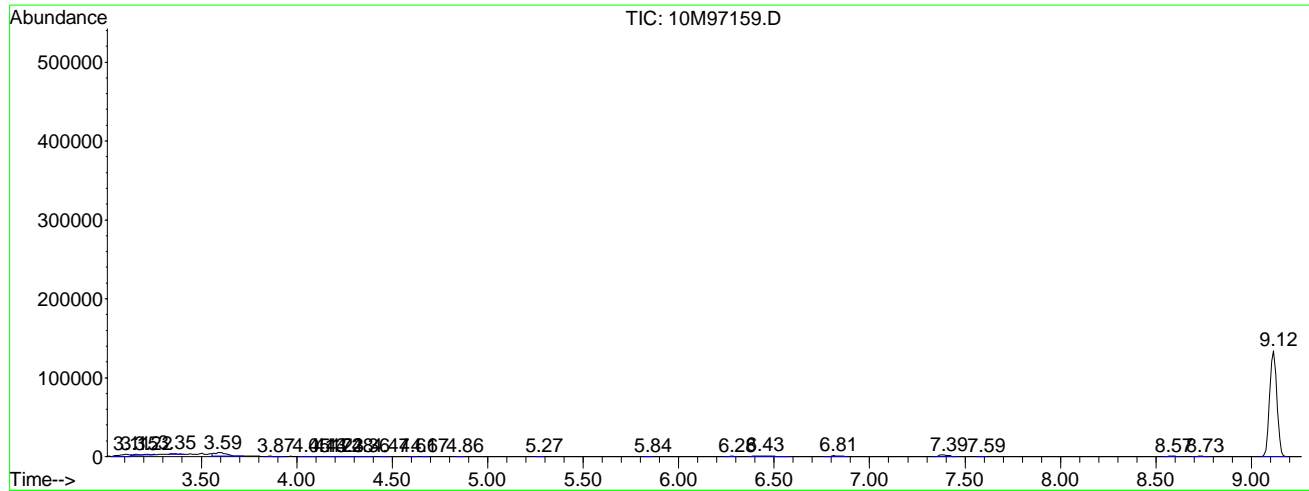
10M97159.D 8260BWT.M Mon Jul 23 16:42:15 2012

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43	18.893	1576	1578	1580	rBB	320	198	0.02%	0.003%
44	19.069	1593	1595	1597	rBB	304	188	0.02%	0.003%
45	19.379	1623	1625	1627	rBB	312	193	0.02%	0.003%
46	19.503	1635	1637	1639	rBB	329	204	0.02%	0.004%
47	19.585	1643	1645	1647	rBB	344	213	0.02%	0.004%
48	19.771	1661	1663	1665	rBB	311	193	0.02%	0.003%
49	19.916	1675	1677	1679	rBB	330	205	0.02%	0.004%
50	20.113	1692	1696	1698	rBB	335	401	0.04%	0.007%
51	20.361	1715	1720	1721	rBB	327	585	0.05%	0.010%
52	20.402	1721	1724	1726	rBB	325	388	0.03%	0.007%
53	20.474	1729	1731	1733	rBB	302	187	0.02%	0.003%
54	20.557	1737	1739	1740	rBB	307	190	0.02%	0.003%
55	20.588	1741	1742	1744	rBB	646	401	0.04%	0.007%
56	20.629	1745	1746	1749	rBB	325	389	0.03%	0.007%
57	20.702	1751	1753	1755	rBB	300	186	0.02%	0.003%
58	20.743	1756	1757	1759	rBB	328	203	0.02%	0.004%
59	20.805	1760	1763	1765	rBB	319	386	0.03%	0.007%
60	20.857	1766	1768	1771	rBB	355	437	0.04%	0.008%
61	20.898	1771	1772	1773	rBB	321	199	0.02%	0.003%
62	20.919	1773	1774	1775	rBB	303	188	0.02%	0.003%
63	20.939	1775	1776	1777	rBB	329	204	0.02%	0.004%
64	20.960	1777	1778	1782	rBB	329	397	0.04%	0.007%
65	21.012	1782	1783	1785	rBB	327	203	0.02%	0.004%
66	21.053	1786	1787	1789	rBB	370	419	0.04%	0.007%
67	21.115	1789	1793	1795	rBB	336	590	0.05%	0.010%
68	21.167	1796	1798	1801	rBB	694	892	0.08%	0.016%
69	21.239	1801	1805	1807	rBB	368	1043	0.09%	0.018%
70	21.332	1807	1814	1815	rBB	403	1547	0.14%	0.027%
71	21.394	1815	1820	1822	rBV	686	2069	0.18%	0.036%
72	21.580	1834	1838	1839	rBV	700	1343	0.12%	0.024%
73	21.652	1843	1845	1849	rBB	651	1331	0.12%	0.023%
74	21.714	1849	1851	1852	rBV	705	897	0.08%	0.016%

Sum of corrected areas: 5706534

File : C:\MSDCHEM\1\DATA\072112\10M97159.D
 Operator : MES
 Acquired : 21 Jul 2012 17:09 using AcqMethod 8260BWT
 Instrument : HPMS10
 Sample Name: WG404058-01 BLANK 7/21
 Misc Info : 1,1
 Vial Number: 4
 Quant File :8260BWT.RES (RTE Integrator)



Data File : C:\MSDCHEM\1\DATA\072012\11M85448.D Vial: 8
 Acq On : 20 Jul 2012 19:08 Operator: FJB
 Sample : WG404020-01 VBLK0720 BLANK 8260 Inst : hpms11
 Misc : 1,1 Multiplr: 1.00
 MS Integration Params: rteint.p
 Quant Time: Jul 23 08:40:49 2012 Quant Results File: 8260WTR.RES

Quant Method : C:\MSDCHEM\1\METHODS\8260WTR.M (RTE Integrator)
 Title : 8260B/624 (SOP: OVL MSV01) Water 05/03/12 HPMS11
 Last Update : Fri Jul 13 11:24:02 2012
 Response via : Initial Calibration
 DataAcq Meth : 8260WTR

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene	10.29	96	481342	25.00	ug/L	0.00
57) Chlorobenzene-d5	13.92	117	352534	25.00	ug/L	0.00
78) 1,4-Dichlorobenzene-d4	16.72	152	163548	25.00	ug/L	0.00

System Monitoring Compounds						
37) Dibromofluoromethane	9.30	111	122225	20.8380	ug/L	0.00
Spiked Amount	25.000	Range 86 - 118	Recovery	=	83.36%#	
43) 1,2-Dichloroethane-d4	9.89	65	117637	20.9592	ug/L	0.00
Spiked Amount	25.000	Range 80 - 120	Recovery	=	83.84%	
58) Toluene-d8	12.14	98	480287	25.8284	ug/L	-0.01
Spiked Amount	25.000	Range 88 - 110	Recovery	=	103.32%	
80) p-Bromofluorobenzene	15.30	95	154931	28.6599	ug/L	-0.01
Spiked Amount	25.000	Range 86 - 115	Recovery	=	114.64%	

Target Compounds	Qvalue
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 (#) = qualifier out of range (m) = manual integration
 11M85448.D 8260WTR.M Mon Jul 23 08:40:50 2012

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Data File : C:\MSDCHEM\1\DATA\072012\11M85448.D

Vial: 8

Acq On : 20 Jul 2012 19:08

Operator: FJB

Sample : WG404020-01 VBLK0720 BLANK 8260

Inst : hpms11

Misc : 1,1

Multiplr: 1.00

MS Integration Params: rteint.p

Quant Time: Jul 23 8:40 2012

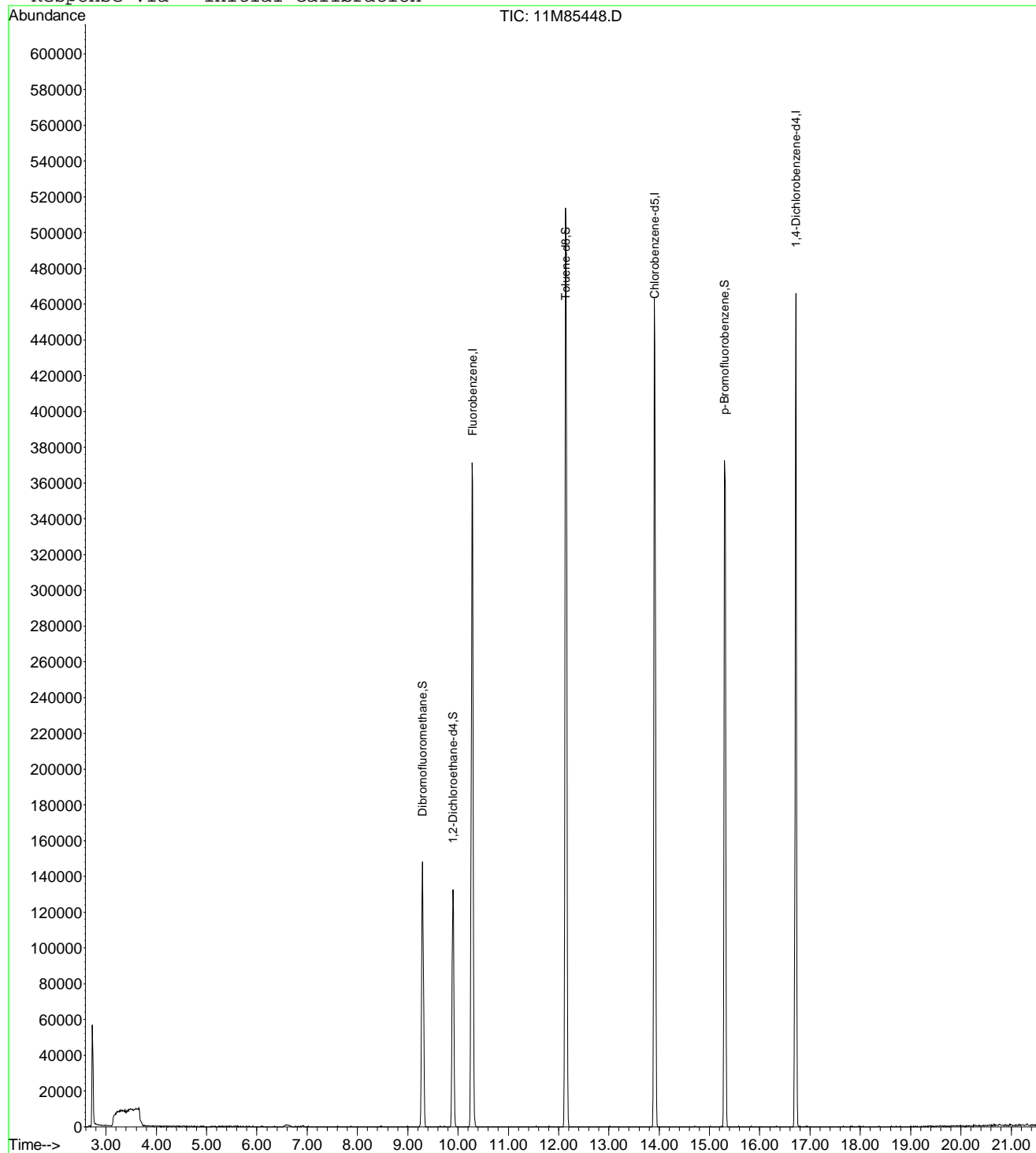
Quant Results File: 8260WTR.RES

Method : C:\MSDCHEM\1\METHODS\8260WTR.M (RTE Integrator)

Title : 8260B/624 (SOP: OVL MSV01) Water 05/03/12 HPMS11

Last Update : Fri Jul 13 11:24:02 2012

Response via : Initial Calibration



11M85448.D 8260WTR.M

Mon Jul 23 08:40:50 2012

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Data File : C:\MSDCHEM\1\DATA\072312\11M85502.D Vial: 4
 Acq On : 23 Jul 2012 13:54 Operator: FJB
 Sample : WG404130-01 VBLK0723 BLANK 8260 Inst : hpms11
 Misc : 1,1 Multiplr: 1.00
 MS Integration Params: rteint.p
 Quant Time: Jul 24 18:51:23 2012 Quant Results File: 8260WTR.RES

Quant Method : C:\MSDCHEM\1\METHODS\8260WTR.M (RTE Integrator)
 Title : 8260B/624 (SOP: OVL MSV01) Water 05/03/12 HPMS11
 Last Update : Fri Jul 13 11:24:02 2012
 Response via : Initial Calibration
 DataAcq Meth : 8260WTR

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene	10.28	96	580075	25.00	ug/L	-0.01
57) Chlorobenzene-d5	13.91	117	431925	25.00	ug/L	-0.01
78) 1,4-Dichlorobenzene-d4	16.72	152	216198	25.00	ug/L	0.00
System Monitoring Compounds						
37) Dibromofluoromethane	9.29	111	144284	20.4120	ug/L	-0.01
Spiked Amount	25.000	Range 86 - 118	Recovery	=	81.64%#	
43) 1,2-Dichloroethane-d4	9.90	65	139222	20.5830	ug/L	0.00
Spiked Amount	25.000	Range 80 - 120	Recovery	=	82.32%	
58) Toluene-d8	12.14	98	584081	25.6367	ug/L	-0.01
Spiked Amount	25.000	Range 88 - 110	Recovery	=	102.56%	
80) p-Bromofluorobenzene	15.30	95	196478	27.4944	ug/L	-0.01
Spiked Amount	25.000	Range 86 - 115	Recovery	=	109.96%	
Target Compounds						
					Qvalue	
3) Chloromethane	3.46	50	1772	0.1378	ug/L	87
6) Bromomethane	4.54	94	1767	0.4286	ug/L	94
13) Acetone	6.01	43	1593	0.6563	ug/L #	73
17) Iodomethane	6.72	142	214	0.3705	ug/L #	30
54) 4-Methyl-2-Pentanone	11.55	58	201	0.1540	ug/L #	31

 (#) = qualifier out of range (m) = manual integration
 11M85502.D 8260WTR.M Tue Jul 24 18:51:24 2012

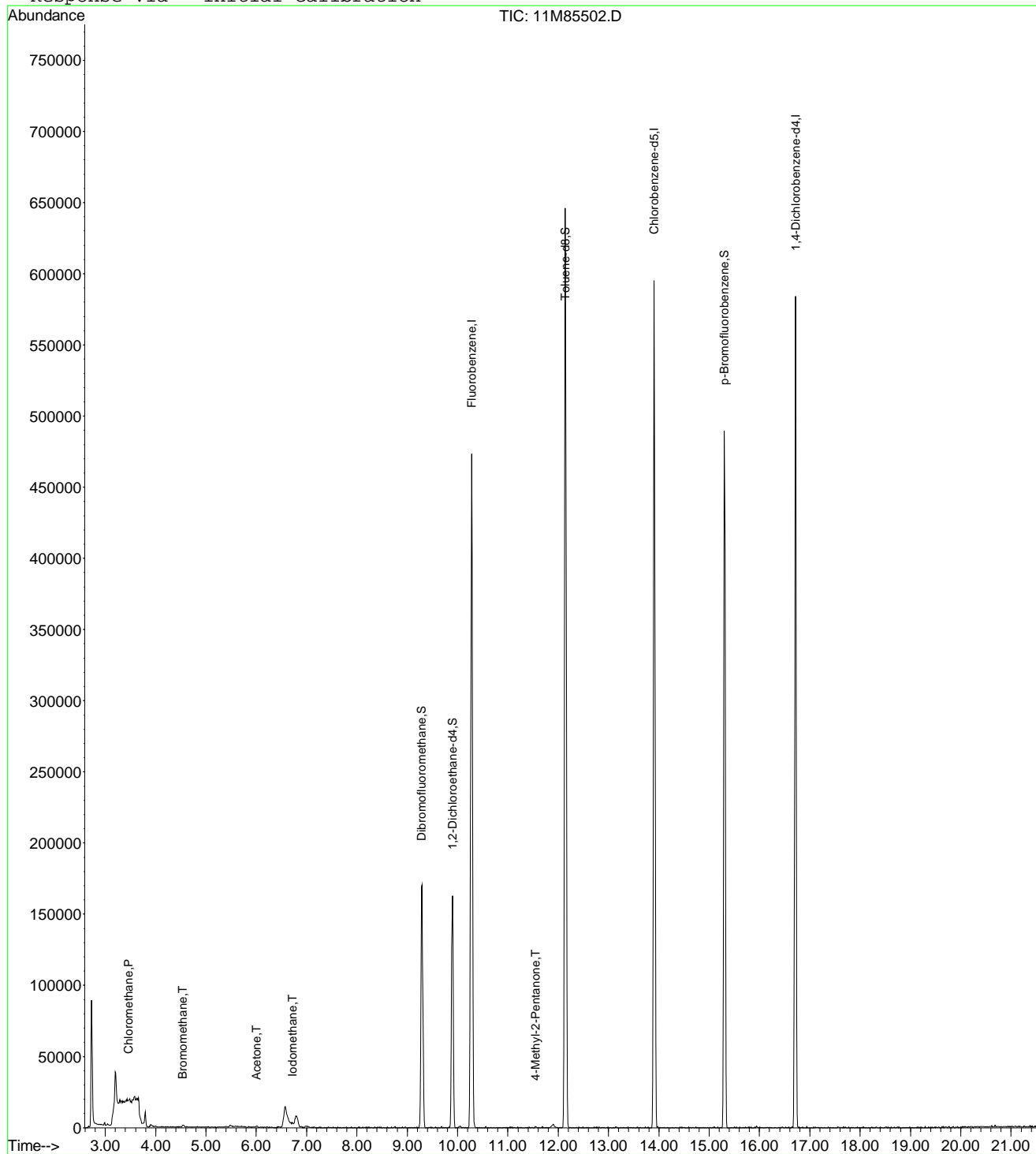
Page 1

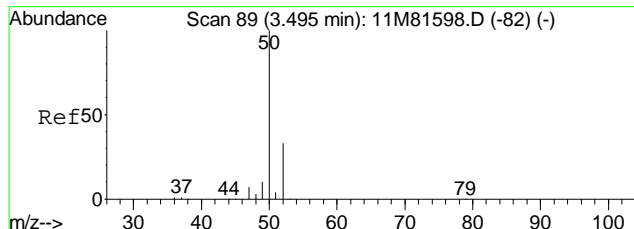
Data File : C:\MSDCHEM\1\DATA\072312\11M85502.D
 Acq On : 23 Jul 2012 13:54
 Sample : WG404130-01 VBLK0723 BLANK 8260
 Misc : 1,1
 MS Integration Params: rteint.p
 Quant Time: Jul 24 18:51 2012

Vial: 4
 Operator: FJB
 Inst : hpms11
 Multiplr: 1.00

Quant Results File: 8260WTR.RES

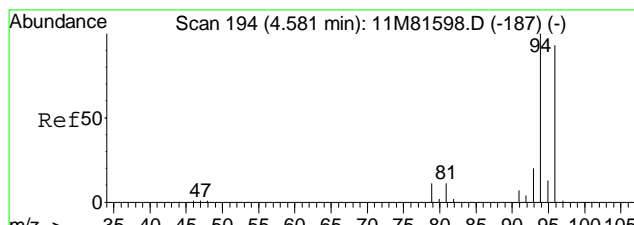
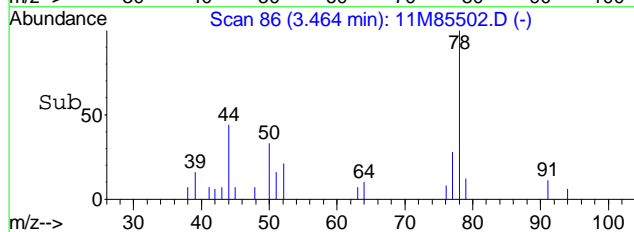
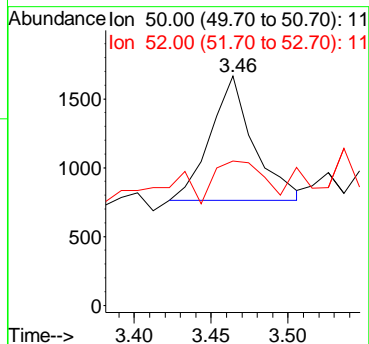
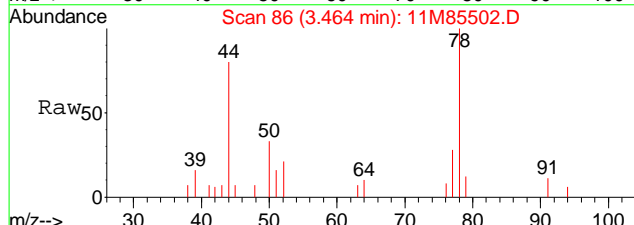
Method : C:\MSDCHEM\1\METHODS\8260WTR.M (RTE Integrator)
 Title : 8260B/624 (SOP: OVL MSV01) Water 05/03/12 HPMS11
 Last Update : Fri Jul 13 11:24:02 2012
 Response via : Initial Calibration





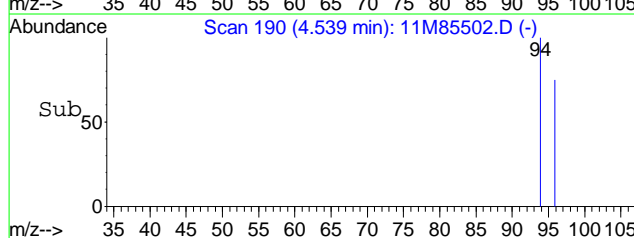
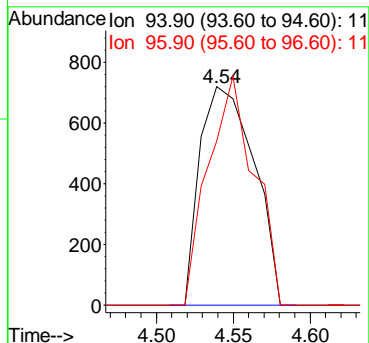
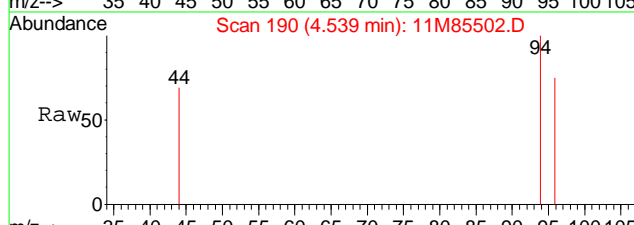
#3
 Chloromethane
 Concen: 0.14 ug/L
 RT: 3.46 min Scan# 86
 Delta R.T. -0.00 min
 Lab File: 11M85502.D
 Acq: 23 Jul 2012 13:54

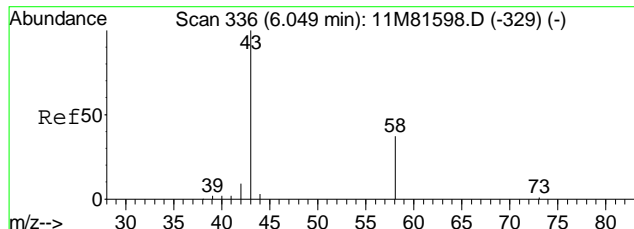
Tgt Ion	Resp	Lower	Upper
50	100		
52	39.3	19.4	45.2



#6
 Bromomethane
 Concen: 0.43 ug/L
 RT: 4.54 min Scan# 190
 Delta R.T. -0.00 min
 Lab File: 11M85502.D
 Acq: 23 Jul 2012 13:54

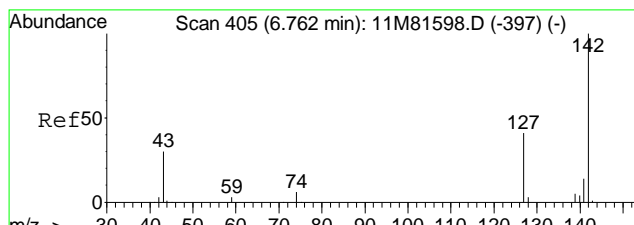
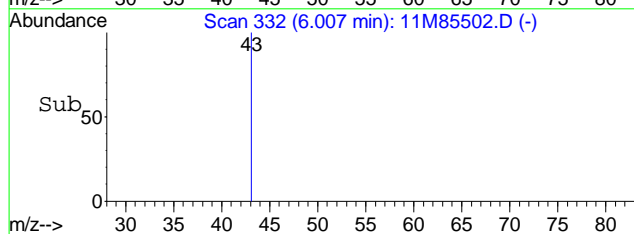
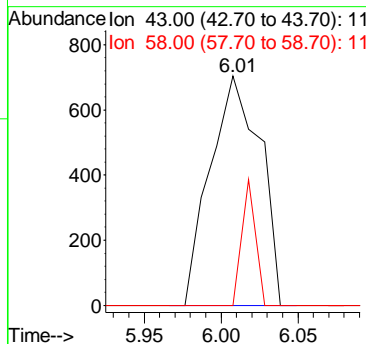
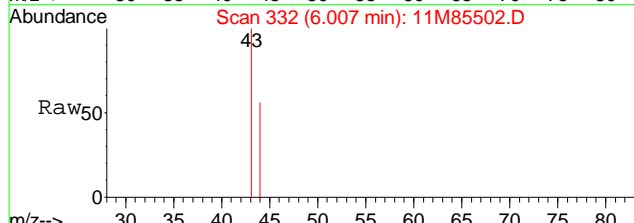
Tgt Ion	Resp	Lower	Upper
94	100		
96	88.7	56.7	132.3





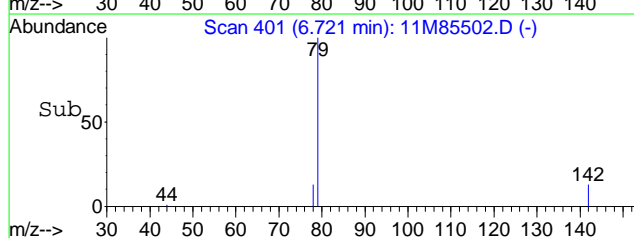
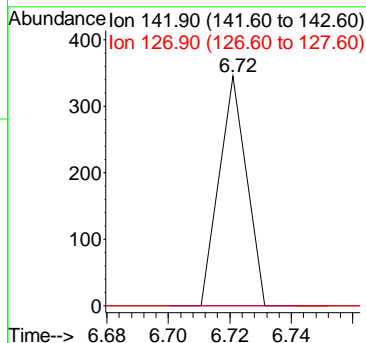
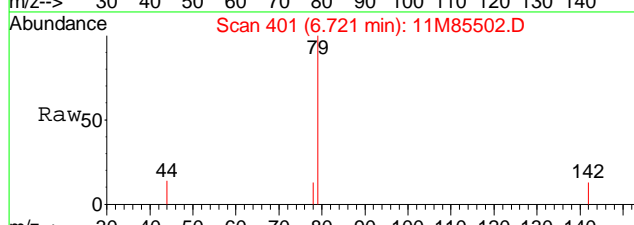
#13
 Acetone
 Concen: 0.66 ug/L
 RT: 6.01 min Scan# 332
 Delta R.T. -0.01 min
 Lab File: 11M85502.D
 Acq: 23 Jul 2012 13:54

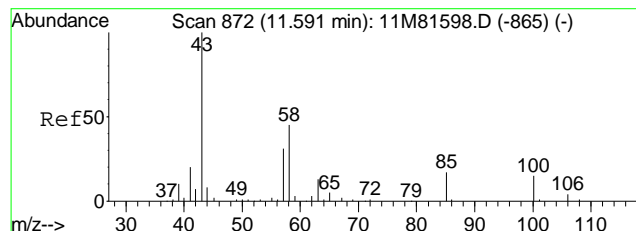
Tgt Ion	43	58	Resp	1593
Ion	Ratio	Lower	Upper	
43	100			
58	15.1	17.6	41.2#	



#17
 Iodomethane
 Concen: 0.37 ug/L
 RT: 6.72 min Scan# 401
 Delta R.T. -0.00 min
 Lab File: 11M85502.D
 Acq: 23 Jul 2012 13:54

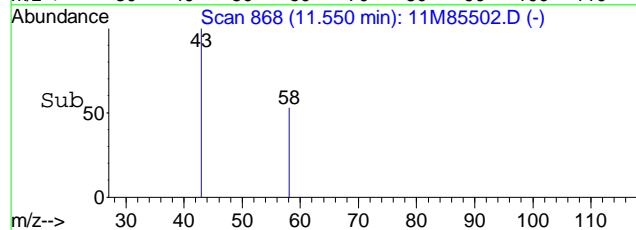
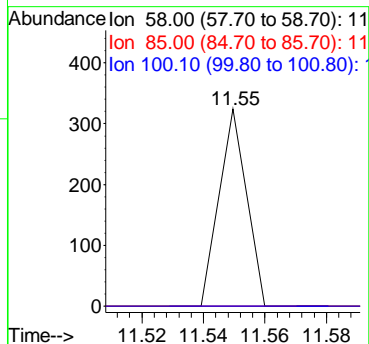
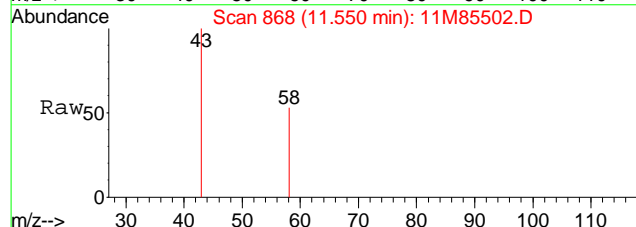
Tgt Ion	142	Resp	214
Ion	Ratio	Lower	Upper
142	100		
127	0.0	27.9	65.1#





#54
 4-Methyl-2-Pentanone
 Concen: 0.15 ug/L
 RT: 11.55 min Scan# 868
 Delta R.T. -0.01 min
 Lab File: 11M85502.D
 Acq: 23 Jul 2012 13:54

Tgt Ion	Ratio	Lower	Upper
58	100		
85	0.0	28.9	67.3#
100	0.0	24.8	58.0#



Data File : C:\MSDCHEM\1\DATA\072512\8M381039.D Vial: 4
 Acq On : 25 Jul 2012 11:04 Operator: adc
 Sample : WG404417-01 VBLK 0725 Inst : HPMS8
 Misc : 1,1 Multiplr: 1.00
 MS Integration Params: RTEINT.P
 Quant Time: Jul 29 19:08:24 2012 Quant Results File: 8260WTR.RES

Quant Method : C:\MSDCHEM\1\METHODS\8260WTR.M (RTE Integrator)
 Title : Method 8260B/624 WTR-SOP:OVLMSV01 06/28/12 HPMS 8
 Last Update : Fri Jun 29 09:29:43 2012
 Response via : Initial Calibration
 DataAcq Meth : 8260WTR

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene	10.18	96	594290	25.00	ug/L	0.00
57) Chlorobenzene-d5	14.03	117	509222	25.00	ug/L	0.00
78) 1,4-Dichlorobenzene-d4	17.04	152	285248	25.00	ug/L	0.00
System Monitoring Compounds						
37) Dibromofluoromethane	9.13	111	155790	24.3764	ug/L	0.00
Spiked Amount 25.000	Range	86 - 118	Recovery	=	97.52%	
43) 1,2-Dichloroethane-d4	9.77	65	124624	20.9243	ug/L	0.00
Spiked Amount 25.000	Range	80 - 120	Recovery	=	83.68%	
58) Toluene-d8	12.16	98	572497	24.6060	ug/L	0.00
Spiked Amount 25.000	Range	88 - 110	Recovery	=	98.44%	
80) p-Bromofluorobenzene	15.53	95	237478	25.0788	ug/L	0.00
Spiked Amount 25.000	Range	86 - 115	Recovery	=	100.32%	
Target Compounds						
56) Dimethyl Disulfide	12.16	94	15254	2.0331	ug/L #	27
99) Hexachlorobutadiene	19.87	225	801	0.1638	ug/L #	43

 (#) = qualifier out of range (m) = manual integration
 8M381039.D 8260WTR.M Sun Jul 29 19:08:25 2012

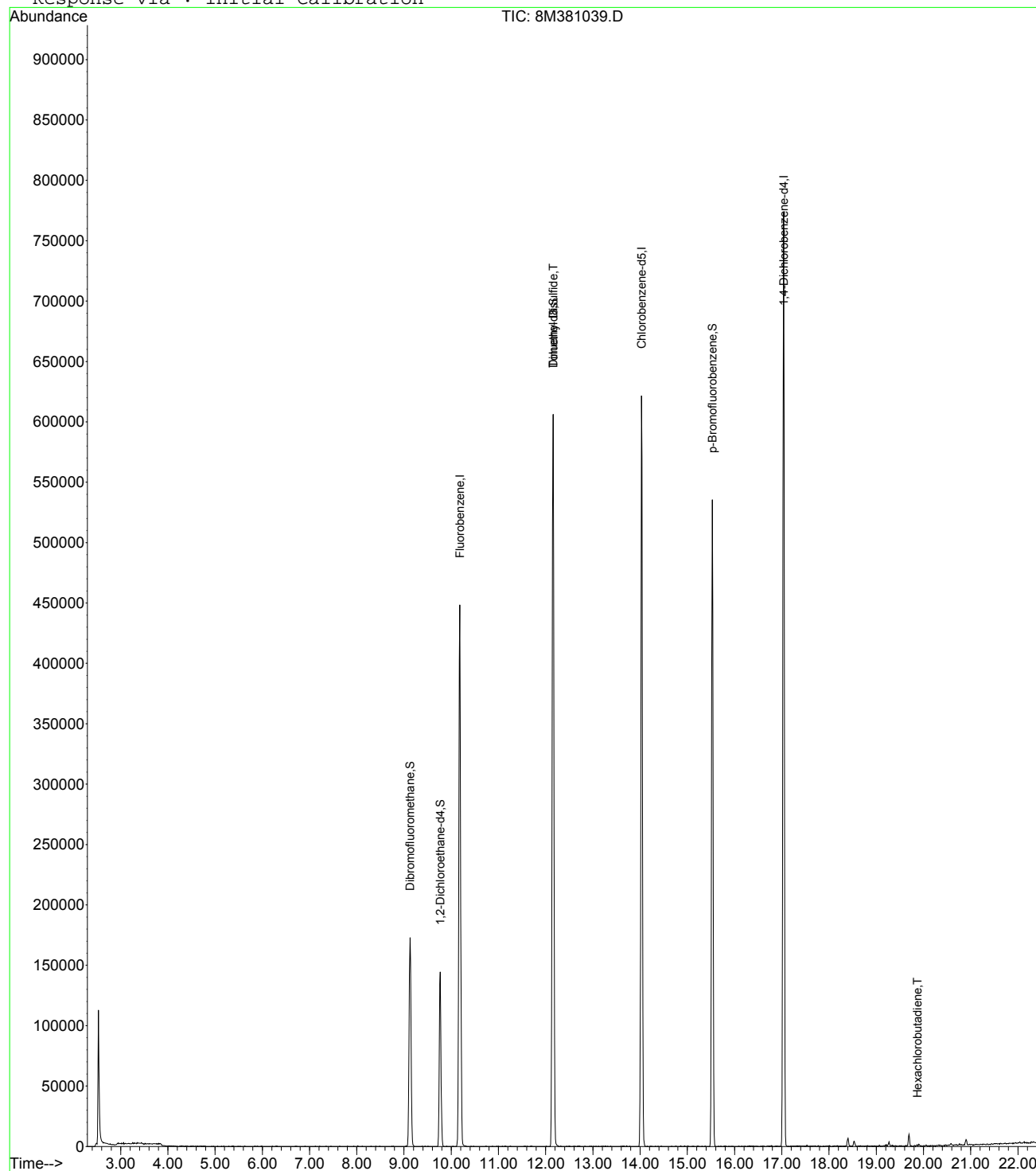
Page 1

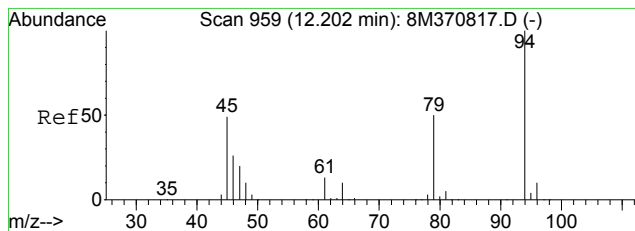
Data File : C:\MSDCHEM\1\DATA\072512\8M381039.D
 Acq On : 25 Jul 2012 11:04
 Sample : WG404417-01 VBLK 0725
 Misc : 1,1
 MS Integration Params: RTEINT.P
 Quant Time: Jul 29 19:08 2012

Vial: 4
 Operator: adc
 Inst : HPMS8
 Multiplr: 1.00

Quant Results File: 8260WTR.RES

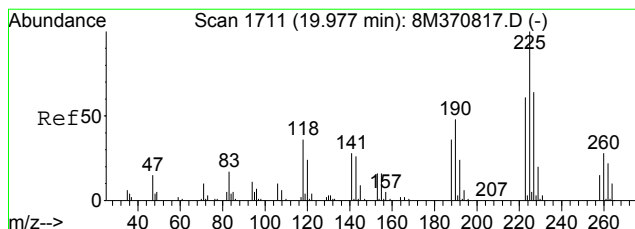
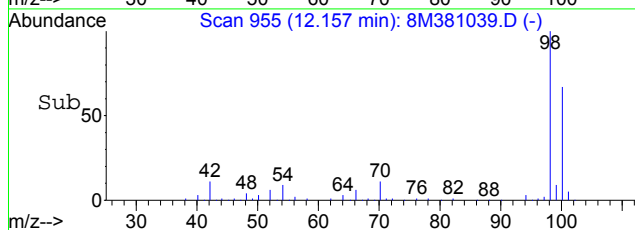
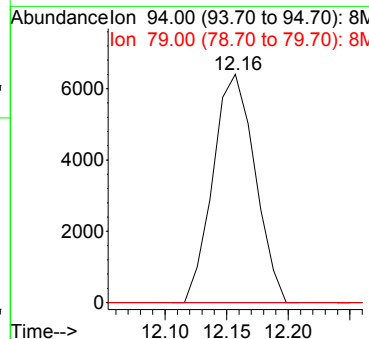
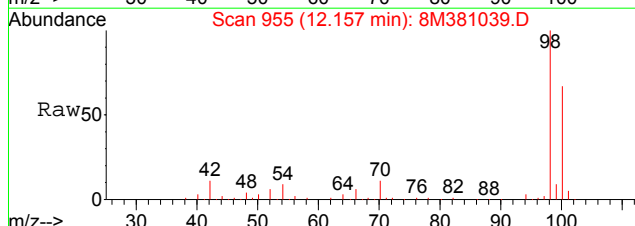
Method : C:\MSDCHEM\1\METHODS\8260WTR.M (RTE Integrator)
 Title : Method 8260B/624 WTR-SOP:OVLMSV01 06/28/12 HPMS 8
 Last Update : Fri Jun 29 09:29:43 2012
 Response via : Initial Calibration





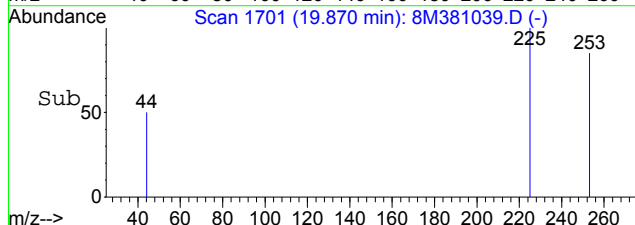
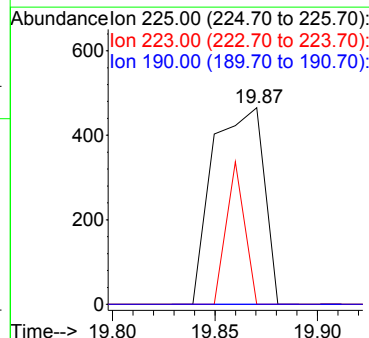
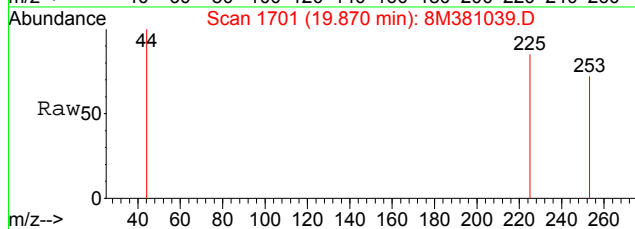
#56
 Dimethyl Disulfide
 Concen: 2.03 ug/L
 RT: 12.16 min Scan# 955
 Delta R.T. 0.07 min
 Lab File: 8M381039.D
 Acq: 25 Jul 2012 11:04

Tgt Ion: 94 Resp: 15254
 Ion Ratio Lower Upper
 94 100
 79 0.0 30.6 71.4#



#99
 Hexachlorobutadiene
 Concen: 0.16 ug/L
 RT: 19.87 min Scan# 1701
 Delta R.T. 0.01 min
 Lab File: 8M381039.D
 Acq: 25 Jul 2012 11:04

Tgt Ion: 225 Resp: 801
 Ion Ratio Lower Upper
 225 100
 223 26.1 37.6 87.8#
 190 0.0 27.7 64.5#



Data File : C:\MSDCHEM\1\DATA\073012\8M381192.D Vial: 4
 Acq On : 30 Jul 2012 12:16 Operator: ADC
 Sample : WG404914-01 VBLK0730 BLANK 8260 Inst : HPMS8
 Misc : 1,1 Multiplr: 1.00
 MS Integration Params: RTEINT.P
 Quant Time: Jul 31 11:38:55 2012 Quant Results File: 8260WTR.RES

Quant Method : C:\MSDCHEM\1\METHODS\8260WTR.M (RTE Integrator)
 Title : Method 8260B/624 WTR-SOP:OVLMSV01 06/28/12 HPMS 8
 Last Update : Fri Jun 29 09:29:43 2012
 Response via : Initial Calibration
 DataAcq Meth : 8260WTR

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene	10.17	96	585494	25.00	ug/L	0.00
57) Chlorobenzene-d5	14.03	117	471336	25.00	ug/L	0.00
78) 1,4-Dichlorobenzene-d4	17.04	152	255139	25.00	ug/L	0.00
System Monitoring Compounds						
37) Dibromofluoromethane	9.13	111	154123	24.4778	ug/L	0.00
Spiked Amount 25.000	Range	86 - 118	Recovery	=	97.92%	
43) 1,2-Dichloroethane-d4	9.76	65	120347	20.5097	ug/L	0.00
Spiked Amount 25.000	Range	80 - 120	Recovery	=	82.04%	
58) Toluene-d8	12.15	98	552987	25.6779	ug/L	0.00
Spiked Amount 25.000	Range	88 - 110	Recovery	=	102.72%	
80) p-Bromofluorobenzene	15.53	95	217905	25.7274	ug/L	0.00
Spiked Amount 25.000	Range	86 - 115	Recovery	=	102.92%	
Target Compounds						
56) Dimethyl Disulfide	12.16	94	15118	2.0409	ug/L #	27
99) Hexachlorobutadiene	19.86	225	832	0.1902	ug/L #	43

 (#) = qualifier out of range (m) = manual integration
 8M381192.D 8260WTR.M Tue Jul 31 11:38:55 2012

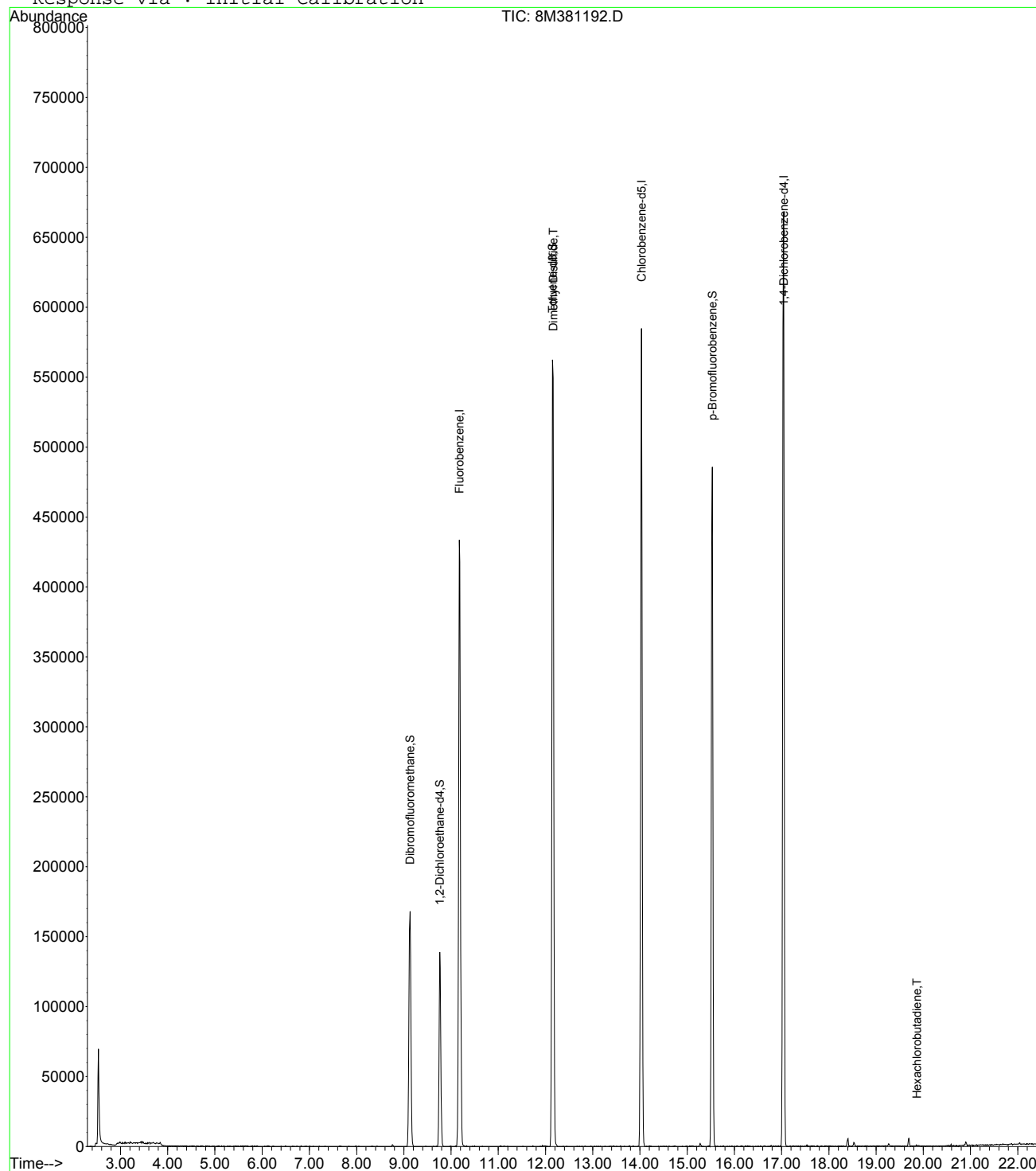
Page 1

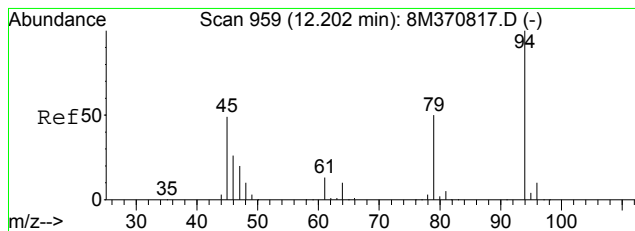
Data File : C:\MSDCHEM\1\DATA\073012\8M381192.D
 Acq On : 30 Jul 2012 12:16
 Sample : WG404914-01 VBLK0730 BLANK 8260
 Misc : 1,1
 MS Integration Params: RTEINT.P
 Quant Time: Jul 31 11:38 2012

Vial: 4
 Operator: ADC
 Inst : HPMS8
 Multiplr: 1.00

Quant Results File: 8260WTR.RES

Method : C:\MSDCHEM\1\METHODS\8260WTR.M (RTE Integrator)
 Title : Method 8260B/624 WTR-SOP:OVLMSV01 06/28/12 HPMS 8
 Last Update : Fri Jun 29 09:29:43 2012
 Response via : Initial Calibration

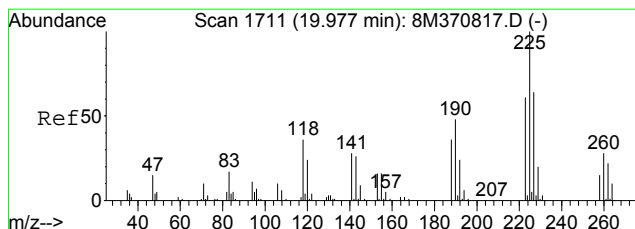
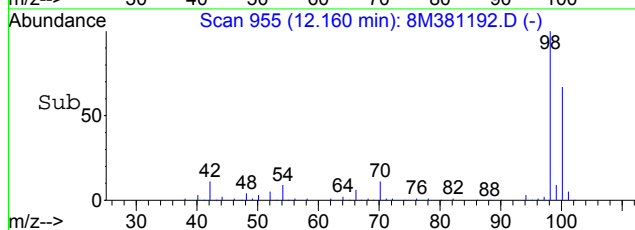
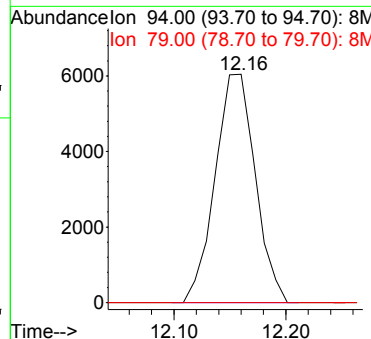
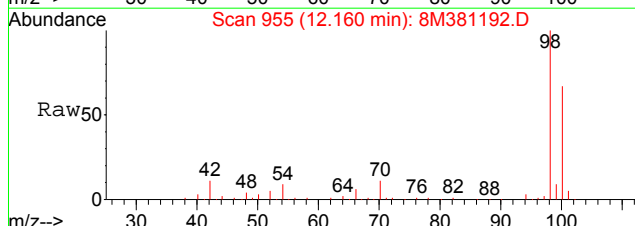




#56
 Dimethyl Disulfide
 Concen: 2.04 ug/L
 RT: 12.16 min Scan# 955
 Delta R.T. 0.07 min
 Lab File: 8M381192.D
 Acq: 30 Jul 2012 12:16

Tgt Ion: 94 Resp: 15118

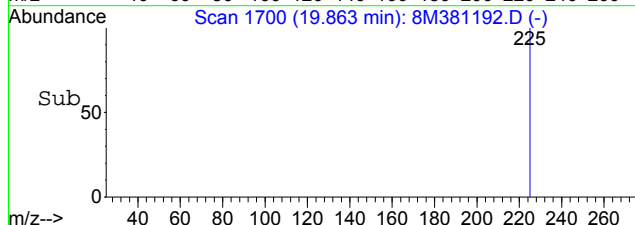
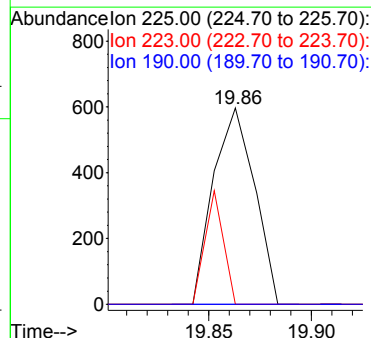
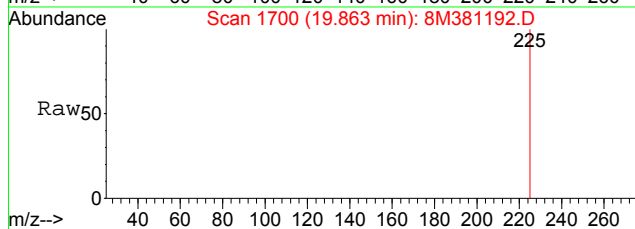
Ion	Ratio	Lower	Upper
94	100		
79	0.0	30.6	71.4#



#99
 Hexachlorobutadiene
 Concen: 0.19 ug/L
 RT: 19.86 min Scan# 1700
 Delta R.T. 0.00 min
 Lab File: 8M381192.D
 Acq: 30 Jul 2012 12:16

Tgt Ion: 225 Resp: 832

Ion	Ratio	Lower	Upper
225	100		
223	25.7	37.6	87.8#
190	0.0	27.7	64.5#



Data File : C:\MSDCHEM\1\data\072112\10M97160.D Vial: 5
 Acq On : 21 Jul 2012 17:38 Operator: MES
 Sample : WG404058-02 20ug/L LCS 8260 Inst : HPMS10
 Misc : 1,1 STD52919 Multiplr: 1.00
 MS Integration Params: RTEINT.P
 Quant Time: Jul 21 18:00:43 2012 Quant Results File: 8260BWT.RES

Quant Method : C:\MSDCHEM\1\METHODS\8260BWT.M (RTE Integrator)
 Title : 8260B/624 WT (SOP: OVL MSV01) 06/26/12 HPMS10
 Last Update : Tue Jul 10 17:22:08 2012
 Response via : Initial Calibration
 DataAcq Meth : 8260BWT

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene	10.10	96	480348	25.00	ug/L	0.00
57) Chlorobenzene-d5	13.70	117	365836	25.00	ug/L	-0.01
78) 1,4-Dichlorobenzene-d4	16.51	152	201790	25.00	ug/L	-0.01

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
37) Dibromofluoromethane	9.12	111	109339	24.83	ug/L	0.00
Spiked Amount	25.000	Range 86 - 118	Recovery	=	99.32%	
43) 1,2-Dichloroethane-d4	9.72	65	113922	24.76	ug/L	0.00
Spiked Amount	25.000	Range 80 - 120	Recovery	=	99.04%	
58) Toluene-d8	11.95	98	389730	24.95	ug/L	0.00
Spiked Amount	25.000	Range 88 - 110	Recovery	=	99.80%	
80) p-Bromofluorobenzene	15.10	95	147770	24.45	ug/L	0.00
Spiked Amount	25.000	Range 86 - 115	Recovery	=	97.80%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	2.94	85	154616	37.51	ug/L	99
3) Chloromethane	3.35	50	202420	28.18	ug/L	96
4) Vinyl Chloride	3.56	62	157845	29.02	ug/L	99
5) 1,3-Butadiene	3.59	54	45926	13.50	ug/L	93
6) Bromomethane	4.39	94	63535	23.03	ug/L	100
7) Chloroethane	4.55	64	76451	23.04	ug/L	96
8) Trichlorofluoromethane	5.01	101	166674	22.52	ug/L	99
9) Diethyl ether	5.52	59	327134	88.92	ug/L	91
10) Isoprene	5.55	67	134231	19.21	ug/L	93
11) Acrolein	5.75	56	57177	100.02	ug/L	99
12) 1,1,2-Trichloro-1,2,2-Trif	5.77	101	99717	23.72	ug/L	96
13) Acetone	5.84	43	21673	19.23	ug/L	95
14) 1,1-Dichloroethene	6.06	96	88375	22.00	ug/L	96
15) Tert-Butyl Alcohol	6.17	59	43020	143.62	ug/L	97
16) Dimethyl Sulfide	6.32	62	111585	21.41	ug/L	86
17) Iodomethane	6.55	142	87710	11.74	ug/L	92
18) Methyl acetate	6.56	43	64916	22.14	ug/L	92
19) Methylene Chloride	6.81	84	98582	20.55	ug/L	80
20) Carbon Disulfide	6.84	76	280488	23.39	ug/L	99
21) Acrylonitrile	6.99	53	25505	18.09	ug/L	99
22) Methyl Tert Butyl Ether	7.02	73	216775	20.05	ug/L	97
23) trans-1,2-Dichloroethene	7.25	96	98135	21.36	ug/L	94
24) n-Hexane	7.33	57	132107	22.52	ug/L	96
25) Diisopropyl ether	7.66	45	1870646	110.52	ug/L	95
26) Vinyl Acetate	7.81	43	150911	27.92	ug/L	93
27) 1,1-Dichloroethane	7.84	63	190788	21.64	ug/L	99
28) Ethyl-Tert-Butyl ether	8.21	59	1448328	98.50	ug/L	96
29) 2-Butanone	8.37	43	29201	18.52	ug/L	92
30) Propionitrile	8.48	54	40142	89.99	ug/L	97
31) 2,2-Dichloropropane	8.58	77	157020	22.79	ug/L	93
32) cis-1,2-Dichloroethene	8.64	96	108431	21.46	ug/L	95
33) Chloroform	8.84	83	182214	21.73	ug/L	100
34) 1-Bromopropane	8.97	122	21465	27.34	ug/L	99
35) Bromochloromethane	9.05	128	47054	20.96	ug/L	86
36) Tetrahydrofuran	9.07	42	85797	89.36	ug/L	89
38) 1,1,1-Trichloroethane	9.34	97	161215	21.90	ug/L	97
39) Cyclohexane	9.37	56	168219	23.84	ug/L	94
40) 1,1-Dichloropropene	9.53	75	135381	21.48	ug/L	100
41) Carbon Tetrachloride	9.66	117	147299	22.74	ug/L	99
42) Tert-Amyl-Methyl ether	9.63	73	1169230	100.44	ug/L	98

(#) = qualifier out of range (m) = manual integration
 10M97160.D 8260BWT.M Sat Jul 21 18:00:44 2012

Data File : C:\MSDCHEM\1\data\072112\10M97160.D Vial: 5
 Acq On : 21 Jul 2012 17:38 Operator: MES
 Sample : WG404058-02 20ug/L LCS 8260 Inst : HPMS10
 Misc : 1,1 STD52919 Multiplr: 1.00
 MS Integration Params: RTEINT.P
 Quant Time: Jul 21 18:00:43 2012 Quant Results File: 8260BWT.RES

Quant Method : C:\MSDCHEM\1\METHODS\8260BWT.M (RTE Integrator)
 Title : 8260B/624 WT (SOP: OVL MSV01) 06/26/12 HPMS10
 Last Update : Tue Jul 10 17:22:08 2012
 Response via : Initial Calibration
 DataAcq Meth : 8260BWT

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
45) 1,2-Dichloroethane	9.83	62	128928	20.98	ug/L	90
46) Benzene	9.86	78	391907	21.31	ug/L	100
47) Trichloroethene	10.57	130	103269	21.02	ug/L	97
48) Methylcyclohexane	10.65	83	140056	22.65	ug/L	95
49) 1,2-Dichloropropane	10.77	63	103248	21.08	ug/L	93
50) Bromodichloromethane	11.05	83	134103	21.03	ug/L	99
51) 1,4-Dioxane	11.04	88	3472	111.00	ug/L	96
52) Dibromomethane	11.13	93	52288	20.26	ug/L	95
53) 2-Chloroethyl Vinyl Ether	11.34	63	34931	14.13	ug/L	99
54) 4-Methyl-2-Pentanone	11.37	58	21086	17.21	ug/L	97
55) cis-1,3-Dichloropropene	11.65	75	148878	21.37	ug/L	96
56) Dimethyl Disulfide	11.90	79	79699	19.20	ug/L	97
59) Toluene	12.04	91	410482	20.65	ug/L	98
60) Ethyl Methacrylate	12.13	69	87248	19.69	ug/L	95
62) trans-1,3-Dichloropropene	12.21	75	118387	17.72	ug/L	99
63) 1,1,2-Trichloroethane	12.41	97	68003	18.72	ug/L	99
64) 2-Hexanone	12.35	43	38980	16.83	ug/L #	56
65) 1,3-Dichloropropane	12.69	76	120804	18.87	ug/L	91
66) Tetrachloroethene	12.81	164	84833	20.47	ug/L	91
67) Dibromochloromethane	13.05	129	87520	19.39	ug/L	100
68) 1,2-Dibromoethane	13.29	107	67170	19.21	ug/L	99
69) 1-Chlorohexane	13.37	91	126877	20.57	ug/L	94
70) Chlorobenzene	13.76	112	262415	19.62	ug/L	100
71) 1,1,1,2-Tetrachloroethane	13.79	131	102589	20.14	ug/L	96
72) Ethylbenzene	13.79	106	145792	19.79	ug/L	94
73) m-,p-Xylene	13.87	106	351786	41.27	ug/L	95
74) o-Xylene	14.39	106	167021	19.50	ug/L	97
75) Styrene	14.42	104	279755	20.13	ug/L	100
76) Bromoform	14.87	173	55130	18.08	ug/L	99
77) Isopropylbenzene	14.78	105	374076	18.03	ug/L	99
79) 1,1,2,2-Tetrachloroethane	14.98	83	74949	18.53	ug/L	97
81) 1,2,3-Trichloropropane	15.15	110	21803	17.76	ug/L	82
82) trans-1,4-Dichloro-2-Butene	15.20	53	20782	14.19	ug/L	85
83) n-Propylbenzene	15.24	91	510760	20.99	ug/L	99
84) Bromobenzene	15.37	156	117815	19.90	ug/L	67
85) 1,3,5-Trimethylbenzene	15.42	105	361203	20.97	ug/L	99
86) 2-Chlorotoluene	15.50	91	352887	21.38	ug/L	99
87) 4-Chlorotoluene	15.54	91	279969	19.08	ug/L	99
88) a-Methylstyrene	15.79	118	205256	20.16	ug/L	98
89) tert-Butylbenzene	15.85	134	77655	19.46	ug/L	91
90) 1,2,4-Trimethylbenzene	15.90	105	392339	21.64	ug/L	98
91) sec-Butylbenzene	16.10	105	423432	20.51	ug/L	99
92) p-Isopropyltoluene	16.25	119	360911	20.30	ug/L	98
93) 1,3-Dichlorobenzene	16.42	146	219326	19.90	ug/L	93
94) 1,4-Dichlorobenzene	16.55	146	218089	19.63	ug/L	94
95) n-Butylbenzene	16.73	91	334314	21.17	ug/L	99
96) 1,2-Dichlorobenzene	17.00	146	197989	19.52	ug/L	94
97) 1,2-Dibromo-3-Chloropropane	17.92	157	13036	15.24	ug/L	93
98) 1,2,4-Trichlorobenzene	18.97	180	124674	17.20	ug/L	99
99) Hexachlorobutadiene	19.11	225	52829	21.23	ug/L	97
100) Naphthalene	19.31	128	176275	14.21	ug/L	99
101) 1,2,3-Trichlorobenzene	19.60	180	106292	16.60	ug/L	98

(#) = qualifier out of range (m) = manual integration
 10M97160.D 8260BWT.M Sat Jul 21 18:00:44 2012

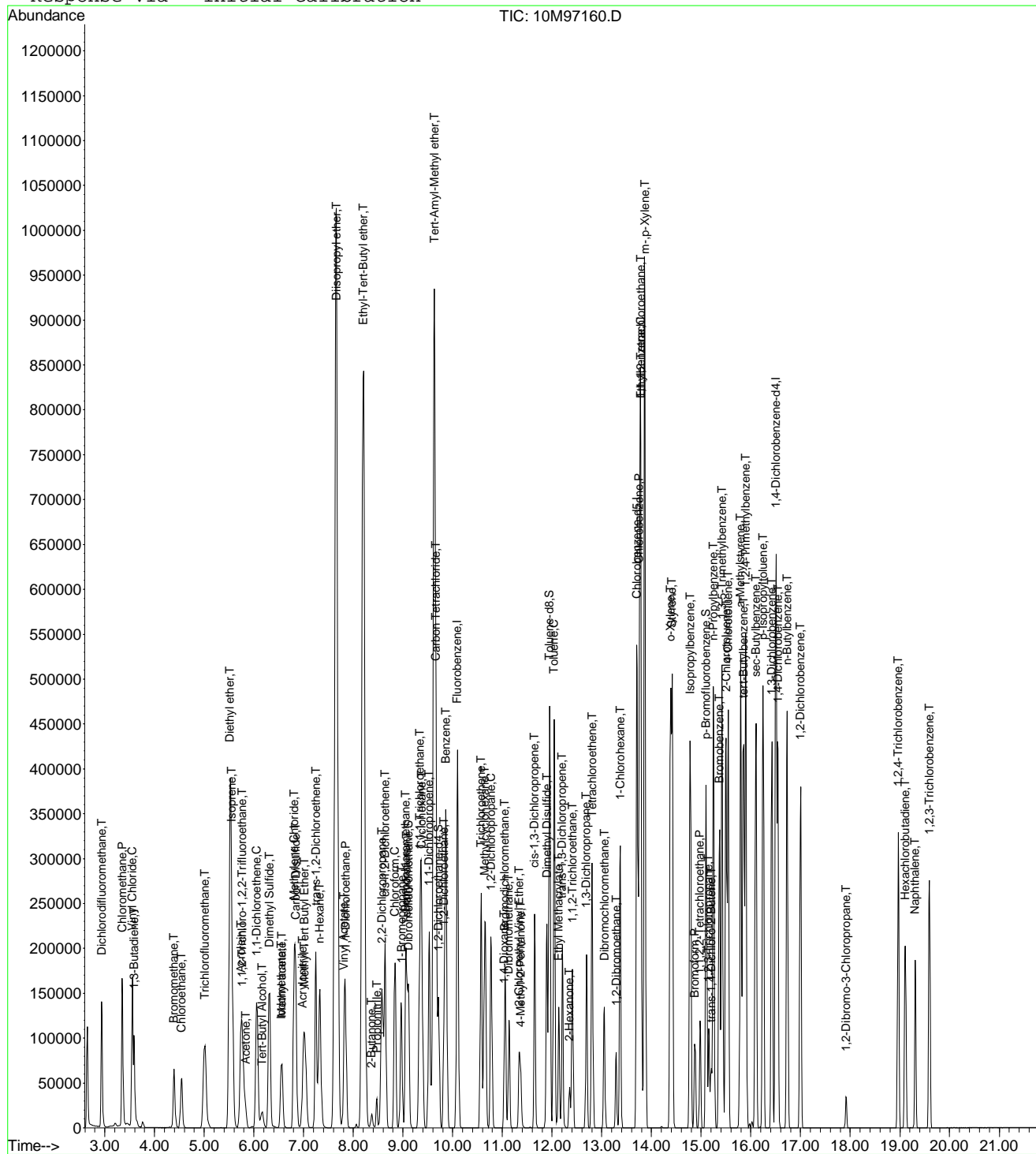
Page 2

Data File : C:\MSDchem\1\data\072112\10M97160.D
Acq On : 21 Jul 2012 17:38
Sample : WG404058-02 20ug/L LCS 8260
Misc : 1,1 STD52919
MS Integration Params: RTEINT.P
Quant Time: Jul 21 18:00 2012

Vial: 5
Operator: MES
Inst : HPMS10
Multiplr: 1.00

Quant Results File: 8260BWT.RES

Method : C:\MSDCHEM\1\METHODS\8260BWT.M (RTE Integrator)
Title : 8260B/624 WT (SOP: OVL MSV01) 06/26/12 HPMS10
Last Update : Tue Jul 10 17:22:08 2012
Response via : Initial Calibration



Data File : C:\MSDCHEM\1\data\072012\11M85446.D Vial: 6
 Acq On : 20 Jul 2012 18:06 Operator: FJB
 Sample : WG404020-02 20ug/L LCS 8260 Inst : hpms11
 Misc : 1,1 STD52879 Multiplr: 1.00
 MS Integration Params: rteint.p
 Quant Time: Jul 20 18:28:37 2012 Quant Results File: 8260WTR.RES

Quant Method : C:\MSDCHEM\1\METHODS\8260WTR.M (RTE Integrator)
 Title : 8260B/624 (SOP: OVL MSV01) Water 05/03/12 HPMS11
 Last Update : Fri Jul 13 11:24:02 2012
 Response via : Initial Calibration
 DataAcq Meth : 8260WTR

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene	10.28	96	528919	25.00	ug/L	-0.01
57) Chlorobenzene-d5	13.91	117	399720	25.00	ug/L	-0.01
78) 1,4-Dichlorobenzene-d4	16.72	152	227524	25.00	ug/L	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
37) Dibromofluoromethane	9.30	111	144238	22.3790	ug/L	0.00
Spiked Amount	25.000	Range 86 - 118	Recovery	=	89.52%	
43) 1,2-Dichloroethane-d4	9.90	65	125450	20.3407	ug/L	0.00
Spiked Amount	25.000	Range 80 - 120	Recovery	=	81.36%	
58) Toluene-d8	12.15	98	529061	25.0927	ug/L	0.00
Spiked Amount	25.000	Range 88 - 110	Recovery	=	100.36%	
80) p-Bromofluorobenzene	15.30	95	184366	24.5152	ug/L	-0.01
Spiked Amount	25.000	Range 86 - 115	Recovery	=	98.08%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	3.04	85	146468	21.4602	ug/L	97
3) Chloromethane	3.46	50	231435	19.7445	ug/L	100
4) Vinyl Chloride	3.68	62	227574	17.3447	ug/L	98
5) 1,3-Butadiene	3.71	54	92974	11.4812	ug/L	100
6) Bromomethane	4.54	94	74761	19.8894	ug/L	100
7) Chloroethane	4.69	64	75856	18.7801	ug/L	97
8) Trichlorofluoromethane	5.17	101	190626	16.7152	ug/L	100
9) Diethyl ether	5.69	59	337294	83.7855	ug/L	95
10) Isoprene	5.72	67	154117	17.3692	ug/L	99
11) Acrolein	5.91	56	25271	90.3803	ug/L	98
12) 1,1,2-Trichloro-1,2,2-Trif	5.94	101	115618	19.5520	ug/L	98
13) Acetone	6.02	43	17422	17.2677	ug/L	83
14) 1,1-Dichloroethene	6.23	61	158500	19.7413	ug/L	95
15) Tert-Butyl Alcohol	6.33	59	47372	177.6109	ug/L	95
16) Dimethyl Sulfide	6.48	62	118472	18.0163	ug/L	93
17) Iodomethane	6.73	142	116602	14.5226	ug/L	95
18) Methyl acetate	6.74	43	49686	14.5441	ug/L	96
19) Methylene Chloride	6.98	84	112412	19.6996	ug/L	93
20) Carbon Disulfide	7.02	76	336367	20.5503	ug/L	99
21) Acrylonitrile	7.16	53	21209	18.1984	ug/L	99
22) Methyl Tert Butyl Ether	7.20	73	238483	17.8882	ug/L	98
23) trans-1,2-Dichloroethene	7.42	96	117239	20.4524	ug/L	97
24) n-Hexane	7.50	57	124223	21.4495	ug/L	99
25) Diisopropyl ether	7.83	45	1608365	95.7974	ug/L	96
26) Vinyl Acetate	7.99	43	75459	23.8102	ug/L	98
27) 1,1-Dichloroethane	8.01	63	194870	20.2864	ug/L	99
28) Ethyl-Tert-Butyl ether	8.38	59	1481633	90.3782	ug/L	99
29) 2-Butanone	8.55	43	22767	16.7270	ug/L	98
30) Propionitrile	8.64	54	36475	90.8061	ug/L	99
31) 2,2-Dichloropropane	8.76	77	175174	22.5619	ug/L	99
32) cis-1,2-Dichloroethene	8.82	96	130401	20.9923	ug/L	100
33) Chloroform	9.02	83	203724	20.0602	ug/L	96
34) 1-Bromopropane	9.15	122	29014	24.9758	ug/L	100
35) Bromochloromethane	9.23	130	78363	19.8575	ug/L	99
36) Tetrahydrofuran	9.26	42	69168	78.2977	ug/L	99
38) 1,1,1-Trichloroethane	9.52	97	187052	19.6336	ug/L	97
39) Cyclohexane	9.55	56	165259	21.5300	ug/L	97
40) 1,1-Dichloropropene	9.71	75	152161	20.0855	ug/L	99
41) Carbon Tetrachloride	9.85	117	185688	18.5281	ug/L	99
42) Tert-Amyl-Methyl ether	9.81	73	1372581	91.5764	ug/L	100

(#) = qualifier out of range (m) = manual integration
 11M85446.D 8260WTR.M Fri Jul 20 18:28:38 2012

Data File : C:\MSDCHEM\1\data\072012\11M85446.D Vial: 6
 Acq On : 20 Jul 2012 18:06 Operator: FJB
 Sample : WG404020-02 20ug/L LCS 8260 Inst : hpms11
 Misc : 1,1 STD52879 Multiplr: 1.00
 MS Integration Params: rteint.p
 Quant Time: Jul 20 18:28:37 2012 Quant Results File: 8260WTR.RES

Quant Method : C:\MSDCHEM\1\METHODS\8260WTR.M (RTE Integrator)
 Title : 8260B/624 (SOP: OVL MSV01) Water 05/03/12 HPMS11
 Last Update : Fri Jul 13 11:24:02 2012
 Response via : Initial Calibration
 DataAcq Meth : 8260WTR

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
45) 1,2-Dichloroethane	10.01	62	128065	17.9363	ug/L	99
46) Benzene	10.05	78	449080	20.2904	ug/L	99
47) Trichloroethene	10.76	130	147040	20.2630	ug/L	98
48) Methylcyclohexane	10.85	83	167019	21.9846	ug/L	99
49) 1,2-Dichloropropane	10.96	63	105225	20.6523	ug/L	95
50) 1,4-Dioxane	11.24	88	5318	146.8047	ug/L	95
51) Bromodichloromethane	11.25	83	141957	20.3553	ug/L	100
52) Dibromomethane	11.32	93	59233	17.5224	ug/L	96
53) 2-Chloroethyl Vinyl Ether	11.52	63	33800	15.5516	ug/L	100
54) 4-Methyl-2-Pentanone	11.55	58	19854	16.6792	ug/L	97
55) cis-1,3-Dichloropropene	11.84	75	158202	19.6935	ug/L	99
56) Dimethyl Disulfide	12.09	79	88291	20.5074	ug/L	91
59) Toluene	12.24	91	495232	20.5983	ug/L	99
60) Ethyl Methacrylate	12.32	69	91101	18.3223	ug/L	90
62) trans-1,3-Dichloropropene	12.40	75	119661	18.5635	ug/L	100
63) 1,1,2-Trichloroethane	12.60	97	77970	19.6338	ug/L	100
64) 2-Hexanone	12.54	43	30058	14.9686	ug/L	77
65) 1,3-Dichloropropane	12.89	76	131900	19.7731	ug/L	89
66) Tetrachloroethene	13.01	164	107359	21.7951	ug/L	100
67) Dibromochloromethane	13.26	129	102939	18.9476	ug/L	100
68) 1,2-Dibromoethane	13.49	107	76803	18.6758	ug/L	100
69) 1-Chlorohexane	13.57	91	160541	23.2910	ug/L	96
70) Chlorobenzene	13.96	112	335821	20.9838	ug/L	100
71) 1,1,1,2-Tetrachloroethane	13.99	131	125536	20.9462	ug/L	99
72) Ethylbenzene	13.98	106	179321	20.6480	ug/L	98
73) m-,p-Xylene	14.06	106	434042	40.4729	ug/L	97
74) o-Xylene	14.59	106	202865	19.4188	ug/L	98
75) Styrene	14.62	104	323474	19.4603	ug/L	100
76) Bromoform	15.09	173	59664	19.7879	ug/L	98
77) Isopropylbenzene	14.98	105	450309	18.3091	ug/L	99
79) 1,1,2,2-Tetrachloroethane	15.19	83	61984	15.3042	ug/L	97
81) 1,2,3-Trichloropropane	15.36	110	23943	19.5315	ug/L	90
82) trans-1,4-Dichloro-2-Butene	15.41	53	12915	12.3096	ug/L #	32
83) n-Propylbenzene	15.46	91	599955	20.2661	ug/L	99
84) Bromobenzene	15.58	156	144581	20.4430	ug/L	98
85) 1,3,5-Trimethylbenzene	15.63	105	424601	19.3131	ug/L	100
86) 2-Chlorotoluene	15.71	91	369848	18.5765	ug/L	89
87) 4-Chlorotoluene	15.75	91	365366	20.9698	ug/L	89
88) a-Methylstyrene	16.01	118	251192	20.5157	ug/L	100
89) tert-Butylbenzene	16.06	134	92936	19.4237	ug/L	95
90) 1,2,4-Trimethylbenzene	16.11	105	464884	20.3242	ug/L	100
91) sec-Butylbenzene	16.31	105	514533	20.0440	ug/L	98
92) p-Isopropyltoluene	16.46	119	460212	20.8939	ug/L	99
93) 1,3-Dichlorobenzene	16.64	146	275678	19.8744	ug/L	98
94) 1,4-Dichlorobenzene	16.76	146	274896	19.4700	ug/L	99
95) n-Butylbenzene	16.95	91	391208	23.3164	ug/L	99
96) 1,2-Dichlorobenzene	17.22	146	252729	20.1032	ug/L	98
97) 1,2-Dibromo-3-Chloropropane	18.14	75	9253	13.1357	ug/L	93
98) 1,2,4-Trichlorobenzene	19.19	180	153134	21.5388	ug/L	96
99) Hexachlorobutadiene	19.34	225	62905	22.4360	ug/L	94
100) Naphthalene	19.53	128	230318	15.1236	ug/L	99
101) 1,2,3-Trichlorobenzene	19.82	180	129810	19.5376	ug/L	97

(#) = qualifier out of range (m) = manual integration
 11M85446.D 8260WTR.M Fri Jul 20 18:28:38 2012

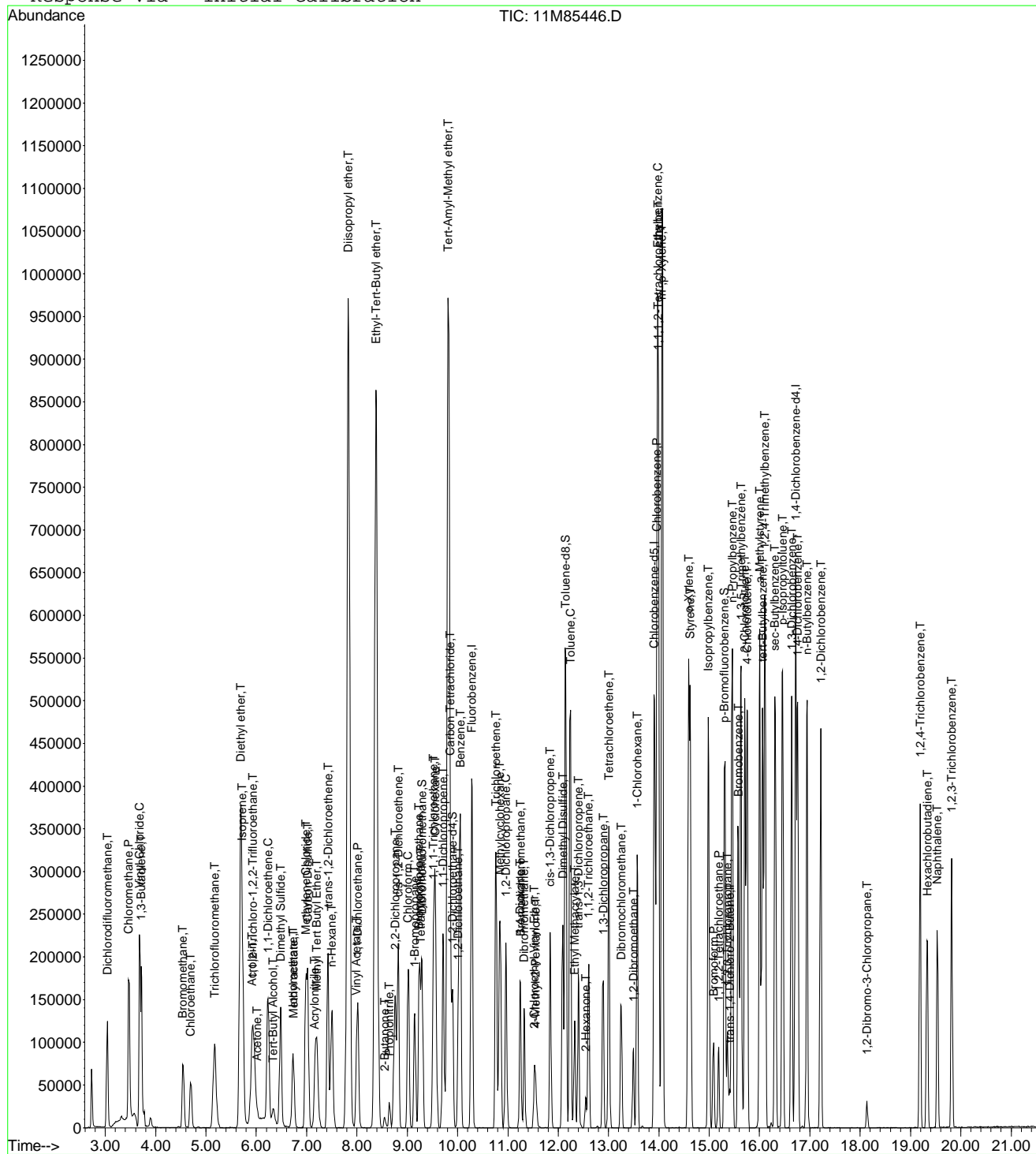
Page 2

Data File : C:\MSDCHEM\1\data\072012\11M85446.D
Acq On : 20 Jul 2012 18:06
Sample : WG404020-02 20ug/L LCS 8260
Misc : 1,1 STD52879
MS Integration Params: rteint.p
Quant Time: Jul 20 18:28 2012

Vial: 6
Operator: FJB
Inst : hpms11
Multiplr: 1.00

Quant Results File: 8260WTR.RES

Method : C:\MSDCHEM\1\METHODS\8260WTR.M (RTE Integrator)
Title : 8260B/624 (SOP: OVL MSV01) Water 05/03/12 HPMS11
Last Update : Fri Jul 13 11:24:02 2012
Response via : Initial Calibration



Data File : C:\MSDCHEM\1\data\072312\11M85503.D Vial: 5
 Acq On : 23 Jul 2012 14:25 Operator: FJB
 Sample : WG404130-02 20ug/L LCS 8260 Inst : hpms11
 Misc : 1,1 STD52879 Multiplr: 1.00
 MS Integration Params: rteint.p
 Quant Time: Jul 23 14:47:16 2012 Quant Results File: 8260WTR.RES

Quant Method : C:\MSDCHEM\1\METHODS\8260WTR.M (RTE Integrator)
 Title : 8260B/624 (SOP: OVL MSV01) Water 05/03/12 HPMS11
 Last Update : Fri Jul 13 11:24:02 2012
 Response via : Initial Calibration
 DataAcq Meth : 8260WTR

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene	10.28	96	568784	25.00	ug/L	-0.01
57) Chlorobenzene-d5	13.91	117	431684	25.00	ug/L	-0.01
78) 1,4-Dichlorobenzene-d4	16.72	152	236266	25.00	ug/L	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
37) Dibromofluoromethane	9.29	111	155382	22.4184	ug/L	-0.01
Spiked Amount	25.000	Range 86 - 118	Recovery	=	89.68%	
43) 1,2-Dichloroethane-d4	9.90	65	134463	20.2740	ug/L	0.00
Spiked Amount	25.000	Range 80 - 120	Recovery	=	81.08%	
58) Toluene-d8	12.14	98	575825	25.2884	ug/L	-0.01
Spiked Amount	25.000	Range 88 - 110	Recovery	=	101.16%	
80) p-Bromofluorobenzene	15.30	95	209305	26.8015	ug/L	-0.01
Spiked Amount	25.000	Range 86 - 115	Recovery	=	107.20%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	3.03	85	189479	25.8162	ug/L	97
3) Chloromethane	3.46	50	274284	21.7600	ug/L	95
4) Vinyl Chloride	3.67	62	285163	20.4329	ug/L	98
5) 1,3-Butadiene	3.71	54	73796	8.4742	ug/L	94
6) Bromomethane	4.54	94	96161	23.7896	ug/L	98
7) Chloroethane	4.69	64	86613	19.9403	ug/L	98
8) Trichlorofluoromethane	5.17	101	216575	17.6595	ug/L	100
9) Diethyl ether	5.69	59	360550	83.2852	ug/L	97
10) Isoprene	5.72	67	168433	17.6521	ug/L	97
11) Acrolein	5.90	56	55463	184.4575	ug/L	96
12) 1,1,2-Trichloro-1,2,2-Trif	5.92	101	134445	21.1423	ug/L	100
13) Acetone	6.01	43	23914	22.2771	ug/L	84
14) 1,1-Dichloroethene	6.22	61	192282	22.2703	ug/L	98
15) Tert-Butyl Alcohol	6.34	59	52218	182.0581	ug/L	95
16) Dimethyl Sulfide	6.48	62	163071	23.0605	ug/L	94
17) Iodomethane	6.72	142	115443	13.3980	ug/L	94
18) Methyl acetate	6.74	43	61211	16.6618	ug/L	98
19) Methylene Chloride	6.98	84	130003	21.1856	ug/L	93
20) Carbon Disulfide	7.02	76	339418	19.2833	ug/L	99
21) Acrylonitrile	7.16	53	23010	18.3600	ug/L	100
22) Methyl Tert Butyl Ether	7.20	73	251043	17.5105	ug/L	98
23) trans-1,2-Dichloroethene	7.41	96	132441	21.4850	ug/L	100
24) n-Hexane	7.50	57	131503	21.1151	ug/L	97
25) Diisopropyl ether	7.83	45	1801578	99.7847	ug/L	96
26) Vinyl Acetate	7.98	43	53063	16.4668	ug/L	97
27) 1,1-Dichloroethane	8.01	63	221983	21.4893	ug/L	99
28) Ethyl-Tert-Butyl ether	8.38	59	1515198	85.9477	ug/L	98
29) 2-Butanone	8.54	43	25575	17.4731	ug/L	95
30) Propionitrile	8.64	54	40557	93.8917	ug/L	97
31) 2,2-Dichloropropane	8.76	77	114260	13.6849	ug/L	99
32) cis-1,2-Dichloroethene	8.82	96	143592	21.4957	ug/L	95
33) Chloroform	9.02	83	229771	21.0393	ug/L	97
34) 1-Bromopropane	9.15	122	30470	24.3908	ug/L	99
35) Bromochloromethane	9.23	130	84818	19.9868	ug/L	99
36) Tetrahydrofuran	9.26	42	77872	81.9723	ug/L	99
38) 1,1,1-Trichloroethane	9.52	97	204957	20.0052	ug/L	97
39) Cyclohexane	9.55	56	180758	21.8987	ug/L	95
40) 1,1-Dichloropropene	9.71	75	176052	21.6104	ug/L	99
41) Carbon Tetrachloride	9.84	117	193800	17.9916	ug/L	99
42) Tert-Amyl-Methyl ether	9.81	73	1312782	81.4479	ug/L	100

(#) = qualifier out of range (m) = manual integration
 11M85503.D 8260WTR.M Mon Jul 23 14:47:17 2012

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Data File : C:\MSDCHEM\1\data\072312\11M85503.D Vial: 5
 Acq On : 23 Jul 2012 14:25 Operator: FJB
 Sample : WG404130-02 20ug/L LCS 8260 Inst : hpms11
 Misc : 1,1 STD52879 Multiplr: 1.00
 MS Integration Params: rteint.p
 Quant Time: Jul 23 14:47:16 2012 Quant Results File: 8260WTR.RES

Quant Method : C:\MSDCHEM\1\METHODS\8260WTR.M (RTE Integrator)
 Title : 8260B/624 (SOP: OVL MSV01) Water 05/03/12 HPMS11
 Last Update : Fri Jul 13 11:24:02 2012
 Response via : Initial Calibration
 DataAcq Meth : 8260WTR

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
45) 1,2-Dichloroethane	10.01	62	140811	18.3392	ug/L	99
46) Benzene	10.05	78	512345	21.5264	ug/L	100
47) Trichloroethene	10.75	130	160700	20.5933	ug/L	99
48) Methylcyclohexane	10.84	83	177773	21.7601	ug/L	99
49) 1,2-Dichloropropane	10.96	63	120871	22.0604	ug/L	95
50) 1,4-Dioxane	11.24	88	6200	159.1567	ug/L	96
51) Bromodichloromethane	11.24	83	157322	20.9775	ug/L	99
52) Dibromomethane	11.32	93	65985	18.1435	ug/L	97
53) 2-Chloroethyl Vinyl Ether	11.52	63	21689	9.2798	ug/L	95
54) 4-Methyl-2-Pentanone	11.55	58	23297	18.1999	ug/L	97
55) cis-1,3-Dichloropropene	11.84	75	149889	17.3509	ug/L	98
56) Dimethyl Disulfide	12.09	79	45923	10.5903	ug/L	97
59) Toluene	12.23	91	562412	21.6605	ug/L	100
60) Ethyl Methacrylate	12.33	69	97986	18.2502	ug/L	91
62) trans-1,3-Dichloropropene	12.40	75	90109	12.9439	ug/L	99
63) 1,1,2-Trichloroethane	12.60	97	87146	20.3195	ug/L	99
64) 2-Hexanone	12.54	43	35022	16.1492	ug/L	83
65) 1,3-Dichloropropane	12.88	76	145631	20.2150	ug/L	90
66) Tetrachloroethene	13.01	164	119835	22.5265	ug/L	100
67) Dibromochloromethane	13.25	129	105730	18.0482	ug/L	99
68) 1,2-Dibromoethane	13.48	107	84168	18.9512	ug/L	100
69) 1-Chlorohexane	13.57	91	163274	21.9336	ug/L	98
70) Chlorobenzene	13.96	112	377760	21.8566	ug/L	100
71) 1,1,1,2-Tetrachloroethane	13.99	131	135656	20.9578	ug/L	99
72) Ethylbenzene	13.98	106	201459	21.4795	ug/L	97
73) m-,p-Xylene	14.06	106	486284	41.9868	ug/L	98
74) o-Xylene	14.59	106	227411	20.1565	ug/L	98
75) Styrene	14.62	104	366956	20.4415	ug/L	100
76) Bromoform	15.09	173	56935	17.6269	ug/L	99
77) Isopropylbenzene	14.98	105	504453	18.9919	ug/L	100
79) 1,1,2,2-Tetrachloroethane	15.18	83	76818	18.2650	ug/L	99
81) 1,2,3-Trichloropropane	15.36	110	27620	21.6973	ug/L	78
82) trans-1,4-Dichloro-2-Butene	15.40	53	3015	3.9786	ug/L #	1
83) n-Propylbenzene	15.45	91	669601	21.7817	ug/L	99
84) Bromobenzene	15.57	156	161970	22.0543	ug/L	96
85) 1,3,5-Trimethylbenzene	15.62	105	473772	20.7524	ug/L	100
86) 2-Chlorotoluene	15.71	91	429244	20.7621	ug/L	100
87) 4-Chlorotoluene	15.75	91	388887	21.4939	ug/L	99
88) a-Methylstyrene	16.00	118	257329	20.2393	ug/L	99
89) tert-Butylbenzene	16.06	134	101317	20.3918	ug/L	99
90) 1,2,4-Trimethylbenzene	16.11	105	514592	21.6650	ug/L	100
91) sec-Butylbenzene	16.31	105	551618	20.6936	ug/L	99
92) p-Isopropyltoluene	16.45	119	484032	21.1622	ug/L	99
93) 1,3-Dichlorobenzene	16.64	146	295788	20.5352	ug/L	98
94) 1,4-Dichlorobenzene	16.75	146	295273	20.1394	ug/L	99
95) n-Butylbenzene	16.94	91	410819	23.5793	ug/L	99
96) 1,2-Dichlorobenzene	17.22	146	264705	20.2767	ug/L	99
97) 1,2-Dibromo-3-Chloropropane	18.13	75	11039	15.0103	ug/L	97
98) 1,2,4-Trichlorobenzene	19.19	180	173545	23.5065	ug/L	97
99) Hexachlorobutadiene	19.34	225	60960	20.9541	ug/L	94
100) Naphthalene	19.53	128	289184	18.1925	ug/L	99
101) 1,2,3-Trichlorobenzene	19.82	180	148954	21.5895	ug/L	98

(#) = qualifier out of range (m) = manual integration
 11M85503.D 8260WTR.M Mon Jul 23 14:47:17 2012

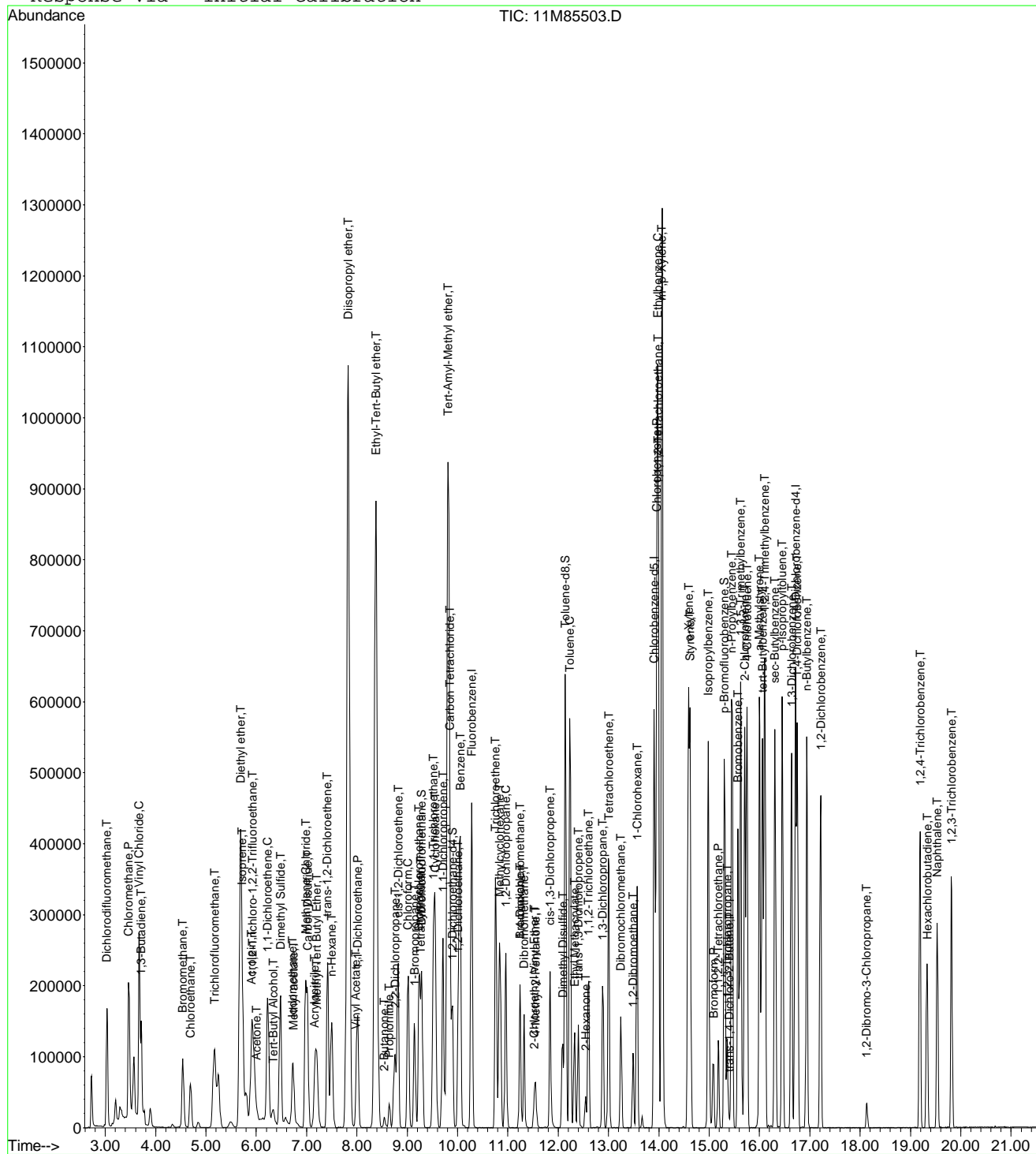
Page 2

Data File : C:\MSDCHEM\1\data\072312\11M85503.D
Acq On : 23 Jul 2012 14:25
Sample : WG404130-02 20ug/L LCS 8260
Misc : 1,1 STD52879
MS Integration Params: rteint.p
Quant Time: Jul 23 14:47 2012

Vial: 5
Operator: FJB
Inst : hpms11
Multiplr: 1.00

Quant Results File: 8260WTR.RES

Method : C:\MSDCHEM\1\METHODS\8260WTR.M (RTE Integrator)
Title : 8260B/624 (SOP: OVL MSV01) Water 05/03/12 HPMS11
Last Update : Fri Jul 13 11:24:02 2012
Response via : Initial Calibration



Data File : C:\MSDCHEM\1\data\072512\8M381040.D Vial: 5
 Acq On : 25 Jul 2012 11:34 Operator: adc
 Sample : WG404417-02 20ug/L LCS 8260 Inst : HPMS8
 Misc : 1,1 STD52919 Multiplr: 1.00

MS Integration Params: RTEINT.P

Quant Time: Jul 25 11:57:13 2012

Quant Results File: 8260WTR.RES

Quant Method : C:\MSDCHEM\1\METHODS\8260WTR.M (RTE Integrator)
 Title : Method 8260B/624 WTR-SOP:OVLMSV01 06/28/12 HPMS 8
 Last Update : Fri Jun 29 09:29:43 2012
 Response via : Initial Calibration
 DataAcq Meth : 8260WTR

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene	10.18	96	585883	25.00	ug/L	0.00
57) Chlorobenzene-d5	14.03	117	507715	25.00	ug/L	0.00
78) 1,4-Dichlorobenzene-d4	17.04	152	286324	25.00	ug/L	0.00

System Monitoring Compounds

37) Dibromofluoromethane	9.13	111	157789	25.0434	ug/L	0.00
Spiked Amount	25.000	Range	86 - 118	Recovery	=	100.16%
43) 1,2-Dichloroethane-d4	9.76	65	123294	20.9980	ug/L	-0.01
Spiked Amount	25.000	Range	80 - 120	Recovery	=	84.00%
58) Toluene-d8	12.16	98	568886	24.5233	ug/L	0.00
Spiked Amount	25.000	Range	88 - 110	Recovery	=	98.08%
80) p-Bromofluorobenzene	15.53	95	238700	25.1131	ug/L	0.00
Spiked Amount	25.000	Range	86 - 115	Recovery	=	100.44%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	2.82	85	192165	23.1041	ug/L	99
3) Chloromethane	3.21	50	167000	14.9970	ug/L	98
4) Vinyl Chloride	3.42	62	117441	18.9824	ug/L	98
5) 1,3-Butadiene	3.46	54	32723	3.5725	ug/L	98
6) Bromomethane	4.24	94	100867	19.4788	ug/L	98
7) Chloroethane	4.39	64	104032	19.6636	ug/L	94
8) Trichlorofluoromethane	4.88	101	223365	18.1303	ug/L	99
9) Diethyl ether	5.41	59	383040	103.5444	ug/L	96
10) Isoprene	5.44	67	180525	19.5923	ug/L	93
11) Acrolein	5.60	56	50926	100.2032	ug/L	96
12) 1,1,2-Trichloro-1,2,2-Trif	5.66	101	133053	20.9874	ug/L	100
13) Acetone	5.71	43	19864	19.7533	ug/L	84
14) 1,1-Dichloroethene	5.94	61	200729	19.0662	ug/L	89
15) Tert-Butyl Alcohol	6.07	59	55195	248.7930	ug/L	92
16) Dimethyl Sulfide	6.19	62	147437	19.1388	ug/L	89
17) Iodomethane	6.43	142	158219	20.4196	ug/L	93
18) Methyl acetate	6.47	43	71455	17.3371	ug/L	96
19) Methylene Chloride	6.71	84	121176	18.6205	ug/L	87
20) Carbon Disulfide	6.74	76	379624	21.2259	ug/L	100
21) Acrylonitrile	6.87	53	29746	21.3193	ug/L	95
22) Methyl Tert Butyl Ether	6.96	73	242465	21.4902	ug/L	99
23) trans-1,2-Dichloroethene	7.17	61	193058	19.5341	ug/L	92
24) n-Hexane	7.30	57	144715	16.7805	ug/L	95
25) Diisopropyl ether	7.64	45	2079230	97.8359	ug/L	95
26) Vinyl Acetate	7.77	43	155511	33.0970	ug/L	97
27) 1,1-Dichloroethane	7.79	63	248500	19.9554	ug/L	99
28) Ethyl-Tert-Butyl ether	8.21	59	1667131	96.6838	ug/L	97
29) 2-Butanone	8.34	43	30816	20.4955	ug/L	94
30) Propionitrile	8.44	54	53012	123.8720	ug/L	100
31) 2,2-Dichloropropane	8.58	77	188348	18.3579	ug/L	100
32) cis-1,2-Dichloroethene	8.63	96	146276	21.5688	ug/L	87
33) Chloroform	8.84	83	216966	19.3021	ug/L	100
34) 1-Bromopropane	8.98	122	33260	28.5265	ug/L	99
35) Bromochloromethane	9.07	130	88035	22.0399	ug/L	92
36) Tetrahydrofuran	9.10	42	97593	109.2953	ug/L	94
38) 1,1,1-Trichloroethane	9.38	97	202060	18.6939	ug/L	100
39) Cyclohexane	9.43	56	216167	18.8203	ug/L	98
40) 1,1-Dichloropropene	9.58	75	174369	19.4186	ug/L	95
41) Tert-Amyl-Methyl ether	9.71	73	1307257	107.0607	ug/L	97
42) Carbon Tetrachloride	9.73	117	195620	18.9969	ug/L	99
45) 1,2-Dichloroethane	9.88	62	136547	17.3783	ug/L	99

(#) = qualifier out of range (m) = manual integration
 8M381040.D 8260WTR.M Wed Jul 25 11:57:42 2012

Page 1

Data File : C:\MSDCHEM\1\data\072512\8M381040.D Vial: 5
 Acq On : 25 Jul 2012 11:34 Operator: adc
 Sample : WG404417-02 20ug/L LCS 8260 Inst : HPMS8
 Misc : 1,1 STD52919 Multiplr: 1.00
 MS Integration Params: RTEINT.P
 Quant Time: Jul 25 11:57:13 2012 Quant Results File: 8260WTR.RES

Quant Method : C:\MSDCHEM\1\METHODS\8260WTR.M (RTE Integrator)
 Title : Method 8260B/624 WTR-SOP:OVLMSV01 06/28/12 HPMS 8
 Last Update : Fri Jun 29 09:29:43 2012
 Response via : Initial Calibration
 DataAcq Meth : 8260WTR

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
46) Benzene	9.92	78	513204	20.1929	ug/L	94
47) Trichloroethene	10.69	130	158343	20.0993	ug/L	98
48) Methylcyclohexane	10.79	83	160069	18.1147	ug/L	93
49) 1,2-Dichloropropane	10.90	63	138374	20.0714	ug/L	95
50) Bromodichloromethane	11.19	83	159724	19.9279	ug/L	99
51) 1,4-Dioxane	11.18	88	6099	230.5035	ug/L	100
52) Dibromomethane	11.26	93	63095	20.8274	ug/L	99
53) 2-Chloroethyl Vinyl Ether	11.51	63	57412	82.7450	ug/L	93
54) 4-Methyl-2-Pentanone	11.55	58	27643	21.3610	ug/L	99
55) cis-1,3-Dichloropropene	11.83	75	192002	21.9770	ug/L	99
56) Dimethyl Disulfide	12.08	94	206169	18.6304	ug/L	97
59) Toluene	12.25	91	552618	18.7044	ug/L	99
60) Ethyl Methacrylate	12.38	69	105910	21.6618	ug/L	85
62) trans-1,3-Dichloropropene	12.43	75	146203	18.8078	ug/L	100
63) 1,1,2-Trichloroethane	12.64	97	88697	21.1180	ug/L	99
64) 2-Hexanone	12.60	58	24460	20.5101	ug/L	94
65) 1,3-Dichloropropane	12.94	76	152496	20.6268	ug/L	85
66) Tetrachloroethene	13.08	164	131832	18.3205	ug/L	97
67) Dibromochloromethane	13.32	129	125153	20.1693	ug/L	99
68) 1,2-Dibromoethane	13.56	107	93157	20.9501	ug/L	98
69) 1-Chlorohexane	13.70	91	166407	17.7788	ug/L	93
70) Chlorobenzene	14.08	112	378396	18.6489	ug/L	96
71) 1,1,1,2-Tetrachloroethane	14.11	131	147552	19.1234	ug/L	99
72) Ethylbenzene	14.12	106	214805	18.2474	ug/L	99
73) m-,p-Xylene	14.22	106	522004	36.4593	ug/L	99
74) o-Xylene	14.76	106	262422	18.6143	ug/L	96
75) Styrene	14.80	104	437231	19.0980	ug/L	95
76) Bromoform	15.26	173	79230	20.5542	ug/L	99
77) Isopropylbenzene	15.20	105	542968	15.4721	ug/L	99
79) 1,1,2,2-Tetrachloroethane	15.39	83	91060	21.3540	ug/L	99
81) 1,2,3-Trichloropropane	15.59	110	29315	21.7325	ug/L	97
82) trans-1,4-Dichloro-2-Butene	15.64	53	24025	17.7527	ug/L	83
83) n-Propylbenzene	15.70	91	684963	17.7294	ug/L	100
84) Bromobenzene	15.81	156	177747	19.5334	ug/L	95
85) 1,3,5-Trimethylbenzene	15.89	105	513525	17.3937	ug/L	100
86) 2-Chlorotoluene	15.96	91	455364	18.3823	ug/L	99
87) 4-Chlorotoluene	16.00	91	432416	17.0281	ug/L	99
88) a-Methylstyrene	16.28	118	320711	19.1417	ug/L	99
89) tert-Butylbenzene	16.36	134	107323	16.2077	ug/L	96
90) 1,2,4-Trimethylbenzene	16.41	105	548618	18.1219	ug/L	100
91) sec-Butylbenzene	16.62	105	547371	15.9320	ug/L	99
92) p-Isopropyltoluene	16.78	119	487380	16.1967	ug/L	99
93) 1,3-Dichlorobenzene	16.96	146	328250	18.0185	ug/L	98
94) 1,4-Dichlorobenzene	17.08	146	332336	17.5182	ug/L	99
95) n-Butylbenzene	17.31	91	395303	15.4095	ug/L	99
96) 1,2-Dichlorobenzene	17.57	146	296987	18.1204	ug/L	99
97) 1,2-Dibromo-3-Chloropropane	18.55	75	15330	19.8335	ug/L	84
98) 1,2,4-Trichlorobenzene	19.70	180	187822	16.5922	ug/L	100
99) Hexachlorobutadiene	19.86	225	70087	14.2788	ug/L	99
100) Naphthalene	20.05	128	357410	20.4011	ug/L	99
101) 1,2,3-Trichlorobenzene	20.36	180	162559	16.6264	ug/L	99

(#) = qualifier out of range (m) = manual integration
 8M381040.D 8260WTR.M Wed Jul 25 11:57:48 2012

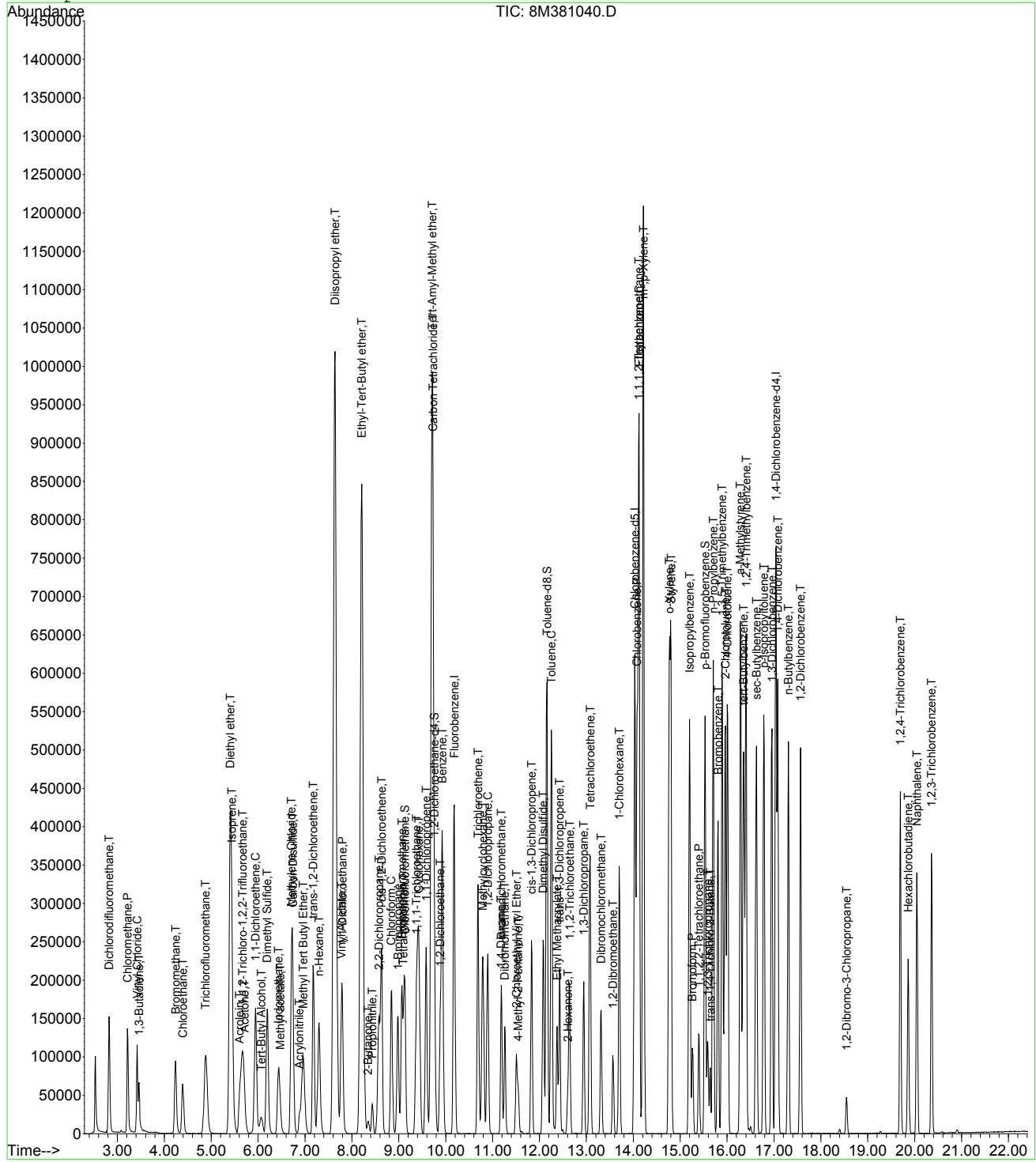
Page 2

Data File : C:\MSDCHEM\1\data\072512\8M381040.D
Acq On : 25 Jul 2012 11:34
Sample : WG404417-02 20ug/L LCS 8260
Misc : 1,1 STD52919
MS Integration Params: RTEINT.P
Quant Time: Jul 25 11:57 2012

Vial: 5
Operator: adc
Inst : HPMS8
Multiplr: 1.00

Quant Results File: 8260WTR.RES

Method : C:\MSDCHEM\1\METHODS\8260WTR.M (RTE Integrator)
Title : Method 8260B/624 WTR-SOP:OVLMSV01 06/28/12 HPMS 8
Last Update : Fri Jun 29 09:29:43 2012
Response via : Initial Calibration



Data File : C:\MSDCHEM\1\DATA\073012\8M381193.D Vial: 5
 Acq On : 30 Jul 2012 12:46 Operator: ADC
 Sample : WG404914-02 20ug/L LCS 8260 Inst : HPMS8
 Misc : 1,1 STD52919 Multiplr: 1.00

MS Integration Params: RTEINT.P

Quant Time: Jul 31 08:01:50 2012

Quant Results File: 8260WTR.RES

Quant Method : C:\MSDCHEM\1\METHODS\8260WTR.M (RTE Integrator)
 Title : Method 8260B/624 WTR-SOP:OVLMSV01 06/28/12 HPMS 8
 Last Update : Fri Jun 29 09:29:43 2012
 Response via : Initial Calibration
 DataAcq Meth : 8260WTR

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene	10.18	96	585633	25.00	ug/L	0.00
57) Chlorobenzene-d5	14.03	117	464910	25.00	ug/L	0.00
78) 1,4-Dichlorobenzene-d4	17.04	152	251467	25.00	ug/L	0.00

System Monitoring Compounds

37) Dibromofluoromethane	9.13	111	155761	24.7321	ug/L	0.00
Spiked Amount	25.000	Range	86 - 118	Recovery	=	98.92%
43) 1,2-Dichloroethane-d4	9.76	65	120222	20.4836	ug/L	0.00
Spiked Amount	25.000	Range	80 - 120	Recovery	=	81.92%
58) Toluene-d8	12.15	98	548961	25.8432	ug/L	0.00
Spiked Amount	25.000	Range	88 - 110	Recovery	=	103.36%
80) p-Bromofluorobenzene	15.53	95	212589	25.4663	ug/L	0.00
Spiked Amount	25.000	Range	86 - 115	Recovery	=	101.88%

Target Compounds

	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	2.82	85	177303	21.3264	ug/L	100
3) Chloromethane	3.22	50	160752	14.4420	ug/L	96
4) Vinyl Chloride	3.42	62	114050	18.4140	ug/L	99
5) 1,3-Butadiene	3.48	54	52022	14.2925	ug/L	100
6) Bromomethane	4.24	94	103979	20.0883	ug/L	100
7) Chloroethane	4.40	64	96684	18.2825	ug/L	97
8) Trichlorofluoromethane	4.88	101	216398	17.5723	ug/L	99
9) Diethyl ether	5.41	59	342876	92.7267	ug/L	97
10) Isoprene	5.44	67	178610	19.3927	ug/L	92
11) Acrolein	5.61	56	30730	60.4909	ug/L	92
12) 1,1,2-Trichloro-1,2,2-Trif	5.68	101	135539	21.3886	ug/L	97
13) Acetone	5.71	43	14593	14.5179	ug/L	87
14) 1,1-Dichloroethene	5.95	61	198777	18.8889	ug/L	91
15) Tert-Butyl Alcohol	6.06	59	24619	111.0182	ug/L	90
16) Dimethyl Sulfide	6.20	62	135756	17.6300	ug/L	90
17) Iodomethane	6.43	142	150506	19.4873	ug/L	93
18) Methyl acetate	6.47	43	59742	14.5013	ug/L	96
19) Methylene Chloride	6.71	84	111912	17.2043	ug/L	89
20) Carbon Disulfide	6.74	76	365567	20.4486	ug/L	100
21) Acrylonitrile	6.89	53	24392	17.4895	ug/L	94
22) Methyl Tert Butyl Ether	6.96	73	206425	18.3037	ug/L	99
23) trans-1,2-Dichloroethene	7.18	61	188614	19.0926	ug/L	92
24) n-Hexane	7.30	57	144918	16.8112	ug/L	94
25) Diisopropyl ether	7.63	45	1910590	89.9391	ug/L	95
26) Vinyl Acetate	7.78	43	125211	27.0186	ug/L	97
27) 1,1-Dichloroethane	7.80	63	239297	19.2246	ug/L	100
28) Ethyl-Tert-Butyl ether	8.21	59	1485738	86.2009	ug/L	98
29) 2-Butanone	8.35	43	23093	15.3656	ug/L	99
30) Propionitrile	8.44	54	37300	87.1953	ug/L	97
31) 2,2-Dichloropropane	8.58	77	186345	18.1704	ug/L	100
32) cis-1,2-Dichloroethene	8.64	96	141208	20.8304	ug/L	87
33) Chloroform	8.84	83	209574	18.6525	ug/L	100
34) 1-Bromopropane	8.99	122	30888	26.5198	ug/L	99
35) Bromochloromethane	9.06	130	80242	20.0974	ug/L	93
36) Tetrahydrofuran	9.10	42	73971	82.8762	ug/L	95
38) 1,1,1-Trichloroethane	9.38	97	197925	18.3192	ug/L	99
39) Cyclohexane	9.42	56	211232	18.3985	ug/L	98
40) 1,1-Dichloropropene	9.59	75	168238	18.7438	ug/L	95
41) Tert-Amyl-Methyl ether	9.71	73	1129605	92.5510	ug/L	97
42) Carbon Tetrachloride	9.72	117	195715	19.0142	ug/L	98
45) 1,2-Dichloroethane	9.89	62	126599	16.1191	ug/L	99

(#) = qualifier out of range (m) = manual integration
 8M381193.D 8260WTR.M Tue Jul 31 08:01:51 2012

Page 1

Data File : C:\MSDCHEM\1\DATA\073012\8M381193.D Vial: 5
 Acq On : 30 Jul 2012 12:46 Operator: ADC
 Sample : WG404914-02 20ug/L LCS 8260 Inst : HPMS8
 Misc : 1,1 STD52919 Multiplr: 1.00
 MS Integration Params: RTEINT.P
 Quant Time: Jul 31 08:01:50 2012 Quant Results File: 8260WTR.RES

Quant Method : C:\MSDCHEM\1\METHODS\8260WTR.M (RTE Integrator)
 Title : Method 8260B/624 WTR-SOP:OVLMSV01 06/28/12 HPMS 8
 Last Update : Fri Jun 29 09:29:43 2012
 Response via : Initial Calibration
 DataAcq Meth : 8260WTR

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
46) Benzene	9.93	78	487611	19.1941	ug/L	94
47) Trichloroethene	10.69	130	150062	19.0563	ug/L	99
48) Methylcyclohexane	10.80	83	156637	17.7339	ug/L	95
49) 1,2-Dichloropropane	10.89	63	130912	18.9971	ug/L	93
50) Bromodichloromethane	11.19	83	149944	18.7157	ug/L	99
51) 1,4-Dioxane	11.18	88	1786	67.5283	ug/L #	61
52) Dibromomethane	11.26	93	56023	18.5009	ug/L	99
53) 2-Chloroethyl Vinyl Ether	11.50	63	48620	70.1034	ug/L	91
54) 4-Methyl-2-Pentanone	11.54	58	21211	16.3977	ug/L	99
55) cis-1,3-Dichloropropene	11.83	75	176192	20.1759	ug/L	99
56) Dimethyl Disulfide	12.08	94	188566	17.1088	ug/L	97
59) Toluene	12.25	91	529360	19.5668	ug/L	99
60) Ethyl Methacrylate	12.37	69	88918	19.8609	ug/L	87
62) trans-1,3-Dichloropropene	12.43	75	132445	18.6067	ug/L	99
63) 1,1,2-Trichloroethane	12.64	97	76944	20.0064	ug/L	98
64) 2-Hexanone	12.60	58	19001	17.3996	ug/L	84
65) 1,3-Dichloropropane	12.95	76	133764	19.7590	ug/L	86
66) Tetrachloroethene	13.07	164	125771	19.0875	ug/L	96
67) Dibromochloromethane	13.31	129	113625	19.9974	ug/L	98
68) 1,2-Dibromoethane	13.57	107	83166	20.4252	ug/L	100
69) 1-Chlorohexane	13.70	91	160764	18.7573	ug/L	91
70) Chlorobenzene	14.08	112	354950	19.1040	ug/L	96
71) 1,1,1,2-Tetrachloroethane	14.12	131	137828	19.5078	ug/L	99
72) Ethylbenzene	14.13	106	201054	18.6518	ug/L	99
73) m-,p-Xylene	14.21	106	491791	37.5117	ug/L	99
74) o-Xylene	14.77	106	239693	18.5674	ug/L	99
75) Styrene	14.80	104	404020	19.2722	ug/L	94
76) Bromoform	15.26	173	67148	19.0237	ug/L	99
77) Isopropylbenzene	15.20	105	515720	16.0488	ug/L	99
79) 1,1,2,2-Tetrachloroethane	15.40	83	77535	20.7092	ug/L	98
81) 1,2,3-Trichloropropane	15.58	110	24117	20.3573	ug/L	95
82) trans-1,4-Dichloro-2-Buten	15.64	53	19478	16.4561	ug/L	93
83) n-Propylbenzene	15.71	91	648461	19.1112	ug/L	100
84) Bromobenzene	15.80	156	160482	20.0806	ug/L	96
85) 1,3,5-Trimethylbenzene	15.89	105	487557	18.8032	ug/L	100
86) 2-Chlorotoluene	15.96	91	452069	20.7789	ug/L	100
87) 4-Chlorotoluene	16.01	91	379795	17.0291	ug/L	99
88) a-Methylstyrene	16.29	118	293505	19.9461	ug/L	99
89) tert-Butylbenzene	16.35	134	104882	18.0346	ug/L	93
90) 1,2,4-Trimethylbenzene	16.40	105	519773	19.5490	ug/L	100
91) sec-Butylbenzene	16.62	105	531049	17.5995	ug/L	99
92) p-Isopropyltoluene	16.78	119	475591	17.9957	ug/L	99
93) 1,3-Dichlorobenzene	16.95	146	300434	18.7776	ug/L	98
94) 1,4-Dichlorobenzene	17.08	146	300852	18.0568	ug/L	99
95) n-Butylbenzene	17.31	91	388213	17.2308	ug/L	100
96) 1,2-Dichlorobenzene	17.57	146	267229	18.5648	ug/L	98
97) 1,2-Dibromo-3-Chloropropan	18.54	75	11691	17.2221	ug/L	82
98) 1,2,4-Trichlorobenzene	19.70	180	169087	17.0077	ug/L	99
99) Hexachlorobutadiene	19.86	225	70779	16.4186	ug/L	98
100) Naphthalene	20.05	128	290904	18.9066	ug/L	99
101) 1,2,3-Trichlorobenzene	20.36	180	138774	16.1612	ug/L	99

(#) = qualifier out of range (m) = manual integration
 8M381193.D 8260WTR.M Tue Jul 31 08:01:51 2012

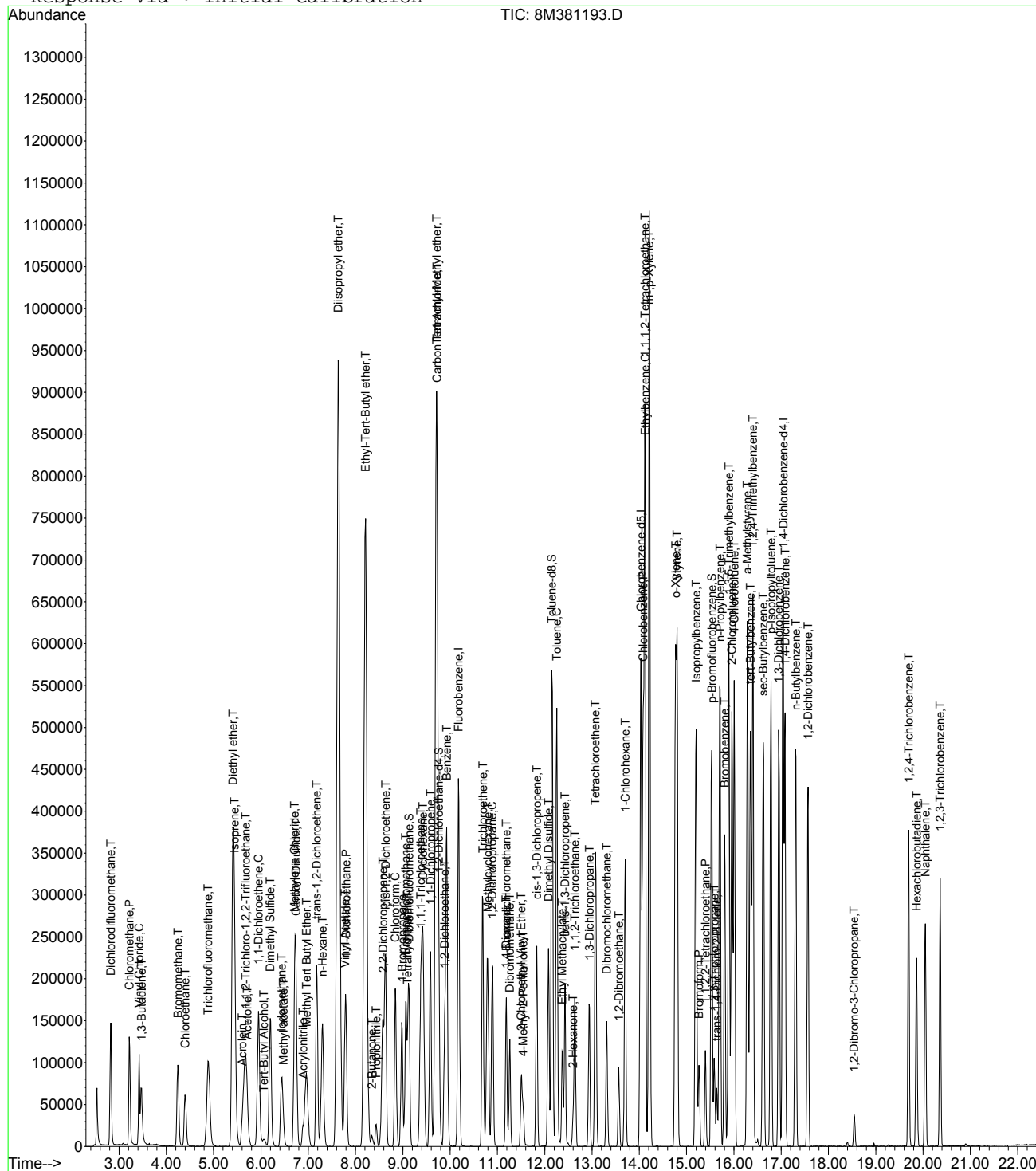
Page 2

Data File : C:\MSDCHEM\1\DATA\073012\8M381193.D
Acq On : 30 Jul 2012 12:46
Sample : WG404914-02 20ug/L LCS 8260
Misc : 1,1 STD52919
MS Integration Params: RTEINT.P
Quant Time: Jul 31 8:01 2012

Vial: 5
Operator: ADC
Inst : HPMS8
Multiplr: 1.00

Quant Results File: 8260WTR.RES

Method : C:\MSDCHEM\1\METHODS\8260WTR.M (RTE Integrator)
Title : Method 8260B/624 WTR-SOP:OVLMSV01 06/28/12 HPMS 8
Last Update : Fri Jun 29 09:29:43 2012
Response via : Initial Calibration



Data File : C:\MSDCHEM\1\data\072112\10M97161.D Vial: 6
 Acq On : 21 Jul 2012 18:08 Operator: MES
 Sample : WG404058-03 20ug/L LCSDUP 8260 Inst : HPMS10
 Misc : 1,1 STD52919 Multiplr: 1.00
 MS Integration Params: RTEINT.P
 Quant Time: Jul 21 18:30:05 2012 Quant Results File: 8260BWT.RES

Quant Method : C:\MSDCHEM\1\METHODS\8260BWT.M (RTE Integrator)
 Title : 8260B/624 WT (SOP: OVL MSV01) 06/26/12 HPMS10
 Last Update : Tue Jul 10 17:22:08 2012
 Response via : Initial Calibration
 DataAcq Meth : 8260BWT

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene	10.10	96	495005	25.00	ug/L	0.00
57) Chlorobenzene-d5	13.71	117	372518	25.00	ug/L	0.00
78) 1,4-Dichlorobenzene-d4	16.50	152	204126	25.00	ug/L	-0.01

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
37) Dibromofluoromethane	9.11	111	111923	24.66	ug/L	0.00
Spiked Amount	25.000	Range 86 - 118	Recovery	=	98.64%	
43) 1,2-Dichloroethane-d4	9.71	65	115012	24.26	ug/L	0.00
Spiked Amount	25.000	Range 80 - 120	Recovery	=	97.04%	
58) Toluene-d8	11.95	98	397879	25.01	ug/L	0.00
Spiked Amount	25.000	Range 88 - 110	Recovery	=	100.04%	
80) p-Bromofluorobenzene	15.10	95	147993	24.21	ug/L	0.00
Spiked Amount	25.000	Range 86 - 115	Recovery	=	96.84%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	2.93	85	154561	36.39	ug/L	99
3) Chloromethane	3.35	50	205994	27.83	ug/L	96
4) Vinyl Chloride	3.55	62	156348	27.89	ug/L	99
5) 1,3-Butadiene	3.59	54	45707	12.88	ug/L	92
6) Bromomethane	4.39	94	64121	22.55	ug/L	99
7) Chloroethane	4.55	64	76450	22.36	ug/L	97
8) Trichlorofluoromethane	5.01	101	173329	22.72	ug/L	99
9) Diethyl ether	5.52	59	337303	88.97	ug/L	91
10) Isoprene	5.56	67	136621	18.97	ug/L	95
11) Acrolein	5.75	56	58344	99.04	ug/L	99
12) 1,1,2-Trichloro-1,2,2-Trif	5.77	101	99633	22.99	ug/L	95
13) Acetone	5.84	43	21765	18.74	ug/L	96
14) 1,1-Dichloroethene	6.06	96	88566	21.40	ug/L	93
15) Tert-Butyl Alcohol	6.17	59	49804	161.35	ug/L	96
16) Dimethyl Sulfide	6.31	62	115210	21.45	ug/L	88
17) Iodomethane	6.55	142	95906	12.43	ug/L	93
18) Methyl acetate	6.57	43	65503	21.68	ug/L	92
19) Methylene Chloride	6.81	84	102038	20.64	ug/L	84
20) Carbon Disulfide	6.84	76	285528	23.10	ug/L	99
21) Acrylonitrile	6.99	53	25585	17.61	ug/L	99
22) Methyl Tert Butyl Ether	7.02	73	224409	20.14	ug/L	98
23) trans-1,2-Dichloroethene	7.24	96	99107	20.94	ug/L	93
24) n-Hexane	7.33	57	132523	21.92	ug/L	96
25) Diisopropyl ether	7.66	45	1911522	109.59	ug/L	95
26) Vinyl Acetate	7.81	43	152235	27.40	ug/L	94
27) 1,1-Dichloroethane	7.84	63	193113	21.26	ug/L	99
28) Ethyl-Tert-Butyl ether	8.21	59	1497504	98.83	ug/L	96
29) 2-Butanone	8.37	43	29680	18.26	ug/L	91
30) Propionitrile	8.47	54	41114	89.44	ug/L	98
31) 2,2-Dichloropropane	8.58	77	159461	22.46	ug/L	94
32) cis-1,2-Dichloroethene	8.64	96	110808	21.29	ug/L	96
33) Chloroform	8.84	83	186574	21.59	ug/L	99
34) 1-Bromopropane	8.97	122	21870	27.03	ug/L	99
35) Bromochloromethane	9.05	128	48601	21.00	ug/L	87
36) Tetrahydrofuran	9.08	42	87632	88.57	ug/L	89
38) 1,1,1-Trichloroethane	9.34	97	163859	21.60	ug/L	97
39) Cyclohexane	9.37	56	169093	23.26	ug/L	94
40) 1,1-Dichloropropene	9.53	75	137673	21.20	ug/L	98
41) Carbon Tetrachloride	9.66	117	150498	22.54	ug/L	100
42) Tert-Amyl-Methyl ether	9.63	73	1200184	100.04	ug/L	98

(#) = qualifier out of range (m) = manual integration
 10M97161.D 8260BWT.M Sat Jul 21 18:30:06 2012

Data File : C:\MSDCHEM\1\data\072112\10M97161.D Vial: 6
 Acq On : 21 Jul 2012 18:08 Operator: MES
 Sample : WG404058-03 20ug/L LCS DUP 8260 Inst : HPMS10
 Misc : 1,1 STD52919 Multiplr: 1.00
 MS Integration Params: RTEINT.P
 Quant Time: Jul 21 18:30:05 2012 Quant Results File: 8260BWT.RES

Quant Method : C:\MSDCHEM\1\METHODS\8260BWT.M (RTE Integrator)
 Title : 8260B/624 WT (SOP: OVL MSV01) 06/26/12 HPMS10
 Last Update : Tue Jul 10 17:22:08 2012
 Response via : Initial Calibration
 DataAcq Meth : 8260BWT

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
45) 1,2-Dichloroethane	9.83	62	132079	20.86	ug/L	90
46) Benzene	9.87	78	396192	20.91	ug/L	99
47) Trichloroethene	10.57	130	104980	20.73	ug/L	97
48) Methylcyclohexane	10.65	83	141888	22.27	ug/L	95
49) 1,2-Dichloropropane	10.78	63	104383	20.68	ug/L	94
50) Bromodichloromethane	11.06	83	137601	20.94	ug/L	100
51) 1,4-Dioxane	11.05	88	4656	144.45	ug/L	98
52) Dibromomethane	11.13	93	54078	20.34	ug/L	96
53) 2-Chloroethyl Vinyl Ether	11.34	63	37010	14.53	ug/L	98
54) 4-Methyl-2-Pentanone	11.37	58	22342	17.70	ug/L	94
55) cis-1,3-Dichloropropene	11.65	75	152630	21.26	ug/L	97
56) Dimethyl Disulfide	11.90	79	82098	19.20	ug/L	98
59) Toluene	12.04	91	418560	20.68	ug/L	98
60) Ethyl Methacrylate	12.13	69	88768	19.68	ug/L	96
62) trans-1,3-Dichloropropene	12.21	75	121944	17.93	ug/L	100
63) 1,1,2-Trichloroethane	12.41	97	68539	18.53	ug/L	98
64) 2-Hexanone	12.35	43	39009	16.55	ug/L #	57
65) 1,3-Dichloropropane	12.69	76	123979	19.02	ug/L	91
66) Tetrachloroethene	12.80	164	86853	20.58	ug/L	90
67) Dibromochloromethane	13.05	129	89113	19.39	ug/L	100
68) 1,2-Dibromoethane	13.29	107	68128	19.13	ug/L	98
69) 1-Chlorohexane	13.37	91	127461	20.29	ug/L	95
70) Chlorobenzene	13.76	112	266586	19.57	ug/L	100
71) 1,1,1,2-Tetrachloroethane	13.79	131	105197	20.28	ug/L	96
72) Ethylbenzene	13.79	106	144431	19.25	ug/L	91
73) m-,p-Xylene	13.87	106	351015	40.44	ug/L	95
74) o-Xylene	14.39	106	166709	19.11	ug/L	96
75) Styrene	14.42	104	281461	19.89	ug/L	100
76) Bromoform	14.88	173	55816	17.98	ug/L	99
77) Isopropylbenzene	14.78	105	375367	17.77	ug/L	99
79) 1,1,2,2-Tetrachloroethane	14.97	83	74675	18.26	ug/L	98
81) 1,2,3-Trichloropropane	15.16	110	21764	17.53	ug/L	89
82) trans-1,4-Dichloro-2-Butene	15.20	53	21140	14.27	ug/L	79
83) n-Propylbenzene	15.24	91	510032	20.72	ug/L	98
84) Bromobenzene	15.37	156	118299	19.75	ug/L	67
85) 1,3,5-Trimethylbenzene	15.42	105	362710	20.81	ug/L	99
86) 2-Chlorotoluene	15.50	91	346995	20.79	ug/L	99
87) 4-Chlorotoluene	15.54	91	289753	19.52	ug/L	98
88) a-Methylstyrene	15.79	118	199953	19.41	ug/L	99
89) tert-Butylbenzene	15.85	134	78143	19.36	ug/L	90
90) 1,2,4-Trimethylbenzene	15.89	105	390235	21.28	ug/L	98
91) sec-Butylbenzene	16.10	105	423384	20.27	ug/L	98
92) p-Isopropyltoluene	16.25	119	356136	19.80	ug/L	97
93) 1,3-Dichlorobenzene	16.42	146	218243	19.58	ug/L	94
94) 1,4-Dichlorobenzene	16.55	146	216809	19.29	ug/L	95
95) n-Butylbenzene	16.73	91	330343	20.68	ug/L	99
96) 1,2-Dichlorobenzene	17.00	146	198135	19.31	ug/L	94
97) 1,2-Dibromo-3-Chloropropane	17.92	157	13535	15.64	ug/L	92
98) 1,2,4-Trichlorobenzene	18.96	180	125761	17.15	ug/L	99
99) Hexachlorobutadiene	19.11	225	53664	21.32	ug/L	97
100) Naphthalene	19.31	128	179516	14.30	ug/L	100
101) 1,2,3-Trichlorobenzene	19.59	180	108063	16.68	ug/L	98

(#) = qualifier out of range (m) = manual integration
 10M97161.D 8260BWT.M Sat Jul 21 18:30:06 2012

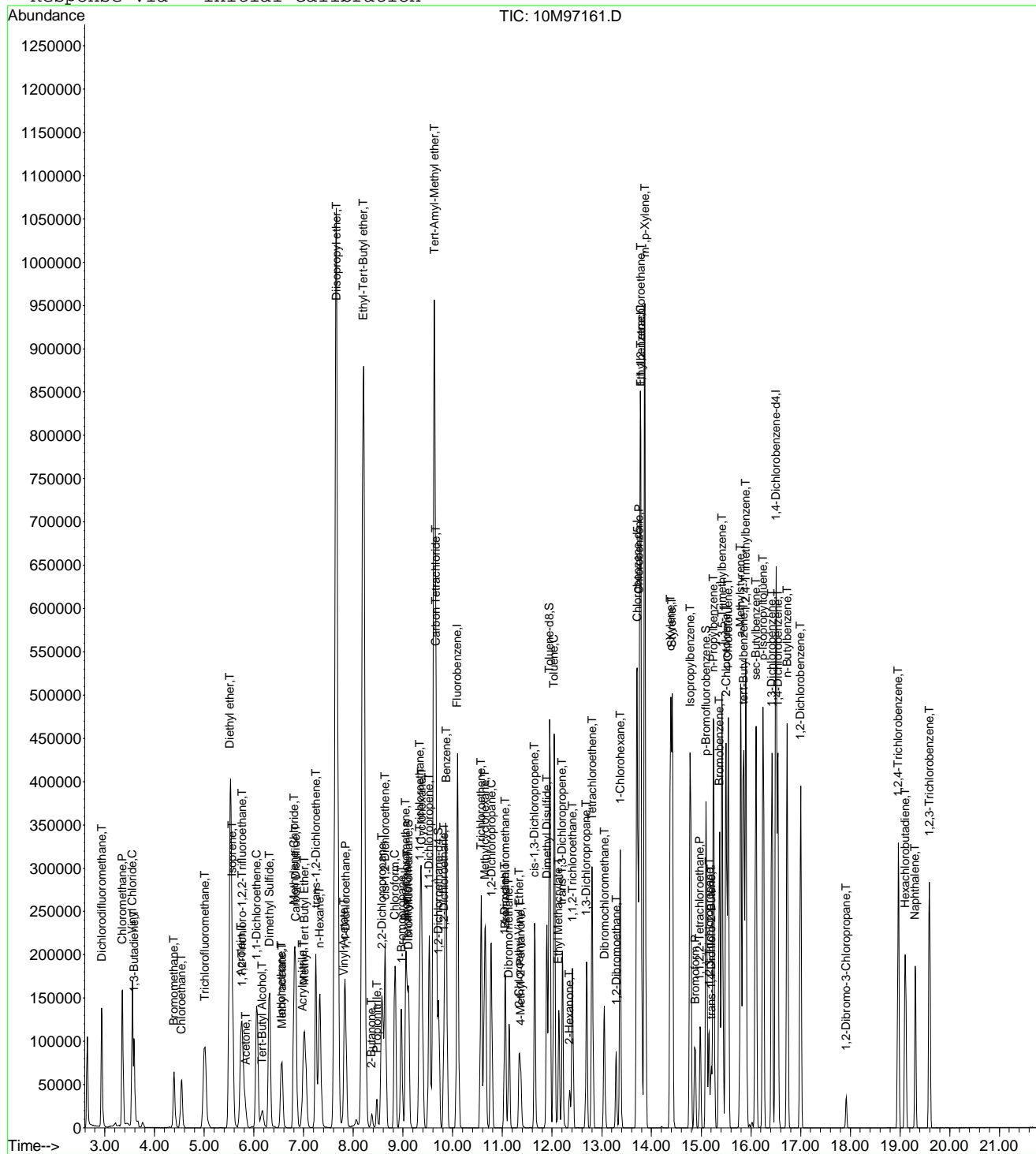
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Data File : C:\MSDchem\1\data\072112\10M97161.D
 Acq On : 21 Jul 2012 18:08
 Sample : WG404058-03 20ug/L LCSDUP 8260
 Misc : 1,1 STD52919
 MS Integration Params: RTEINT.P
 Quant Time: Jul 21 18:30 2012

Vial: 6
 Operator: MES
 Inst : HPMS10
 Multiplr: 1.00

Quant Results File: 8260BWT.RES

Method : C:\MSDCHEM\1\METHODS\8260BWT.M (RTE Integrator)
 Title : 8260B/624 WT (SOP: OVL MSV01) 06/26/12 HPMS10
 Last Update : Tue Jul 10 17:22:08 2012
 Response via : Initial Calibration



Data File : C:\MSDCHEM\1\data\072312\11M85504.D Vial: 6
 Acq On : 23 Jul 2012 14:56 Operator: FJB
 Sample : WG404130-03 20ug/L LCS DUP 8260 Inst : hpms11
 Misc : 1,1 STD52879 Multiplr: 1.00
 MS Integration Params: rteint.p
 Quant Time: Jul 23 15:18:19 2012 Quant Results File: 8260WTR.RES

Quant Method : C:\MSDCHEM\1\METHODS\8260WTR.M (RTE Integrator)
 Title : 8260B/624 (SOP: OVL MSV01) Water 05/03/12 HPMS11
 Last Update : Fri Jul 13 11:24:02 2012
 Response via : Initial Calibration
 DataAcq Meth : 8260WTR

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene	10.28	96	562444	25.00	ug/L	-0.01
57) Chlorobenzene-d5	13.91	117	425513	25.00	ug/L	-0.01
78) 1,4-Dichlorobenzene-d4	16.72	152	233894	25.00	ug/L	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
37) Dibromofluoromethane	9.29	111	153733	22.4305	ug/L	-0.01
Spiked Amount	25.000	Range 86 - 118	Recovery	=	89.72%	
43) 1,2-Dichloroethane-d4	9.90	65	133826	20.4054	ug/L	0.00
Spiked Amount	25.000	Range 80 - 120	Recovery	=	81.64%	
58) Toluene-d8	12.14	98	569402	25.3690	ug/L	-0.01
Spiked Amount	25.000	Range 88 - 110	Recovery	=	101.48%	
80) p-Bromofluorobenzene	15.30	95	206402	26.6978	ug/L	-0.01
Spiked Amount	25.000	Range 86 - 115	Recovery	=	106.80%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	3.03	85	186240	25.6610	ug/L	97
3) Chloromethane	3.46	50	265095	21.2681	ug/L	99
4) Vinyl Chloride	3.68	62	275003	19.8880	ug/L	98
5) 1,3-Butadiene	3.71	54	76187	8.8474	ug/L	99
6) Bromomethane	4.54	94	95817	23.9717	ug/L	100
7) Chloroethane	4.69	64	85396	19.8817	ug/L	98
8) Trichlorofluoromethane	5.17	101	213668	17.6189	ug/L	99
9) Diethyl ether	5.69	59	358633	83.7762	ug/L	96
10) Isoprene	5.72	67	163379	17.3155	ug/L	97
11) Acrolein	5.90	56	55213	185.6959	ug/L	95
12) 1,1,2-Trichloro-1,2,2-Trif	5.92	101	126917	20.1835	ug/L	97
13) Acetone	6.01	43	32123	30.5679	ug/L	94
14) 1,1-Dichloroethene	6.22	61	185551	21.7330	ug/L	97
15) Tert-Butyl Alcohol	6.33	59	54023	190.4743	ug/L	93
16) Dimethyl Sulfide	6.48	62	154755	22.1312	ug/L	97
17) Iodomethane	6.72	142	118706	13.9182	ug/L	95
18) Methyl acetate	6.74	43	61442	16.9132	ug/L	98
19) Methylene Chloride	6.98	84	125050	20.6081	ug/L	94
20) Carbon Disulfide	7.02	76	335120	19.2537	ug/L	99
21) Acrylonitrile	7.16	53	22958	18.5250	ug/L	99
22) Methyl Tert Butyl Ether	7.19	73	250270	17.6533	ug/L	98
23) trans-1,2-Dichloroethene	7.41	96	127282	20.8809	ug/L	100
24) n-Hexane	7.50	57	124922	20.2845	ug/L	97
25) Diisopropyl ether	7.83	45	1744101	97.6901	ug/L	96
26) Vinyl Acetate	7.98	43	47966	15.2754	ug/L	97
27) 1,1-Dichloroethane	8.01	63	213087	20.8606	ug/L	100
28) Ethyl-Tert-Butyl ether	8.38	59	1474100	84.5590	ug/L	98
29) 2-Butanone	8.54	43	25304	17.4828	ug/L	96
30) Propionitrile	8.64	54	40943	95.8538	ug/L	100
31) 2,2-Dichloropropane	8.76	77	106283	12.8730	ug/L	99
32) cis-1,2-Dichloroethene	8.82	96	139942	21.1854	ug/L	96
33) Chloroform	9.02	83	221189	20.4818	ug/L	97
34) 1-Bromopropane	9.15	122	28806	23.3187	ug/L	97
35) Bromochloromethane	9.23	130	83938	20.0024	ug/L	98
36) Tetrahydrofuran	9.26	42	77453	82.4502	ug/L	99
38) 1,1,1-Trichloroethane	9.52	97	200024	19.7438	ug/L	96
39) Cyclohexane	9.55	56	174741	21.4083	ug/L	95
40) 1,1-Dichloropropene	9.71	75	169856	21.0848	ug/L	100
41) Carbon Tetrachloride	9.84	117	187000	17.5638	ug/L	100
42) Tert-Amyl-Methyl ether	9.81	73	1275557	80.0305	ug/L	100

(#) = qualifier out of range (m) = manual integration
 11M85504.D 8260WTR.M Mon Jul 23 15:18:20 2012

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Data File : C:\MSDCHEM\1\data\072312\11M85504.D Vial: 6
 Acq On : 23 Jul 2012 14:56 Operator: FJB
 Sample : WG404130-03 20ug/L LCS DUP 8260 Inst : hpms11
 Misc : 1,1 STD52879 Multiplr: 1.00
 MS Integration Params: rteint.p
 Quant Time: Jul 23 15:18:19 2012 Quant Results File: 8260WTR.RES

Quant Method : C:\MSDCHEM\1\METHODS\8260WTR.M (RTE Integrator)
 Title : 8260B/624 (SOP: OVL MSV01) Water 05/03/12 HPMS11
 Last Update : Fri Jul 13 11:24:02 2012
 Response via : Initial Calibration
 DataAcq Meth : 8260WTR

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
45) 1,2-Dichloroethane	10.01	62	138703	18.2683	ug/L	99
46) Benzene	10.05	78	494503	21.0110	ug/L	100
47) Trichloroethene	10.75	130	154659	20.0426	ug/L	98
48) Methylcyclohexane	10.84	83	171042	21.1722	ug/L	99
49) 1,2-Dichloropropane	10.96	63	116379	21.4800	ug/L	94
50) 1,4-Dioxane	11.23	88	6352	164.8967	ug/L	95
51) Bromodichloromethane	11.24	83	152873	20.6140	ug/L	99
52) Dibromomethane	11.32	93	64786	18.0163	ug/L	97
53) 2-Chloroethyl Vinyl Ether	11.52	63	20241	8.7579	ug/L	98
54) 4-Methyl-2-Pentanone	11.55	58	22472	17.7533	ug/L	96
55) cis-1,3-Dichloropropene	11.84	75	143072	16.7485	ug/L	99
56) Dimethyl Disulfide	12.09	79	48481	11.2316	ug/L	98
59) Toluene	12.23	91	543329	21.2290	ug/L	100
60) Ethyl Methacrylate	12.32	69	95060	17.9712	ug/L	91
62) trans-1,3-Dichloropropene	12.40	75	88196	12.8528	ug/L	100
63) 1,1,2-Trichloroethane	12.60	97	85376	20.1955	ug/L	100
64) 2-Hexanone	12.54	43	33989	15.9002	ug/L	78
65) 1,3-Dichloropropane	12.88	76	144242	20.3125	ug/L	90
66) Tetrachloroethene	13.01	164	115773	22.0786	ug/L	98
67) Dibromochloromethane	13.25	129	103857	17.9875	ug/L	99
68) 1,2-Dibromoethane	13.48	107	82163	18.7681	ug/L	99
69) 1-Chlorohexane	13.57	91	157030	21.4007	ug/L	97
70) Chlorobenzene	13.96	112	366182	21.4940	ug/L	100
71) 1,1,1,2-Tetrachloroethane	13.98	131	130647	20.5109	ug/L	99
72) Ethylbenzene	13.98	106	194106	20.9957	ug/L	97
73) m-,p-Xylene	14.06	106	468052	40.9987	ug/L	96
74) o-Xylene	14.59	106	218048	19.6069	ug/L	97
75) Styrene	14.62	104	354003	20.0059	ug/L	99
76) Bromoform	15.09	173	56339	17.6909	ug/L	99
77) Isopropylbenzene	14.98	105	486756	18.5914	ug/L	99
79) 1,1,2,2-Tetrachloroethane	15.18	83	76724	18.4276	ug/L	99
81) 1,2,3-Trichloropropane	15.36	110	26806	21.2714	ug/L	74
82) trans-1,4-Dichloro-2-Butene	15.41	53	2659	3.7149	ug/L #	1
83) n-Propylbenzene	15.45	91	645537	21.2119	ug/L	100
84) Bromobenzene	15.57	156	158750	21.8351	ug/L	95
85) 1,3,5-Trimethylbenzene	15.62	105	461001	20.3977	ug/L	100
86) 2-Chlorotoluene	15.71	91	415530	20.3026	ug/L	99
87) 4-Chlorotoluene	15.75	91	380970	21.2699	ug/L	99
88) a-Methylstyrene	16.00	118	252083	20.0277	ug/L	99
89) tert-Butylbenzene	16.06	134	99373	20.2034	ug/L	98
90) 1,2,4-Trimethylbenzene	16.11	105	494410	21.0264	ug/L	99
91) sec-Butylbenzene	16.31	105	533039	20.1994	ug/L	99
92) p-Isopropyltoluene	16.45	119	470469	20.7778	ug/L	99
93) 1,3-Dichlorobenzene	16.64	146	285570	20.0269	ug/L	98
94) 1,4-Dichlorobenzene	16.75	146	287173	19.7856	ug/L	99
95) n-Butylbenzene	16.94	91	399124	23.1404	ug/L	98
96) 1,2-Dichlorobenzene	17.22	146	257020	19.8877	ug/L	97
97) 1,2-Dibromo-3-Chloropropane	18.13	75	10379	14.2833	ug/L	96
98) 1,2,4-Trichlorobenzene	19.19	180	169739	23.2241	ug/L	97
99) Hexachlorobutadiene	19.32	225	59093	20.5234	ug/L	95
100) Naphthalene	19.53	128	288847	18.3511	ug/L	99
101) 1,2,3-Trichlorobenzene	19.82	180	147093	21.5360	ug/L	96

(#) = qualifier out of range (m) = manual integration
 11M85504.D 8260WTR.M Mon Jul 23 15:18:20 2012

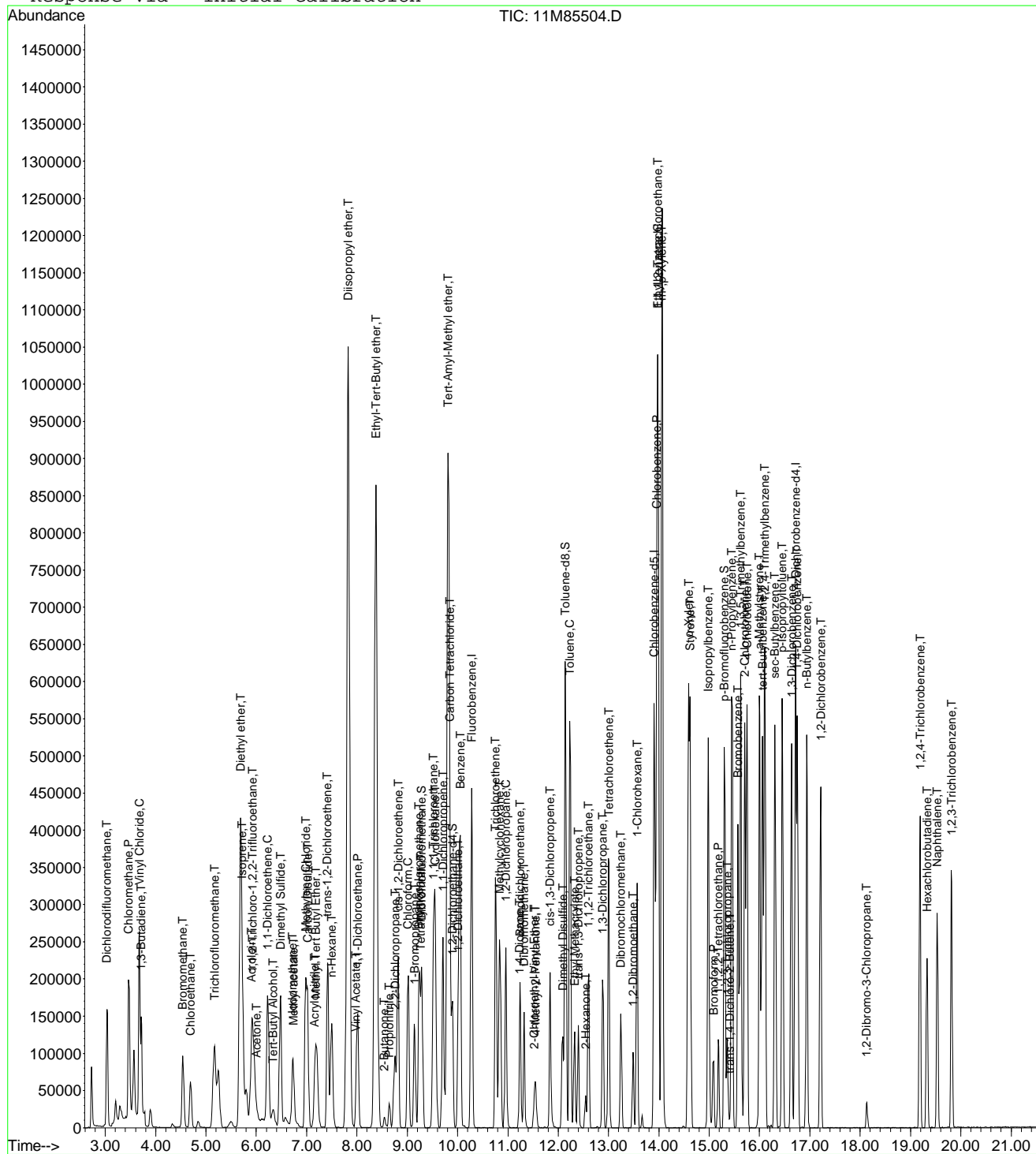
Page 2

Data File : C:\MSDCHEM\1\data\072312\11M85504.D
 Acq On : 23 Jul 2012 14:56
 Sample : WG404130-03 20ug/L LCS DUP 8260
 Misc : 1,1 STD52879
 MS Integration Params: rteint.p
 Quant Time: Jul 23 15:18 2012

Vial: 6
 Operator: FJB
 Inst : hpms11
 Multiplr: 1.00

Quant Results File: 8260WTR.RES

Method : C:\MSDCHEM\1\METHODS\8260WTR.M (RTE Integrator)
 Title : 8260B/624 (SOP: OVL MSV01) Water 05/03/12 HPMS11
 Last Update : Fri Jul 13 11:24:02 2012
 Response via : Initial Calibration



Data File : C:\MSDCHEM\1\DATA\073012\8M381194.D Vial: 6
 Acq On : 30 Jul 2012 13:16 Operator: ADC
 Sample : WG404914-03 20ug/L LCSDUP 8260 Inst : HPMS8
 Misc : 1,1 STD52919 Multiplr: 1.00

MS Integration Params: RTEINT.P

Quant Time: Jul 31 08:01:52 2012

Quant Results File: 8260WTR.RES

Quant Method : C:\MSDCHEM\1\METHODS\8260WTR.M (RTE Integrator)
 Title : Method 8260B/624 WTR-SOP:OVLMSV01 06/28/12 HPMS 8
 Last Update : Fri Jun 29 09:29:43 2012
 Response via : Initial Calibration
 DataAcq Meth : 8260WTR

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene	10.17	96	572905	25.00	ug/L	0.00
57) Chlorobenzene-d5	14.03	117	462510	25.00	ug/L	0.00
78) 1,4-Dichlorobenzene-d4	17.04	152	253306	25.00	ug/L	0.00

System Monitoring Compounds

37) Dibromofluoromethane	9.13	111	152178	24.7000	ug/L	0.00
Spiked Amount	25.000	Range	86 - 118	Recovery	=	98.80%
43) 1,2-Dichloroethane-d4	9.76	65	119765	20.8590	ug/L	0.00
Spiked Amount	25.000	Range	80 - 120	Recovery	=	83.44%
58) Toluene-d8	12.15	98	540499	25.5769	ug/L	0.00
Spiked Amount	25.000	Range	88 - 110	Recovery	=	102.32%
80) p-Bromofluorobenzene	15.53	95	215095	25.5794	ug/L	0.00
Spiked Amount	25.000	Range	86 - 115	Recovery	=	102.32%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	2.82	85	169622	20.8557	ug/L	100
3) Chloromethane	3.22	50	154930	14.2282	ug/L	97
4) Vinyl Chloride	3.42	62	104778	17.2326	ug/L	100
5) 1,3-Butadiene	3.46	54	31513	3.2973	ug/L	95
6) Bromomethane	4.24	94	95892	18.9375	ug/L	97
7) Chloroethane	4.40	64	92641	17.9072	ug/L	96
8) Trichlorofluoromethane	4.88	101	204863	17.0052	ug/L	98
9) Diethyl ether	5.41	59	336128	92.9214	ug/L	97
10) Isoprene	5.44	67	165662	18.3865	ug/L	93
11) Acrolein	5.60	56	30054	60.4745	ug/L	98
12) 1,1,2-Trichloro-1,2,2-Trif	5.68	101	124548	20.0909	ug/L	99
13) Acetone	5.71	43	15418	15.6794	ug/L	88
14) 1,1-Dichloroethene	5.95	61	185632	18.0316	ug/L	90
15) Tert-Butyl Alcohol	6.06	59	31439	144.9224	ug/L	88
16) Dimethyl Sulfide	6.19	62	131082	17.4012	ug/L	90
17) Iodomethane	6.43	142	144543	19.1513	ug/L	93
18) Methyl acetate	6.47	43	61309	15.2123	ug/L	98
19) Methylene Chloride	6.71	84	109558	17.2166	ug/L	86
20) Carbon Disulfide	6.74	76	343562	19.6447	ug/L	99
21) Acrylonitrile	6.89	53	24573	18.0107	ug/L	96
22) Methyl Tert Butyl Ether	6.96	73	208883	18.9332	ug/L	99
23) trans-1,2-Dichloroethene	7.18	61	176605	18.2742	ug/L	91
24) n-Hexane	7.30	57	135192	16.0313	ug/L	95
25) Diisopropyl ether	7.63	45	1858625	89.4367	ug/L	95
26) Vinyl Acetate	7.78	43	126408	27.8195	ug/L	98
27) 1,1-Dichloroethane	7.80	63	229379	18.8372	ug/L	99
28) Ethyl-Tert-Butyl ether	8.21	59	1466405	86.9693	ug/L	98
29) 2-Butanone	8.34	43	24584	16.7210	ug/L	97
30) Propionitrile	8.44	54	39690	94.8436	ug/L	97
31) 2,2-Dichloropropane	8.57	77	175519	17.4950	ug/L	99
32) cis-1,2-Dichloroethene	8.63	96	134364	20.2612	ug/L	88
33) Chloroform	8.84	83	197362	17.9558	ug/L	99
34) 1-Bromopropane	8.98	122	30300	26.5923	ug/L	99
35) Bromochloromethane	9.06	130	80135	20.5165	ug/L	93
36) Tetrahydrofuran	9.10	42	77870	89.1829	ug/L	96
38) 1,1,1-Trichloroethane	9.38	97	188667	17.8503	ug/L	99
39) Cyclohexane	9.42	56	199226	17.7383	ug/L	98
40) 1,1-Dichloropropene	9.59	75	159533	18.1688	ug/L	96
41) Tert-Amyl-Methyl ether	9.71	73	1131977	94.8058	ug/L	97
42) Carbon Tetrachloride	9.72	117	184164	18.2895	ug/L	99
45) 1,2-Dichloroethane	9.89	62	123938	16.1309	ug/L	99

(#) = qualifier out of range (m) = manual integration
 8M381194.D 8260WTR.M Tue Jul 31 08:01:52 2012

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Data File : C:\MSDCHEM\1\DATA\073012\8M381194.D Vial: 6
 Acq On : 30 Jul 2012 13:16 Operator: ADC
 Sample : WG404914-03 20ug/L LCSDUP 8260 Inst : HPMS8
 Misc : 1,1 STD52919 Multiplr: 1.00
 MS Integration Params: RTEINT.P
 Quant Time: Jul 31 08:01:52 2012 Quant Results File: 8260WTR.RES

Quant Method : C:\MSDCHEM\1\METHODS\8260WTR.M (RTE Integrator)
 Title : Method 8260B/624 WTR-SOP:OVLMSV01 06/28/12 HPMS 8
 Last Update : Fri Jun 29 09:29:43 2012
 Response via : Initial Calibration
 DataAcq Meth : 8260WTR

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
46) Benzene	9.93	78	467848	18.8253	ug/L	94
47) Trichloroethene	10.69	130	142337	18.4769	ug/L	99
48) Methylcyclohexane	10.80	83	146317	16.9335	ug/L	94
49) 1,2-Dichloropropane	10.89	63	126877	18.8206	ug/L	94
50) Bromodichloromethane	11.19	83	146049	18.6345	ug/L	99
51) 1,4-Dioxane	11.18	88	3672	141.9220	ug/L	93
52) Dibromomethane	11.26	93	56600	19.1067	ug/L	97
53) 2-Chloroethyl Vinyl Ether	11.51	63	49825	73.4369	ug/L	95
54) 4-Methyl-2-Pentanone	11.54	58	22839	18.0485	ug/L	99
55) cis-1,3-Dichloropropene	11.83	75	172721	20.2179	ug/L	98
56) Dimethyl Disulfide	12.08	94	184058	17.0724	ug/L	97
59) Toluene	12.25	91	506235	18.8091	ug/L	100
60) Ethyl Methacrylate	12.38	69	90683	20.3602	ug/L	86
62) trans-1,3-Dichloropropene	12.43	75	129579	18.2985	ug/L	100
63) 1,1,2-Trichloroethane	12.64	97	78921	20.6270	ug/L	98
64) 2-Hexanone	12.59	58	19184	17.6583	ug/L	90
65) 1,3-Dichloropropane	12.95	76	134517	19.9733	ug/L	85
66) Tetrachloroethene	13.08	164	119666	18.2552	ug/L	97
67) Dibromochloromethane	13.31	129	111725	19.7651	ug/L	99
68) 1,2-Dibromoethane	13.57	107	82713	20.4194	ug/L	97
69) 1-Chlorohexane	13.70	91	152701	17.9090	ug/L	92
70) Chlorobenzene	14.08	112	349641	18.9159	ug/L	95
71) 1,1,1,2-Tetrachloroethane	14.11	131	134391	19.1201	ug/L	99
72) Ethylbenzene	14.12	106	195889	18.2669	ug/L	99
73) m-,p-Xylene	14.22	106	475794	36.4798	ug/L	100
74) o-Xylene	14.77	106	234886	18.2895	ug/L	98
75) Styrene	14.80	104	391959	18.7939	ug/L	96
76) Bromoform	15.26	173	69639	19.8318	ug/L	99
77) Isopropylbenzene	15.20	105	506556	15.8454	ug/L	99
79) 1,1,2,2-Tetrachloroethane	15.40	83	79323	21.0296	ug/L	100
81) 1,2,3-Trichloropropane	15.58	110	24340	20.3964	ug/L	92
82) trans-1,4-Dichloro-2-Butene	15.63	53	20707	17.3183	ug/L	92
83) n-Propylbenzene	15.71	91	629479	18.4171	ug/L	100
84) Bromobenzene	15.81	156	160635	19.9539	ug/L	95
85) 1,3,5-Trimethylbenzene	15.89	105	477155	18.2685	ug/L	99
86) 2-Chlorotoluene	15.95	91	436568	19.9208	ug/L	100
87) 4-Chlorotoluene	16.01	91	380816	16.9509	ug/L	99
88) a-Methylstyrene	16.29	118	289190	19.5102	ug/L	100
89) tert-Butylbenzene	16.35	134	100199	17.1043	ug/L	96
90) 1,2,4-Trimethylbenzene	16.40	105	509802	19.0348	ug/L	98
91) sec-Butylbenzene	16.62	105	511839	16.8397	ug/L	100
92) p-Isopropyltoluene	16.78	119	456619	17.1524	ug/L	99
93) 1,3-Dichlorobenzene	16.95	146	301285	18.6941	ug/L	98
94) 1,4-Dichlorobenzene	17.08	146	299600	17.8512	ug/L	100
95) n-Butylbenzene	17.31	91	375389	16.5407	ug/L	100
96) 1,2-Dichlorobenzene	17.57	146	267263	18.4324	ug/L	98
97) 1,2-Dibromo-3-Chloropropane	18.54	75	13149	19.2292	ug/L	88
98) 1,2,4-Trichlorobenzene	19.70	180	171480	17.1232	ug/L	99
99) Hexachlorobutadiene	19.86	225	68271	15.7218	ug/L	99
100) Naphthalene	20.05	128	300063	19.3603	ug/L	99
101) 1,2,3-Trichlorobenzene	20.36	180	141966	16.4129	ug/L	99

(#) = qualifier out of range (m) = manual integration
 8M381194.D 8260WTR.M Tue Jul 31 08:01:52 2012

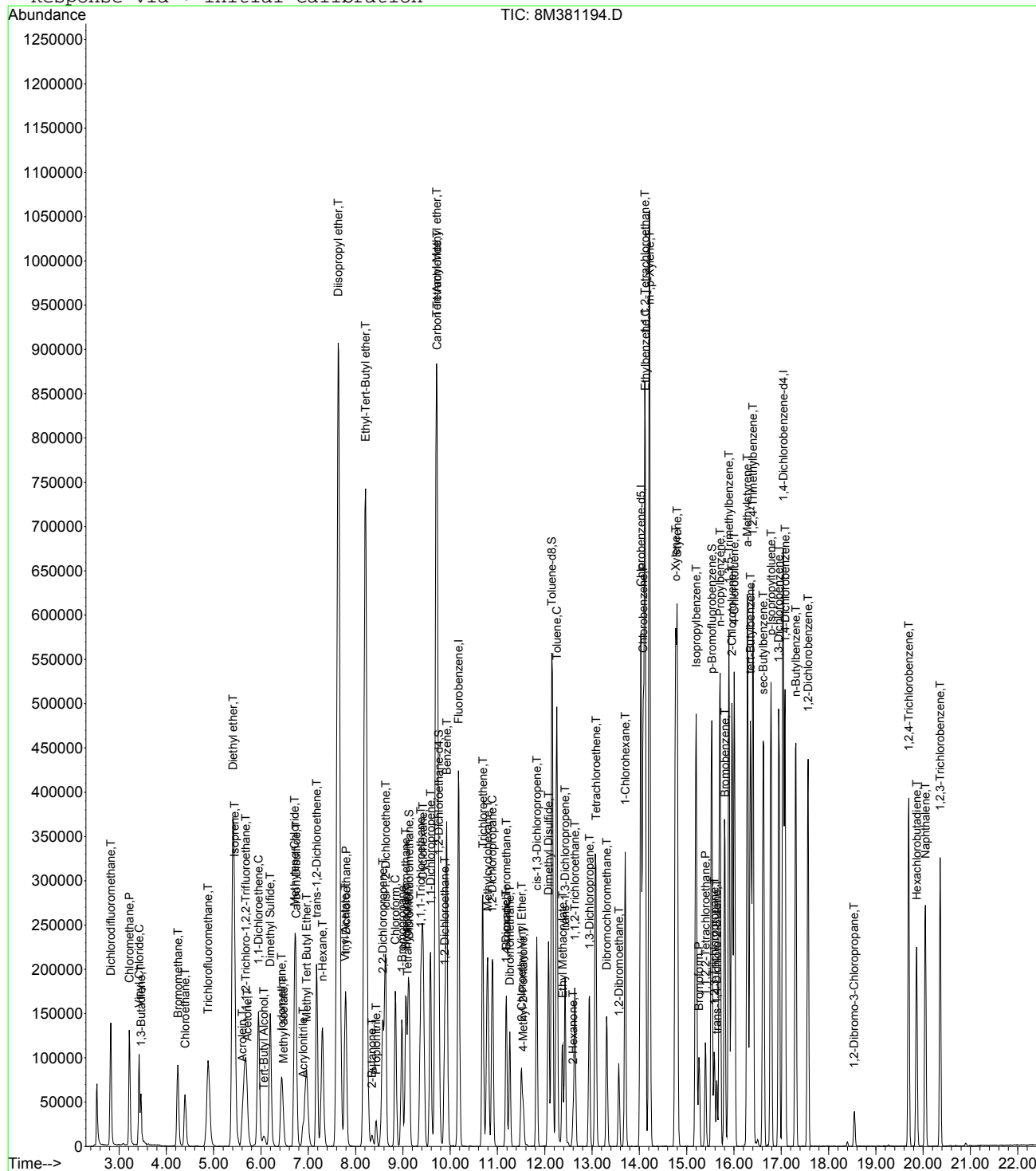
Page 2

Data File : C:\MSDCHEM\1\DATA\073012\8M381194.D
Acq On : 30 Jul 2012 13:16
Sample : WG404914-03 20ug/L LCSDUP 8260
Misc : 1,1 STD52919
MS Integration Params: RTEINT.P
Quant Time: Jul 31 8:01 2012

Vial: 6
Operator: ADC
Inst : HPMS8
Multiplr: 1.00

Quant Results File: 8260WTR.RES

Method : C:\MSDCHEM\1\METHODS\8260WTR.M (RTE Integrator)
Title : Method 8260B/624 WTR-SOP:OVLMSV01 06/28/12 HPMS 8
Last Update : Fri Jun 29 09:29:43 2012
Response via : Initial Calibration



2.2 Metals Data

2.2.1 Metals I C P Data

2.2.1.1 Summary Data



Login Number: L12070658

Department: Metals

Analyst: Kim Rhodes

Analyst #2: Qin Xu

METHOD

Preparation: SW-846 3005

Analysis: SW-846 6010

HOLDING TIMES

Sample Preparation: All holding times were met.

Sample Analysis: All holding times were met.

PREPARATION

Sample preparation proceeded normally.

CALIBRATION

Initial Calibration: All acceptance criteria were met.

Alternate Source Standards: All acceptance criteria were met.

Interference Check Standards: All acceptance criteria were met.

Continuing Calibration Verification: All acceptance criteria were met.

Continuing Calibration Blank: All acceptance criteria were met.

BATCH QA/QC

Method Blank: All acceptance criteria were met.

Laboratory Control Sample: All acceptance criteria were met.

Serial Dilution/Post Digestion Spikes: WG404492 - All acceptance criteria were met.

WG404484 - Due to analyst failure to add spiking solution to the intended post digestion spike sample, the post digestion spike was reanalyzed on a later calibration

WG404495 - All acceptance criteria were met.

Matrix Spikes: WG404484 - Sample 02 was chosen by the client for MS/MSD analysis. Samples 03(MS) and 04(MSD) yielded noncompliant recoveries for two analytes.

SAMPLES

Samples: WG404492 - Client sample 30 required a dilution analysis in order to obtain a result for sodium within the linear range.

Narrative ID: 50615

Approved By: Sheri Pfalzgraf

A handwritten signature in black ink that reads "Sheri L. Pfalzgraf".

Certificate of Analysis

Sample #: L12070658-01	PrePrep Method: N/A	Instrument: ICP-THERMO2
Client ID: MW-3-1	Prep Method: 3005A	Prep Date: 07/24/2012 06:22
Matrix: Water	Analytical Method: 6010B	Cal Date: 07/25/2012 13:34
Workgroup #: WG404484	Analyst: KHR	Run Date: 07/25/2012 16:12
Collect Date: 07/15/2012 10:15	Dilution: 1	File ID: T2.072512.161254
Sample Tag: 01	Units: mg/L	

Analyte	CAS #	Result	Qual	RL	MDL
Aluminum, Total	7429-90-5	0.212		0.100	0.0500
Calcium, Total	7440-70-2	14.2		0.200	0.100
Iron, Total	7439-89-6	0.270		0.100	0.0500
Magnesium, Total	7439-95-4	7.10		0.500	0.250
Potassium, Total	7440-09-7	24.6		1.00	0.500
Sodium, Total	7440-23-5	96.0		0.500	0.250
Strontium, Total	7440-24-6	0.930		0.0100	0.00500

Sample #: L12070658-02	PrePrep Method: N/A	Instrument: ICP-THERMO2
Client ID: MW-3-2	Prep Method: 3005A	Prep Date: 07/24/2012 06:22
Matrix: Water	Analytical Method: 6010B	Cal Date: 07/25/2012 13:34
Workgroup #: WG404484	Analyst: KHR	Run Date: 07/25/2012 16:22
Collect Date: 07/15/2012 10:38	Dilution: 1	File ID: T2.072512.162224
Sample Tag: 01	Units: mg/L	

Analyte	CAS #	Result	Qual	RL	MDL
Aluminum, Total	7429-90-5	1.28		0.100	0.0500
Calcium, Total	7440-70-2	14.4		0.200	0.100
Iron, Total	7439-89-6	3.58		0.100	0.0500
Magnesium, Total	7439-95-4	7.25		0.500	0.250
Potassium, Total	7440-09-7	6.00		1.00	0.500
Sodium, Total	7440-23-5	46.0		0.500	0.250
Strontium, Total	7440-24-6	0.483		0.0100	0.00500

Sample #: L12070658-03	PrePrep Method: N/A	Instrument: ICP-THERMO2
Client ID: MW-3-2MS	Prep Method: 3005A	Prep Date: 07/24/2012 06:22
Matrix: Water	Analytical Method: 6010B	Cal Date: 07/25/2012 13:34
Workgroup #: WG404484	Analyst: KHR	Run Date: 07/25/2012 16:25
Collect Date: 07/15/2012 12:20	Dilution: 1	File ID: T2.072512.162528
Sample Tag: 01	Units: mg/L	

Analyte	CAS #	Result	Qual	RL	MDL
Aluminum, Total	7429-90-5	5.78		0.100	0.0500

Certificate of Analysis

Analyte	CAS #	Result	Qual	RL	MDL
Calcium, Total	7440-70-2	18.6		0.200	0.100
Iron, Total	7439-89-6	3.22		0.100	0.0500
Magnesium, Total	7439-95-4	12.0		0.500	0.250
Potassium, Total	7440-09-7	30.5		1.00	0.500
Sodium, Total	7440-23-5	70.3		0.500	0.250
Strontium, Total	7440-24-6	0.950		0.0100	0.00500

Sample #: L12070658-04	PrePrep Method: N/A	Instrument: ICP-THERMO2
Client ID: MW-3-2MSD	Prep Method: 3005A	Prep Date: 07/24/2012 06:22
Matrix: Water	Analytical Method: 6010B	Cal Date: 07/25/2012 13:34
Workgroup #: WG404484	Analyst: KHR	Run Date: 07/25/2012 16:28
Collect Date: 07/15/2012 12:10	Dilution: 1	File ID: T2.072512.162830
Sample Tag: 01	Units: mg/L	

Analyte	CAS #	Result	Qual	RL	MDL
Aluminum, Total	7429-90-5	5.42		0.100	0.0500
Calcium, Total	7440-70-2	17.8		0.200	0.100
Iron, Total	7439-89-6	2.88		0.100	0.0500
Magnesium, Total	7439-95-4	11.6		0.500	0.250
Potassium, Total	7440-09-7	29.5		1.00	0.500
Sodium, Total	7440-23-5	68.2		0.500	0.250
Strontium, Total	7440-24-6	0.922		0.0100	0.00500

Sample #: L12070658-06	PrePrep Method: N/A	Instrument: ICP-THERMO2
Client ID: FIELD BLANK 15JULY2012	Prep Method: 3005A	Prep Date: 07/24/2012 06:22
Matrix: Water	Analytical Method: 6010B	Cal Date: 07/25/2012 13:34
Workgroup #: WG404484	Analyst: KHR	Run Date: 07/25/2012 16:31
Collect Date: 07/15/2012 10:50	Dilution: 1	File ID: T2.072512.163133
Sample Tag: 01	Units: mg/L	

Analyte	CAS #	Result	Qual	RL	MDL
Aluminum, Total	7429-90-5		ND	0.100	0.0500
Calcium, Total	7440-70-2		ND	0.200	0.100
Iron, Total	7439-89-6		ND	0.100	0.0500
Magnesium, Total	7439-95-4		ND	0.500	0.250
Potassium, Total	7440-09-7		ND	1.00	0.500
Sodium, Total	7440-23-5	0.590		0.500	0.250
Strontium, Total	7440-24-6		ND	0.0100	0.00500
ND	Not detected at or above the reporting limit (RL).				

Certificate of Analysis

Sample #: L12070658-07	PrePrep Method: N/A	Instrument: ICP-THERMO2
Client ID: MW-3-1-D	Prep Method: 3005A	Prep Date: 07/24/2012 06:22
Matrix: Water	Analytical Method: 6010B	Cal Date: 07/25/2012 13:34
Workgroup #: WG404484	Analyst: KHR	Run Date: 07/25/2012 16:34
Collect Date: 07/15/2012 10:30	Dilution: 1	File ID: T2.072512.163442
Sample Tag: 01	Units: mg/L	

Analyte	CAS #	Result	Qual	RL	MDL
Aluminum, Total	7429-90-5	0.235		0.100	0.0500
Calcium, Total	7440-70-2	14.6		0.200	0.100
Iron, Total	7439-89-6	0.275		0.100	0.0500
Magnesium, Total	7439-95-4	7.37		0.500	0.250
Potassium, Total	7440-09-7	25.7		1.00	0.500
Sodium, Total	7440-23-5	99.1		0.500	0.250
Strontium, Total	7440-24-6	0.977		0.0100	0.00500

Sample #: L12070658-08	PrePrep Method: N/A	Instrument: ICP-THERMO2
Client ID: MW-58	Prep Method: 3005A	Prep Date: 07/24/2012 06:22
Matrix: Water	Analytical Method: 6010B	Cal Date: 07/25/2012 13:34
Workgroup #: WG404484	Analyst: KHR	Run Date: 07/25/2012 16:37
Collect Date: 07/15/2012 14:10	Dilution: 1	File ID: T2.072512.163747
Sample Tag: 01	Units: mg/L	

Analyte	CAS #	Result	Qual	RL	MDL
Aluminum, Total	7429-90-5	0.537		0.100	0.0500
Calcium, Total	7440-70-2	5.92		0.200	0.100
Iron, Total	7439-89-6	0.975		0.100	0.0500
Magnesium, Total	7439-95-4	3.04		0.500	0.250
Potassium, Total	7440-09-7	1.27		1.00	0.500
Sodium, Total	7440-23-5	57.9		0.500	0.250
Strontium, Total	7440-24-6	0.170		0.0100	0.00500

Sample #: L12070658-09	PrePrep Method: N/A	Instrument: ICP-THERMO2
Client ID: WW-03	Prep Method: 3005A	Prep Date: 07/24/2012 06:26
Matrix: Water	Analytical Method: 6010B	Cal Date: 07/25/2012 13:34
Workgroup #: WG404495	Analyst: KHR	Run Date: 07/25/2012 16:53
Collect Date: 07/15/2012 15:10	Dilution: 1	File ID: T2.072512.165330
Sample Tag: 01	Units: mg/L	

Analyte	CAS #	Result	Qual	RL	MDL
Aluminum, Total	7429-90-5	0.0777	J	0.100	0.0500

Certificate of Analysis

Analyte	CAS #	Result	Qual	RL	MDL
Calcium, Total	7440-70-2	4.14		0.200	0.100
Iron, Total	7439-89-6	0.0557	J	0.100	0.0500
Magnesium, Total	7439-95-4	0.263	J	0.500	0.250
Potassium, Total	7440-09-7	12.5		1.00	0.500
Sodium, Total	7440-23-5	144		0.500	0.250
Strontium, Total	7440-24-6	0.707		0.0100	0.00500
J	Estimated value; the analyte concentration was less than the RL/LOQ.				

Sample #: L12070658-10	PrePrep Method: N/A	Instrument: ICP-THERMO2
Client ID: 35B WW06	Prep Method: 3005A	Prep Date: 07/24/2012 06:26
Matrix: Water	Analytical Method: 6010B	Cal Date: 07/25/2012 13:34
Workgroup #: WG404495	Analyst: KHR	Run Date: 07/25/2012 16:56
Collect Date: 07/16/2012 09:25	Dilution: 1	File ID: T2.072512.165637
Sample Tag: 01	Units: mg/L	

Analyte	CAS #	Result	Qual	RL	MDL
Aluminum, Total	7429-90-5	0.112		0.100	0.0500
Calcium, Total	7440-70-2	73.2		0.200	0.100
Iron, Total	7439-89-6	1.97		0.100	0.0500
Magnesium, Total	7439-95-4	25.5		0.500	0.250
Potassium, Total	7440-09-7	3.50		1.00	0.500
Sodium, Total	7440-23-5	186		0.500	0.250
Strontium, Total	7440-24-6	2.57		0.0100	0.00500

Sample #: L12070658-11	PrePrep Method: N/A	Instrument: ICP-THERMO2
Client ID: FIELD BLANK 16JULY2012	Prep Method: 3005A	Prep Date: 07/24/2012 06:26
Matrix: Water	Analytical Method: 6010B	Cal Date: 07/25/2012 13:34
Workgroup #: WG404495	Analyst: KHR	Run Date: 07/25/2012 17:05
Collect Date: 07/16/2012 09:20	Dilution: 1	File ID: T2.072512.170547
Sample Tag: 01	Units: mg/L	

Analyte	CAS #	Result	Qual	RL	MDL
Aluminum, Total	7429-90-5		ND	0.100	0.0500
Calcium, Total	7440-70-2		ND	0.200	0.100
Iron, Total	7439-89-6		ND	0.100	0.0500
Magnesium, Total	7439-95-4		ND	0.500	0.250
Potassium, Total	7440-09-7		ND	1.00	0.500
Sodium, Total	7440-23-5	0.524		0.500	0.250
Strontium, Total	7440-24-6		ND	0.0100	0.00500
ND	Not detected at or above the reporting limit (RL).				

Certificate of Analysis

Sample #: L12070658-12	PrePrep Method: N/A	Instrument: ICP-THERMO2
Client ID: MW3-3	Prep Method: 3005A	Prep Date: 07/24/2012 06:26
Matrix: Water	Analytical Method: 6010B	Cal Date: 07/25/2012 13:34
Workgroup #: WG404495	Analyst: KHR	Run Date: 07/25/2012 17:08
Collect Date: 07/15/2012 13:25	Dilution: 1	File ID: T2.072512.170855
Sample Tag: 01	Units: mg/L	

Analyte	CAS #	Result	Qual	RL	MDL
Aluminum, Total	7429-90-5	3.54		0.100	0.0500
Calcium, Total	7440-70-2	15.7		0.200	0.100
Iron, Total	7439-89-6	5.31		0.100	0.0500
Magnesium, Total	7439-95-4	4.08		0.500	0.250
Potassium, Total	7440-09-7	9.15		1.00	0.500
Sodium, Total	7440-23-5	66.7		0.500	0.250
Strontium, Total	7440-24-6	0.281		0.0100	0.00500

Sample #: L12070658-14	PrePrep Method: N/A	Instrument: ICP-THERMO2
Client ID: 35B WW05	Prep Method: 3005A	Prep Date: 07/24/2012 06:26
Matrix: Water	Analytical Method: 6010B	Cal Date: 07/25/2012 13:34
Workgroup #: WG404495	Analyst: KHR	Run Date: 07/25/2012 17:24
Collect Date: 07/16/2012 10:45	Dilution: 1	File ID: T2.072512.172433
Sample Tag: 01	Units: mg/L	

Analyte	CAS #	Result	Qual	RL	MDL
Aluminum, Total	7429-90-5	4.36		0.100	0.0500
Calcium, Total	7440-70-2	11.8		0.200	0.100
Iron, Total	7439-89-6	15.5		0.100	0.0500
Magnesium, Total	7439-95-4	7.34		0.500	0.250
Potassium, Total	7440-09-7	1.79		1.00	0.500
Sodium, Total	7440-23-5	59.8		0.500	0.250
Strontium, Total	7440-24-6	0.442		0.0100	0.00500

Sample #: L12070658-15	PrePrep Method: N/A	Instrument: ICP-THERMO2
Client ID: MW1-1	Prep Method: 3005A	Prep Date: 07/24/2012 06:26
Matrix: Water	Analytical Method: 6010B	Cal Date: 07/25/2012 13:34
Workgroup #: WG404495	Analyst: KHR	Run Date: 07/25/2012 17:27
Collect Date: 07/16/2012 12:00	Dilution: 1	File ID: T2.072512.172737
Sample Tag: 01	Units: mg/L	

Certificate of Analysis

Analyte	CAS #	Result	Qual	RL	MDL
Aluminum, Total	7429-90-5	4.09		0.100	0.0500
Calcium, Total	7440-70-2	14.6		0.200	0.100
Iron, Total	7439-89-6	7.50		0.100	0.0500
Magnesium, Total	7439-95-4	8.52		0.500	0.250
Potassium, Total	7440-09-7	2.15		1.00	0.500
Sodium, Total	7440-23-5	102		0.500	0.250
Strontium, Total	7440-24-6	0.475		0.0100	0.00500

Sample #: L12070658-16

PrePrep Method: N/A

Instrument: ICP-THERMO2

Client ID: MW1-2

Prep Method: 3005A

Prep Date: 07/24/2012 06:26

Matrix: Water

Analytical Method: 6010B

Cal Date: 07/25/2012 13:34

Workgroup #: WG404495

Analyst: KHR

Run Date: 07/25/2012 17:30

Collect Date: 07/16/2012 13:20

Dilution: 1

File ID: T2.072512.173042

Sample Tag: 01

Units: mg/L

Analyte	CAS #	Result	Qual	RL	MDL
Aluminum, Total	7429-90-5	0.684		0.100	0.0500
Calcium, Total	7440-70-2	14.2		0.200	0.100
Iron, Total	7439-89-6	0.956		0.100	0.0500
Magnesium, Total	7439-95-4	6.02		0.500	0.250
Potassium, Total	7440-09-7	3.38		1.00	0.500
Sodium, Total	7440-23-5	101		0.500	0.250
Strontium, Total	7440-24-6	0.379		0.0100	0.00500

Sample #: L12070658-17

PrePrep Method: N/A

Instrument: ICP-THERMO2

Client ID: MW1-3

Prep Method: 3005A

Prep Date: 07/24/2012 06:26

Matrix: Water

Analytical Method: 6010B

Cal Date: 07/25/2012 13:34

Workgroup #: WG404495

Analyst: KHR

Run Date: 07/25/2012 17:33

Collect Date: 07/16/2012 14:00

Dilution: 1

File ID: T2.072512.173346

Sample Tag: 01

Units: mg/L

Analyte	CAS #	Result	Qual	RL	MDL
Aluminum, Total	7429-90-5	9.97		0.100	0.0500
Calcium, Total	7440-70-2	8.14		0.200	0.100
Iron, Total	7439-89-6	12.2		0.100	0.0500
Magnesium, Total	7439-95-4	5.05		0.500	0.250
Potassium, Total	7440-09-7	3.87		1.00	0.500
Sodium, Total	7440-23-5	86.6		0.500	0.250
Strontium, Total	7440-24-6	0.215		0.0100	0.00500

Certificate of Analysis

Sample #: L12070658-18	PrePrep Method: N/A	Instrument: ICP-THERMO2
Client ID: 35B WW08	Prep Method: 3005A	Prep Date: 07/24/2012 06:26
Matrix: Water	Analytical Method: 6010B	Cal Date: 07/25/2012 13:34
Workgroup #: WG404495	Analyst: KHR	Run Date: 07/25/2012 17:36
Collect Date: 07/16/2012 15:00	Dilution: 1	File ID: T2.072512.173650
Sample Tag: 01	Units: mg/L	

Analyte	CAS #	Result	Qual	RL	MDL
Aluminum, Total	7429-90-5	0.531		0.100	0.0500
Calcium, Total	7440-70-2	32.5		0.200	0.100
Iron, Total	7439-89-6	1.18		0.100	0.0500
Magnesium, Total	7439-95-4	20.0		0.500	0.250
Potassium, Total	7440-09-7	2.21		1.00	0.500
Sodium, Total	7440-23-5	150		0.500	0.250
Strontium, Total	7440-24-6	1.17		0.0100	0.00500

Sample #: L12070658-19	PrePrep Method: N/A	Instrument: ICP-THERMO2
Client ID: 35B WW09	Prep Method: 3005A	Prep Date: 07/24/2012 06:26
Matrix: Water	Analytical Method: 6010B	Cal Date: 07/25/2012 13:34
Workgroup #: WG404495	Analyst: KHR	Run Date: 07/25/2012 17:39
Collect Date: 07/16/2012 15:50	Dilution: 1	File ID: T2.072512.173955
Sample Tag: 01	Units: mg/L	

Analyte	CAS #	Result	Qual	RL	MDL
Aluminum, Total	7429-90-5		ND	0.100	0.0500
Calcium, Total	7440-70-2	77.6		0.200	0.100
Iron, Total	7439-89-6	0.134		0.100	0.0500
Magnesium, Total	7439-95-4	43.1		0.500	0.250
Potassium, Total	7440-09-7	4.20		1.00	0.500
Sodium, Total	7440-23-5	202		0.500	0.250
Strontium, Total	7440-24-6	2.64		0.0100	0.00500
ND	Not detected at or above the reporting limit (RL).				

Sample #: L12070658-20	PrePrep Method: N/A	Instrument: ICP-THERMO2
Client ID: MW2-1	Prep Method: 3005A	Prep Date: 07/24/2012 06:26
Matrix: Water	Analytical Method: 6010B	Cal Date: 07/25/2012 13:34
Workgroup #: WG404495	Analyst: KHR	Run Date: 07/25/2012 17:43
Collect Date: 07/17/2012 08:55	Dilution: 1	File ID: T2.072512.174300
Sample Tag: 01	Units: mg/L	

Certificate of Analysis

Analyte	CAS #	Result	Qual	RL	MDL
Aluminum, Total	7429-90-5	2.80		0.100	0.0500
Calcium, Total	7440-70-2	4.51		0.200	0.100
Iron, Total	7439-89-6	3.03		0.100	0.0500
Magnesium, Total	7439-95-4	2.47		0.500	0.250
Potassium, Total	7440-09-7	1.73		1.00	0.500
Sodium, Total	7440-23-5	65.4		0.500	0.250
Strontium, Total	7440-24-6	0.148		0.0100	0.00500

Sample #: L12070658-22

PrePrep Method: N/A

Instrument: ICP-THERMO2

Client ID: FIELD BLANK 17JULY2012

Prep Method: 3005A

Prep Date: 07/24/2012 06:26

Matrix: Water

Analytical Method: 6010B

Cal Date: 07/25/2012 13:34

Workgroup #: WG404495

Analyst: KHR

Run Date: 07/25/2012 17:46

Collect Date: 07/17/2012 08:35

Dilution: 1

File ID: T2.072512.174605

Sample Tag: 01

Units: mg/L

Analyte	CAS #	Result	Qual	RL	MDL
Aluminum, Total	7429-90-5		ND	0.100	0.0500
Calcium, Total	7440-70-2		ND	0.200	0.100
Iron, Total	7439-89-6		ND	0.100	0.0500
Magnesium, Total	7439-95-4		ND	0.500	0.250
Potassium, Total	7440-09-7		ND	1.00	0.500
Sodium, Total	7440-23-5	0.351	J	0.500	0.250
Strontium, Total	7440-24-6		ND	0.0100	0.00500
J	Estimated value; the analyte concentration was less than the RL/LOQ.				
ND	Not detected at or above the reporting limit (RL).				

Sample #: L12070658-23

PrePrep Method: N/A

Instrument: ICP-THERMO2

Client ID: MW2-2

Prep Method: 3005A

Prep Date: 07/24/2012 06:26

Matrix: Water

Analytical Method: 6010B

Cal Date: 07/25/2012 13:34

Workgroup #: WG404495

Analyst: KHR

Run Date: 07/25/2012 17:49

Collect Date: 07/17/2012 09:45

Dilution: 1

File ID: T2.072512.174913

Sample Tag: 01

Units: mg/L

Analyte	CAS #	Result	Qual	RL	MDL
Aluminum, Total	7429-90-5	16.9		0.100	0.0500
Calcium, Total	7440-70-2	6.07		0.200	0.100
Iron, Total	7439-89-6	20.5		0.100	0.0500
Magnesium, Total	7439-95-4	4.24		0.500	0.250
Potassium, Total	7440-09-7	2.84		1.00	0.500
Sodium, Total	7440-23-5	56.0		0.500	0.250

Certificate of Analysis

Analyte	CAS #	Result	Qual	RL	MDL
Strontium, Total	7440-24-6	0.198		0.0100	0.00500

Sample #: L12070658-24	PrePrep Method: N/A	Instrument: ICP-THERMO2
Client ID: MW2-2D	Prep Method: 3005A	Prep Date: 07/24/2012 06:26
Matrix: Water	Analytical Method: 6010B	Cal Date: 07/25/2012 13:34
Workgroup #: WG404495	Analyst: KHR	Run Date: 07/25/2012 17:52
Collect Date: 07/17/2012 10:00	Dilution: 1	File ID: T2.072512.175217
Sample Tag: 01	Units: mg/L	

Analyte	CAS #	Result	Qual	RL	MDL
Aluminum, Total	7429-90-5	16.3		0.100	0.0500
Calcium, Total	7440-70-2	5.83		0.200	0.100
Iron, Total	7439-89-6	19.5		0.100	0.0500
Magnesium, Total	7439-95-4	4.12		0.500	0.250
Potassium, Total	7440-09-7	2.87		1.00	0.500
Sodium, Total	7440-23-5	54.1		0.500	0.250
Strontium, Total	7440-24-6	0.192		0.0100	0.00500

Sample #: L12070658-25	PrePrep Method: N/A	Instrument: ICP-THERMO2
Client ID: MW2-3	Prep Method: 3005A	Prep Date: 07/24/2012 06:26
Matrix: Water	Analytical Method: 6010B	Cal Date: 07/25/2012 13:34
Workgroup #: WG404495	Analyst: KHR	Run Date: 07/25/2012 18:01
Collect Date: 07/17/2012 10:55	Dilution: 1	File ID: T2.072512.180148
Sample Tag: 01	Units: mg/L	

Analyte	CAS #	Result	Qual	RL	MDL
Aluminum, Total	7429-90-5	3.55		0.100	0.0500
Calcium, Total	7440-70-2	1.52		0.200	0.100
Iron, Total	7439-89-6	3.87		0.100	0.0500
Magnesium, Total	7439-95-4	1.13		0.500	0.250
Potassium, Total	7440-09-7	1.38		1.00	0.500
Sodium, Total	7440-23-5	27.4		0.500	0.250
Strontium, Total	7440-24-6	0.0477		0.0100	0.00500

Certificate of Analysis

Sample #: L12070658-26	PrePrep Method: N/A	Instrument: ICP-THERMO2
Client ID: 35B WW01	Prep Method: 3005A	Prep Date: 07/24/2012 06:26
Matrix: Water	Analytical Method: 6010B	Cal Date: 07/25/2012 13:34
Workgroup #: WG404495	Analyst: KHR	Run Date: 07/25/2012 18:04
Collect Date: 07/17/2012 12:40	Dilution: 1	File ID: T2.072512.180453
Sample Tag: 01	Units: mg/L	

Analyte	CAS #	Result	Qual	RL	MDL
Aluminum, Total	7429-90-5	62.6		0.100	0.0500
Calcium, Total	7440-70-2	3.40		0.200	0.100
Iron, Total	7439-89-6	40.4		0.100	0.0500
Magnesium, Total	7439-95-4	5.84		0.500	0.250
Potassium, Total	7440-09-7	3.72		1.00	0.500
Sodium, Total	7440-23-5	28.6		0.500	0.250
Strontium, Total	7440-24-6	0.108		0.0100	0.00500

Sample #: L12070658-27	PrePrep Method: N/A	Instrument: PE-ICP2
Client ID: 35B WW04	Prep Method: 3005A	Prep Date: 07/24/2012 06:30
Matrix: Water	Analytical Method: 6010B	Cal Date: 07/25/2012 09:07
Workgroup #: WG404492	Analyst: KHR	Run Date: 07/25/2012 19:16
Collect Date: 07/17/2012 13:45	Dilution: 1	File ID: P2.072512.191650
Sample Tag: 01	Units: mg/L	

Analyte	CAS #	Result	Qual	RL	MDL
Aluminum, Total	7429-90-5	1.67		0.100	0.0500
Calcium, Total	7440-70-2	9.31		0.200	0.100
Iron, Total	7439-89-6	2.67		0.100	0.0500
Magnesium, Total	7439-95-4	4.81		0.500	0.250
Potassium, Total	7440-09-7	0.900	J	1.00	0.500
Sodium, Total	7440-23-5	66.8		0.500	0.250
Strontium, Total	7440-24-6	0.305		0.0100	0.00500
J	Estimated value; the analyte concentration was less than the RL/LOQ.				

Sample #: L12070658-28	PrePrep Method: N/A	Instrument: PE-ICP2
Client ID: 35B SW-1	Prep Method: 3005A	Prep Date: 07/24/2012 06:30
Matrix: Water	Analytical Method: 6010B	Cal Date: 07/25/2012 09:07
Workgroup #: WG404492	Analyst: KHR	Run Date: 07/25/2012 19:22
Collect Date: 07/17/2012 14:30	Dilution: 1	File ID: P2.072512.192250
Sample Tag: 01	Units: mg/L	

Certificate of Analysis

Analyte	CAS #	Result	Qual	RL	MDL
Aluminum, Total	7429-90-5	2.96		0.100	0.0500
Calcium, Total	7440-70-2	5.60		0.200	0.100
Iron, Total	7439-89-6	2.62		0.100	0.0500
Magnesium, Total	7439-95-4	1.90		0.500	0.250
Potassium, Total	7440-09-7	4.48		1.00	0.500
Sodium, Total	7440-23-5	6.15		0.500	0.250
Strontium, Total	7440-24-6	0.0738		0.0100	0.00500

Sample #: L12070658-29	PrePrep Method: N/A	Instrument: PE-ICP2
Client ID: 35B SW-2	Prep Method: 3005A	Prep Date: 07/24/2012 06:30
Matrix: Water	Analytical Method: 6010B	Cal Date: 07/25/2012 09:07
Workgroup #: WG404492	Analyst: KHR	Run Date: 07/25/2012 19:28
Collect Date: 07/17/2012 14:45	Dilution: 1	File ID: P2.072512.192850
Sample Tag: 01	Units: mg/L	

Analyte	CAS #	Result	Qual	RL	MDL
Aluminum, Total	7429-90-5	3.68		0.100	0.0500
Calcium, Total	7440-70-2	7.36		0.200	0.100
Iron, Total	7439-89-6	4.16		0.100	0.0500
Magnesium, Total	7439-95-4	2.41		0.500	0.250
Potassium, Total	7440-09-7	4.52		1.00	0.500
Sodium, Total	7440-23-5	5.94		0.500	0.250
Strontium, Total	7440-24-6	0.0950		0.0100	0.00500

Sample #: L12070658-30	PrePrep Method: N/A	Instrument: PE-ICP2
Client ID: 35B WW-11	Prep Method: 3005A	Prep Date: 07/24/2012 06:30
Matrix: Water	Analytical Method: 6010B	Cal Date: 07/25/2012 09:07
Workgroup #: WG404492	Analyst: KHR	Run Date: 07/25/2012 19:34
Collect Date: 07/17/2012 15:25	Dilution: 1	File ID: P2.072512.193448
Sample Tag: 01	Units: mg/L	

Analyte	CAS #	Result	Qual	RL	MDL
Aluminum, Total	7429-90-5	0.759		0.100	0.0500
Calcium, Total	7440-70-2	71.6		0.200	0.100
Iron, Total	7439-89-6	12.9		0.100	0.0500
Magnesium, Total	7439-95-4	44.9		0.500	0.250
Potassium, Total	7440-09-7	2.92		1.00	0.500
Strontium, Total	7440-24-6	2.22		0.0100	0.00500

Certificate of Analysis

Sample #: L12070658-30	PrePrep Method: N/A	Instrument: PE-ICP2
Client ID: 35B WW-11	Prep Method: 3005A	Prep Date: 07/24/2012 06:30
Matrix: Water	Analytical Method: 6010B	Cal Date: 07/26/2012 12:35
Workgroup #: WG404492	Analyst: KHR	Run Date: 07/26/2012 18:03
Collect Date: 07/17/2012 15:25	Dilution: 100	File ID: P2.072612.180331
Sample Tag: DL01	Units: mg/L	

Analyte	CAS #	Result	Qual	RL	MDL
Sodium, Total	7440-23-5	194		50.0	25.0

Sample #: L12070658-32	PrePrep Method: N/A	Instrument: PE-ICP2
Client ID: FIELD BLANK 18JULY2012	Prep Method: 3005A	Prep Date: 07/24/2012 06:30
Matrix: Water	Analytical Method: 6010B	Cal Date: 07/25/2012 09:07
Workgroup #: WG404492	Analyst: KHR	Run Date: 07/25/2012 19:40
Collect Date: 07/18/2012 08:30	Dilution: 1	File ID: P2.072512.194051
Sample Tag: 01	Units: mg/L	

Analyte	CAS #	Result	Qual	RL	MDL
Aluminum, Total	7429-90-5		ND	0.100	0.0500
Calcium, Total	7440-70-2		ND	0.200	0.100
Iron, Total	7439-89-6		ND	0.100	0.0500
Magnesium, Total	7439-95-4		ND	0.500	0.250
Potassium, Total	7440-09-7		ND	1.00	0.500
Sodium, Total	7440-23-5		ND	0.500	0.250
Strontium, Total	7440-24-6		ND	0.0100	0.00500
ND	Not detected at or above the reporting limit (RL).				

Sample #: L12070658-33	PrePrep Method: N/A	Instrument: PE-ICP2
Client ID: MW4-1	Prep Method: 3005A	Prep Date: 07/24/2012 06:30
Matrix: Water	Analytical Method: 6010B	Cal Date: 07/25/2012 09:07
Workgroup #: WG404492	Analyst: KHR	Run Date: 07/25/2012 19:47
Collect Date: 07/18/2012 08:45	Dilution: 1	File ID: P2.072512.194746
Sample Tag: 01	Units: mg/L	

Analyte	CAS #	Result	Qual	RL	MDL
Aluminum, Total	7429-90-5	3.85		0.100	0.0500
Calcium, Total	7440-70-2	57.3		0.200	0.100
Iron, Total	7439-89-6	4.87		0.100	0.0500
Magnesium, Total	7439-95-4	25.1		0.500	0.250
Potassium, Total	7440-09-7	5.67		1.00	0.500
Sodium, Total	7440-23-5	162		0.500	0.250

Certificate of Analysis

Analyte	CAS #	Result	Qual	RL	MDL
Strontium, Total	7440-24-6	2.09		0.0100	0.00500

Sample #: L12070658-34	PrePrep Method: N/A	Instrument: PE-ICP2
Client ID: MW4-2	Prep Method: 3005A	Prep Date: 07/24/2012 06:30
Matrix: Water	Analytical Method: 6010B	Cal Date: 07/25/2012 09:07
Workgroup #: WG404492	Analyst: KHR	Run Date: 07/25/2012 20:18
Collect Date: 07/18/2012 10:45	Dilution: 1	File ID: P2.072512.201842
Sample Tag: 01	Units: mg/L	

Analyte	CAS #	Result	Qual	RL	MDL
Aluminum, Total	7429-90-5	1.34		0.100	0.0500
Calcium, Total	7440-70-2	12.2		0.200	0.100
Iron, Total	7439-89-6	2.03		0.100	0.0500
Magnesium, Total	7439-95-4	6.27		0.500	0.250
Potassium, Total	7440-09-7	1.22		1.00	0.500
Sodium, Total	7440-23-5	81.6		0.500	0.250
Strontium, Total	7440-24-6	0.367		0.0100	0.00500

Sample #: L12070658-35	PrePrep Method: N/A	Instrument: PE-ICP2
Client ID: MW4-3	Prep Method: 3005A	Prep Date: 07/24/2012 06:30
Matrix: Water	Analytical Method: 6010B	Cal Date: 07/25/2012 09:07
Workgroup #: WG404492	Analyst: KHR	Run Date: 07/25/2012 20:24
Collect Date: 07/18/2012 13:00	Dilution: 1	File ID: P2.072512.202442
Sample Tag: 01	Units: mg/L	

Analyte	CAS #	Result	Qual	RL	MDL
Aluminum, Total	7429-90-5	2.19		0.100	0.0500
Calcium, Total	7440-70-2	7.32		0.200	0.100
Iron, Total	7439-89-6	2.67		0.100	0.0500
Magnesium, Total	7439-95-4	2.32		0.500	0.250
Potassium, Total	7440-09-7	1.08		1.00	0.500
Sodium, Total	7440-23-5	83.6		0.500	0.250
Strontium, Total	7440-24-6	0.122		0.0100	0.00500

Certificate of Analysis

Sample #: L12070658-36	PrePrep Method: N/A	Instrument: PE-ICP2
Client ID: 35B WW14	Prep Method: 3005A	Prep Date: 07/24/2012 06:30
Matrix: Water	Analytical Method: 6010B	Cal Date: 07/25/2012 09:07
Workgroup #: WG404492	Analyst: KHR	Run Date: 07/25/2012 20:30
Collect Date: 07/18/2012 14:25	Dilution: 1	File ID: P2.072512.203042
Sample Tag: 01	Units: mg/L	

Analyte	CAS #	Result	Qual	RL	MDL
Aluminum, Total	7429-90-5		ND	0.100	0.0500
Calcium, Total	7440-70-2	16.1		0.200	0.100
Iron, Total	7439-89-6	0.166		0.100	0.0500
Magnesium, Total	7439-95-4	7.97		0.500	0.250
Potassium, Total	7440-09-7	1.19		1.00	0.500
Sodium, Total	7440-23-5	96.9		0.500	0.250
Strontium, Total	7440-24-6	0.548		0.0100	0.00500
ND	Not detected at or above the reporting limit (RL).				

Sample #: L12070658-37	PrePrep Method: N/A	Instrument: PE-ICP2
Client ID: 35B WW07	Prep Method: 3005A	Prep Date: 07/24/2012 06:30
Matrix: Water	Analytical Method: 6010B	Cal Date: 07/25/2012 09:07
Workgroup #: WG404492	Analyst: KHR	Run Date: 07/25/2012 20:48
Collect Date: 07/18/2012 15:40	Dilution: 1	File ID: P2.072512.204843
Sample Tag: 01	Units: mg/L	

Analyte	CAS #	Result	Qual	RL	MDL
Aluminum, Total	7429-90-5	15.7		0.100	0.0500
Calcium, Total	7440-70-2	45.9		0.200	0.100
Iron, Total	7439-89-6	16.1		0.100	0.0500
Magnesium, Total	7439-95-4	28.1		0.500	0.250
Potassium, Total	7440-09-7	3.87		1.00	0.500
Sodium, Total	7440-23-5	133		0.500	0.250
Strontium, Total	7440-24-6	1.09		0.0100	0.00500

2.2.1.2 QC Summary Data

Example 6010 Calculations
Perkin Elmer Optima 4300 DV

1.0 Initial Calibration (ICAL) Parameters

The system performs linear regression from data consisting of a blank and three standards.

2.0 Calculating the concentration (C) of an element in water using data from prep log, run log, and quantitation report (note:the data system performs this calculation automatically when correction factors have been entered):

$$Cx = Cs \times \frac{Vf}{Vi} \times D$$

Where:

Cs = Concentration computed by the data system in ug/mL (ppm)

Vf = Final volume (mL)

Vi = Initial volume (mL)

D = Dilution factor as a multiplier (10X = 10)

Cx = Concentration of element in ug/mL (mg/L)

Example:

0.1

50

50

1

0.1

3.0 Calculating the concentration (C) of an element in soil using data from prep log, run log, and quantitation report (note: the data system performs this calculation automatically when correction factors have been entered):

$$Cx = Cs \times \frac{Vf}{Vi} \times D$$

Where:

Cs = Concentration computed by the data system (mg/L) (ppm)

Vf = Final volume (mL)

Vi = Initial weight (g)

D = Dilution factor as a multiplier (10X = 10)

Cx = Concentration of element in ug/g (mg/kg)

Example:

0.1

50

1

1

5

4.0 Adjusting the concentration to dry weight:

$$Cdry = \frac{Cx \times 100}{Px}$$

Where:

Cx = Concentration calculated as received (wet basis)

Px = Percent solids of sample (%wt)

$Cdry$ = Concentration calculated as dry weight (mg/kg)

Example:

5

80

6.25

Example 6010 Calculations
Thermo Scientific iCAP 6500

1.0 Initial Calibration (ICAL) Parameters

For a multi-point calibration, the system performs linear regression from data consisting of a blank and four standards.

2.0 Calculating the concentration (C) of an element in water using data from prep log, run log, and quantitation report (note:the data system performs this calculation automatically when correction factors have been entered):

$$Cx = Cs \times \frac{Vf}{Vi} \times D$$

Where:

Cs = Concentration computed by the data system in ug/mL (ppm)

Vf = Final volume (mL)

Vi = Initial volume (mL)

D = Dilution factor as a multiplier (10X = 10)

Cx = Concentration of element in ug/mL (mg/L)

Example:

0.1

50

50

1

0.1

3.0 Calculating the concentration (C) of an element in soil using data from prep log, run log, and quantitation report (note: the data system performs this calculation automatically when correction factors have been entered):

$$Cx = Cs \times \frac{Vf}{Vi} \times D$$

Where:

Cs = Concentration computed by the data system (mg/L) (ppm)

Vf = Final volume (mL)

Vi = Initial weight (g)

D = Dilution factor as a multiplier (10X = 10)

Cx = Concentration of element in ug/g (mg/kg)

Example:

0.1

50

1

1

5

4.0 Adjusting the concentration to dry weight:

$$Cdry = \frac{Cx \times 100}{Px}$$

Where:

Cx = Concentration calculated as received (wet basis)

Px = Percent solids of sample (%wt)

$Cdry$ = Concentration calculated as dry weight (mg/kg)

Example:

5

80

6.25

Workgroup: WG404235

SOP: ME401 Revision 14

Analyst: REK

Spike Solution: STD52371

Spike Analyst: REK

Spike Witness: BRG

Method: 3005A

HNO3 Lot #: COA16174

Run Date: 07/24/2012 06:30

ICP;WG401305 Filter Lot COA16240

Hotblock Start Temp: 95.1 @ 05:35

Digestion Tubes Lot #: COA16262

Hotblock End Temp: 95.2 @ 09:35

HCL Lot #: COA16290

	SAMPLE #	Type	Matrix	Initial Amount	Final Volume	Spike Amount	Due Date
1	WG404235-02	BLANK	1	50 mL	50 mL		
2	WG404235-03	LCS	1	50 mL	50 mL	5 mL	
3	L12070658-27	SAMP	1	50 mL	50 mL		08/03/12
4	L12070658-28	SAMP	1	50 mL	50 mL		08/03/12
5	L12070658-29	SAMP	1	50 mL	50 mL		08/03/12
6	L12070658-30	SAMP	1	50 mL	50 mL		08/03/12
7	L12070658-32	SAMP	1	50 mL	50 mL		08/03/12
8	L12070658-33	SAMP	1	50 mL	50 mL		08/03/12
9	L12070658-34	SAMP	1	50 mL	50 mL		08/03/12
10	L12070658-35	SAMP	1	50 mL	50 mL		08/03/12
11	WG404235-01	REF	1	50 mL	50 mL		
12	L12070658-36	SAMP	1	50 mL	50 mL		08/03/12
13	L12070658-37	SAMP	1	50 mL	50 mL		08/03/12
14	L12070673-01	SAMP	1	50 mL	50 mL		08/03/12
15	L12070673-03	SAMP	1	50 mL	50 mL		08/03/12
16	WG404235-04	MS	1	50 mL	50 mL	5 mL	
17	WG404235-05	MSD	1	50 mL	50 mL	5 mL	

L12070658-27	filtered digestate
L12070658-28	filtered digestate
L12070658-29	filtered digestate
L12070658-30	filtered digestate
L12070658-32	filtered digestate
L12070658-33	filtered digestate
L12070658-34	filtered digestate
L12070658-35	filtered digestate
L12070658-37	filtered digestate

Analyst: *REK*

Reviewer: *Evan Pottin*



Workgroup: WG404233

SOP: ME401 Revision 14

Analyst: REK

Spike Solution: STD52371

Spike Analyst: REK

Spike Witness: BRG

Method: 3005A

HNO3 Lot #: COA16174

Run Date: 07/24/2012 06:22

ICP;WG401305 Filter Lot COA16240

Hotblock Start Temp: 94.5 @ 05:00

Digestion Tubes Lot #: COA16262

Hotblock End Temp: 94.9 @ 09:00

HCL Lot #: COA16290

	SAMPLE #	Type	Matrix	Initial Amount	Final Volume	Spike Amount	Due Date
1	WG404233-02	BLANK	1	50 mL	50 mL		
2	WG404233-03	LCS	1	50 mL	50 mL	5 mL	
3	L12070546-01	SAMP	1	50 mL	50 mL		08/01/12
4	L12070546-02	SAMP	1	50 mL	50 mL		08/01/12
5	L12070546-03	SAMP	1	50 mL	50 mL		08/01/12
6	L12070546-04	SAMP	1	50 mL	50 mL		08/01/12
7	L12070546-05	SAMP	1	50 mL	50 mL		08/01/12
8	L12070649-01	SAMP	1	50 mL	50 mL		07/31/12
9	L12070649-02	SAMP	1	50 mL	50 mL		07/31/12
10	L12070649-03	SAMP	1	50 mL	50 mL		07/31/12
11	L12070649-04	SAMP	1	50 mL	50 mL		07/31/12
12	L12070649-06	SAMP	1	50 mL	50 mL		07/31/12
13	L12070649-07	SAMP	1	50 mL	50 mL		07/31/12
14	L12070649-08	SAMP	1	50 mL	50 mL		07/31/12
15	L12070649-09	SAMP	1	50 mL	50 mL		07/31/12
16	L12070649-10	SAMP	1	50 mL	50 mL		07/31/12
17	L12070649-11	SAMP	1	50 mL	50 mL		07/31/12
18	L12070658-01	SAMP	1	50 mL	50 mL		08/03/12
19	WG404233-01	REF	1	50 mL	50 mL		
20	L12070658-02	RS01	1	50 mL	50 mL		08/03/12
21	WG404233-04	MS	1	50 mL	50 mL	5 mL	
22	L12070658-03	MS01	1	50 mL	50 mL	5 mL	08/03/12
23	WG404233-05	MSD	1	50 mL	50 mL	5 mL	
24	L12070658-04	SD01	1	50 mL	50 mL	5 mL	08/03/12
25	L12070658-06	SAMP	1	50 mL	50 mL		08/03/12
26	L12070658-07	SAMP	1	50 mL	50 mL		08/03/12
27	L12070658-08	SAMP	1	50 mL	50 mL		08/03/12

L12070546-01	FILTERED DIGESTATE
L12070546-02	FILTERED DIGESTATE
L12070546-04	FILTERED DIGESTATE
L12070649-06	FILTERED DIGESTATE
L12070658-08	FILTERED DIGESTATE



Workgroup: WG404233
Analyst: REK
Spike Analyst: REK
Method: 3005A
Run Date: 07/24/2012 06:22
Hotblock Start Temp: 94.5 @ 05:00
Hotblock End Temp: 94.9 @ 09:00

SOP: ME401 Revision 14
Spike Solution: STD52371
Spike Witness: BRG
HNO3 Lot #: COA16174
ICP;WG401305 Filter Lot COA16240
Digestion Tubes Lot #: COA16262
HCL Lot #: COA16290

Analyst: *REK*

Reviewer: *Eun Pottin*



Workgroup: WG404234
 Analyst: REK
 Spike Analyst: REK
 Method: 3005A
 Run Date: 07/24/2012 06:26
 Hotblock Start Temp: 94.8 @ 05:20
 Hotblock End Temp: 95 @ 09:20

SOP: ME401 Revision 14
 Spike Solution: STD52371
 Spike Witness: BRG
 HNO3 Lot #: COA16174
 ICP;WG401305 Filter Lot COA16240
 Digestion Tubes Lot #: COA16262
 HCL Lot #: COA16290

	SAMPLE #	Type	Matrix	Initial Amount	Final Volume	Spike Amount	Due Date
1	WG404234-02	BLANK	1	50 mL	50 mL		
2	WG404234-03	LCS	1	50 mL	50 mL	5 mL	
3	L12070658-09	SAMP	1	50 mL	50 mL		08/03/12
4	WG404234-01	REF	1	50 mL	50 mL		
5	L12070658-10	SAMP	1	50 mL	50 mL		08/03/12
6	L12070658-11	SAMP	1	50 mL	50 mL		08/03/12
7	L12070658-12	SAMP	1	50 mL	50 mL		08/03/12
8	L12070658-14	SAMP	1	50 mL	50 mL		08/03/12
9	L12070658-15	SAMP	1	50 mL	50 mL		08/03/12
10	L12070658-16	SAMP	1	50 mL	50 mL		08/03/12
11	L12070658-17	SAMP	1	50 mL	50 mL		08/03/12
12	L12070658-18	SAMP	1	50 mL	50 mL		08/03/12
13	L12070658-19	SAMP	1	50 mL	50 mL		08/03/12
14	L12070658-20	SAMP	1	50 mL	50 mL		08/03/12
15	L12070658-22	SAMP	1	50 mL	50 mL		08/03/12
16	L12070658-23	SAMP	1	50 mL	50 mL		08/03/12
17	L12070658-24	SAMP	1	50 mL	50 mL		08/03/12
18	L12070658-25	SAMP	1	50 mL	50 mL		08/03/12
19	L12070658-26	SAMP	1	50 mL	50 mL		08/03/12
20	L12070695-01	SAMP	1	50 mL	50 mL		07/31/12
21	L12070695-02	SAMP	1	50 mL	50 mL		07/31/12
22	L12070695-03	SAMP	1	50 mL	50 mL		07/31/12
23	L12070698-01	SAMP	1	50 mL	50 mL		07/31/12
24	WG404234-04	MS	1	50 mL	50 mL	5 mL	
25	WG404234-05	MSD	1	50 mL	50 mL	5 mL	

L12070658-12	filtered digestate
L12070658-14	filtered digestate
L12070658-15	filtered digestate
L12070658-16	filtered digestate
L12070658-17	filtered digestate
L12070658-18	filtered digestate
L12070658-20	filtered digestate
L12070658-23	filtered digestate
L12070658-24	filtered digestate

HB_DIG - Modified 09/30/2009
 PDF ID: 2512675
 Report generated: 07/24/2012 09:53



Workgroup: WG404234
Analyst: REK
Spike Analyst: REK
Method: 3005A
Run Date: 07/24/2012 06:26
Hotblock Start Temp: 94.8 @ 05:20
Hotblock End Temp: 95 @ 09:20

SOP: ME401 Revision 14
Spike Solution: STD52371
Spike Witness: BRG
HNO3 Lot #: COA16174
ICP;WG401305 Filter Lot COA16240
Digestion Tubes Lot #: COA16262
HCL Lot #: COA16290

L12070658-25	filtered digestate
L12070658-26	filtered digestate

Analyst: *REK*

Reviewer: *Erin Pottin*



Microbac Laboratories Inc.

Instrument Run Log

Instrument: PE-ICP2 Dataset: 072512HR2.CSV
 Analyst1: KHR Analyst2: N/A
 Method: 6010 SOP: ME600E Rev: 12
 Maintenance Log ID: 42611

Calibration Std: STD52748 ICV Std: STD52745 Post Spike: STD52370
 ICSA: STD52744 ICSAB: STD52974 Int. Std: RGT17310
 CCV: STD52910 LLCCV: _____

404393, 404471, 404284, 404241, 404452, 404492

Workgroups:

Comments:

Seq.	File ID	Sample	ID	Prep	Dil	Reference	Date/Time
1	P2.072512.084108	WG404487-01	Calibration Point		1		07/25/12 08:41
2	P2.072512.084803	WG404487-02	Calibration Point		1		07/25/12 08:48
3	P2.072512.085457	WG404487-03	Calibration Point		1		07/25/12 08:54
4	P2.072512.090151	WG404487-04	Calibration Point		1		07/25/12 09:01
5	P2.072512.090749	WG404487-05	Calibration Point		1		07/25/12 09:07
6	P2.072512.091350	WG404487-06	Initial Calibration Verification		1		07/25/12 09:13
7	P2.072512.091951	WG404487-07	Initial Calib Blank		1		07/25/12 09:19
8	P2.072512.092644	WG404487-08	Interference Check		1		07/25/12 09:26
9	P2.072512.093241	WG404487-09	Interference Check		1		07/25/12 09:32
10	P2.072512.093838	WG404487-10	CCV		1		07/25/12 09:38
11	P2.072512.094437	WG404487-11	CCB		1		07/25/12 09:44
12	P2.072512.095719	WG403936-02	Method/Prep Blank	50/50	1		07/25/12 09:57
13	P2.072512.100413	WG403936-03	Laboratory Control S	50/50	1		07/25/12 10:04
14	P2.072512.101012	WG403936-01	Reference Sample		1	L12070567-01	07/25/12 10:10
15	P2.072512.101611	WG403936-04	Matrix Spike	50/50	1	L12070567-01	07/25/12 10:16
16	P2.072512.102209	WG403936-05	Matrix Spike Duplica	50/50	1	L12070567-01	07/25/12 10:22
17	P2.072512.102807	L12070568-01	49-009A-01000 W-1	50/50	1		07/25/12 10:28
18	P2.072512.103408	L12070569-01	49-010-02700 W-1	50/50	1		07/25/12 10:34
19	P2.072512.104011	L12070570-01	49-015A-00600 W-1	50/50	1		07/25/12 10:40
20	P2.072512.104611	WG404393-01	Post Digestion Spike		1	L12070570-01	07/25/12 10:46
21	P2.072512.110935	WG404487-12	CCV		1		07/25/12 11:09
22	P2.072512.111539	WG404487-13	CCB		1		07/25/12 11:15
23	P2.072512.112232	WG404393-02	Serial Dilution		5	L12070570-01	07/25/12 11:22
24	P2.072512.112828	L12070571-01	49-009A-00900 W-1	50/50	1		07/25/12 11:28
25	P2.072512.113426	L12070572-01	49-009A-05800 W-1	50/50	1		07/25/12 11:34
26	P2.072512.114025	L12070573-01	49-009A-00800 W-1	50/50	1		07/25/12 11:40
27	P2.072512.114625	L12070574-01	49-009A-01400 W-1	50/50	1		07/25/12 11:46
28	P2.072512.115223	L12070575-01	49-010-02600 W-1	50/50	1		07/25/12 11:52
29	P2.072512.115822	L12070575-02	49-010-02600 DW-2	50/50	1		07/25/12 11:58
30	P2.072512.120421	L12070576-01	49-015A-01100 W-1	50/50	1		07/25/12 12:04
31	P2.072512.121020	L12070576-02	49-015A-01100 DW-2	50/50	1		07/25/12 12:10
32	P2.072512.121623	L12070577-01	49-016-01100 DW-1	50/50	1		07/25/12 12:16
33	P2.072512.122222	WG404487-14	CCV		1		07/25/12 12:22
34	P2.072512.122822	WG404487-15	CCB		1		07/25/12 12:28

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Shari L. Bahgat



Microbac Laboratories Inc.

Instrument Run Log

Instrument: PE-ICP2 Dataset: 072512HR2.CSV
 Analyst1: KHR Analyst2: N/A
 Method: 6010 SOP: ME600E Rev: 12
 Maintenance Log ID: 42611

Calibration Std: STD52748 ICV Std: STD52745 Post Spike: STD52370
 ICSA: STD52744 ICSAB: STD52974 Int. Std: RGT17310
 CCV: STD52910 LLCCV: _____

404393, 404471, 404284, 404241, 404452, 404492

Workgroups:

Comments:

Seq.	File ID	Sample	ID	Prep	Dil	Reference	Date/Time
35	P2.072512.123516	L12070578-01	49-009A-01300 W-1	50/50	1		07/25/12 12:35
36	P2.072512.124116	L12070579-01	49-015A-00300 W-1	50/50	1		07/25/12 12:41
37	P2.072512.124817	L12070594-01	6097-W0001	50/50	1		07/25/12 12:48
38	P2.072512.125510	L12070594-02	6097-W0002	50/50	1		07/25/12 12:55
39	P2.072512.130203	L12070605-01	70360-W0001	50/50	1		07/25/12 13:02
40	P2.072512.130857	L12070605-02	70365-W0001	50/50	1		07/25/12 13:08
41	P2.072512.132259	WG404090-01	Reference Sample		100	L12070636-01	07/25/12 13:22
42	P2.072512.132953	WG404090-04	Duplicate	50/50	100	L12070636-01	07/25/12 13:29
43	P2.072512.133647	WG404090-05	Matrix Spike	50/50	100	L12070636-01	07/25/12 13:36
44	P2.072512.134342	L12070549-01	03-012-08700 W-2	50/50	100		07/25/12 13:43
45	P2.072512.135037	WG404487-16	CCV		1		07/25/12 13:50
46	P2.072512.135637	WG404487-17	CCB		1		07/25/12 13:56
47	P2.072512.140118	WG404445-02	Method/Prep Blank	5/50	1		07/25/12 14:01
48	P2.072512.140814	WG404445-03	Laboratory Control S	5/50	1		07/25/12 14:08
49	P2.072512.141503	WG404382-01	TCLP Fluid Blank 1		1		07/25/12 14:15
50	P2.072512.142200	WG404382-02	TCLP Fluid Blank 2		1		07/25/12 14:22
51	P2.072512.142854	WG404445-01	Reference Sample		1	L12070675-05	07/25/12 14:28
52	P2.072512.143453	WG404445-04	Matrix Spike	5/50	1	L12070675-05	07/25/12 14:34
53	P2.072512.144051	WG404445-05	Matrix Spike Duplica	5/50	1	L12070675-05	07/25/12 14:40
54	P2.072512.144650	L12070522-01	2070961-01	5/50	1		07/25/12 14:46
55	P2.072512.145253	WG404471-01	Post Digestion Spike		1	L12070522-01	07/25/12 14:52
56	P2.072512.151746	WG404487-18	CCV		1		07/25/12 15:17
57	P2.072512.152345	WG404487-19	CCB		1		07/25/12 15:23
58	P2.072512.153038	WG404471-02	Serial Dilution		5	L12070522-01	07/25/12 15:30
59	P2.072512.153735	WG404366-02	Method/Prep Blank	50/50	1		07/25/12 15:37
60	P2.072512.154433	WG404366-03	Laboratory Control S	50/50	1		07/25/12 15:44
61	P2.072512.155033	WG404366-01	Reference Sample		1	L12070703-01	07/25/12 15:50
62	P2.072512.155639	WG404366-04	Duplicate	50/50	1	L12070703-01	07/25/12 15:56
63	P2.072512.160245	WG404366-05	Matrix Spike	50/50	1	L12070703-01	07/25/12 16:02
64	P2.072512.160842	L12070703-02	LCL-K-EQBLK-2	50/50	1		07/25/12 16:08
65	P2.072512.161536	L12070715-06	006	50/50	1		07/25/12 16:15
66	P2.072512.162134	L12070728-01	OUTFALL 002/COMP	50/50	1		07/25/12 16:21
67	P2.072512.162830	WG404452-01	Post Digestion Spike		1	L12070728-01	07/25/12 16:28
68	P2.072512.163427	WG404487-20	CCV		1		07/25/12 16:34

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Microbac Laboratories Inc.

Instrument Run Log

Instrument: PE-ICP2 Dataset: 072512HR2.CSV
 Analyst1: KHR Analyst2: N/A
 Method: 6010 SOP: ME600E Rev: 12
 Maintenance Log ID: 42611

Calibration Std: STD52748 ICV Std: STD52745 Post Spike: STD52370
 ICSA: STD52744 ICSAB: STD52974 Int. Std: RGT17310
 CCV: STD52910 LLCCV: _____

404393, 404471, 404284, 404241, 404452, 404492

Workgroups:

Comments:

Seq.	File ID	Sample	ID	Prep	Dil	Reference	Date/Time
69	P2.072512.164027	WG404487-21	CCB		1		07/25/12 16:40
70	P2.072512.164721	WG404452-02	Serial Dilution		5	L12070728-01	07/25/12 16:47
71	P2.072512.165416	L12070729-04	OUTFALL 003/COMP	50/50	1		07/25/12 16:54
72	P2.072512.170112	L12070732-01	EFFLUENT/OUTLET 001/CC	50/50	1		07/25/12 17:01
73	P2.072512.170711	L12070736-06	1207-299-1	50/50	1		07/25/12 17:07
74	P2.072512.171407	L12070736-07	1207-299-2	50/50	1		07/25/12 17:14
75	P2.072512.172005	L12070609-15	116-WW1-1	5/50	1		07/25/12 17:20
76	P2.072512.172605	L12070666-22	77WCWATER-1	5/50	1		07/25/12 17:26
77	P2.072512.173206	L12070675-01	2071060-01	5/50	1		07/25/12 17:32
78	P2.072512.173908	L12070675-02	2071060-02	5/50	1		07/25/12 17:39
79	P2.072512.174513	L12070675-03	2071060-03	5/50	1		07/25/12 17:45
80	P2.072512.175113	WG404487-22	CCV		1		07/25/12 17:51
81	P2.072512.175712	WG404487-23	CCB		1		07/25/12 17:57
82	P2.072512.180405	L12070675-04	2071060-04	5/50	1		07/25/12 18:04
83	P2.072512.181105	L12070712-01	60500-C0102	5/50	1		07/25/12 18:11
84	P2.072512.181804	L12070713-01	60500-SSP0244	5/50	1		07/25/12 18:18
85	P2.072512.182503	L12070735-01	BAGHOUSE LIME	5/50	1		07/25/12 18:25
86	P2.072512.183159	L12070735-02	HOTLINE FILTER CAKE	5/50	1		07/25/12 18:31
87	P2.072512.183758	L12070735-03	COLD ROLL FILTER CAKE	5/50	1		07/25/12 18:37
88	P2.072512.184457	L12070735-04	ROLL SHOP SLUDGE	5/50	1		07/25/12 18:44
89	P2.072512.185057	WG404487-24	CCV		1		07/25/12 18:50
90	P2.072512.185701	WG404487-25	CCB		1		07/25/12 18:57
91	P2.072512.190355	WG404235-02	Method/Prep Blank	50/50	1		07/25/12 19:03
92	P2.072512.191050	WG404235-03	Laboratory Control S	50/50	1		07/25/12 19:10
93	P2.072512.191650	L12070658-27	35B WW04	50/50	1		07/25/12 19:16
94	P2.072512.192250	L12070658-28	35B SW-1	50/50	1		07/25/12 19:22
95	P2.072512.192850	L12070658-29	35B SW-2	50/50	1		07/25/12 19:28
96	P2.072512.193448	L12070658-30	35B WW-11	50/50	1		07/25/12 19:34
97	P2.072512.194051	L12070658-32	FIELD BLANK 18JULY2012	50/50	1		07/25/12 19:40
98	P2.072512.194746	L12070658-33	MW4-1	50/50	1		07/25/12 19:47
99	P2.072512.195346	WG404492-01	Post Digestion Spike		1	L12070658-33	07/25/12 19:53
100	P2.072512.195948	WG404492-02	Serial Dilution		5	L12070658-33	07/25/12 19:59
101	P2.072512.200546	WG404487-26	CCV		1		07/25/12 20:05
102	P2.072512.201149	WG404487-27	CCB		1		07/25/12 20:11

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Shari L. Bahgat



Microbac Laboratories Inc.

Instrument Run Log

Instrument: PE-ICP2 Dataset: 072512HR2.CSV
 Analyst1: KHR Analyst2: N/A
 Method: 6010 SOP: ME600E Rev: 12
 Maintenance Log ID: 42611

Calibration Std: STD52748 ICV Std: STD52745 Post Spike: STD52370
 ICSA: STD52744 ICSAB: STD52974 Int. Std: RGT17310
 CCV: STD52910 LLCCV: _____

404393, 404471, 404284, 404241, 404452, 404492

Workgroups:

Comments:

Seq.	File ID	Sample	ID	Prep	Dil	Reference	Date/Time
103	P2.072512.201842	L12070658-34	MW4-2	50/50	1		07/25/12 20:18
104	P2.072512.202442	L12070658-35	MW4-3	50/50	1		07/25/12 20:24
105	P2.072512.203042	L12070658-36	35B WW14		1	WG404235-01	07/25/12 20:30
106	P2.072512.203642	WG404235-04	Matrix Spike	50/50	1	L12070658-36	07/25/12 20:36
107	P2.072512.204241	WG404235-05	Matrix Spike Duplica	50/50	1	L12070658-36	07/25/12 20:42
108	P2.072512.204843	L12070658-37	35B WW07	50/50	1		07/25/12 20:48
109	P2.072512.205444	L12070673-01	MPL19-0712-1	50/50	1		07/25/12 20:54
110	P2.072512.210140	L12070673-03	MPL20-0712-1	50/50	1		07/25/12 21:01
111	P2.072512.210740	L12070673-01	MPL19-0712-1	50/50	10		07/25/12 21:07
112	P2.072512.211435	L12070673-03	MPL20-0712-1	50/50	10		07/25/12 21:14
113	P2.072512.212130	WG404487-28	CCV		1		07/25/12 21:21
114	P2.072512.212734	WG404487-29	CCB		1		07/25/12 21:27

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Shari L. Bahgat



Microbac Laboratories Inc.

Instrument Run Log

Instrument: PE-ICP2 Dataset: 072612H2R.CSV
 Analyst1: KHR Analyst2: N/A
 Method: 6010 SOP: ME600E Rev: 12
 Maintenance Log ID: 42631

Calibration Std: STD52748 ICV Std: STD52745 Post Spike: STD52370
 ICSA: STD52744 ICSAB: STD52974 Int. Std: RGT17310
 CCV: STD52910 LLCCV: _____

404481, 403319, 404471, 404393, 404601, 404603

Workgroups:

Comments:

Seq.	File ID	Sample	ID	Prep	Dil	Reference	Date/Time
1	P2.072612.120739	WG404693-01	Calibration Point		1		07/26/12 12:07
2	P2.072612.121443	WG404693-02	Calibration Point		1		07/26/12 12:14
3	P2.072612.122150	WG404693-03	Calibration Point		1		07/26/12 12:21
4	P2.072612.122856	WG404693-04	Calibration Point		1		07/26/12 12:28
5	P2.072612.123506	WG404693-05	Calibration Point		1		07/26/12 12:35
6	P2.072612.124118	WG404693-06	Initial Calibration Verification		1		07/26/12 12:41
7	P2.072612.124726	WG404693-07	Initial Calib Blank		1		07/26/12 12:47
8	P2.072612.125432	WG404693-08	Low Level Initial Calibration V		1		07/26/12 12:54
9	P2.072612.130139	WG404693-09	LLICV		1		07/26/12 13:01
10	P2.072612.130900	WG404693-10	Low Level Initial Calibration V		1		07/26/12 13:09
11	P2.072612.131606	WG404693-11	Interference Check		1		07/26/12 13:16
12	P2.072612.132214	WG404693-12	Interference Check		1		07/26/12 13:22
13	P2.072612.132822	WG404693-13	CCV		1		07/26/12 13:28
14	P2.072612.133433	WG404693-14	CCB		1		07/26/12 13:34
15	P2.072612.134745	WG404092-02	Method/Prep Blank	50/50	1		07/26/12 13:47
16	P2.072612.135451	WG404092-03	Laboratory Control S	50/50	1		07/26/12 13:54
17	P2.072612.140102	L12070541-01	HL-7 PROCESS-071712	50/50	1		07/26/12 14:01
18	P2.072612.140718	L12070541-02	HL-7 PROCESS-071712D	50/50	1		07/26/12 14:07
19	P2.072612.141336	L12070541-03	HL-W WEFF-071712	50/50	1		07/26/12 14:13
20	P2.072612.142050	L12070541-04	HL-SW WINF-071712	50/50	1		07/26/12 14:20
21	P2.072612.142702	WG404481-01	Post Digestion Spike		1	L12070541-04	07/26/12 14:27
22	P2.072612.143321	WG404481-02	Serial Dilution		5	L12070541-04	07/26/12 14:33
23	P2.072612.144030	WG404693-15	CCV		1		07/26/12 14:40
24	P2.072612.144642	WG404693-16	CCB		1		07/26/12 14:46
25	P2.072612.145347	WG404092-01	Reference Sample		1	L12070641-02	07/26/12 14:53
26	P2.072612.145958	WG404092-04	Matrix Spike	50/50	1	L12070641-02	07/26/12 14:59
27	P2.072612.150616	WG404092-05	Matrix Spike Duplica	50/50	1	L12070641-02	07/26/12 15:06
28	P2.072612.151232	L12070641-03	SS002CP27-120719	50/50	1		07/26/12 15:12
29	P2.072612.151843	L12070641-04	WP021CP057-120719	50/50	1		07/26/12 15:18
30	P2.072612.152455	L12070641-05	ST006CP166-120719	50/50	1		07/26/12 15:24
31	P2.072612.153106	L12070641-06	ST008CP230-120719	50/50	1		07/26/12 15:31
32	P2.072612.153717	L12070641-07	SS038CP003-120719	50/50	1		07/26/12 15:37
33	P2.072612.154329	L12070641-08	SS040CP280-120719	50/50	1		07/26/12 15:43
34	P2.072612.155038	WG404693-17	CCV		1		07/26/12 15:50

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Maren Beery



Microbac Laboratories Inc.

Instrument Run Log

Instrument: PE-ICP2 Dataset: 072612H2R.CSV
 Analyst1: KHR Analyst2: N/A
 Method: 6010 SOP: ME600E Rev: 12
 Maintenance Log ID: 42631

Calibration Std: STD52748 ICV Std: STD52745 Post Spike: STD52370
 ICSA: STD52744 ICSAB: STD52974 Int. Std: RGT17310
 CCV: STD52910 LLCCV: _____

404481, 403319, 404471, 404393, 404601, 404603

Workgroups:

Comments:

Seq.	File ID	Sample	ID	Prep	Dil	Reference	Date/Time
35	P2.072612.155650	WG404693-18	CCB		1		07/26/12 15:56
36	P2.072612.160356	L12070643-02	BIF-PND-T1-W212-F	50/50	1		07/26/12 16:03
37	P2.072612.161109	L12070643-04	BEF-BC1-T1-W212-F	50/50	1		07/26/12 16:11
38	P2.072612.161823	L12070643-06	BEF-BC2-T1-W212-F	50/50	1		07/26/12 16:18
39	P2.072612.162436	L12070643-08	BEF-BC3-T1-W212-F	50/50	1		07/26/12 16:24
40	P2.072612.163147	L12070643-10	BEF-SMF-T1-W212-F	50/50	1		07/26/12 16:31
41	P2.072612.163858	L12070643-12	BEF-CBE-T1-W212-F	50/50	1		07/26/12 16:38
42	P2.072612.164610	L12070666-08	116-BH06-1-RB	50/50	1		07/26/12 16:46
43	P2.072612.165316	L12070666-18	125-BH04-1-RB	50/50	1		07/26/12 16:53
44	P2.072612.170022	L12070666-08	116-BH06-1-RB		10		07/26/12 17:00
45	P2.072612.170729	L12070666-18	125-BH04-1-RB		10		07/26/12 17:07
46	P2.072612.171436	WG404693-19	CCV		1		07/26/12 17:14
47	P2.072612.172048	WG404693-20	CCB		1		07/26/12 17:20
48	P2.072612.172753	WG404693-21	Low Level Continuing Calibra		1		07/26/12 17:27
49	P2.072612.173501	WG404693-22	Low Level Continuing Calibra		1		07/26/12 17:35
50	P2.072612.174209	L12070001-01	MDL-1	50/50	1		07/26/12 17:42
51	P2.072612.174918	L12070003-01	LOQ-1	50/50	1		07/26/12 17:49
52	P2.072612.175626	L12070735-01	BAGHOUSE LIME	5/50	100		07/26/12 17:56
53	P2.072612.180331	L12070658-30	35B WW-11	50/50	100		07/26/12 18:03
54	P2.072612.181037	L12070673-01	MPL19-0712-1	50/50	1		07/26/12 18:10
55	P2.072612.181744	WG404492-03	Post Digestion Spike		1	L12070673-01	07/26/12 18:17
56	P2.072612.182356	L12070576-02	49-015A-01100 DW-2	50/50	100		07/26/12 18:23
57	P2.072612.183102	WG404693-23	CCV		1		07/26/12 18:31
58	P2.072612.183714	WG404693-24	CCB		1		07/26/12 18:37
59	P2.072612.191944	WG404693-25	CCV		1		07/26/12 19:19
60	P2.072612.192555	WG404693-26	CCB		1		07/26/12 19:25
61	P2.072612.193300	WG404522-03	Method/Prep Blank	50/50	1		07/26/12 19:33
62	P2.072612.194007	WG404522-04	Laboratory Control S	50/50	1		07/26/12 19:40
63	P2.072612.194617	L12070753-01	88MW-07--2012-0724	50/50	1		07/26/12 19:46
64	P2.072612.195331	L12070753-02	88MW-10--2012-0724	50/50	1		07/26/12 19:53
65	P2.072612.200038	L12070753-03	MW29-01--2012-0724	50/50	1		07/26/12 20:00
66	P2.072612.200648	L12070753-04	MW29-02--2012-0724	50/50	1		07/26/12 20:06
67	P2.072612.201258	L12070753-05	MW29-06--2012-0724	50/50	1		07/26/12 20:12
68	P2.072612.201909	L12070753-06	MW29-07--2012-0724	50/50	1		07/26/12 20:19

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Maren Beery



Microbac Laboratories Inc.

Instrument Run Log

Instrument: PE-ICP2 Dataset: 072612H2R.CSV
 Analyst1: KHR Analyst2: N/A
 Method: 6010 SOP: ME600E Rev: 12
 Maintenance Log ID: 42631

Calibration Std: STD52748 ICV Std: STD52745 Post Spike: STD52370
 ICSA: STD52744 ICSAB: STD52974 Int. Std: RGT17310
 CCV: STD52910 LLCCV: _____

404481, 403319, 404471, 404393, 404601, 404603

Workgroups:

Comments:

Seq.	File ID	Sample	ID	Prep	Dil	Reference	Date/Time
69	P2.072612.202519	WG404601-01	Post Digestion Spike		1	L12070753-06	07/26/12 20:25
70	P2.072612.203131	WG404601-02	Serial Dilution		5	L12070753-06	07/26/12 20:31
71	P2.072612.203839	WG404693-27	CCV		1		07/26/12 20:38
72	P2.072612.204451	WG404693-28	CCB		1		07/26/12 20:44
73	P2.072612.205156	L12070753-07	MW29-08--2012-0724	50/50	1		07/26/12 20:51
74	P2.072612.205808	WG404522-01	Reference Sample		1	L12070753-08	07/26/12 20:58
75	P2.072612.210419	WG404522-05	Matrix Spike	50/50	1	L12070753-08	07/26/12 21:04
76	P2.072612.211030	WG404522-06	Matrix Spike Duplica	50/50	1	L12070753-08	07/26/12 21:10
77	P2.072612.211641	L12070753-11	MW29-21--2012-0724	50/50	1		07/26/12 21:16
78	P2.072612.212252	L12070753-12	MW29-22--2012-0724	50/50	1		07/26/12 21:22
79	P2.072612.212904	L12070753-13	MW29-23--2012-0724	50/50	1		07/26/12 21:29
80	P2.072612.213519	L12070753-14	MW29-24--2012-0724	50/50	1		07/26/12 21:35
81	P2.072612.214130	WG404522-02	Reference Sample		1	L12070753-15	07/26/12 21:41
82	P2.072612.214740	WG404693-29	CCV		1		07/26/12 21:47
83	P2.072612.215352	WG404693-30	CCB		1		07/26/12 21:53
84	P2.072612.220057	WG404522-07	Matrix Spike	50/50	1	L12070753-15	07/26/12 22:00
85	P2.072612.220709	WG404522-08	Matrix Spike Duplica	50/50	1	L12070753-15	07/26/12 22:07
86	P2.072612.221321	L12070753-18	MW88-39--2012-0724	50/50	1		07/26/12 22:13
87	P2.072612.221933	L12070753-19	MW-8R--2012-0724	50/50	1		07/26/12 22:19
88	P2.072612.222545	L12070753-20	MW9R--2012-0724	50/50	1		07/26/12 22:25
89	P2.072612.223157	WG404693-31	CCV		1		07/26/12 22:31
90	P2.072612.223811	WG404693-32	CCB		1		07/26/12 22:38
91	P2.072612.224516	WG404693-33	Low Level Continuing Calibra		1		07/26/12 22:45
92	P2.072612.225224	WG404693-34	Low Level Continuing Calibra		1		07/26/12 22:52
93	P2.072612.225931	WG404518-02	Method/Prep Blank	50/50	1		07/26/12 22:59
94	P2.072612.230638	WG404518-03	Laboratory Control S	50/50	1		07/26/12 23:06
95	P2.072612.231249	L12070725-02	BIF-PND-T1-W213-F		1	WG404518-01	07/26/12 23:12
96	P2.072612.232001	WG404518-04	Matrix Spike	50/50	1	L12070725-02	07/26/12 23:20
97	P2.072612.232615	WG404518-05	Matrix Spike Duplica	50/50	1	L12070725-02	07/26/12 23:26
98	P2.072612.233229	L12070725-04	BEF-BC1-T1-W213-F	50/50	1		07/26/12 23:32
99	P2.072612.233941	L12070725-06	BEF-BC2-T1-W213-F	50/50	1		07/26/12 23:39
100	P2.072612.234653	L12070725-08	BEF-BC3-T1-W213-F	50/50	1		07/26/12 23:46
101	P2.072612.235308	WG404603-01	Post Digestion Spike		1	L12070725-08	07/26/12 23:53
102	P2.072612.235925	WG404603-02	Serial Dilution		5	L12070725-08	07/26/12 23:59

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Microbac Laboratories Inc.

Instrument Run Log

Instrument: PE-ICP2 Dataset: 072612H2R.CSV
 Analyst1: KHR Analyst2: N/A
 Method: 6010 SOP: ME600E Rev: 12
 Maintenance Log ID: 42631

Calibration Std: STD52748 ICV Std: STD52745 Post Spike: STD52370
 ICSA: STD52744 ICSAB: STD52974 Int. Std: RGT17310
 CCV: STD52910 LLCCV: _____

404481, 403319, 404471, 404393, 404601, 404603

Workgroups:

Comments:

Seq.	File ID	Sample	ID	Prep	Dil	Reference	Date/Time
103	P2.072712.000634	WG404693-35	CCV		1		07/27/12 00:06
104	P2.072712.001245	WG404693-36	CCB		1		07/27/12 00:12
105	P2.072712.001950	L12070725-10	BEF-SMF-T1-W213-F	50/50	1		07/27/12 00:19
106	P2.072712.002703	L12070725-12	BEF-CBE-T1-W213-F	50/50	1		07/27/12 00:27
107	P2.072712.003415	L12070750-02	DUP-01-120724	50/50	1		07/27/12 00:34
108	P2.072712.004027	L12070750-03	LF014CP074-120724	50/50	1		07/27/12 00:40
109	P2.072712.004639	L12070750-04	LF015CP043-120724	50/50	1		07/27/12 00:46
110	P2.072712.005251	L12070750-05	LF012CP102-120724	50/50	1		07/27/12 00:52
111	P2.072712.005903	L12070756-36	ORG-SO1-275-14	50/50	1		07/27/12 00:59
112	P2.072712.010610	L12070756-38	ORG-SO2-275-14	50/50	1		07/27/12 01:06
113	P2.072712.011317	L12070761-01	CONNIE GASTON	50/50	1		07/27/12 01:13
114	P2.072712.012029	L12070761-01	CONNIE GASTON		1		07/27/12 01:20
115	P2.072712.012737	WG404693-37	CCV		1		07/27/12 01:27
116	P2.072712.013349	WG404693-38	CCB		1		07/27/12 01:33
117	P2.072712.014054	WG404693-39	Low Level Continuing Calibra		1		07/27/12 01:40
118	P2.072712.014803	WG404693-40	Low Level Continuing Calibra		1		07/27/12 01:48
119	P2.072712.015511	WG404693-41	CCV		1		07/27/12 01:55
120	P2.072712.020122	WG404693-42	CCB		1		07/27/12 02:01

Comments

Seq.	Rerun	Dil.	Reason	Analytes
9			LLICV was not loaded into the autosampler rack and was reanalyzed at 13:09	

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Microbac Laboratories Inc.

Instrument Run Log

Instrument: ICP-THERMO2 Dataset: 072512T2.2R.TXT
 Analyst1: QX Analyst2: N/A
 Method: 6010 SOP: ME600G Rev: 2
 Maintenance Log ID: 42613

Calibration Std: STD52850 ICV Std: STD52851 Post Spike: STD51884
 ICSA: STD52894 ICSAB: STD52895 Int. Std: RGT17310
 CCV: STD52910 LLCCV: _____

404284,404484,404495,404498

Workgroups:

Comments:

Seq.	File ID	Sample	ID	Prep	Dil	Reference	Date/Time
1	T2.072512.132136	WG404494-01	Calibration Point		1		07/25/12 13:21
2	T2.072512.132512	WG404494-02	Calibration Point		1		07/25/12 13:25
3	T2.072512.132825	WG404494-03	Calibration Point		1		07/25/12 13:28
4	T2.072512.133134	WG404494-04	Calibration Point		1		07/25/12 13:31
5	T2.072512.133441	WG404494-05	Calibration Point		1		07/25/12 13:34
6	T2.072512.133751	WG404494-06	Initial Calibration Verification		1		07/25/12 13:37
7	T2.072512.134055	WG404494-07	Initial Calib Blank		1		07/25/12 13:40
8	T2.072512.134404	WG404494-08	Interference Check		1		07/25/12 13:44
9	T2.072512.134709	WG404494-09	Interference Check		1		07/25/12 13:47
10	T2.072512.135017	WG404494-10	CCV		1		07/25/12 13:50
11	T2.072512.135322	WG404494-11	CCB		1		07/25/12 13:53
12	T2.072512.140447	L12070008-15	IDL1-ICP-THERMO2	50/50	1		07/25/12 14:04
13	T2.072512.140755	L12070008-16	IDL2-ICP-THERMO2	50/50	1		07/25/12 14:07
14	T2.072512.141104	L12070008-17	IDL3-ICP-THERMO2	50/50	1		07/25/12 14:11
15	T2.072512.141412	L12070008-18	IDL4-ICP-THERMO2	50/50	1		07/25/12 14:14
16	T2.072512.141721	L12070008-19	IDL5-ICP-THERMO2	50/50	1		07/25/12 14:17
17	T2.072512.142029	L12070008-20	IDL6-ICP-THERMO2	50/50	1		07/25/12 14:20
18	T2.072512.142338	L12070008-21	IDL7-ICP-THERMO2	50/50	1		07/25/12 14:23
19	T2.072512.142654	WG404494-12	CCV		1		07/25/12 14:26
20	T2.072512.142958	WG404494-13	CCB		1		07/25/12 14:29
21	T2.072512.143315	WG404090-02	Method/Prep Blank	50/50	1		07/25/12 14:33
22	T2.072512.143623	WG404090-03	Laboratory Control S	50/50	1		07/25/12 14:36
23	T2.072512.143929	WG404090-01	Reference Sample		1	L12070636-01	07/25/12 14:39
24	T2.072512.144233	WG404090-04	Duplicate	50/50	1	L12070636-01	07/25/12 14:42
25	T2.072512.144538	WG404090-05	Matrix Spike	50/50	1	L12070636-01	07/25/12 14:45
26	T2.072512.144841	L12070663-01	1207-275-1	50/50	1		07/25/12 14:48
27	T2.072512.145146	L12070671-01	1207-273-1	50/50	1		07/25/12 14:51
28	T2.072512.145452	WG404284-03	Post Digestion Spike		1	L12070671-01	07/25/12 14:54
29	T2.072512.145755	WG404284-04	Serial Dilution		5	L12070671-01	07/25/12 14:57
30	T2.072512.150107	WG404494-14	CCV		1		07/25/12 15:01
31	T2.072512.150413	WG404494-15	CCB		1		07/25/12 15:04
32	T2.072512.150725	WG404233-02	Method/Prep Blank	50/50	1		07/25/12 15:07
33	T2.072512.151033	WG404233-03	Laboratory Control S	50/50	1		07/25/12 15:10
34	T2.072512.151338	L12070546-01	HL-5 HOLZ INF-071712	50/50	1		07/25/12 15:13

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Microbac Laboratories Inc.

Instrument Run Log

Instrument: ICP-THERMO2 Dataset: 072512T2.2R.TXT
 Analyst1: QX Analyst2: N/A
 Method: 6010 SOP: ME600G Rev: 2
 Maintenance Log ID: 42613

Calibration Std: STD52850 ICV Std: STD52851 Post Spike: STD51884
 ICSA: STD52894 ICSAB: STD52895 Int. Std: RGT17310
 CCV: STD52910 LLCCV: _____

404284,404484,404495,404498

Workgroups:

Comments:

Seq.	File ID	Sample	ID	Prep	Dil	Reference	Date/Time
35	T2.072512.151651	L12070546-02	HL-6 HOLZ EFF-071712	50/50	1		07/25/12 15:16
36	T2.072512.152005	L12070546-03	HL-4 MAKEUP 071712	50/50	1		07/25/12 15:20
37	T2.072512.152311	L12070546-04	HL-2 HEADS- 071712	50/50	5		07/25/12 15:23
38	T2.072512.152619	L12070546-05	HL-3 RIVER- 071712	50/50	1		07/25/12 15:26
39	T2.072512.152923	L12070649-01	TC-GW-14	50/50	1		07/25/12 15:29
40	T2.072512.153227	WG404484-01	Post Digestion Spike		1	L12070649-01	07/25/12 15:32
41	T2.072512.153531	WG404484-02	Serial Dilution		5	L12070649-01	07/25/12 15:35
42	T2.072512.153845	WG404494-16	CCV		1		07/25/12 15:38
43	T2.072512.154150	WG404494-17	CCB		1		07/25/12 15:41
44	T2.072512.154506	L12070649-02	TC-GW-14F	50/50	1		07/25/12 15:45
45	T2.072512.154811	L12070649-03	TC-GW-15	50/50	1		07/25/12 15:48
46	T2.072512.155116	L12070649-04	TC-GW-15F	50/50	1		07/25/12 15:51
47	T2.072512.155421	L12070649-06	TC-GW-16	50/50	1		07/25/12 15:54
48	T2.072512.155728	L12070649-07	TC-GW-16F	50/50	1		07/25/12 15:57
49	T2.072512.160034	L12070649-08	TC-GW-17	50/50	1		07/25/12 16:00
50	T2.072512.160338	L12070649-09	TC-GW-17F	50/50	1		07/25/12 16:03
51	T2.072512.160643	L12070649-10	TC-GW-17D	50/50	1		07/25/12 16:06
52	T2.072512.160947	L12070649-11	TC-GW-17DF	50/50	1		07/25/12 16:09
53	T2.072512.161254	L12070658-01	MW-3-1	50/50	1		07/25/12 16:12
54	T2.072512.161605	WG404494-18	CCV		1		07/25/12 16:16
55	T2.072512.161910	WG404494-19	CCB		1		07/25/12 16:19
56	T2.072512.162224	WG404233-01	Reference Sample		1	L12070658-02	07/25/12 16:22
57	T2.072512.162528	WG404233-04	Matrix Spike	50/50	1	L12070658-02	07/25/12 16:25
58	T2.072512.162830	WG404233-05	Matrix Spike Duplica	50/50	1	L12070658-02	07/25/12 16:28
59	T2.072512.163133	L12070658-06	FIELD BLANK 15JULY2012	50/50	1		07/25/12 16:31
60	T2.072512.163442	L12070658-07	MW-3-1-D	50/50	1		07/25/12 16:34
61	T2.072512.163747	L12070658-08	MW-58	50/50	1		07/25/12 16:37
62	T2.072512.164056	WG404494-20	CCV		1		07/25/12 16:40
63	T2.072512.164400	WG404494-21	CCB		1		07/25/12 16:44
64	T2.072512.164717	WG404234-02	Method/Prep Blank	50/50	1		07/25/12 16:47
65	T2.072512.165025	WG404234-03	Laboratory Control S	50/50	1		07/25/12 16:50
66	T2.072512.165330	L12070658-09	WW-03	50/50	1		07/25/12 16:53
67	T2.072512.165637	WG404234-01	Reference Sample		1	L12070658-10	07/25/12 16:56
68	T2.072512.165941	WG404234-04	Matrix Spike	50/50	1	L12070658-10	07/25/12 16:59

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Microbac Laboratories Inc.

Instrument Run Log

Instrument: ICP-THERMO2 Dataset: 072512T2.2R.TXT
 Analyst1: QX Analyst2: N/A
 Method: 6010 SOP: ME600G Rev: 2
 Maintenance Log ID: 42613

Calibration Std: STD52850 ICV Std: STD52851 Post Spike: STD51884
 ICSA: STD52894 ICSAB: STD52895 Int. Std: RG17310
 CCV: STD52910 LLCCV: _____

404284,404484,404495,404498

Workgroups:

Comments:

Seq.	File ID	Sample	ID	Prep	Dil	Reference	Date/Time
69	T2.072512.170244	WG404234-05	Matrix Spike Duplica	50/50	1	L12070658-10	07/25/12 17:02
70	T2.072512.170547	L12070658-11	FIELD BLANK 16JULY2012	50/50	1		07/25/12 17:05
71	T2.072512.170855	L12070658-12	MW3-3	50/50	1		07/25/12 17:08
72	T2.072512.171159	WG404495-01	Post Digestion Spike		1	L12070658-12	07/25/12 17:11
73	T2.072512.171502	WG404495-02	Serial Dilution		5	L12070658-12	07/25/12 17:15
74	T2.072512.171813	WG404494-22	CCV		1		07/25/12 17:18
75	T2.072512.172117	WG404494-23	CCB		1		07/25/12 17:21
76	T2.072512.172433	L12070658-14	35B WW05	50/50	1		07/25/12 17:24
77	T2.072512.172737	L12070658-15	MW1-1	50/50	1		07/25/12 17:27
78	T2.072512.173042	L12070658-16	MW1-2	50/50	1		07/25/12 17:30
79	T2.072512.173346	L12070658-17	MW1-3	50/50	1		07/25/12 17:33
80	T2.072512.173650	L12070658-18	35B WW08	50/50	1		07/25/12 17:36
81	T2.072512.173955	L12070658-19	35B WW09	50/50	1		07/25/12 17:39
82	T2.072512.174300	L12070658-20	MW2-1	50/50	1		07/25/12 17:43
83	T2.072512.174605	L12070658-22	FIELD BLANK 17JULY2012	50/50	1		07/25/12 17:46
84	T2.072512.174913	L12070658-23	MW2-2	50/50	1		07/25/12 17:49
85	T2.072512.175217	L12070658-24	MW2-2D	50/50	1		07/25/12 17:52
86	T2.072512.175527	WG404494-24	CCV		1		07/25/12 17:55
87	T2.072512.175832	WG404494-25	CCB		1		07/25/12 17:58
88	T2.072512.180148	L12070658-25	MW2-3	50/50	1		07/25/12 18:01
89	T2.072512.180453	L12070658-26	35B WW01	50/50	1		07/25/12 18:04
90	T2.072512.180756	L12070695-01	11040-W0001	50/50	1		07/25/12 18:07
91	T2.072512.181105	L12070695-02	11040-W0002	50/50	1		07/25/12 18:11
92	T2.072512.181415	L12070695-03	11040-W0003	50/50	1		07/25/12 18:14
93	T2.072512.181724	L12070698-01	70375-W0001	50/50	1		07/25/12 18:17
94	T2.072512.182041	WG404494-26	CCV		1		07/25/12 18:20
95	T2.072512.182346	WG404494-27	CCB		1		07/25/12 18:23
96	T2.072512.182657	WG404367-02	Method/Prep Blank	50/50	1		07/25/12 18:26
97	T2.072512.183005	WG404367-03	Laboratory Control S	50/50	1		07/25/12 18:30
98	T2.072512.183310	L12070687-01	12314-W0001	50/50	1		07/25/12 18:33
99	T2.072512.183619	L12070687-02	12314-W0002	50/50	1		07/25/12 18:36
100	T2.072512.183927	L12070687-03	13985-W0002	50/50	1		07/25/12 18:39
101	T2.072512.184236	L12070687-04	14647-W0001	50/50	1		07/25/12 18:42
102	T2.072512.184545	L12070687-05	14647-W0002	50/50	1		07/25/12 18:45

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Microbac Laboratories Inc.

Instrument Run Log

Instrument: ICP-THERMO2 Dataset: 072512T2.2R.TXT
 Analyst1: QX Analyst2: N/A
 Method: 6010 SOP: ME600G Rev: 2
 Maintenance Log ID: 42613

Calibration Std: STD52850 ICV Std: STD52851 Post Spike: STD51884
 ICSA: STD52894 ICSAB: STD52895 Int. Std: RG17310
 CCV: STD52910 LLCCV: _____

404284,404484,404495,404498

Workgroups:

Comments:

Seq.	File ID	Sample	ID	Prep	Dil	Reference	Date/Time
103	T2.072512.184853	L12070687-06	14987-W0001	50/50	1		07/25/12 18:48
104	T2.072512.185202	WG404498-01	Post Digestion Spike		1	L12070687-06	07/25/12 18:52
105	T2.072512.185508	WG404498-02	Serial Dilution		5	L12070687-06	07/25/12 18:55
106	T2.072512.185817	WG404494-28	CCV		1		07/25/12 18:58
107	T2.072512.190121	WG404494-29	CCB		1		07/25/12 19:01
108	T2.072512.190434	L12070687-07	14987-W0002	50/50	1		07/25/12 19:04
109	T2.072512.190742	L12070687-08	15015-W0001	50/50	1		07/25/12 19:07
110	T2.072512.191051	L12070687-09	75248-W0001	50/50	1		07/25/12 19:10
111	T2.072512.191400	L12070687-10	75249-W0001	50/50	1		07/25/12 19:14
112	T2.072512.191708	L12070716-01	MPL28-0712-1	50/50	1		07/25/12 19:17
113	T2.072512.192014	L12070716-01	MPL28-0712-1	50/50	10		07/25/12 19:20
114	T2.072512.192319	L12070724-01	IW29-30--2012-0723	50/50	1		07/25/12 19:23
115	T2.072512.192624	L12070724-02	IW29-14--2012-0723	50/50	1		07/25/12 19:26
116	T2.072512.192929	L12070724-03	MW29-15--2012-0723	50/50	1		07/25/12 19:29
117	T2.072512.193233	L12070724-04	MW29-15--2012-0723-DUP	50/50	1		07/25/12 19:32
118	T2.072512.193544	WG404494-30	CCV		1		07/25/12 19:35
119	T2.072512.193847	WG404494-31	CCB		1		07/25/12 19:38
120	T2.072512.194201	WG404367-01	Reference Sample	50/50	1	L12070724-05	07/25/12 19:42
121	T2.072512.194505	WG404367-04	Matrix Spike	50/50	1	L12070724-05	07/25/12 19:45
122	T2.072512.194808	WG404367-05	Matrix Spike Duplica	50/50	1	L12070724-05	07/25/12 19:48
123	T2.072512.195109	L12070724-08	MW29-27--2012-0723	50/50	1		07/25/12 19:51
124	T2.072512.195416	WG404494-32	CCV		1		07/25/12 19:54
125	T2.072512.195720	WG404494-33	CCB		1		07/25/12 19:57

Page: 4 Approved: July 27, 2012

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Instrument Run Log

Instrument: ICP-THERMO2 Dataset: 073012T2.1R.TXT
 Analyst1: QX Analyst2: N/A
 Method: 6010 SOP: ME600G Rev: 2
 Maintenance Log ID: 42673

Calibration Std: STD52748 ICV Std: STD52745 Post Spike: STD52370
 ICSA: STD52749 ICSAB: STD52974 Int. Std: RG17310
 CCV: STD52910 LLCCV: _____

403319,404484,404498,404868,404921

Workgroups:

Comments:

Seq.	File ID	Sample	ID	Prep	Dil	Reference	Date/Time
1	T2.073012.090910	WG404931-01	Calibration Point		1		07/30/12 09:09
2	T2.073012.091250	WG404931-02	Calibration Point		1		07/30/12 09:12
3	T2.073012.091601	WG404931-03	Calibration Point		1		07/30/12 09:16
4	T2.073012.091910	WG404931-04	Calibration Point		1		07/30/12 09:19
5	T2.073012.092216	WG404931-05	Calibration Point		1		07/30/12 09:22
6	T2.073012.092526	WG404931-06	Initial Calibration Verification		1		07/30/12 09:25
7	T2.073012.092830	WG404931-07	Initial Calib Blank		1		07/30/12 09:28
8	T2.073012.093139	WG404931-08	Low Level Initial Calibration V		1		07/30/12 09:31
9	T2.073012.093449	WG404931-09	Interference Check		1		07/30/12 09:34
10	T2.073012.093753	WG404931-10	Interference Check		1		07/30/12 09:37
11	T2.073012.094101	WG404931-11	CCV		1		07/30/12 09:41
12	T2.073012.094405	WG404931-12	CCB		1		07/30/12 09:44
13	T2.073012.095911	L12070001-01	MDL-1		1		07/30/12 09:59
14	T2.073012.100220	L12070003-01	LOQ-1		1		07/30/12 10:02
15	T2.073012.100527	L12070546-01	HL-5 HOLZ INF-071712	50/50	100		07/30/12 10:05
16	T2.073012.100832	L12070546-04	HL-2 HEADS- 071712	50/50	100		07/30/12 10:08
17	T2.073012.101139	L12070649-01	TC-GW-14	50/50	1		07/30/12 10:11
18	T2.073012.101444	WG404484-01	Post Digestion Spike		1	L12070649-01	07/30/12 10:14
19	T2.073012.101753	WG404931-13	CCV		1		07/30/12 10:17
20	T2.073012.102057	WG404931-14	CCB		1		07/30/12 10:20
21	T2.073012.102414	WG404367-02	Method/Prep Blank	50/50	1		07/30/12 10:24
22	T2.073012.102722	WG404367-03	Laboratory Control S	50/50	1		07/30/12 10:27
23	T2.073012.103027	L12070724-01	IW29-30--2012-0723	50/50	1		07/30/12 10:30
24	T2.073012.103330	L12070724-02	IW29-14--2012-0723	50/50	1		07/30/12 10:33
25	T2.073012.103635	L12070724-03	MW29-15--2012-0723	50/50	1		07/30/12 10:36
26	T2.073012.103940	L12070724-04	MW29-15--2012-0723-DUP	50/50	1		07/30/12 10:39
27	T2.073012.104245	L12070716-01	MPL28-0712-1	50/50	1		07/30/12 10:42
28	T2.073012.104551	WG404498-03	Post Digestion Spike		1	L12070716-01	07/30/12 10:45
29	T2.073012.104854	WG404498-04	Serial Dilution		5	L12070716-01	07/30/12 10:48
30	T2.073012.105204	WG404931-15	CCV		1		07/30/12 10:52
31	T2.073012.105508	WG404931-16	CCB		1		07/30/12 10:55
32	T2.073012.105824	WG404367-01	Reference Sample		1	L12070724-05	07/30/12 10:58
33	T2.073012.110128	WG404367-04	Matrix Spike	50/50	1	L12070724-05	07/30/12 11:01
34	T2.073012.110432	WG404367-05	Matrix Spike Duplica	50/50	1	L12070724-05	07/30/12 11:04

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Instrument Run Log

Instrument: ICP-THERMO2 Dataset: 073012T2.1R.TXT
 Analyst1: QX Analyst2: N/A
 Method: 6010 SOP: ME600G Rev: 2
 Maintenance Log ID: 42673

Calibration Std: STD52748 ICV Std: STD52745 Post Spike: STD52370
 ICSA: STD52749 ICSAB: STD52974 Int. Std: RGT17310
 CCV: STD52910 LLCCV: _____

403319,404484,404498,404868,404921

Workgroups:

Comments:

Seq.	File ID	Sample	ID	Prep	Dil	Reference	Date/Time
35	T2.073012.110735	L12070724-08	MW29-27--2012-0723	50/50	1		07/30/12 11:07
36	T2.073012.111046	WG404931-17	CCV		1		07/30/12 11:10
37	T2.073012.111351	WG404931-18	CCB		1		07/30/12 11:13
38	T2.073012.111703	WG404931-19	Low Level Continuing Calibra		1		07/30/12 11:17
39	T2.073012.112124	WG404660-03	Method/Prep Blank	50/50	1		07/30/12 11:21
40	T2.073012.112435	WG404660-04	Laboratory Control S	50/50	1		07/30/12 11:24
41	T2.073012.112748	WG404660-01	Reference Sample		1	L12070747-01	07/30/12 11:27
42	T2.073012.113114	WG404660-05	Duplicate	50/50	1	L12070747-01	07/30/12 11:31
43	T2.073012.113440	WG404660-06	Matrix Spike	50/50	1	L12070747-01	07/30/12 11:34
44	T2.073012.113801	L12070812-01	1207-336-1	50/50	1		07/30/12 11:38
45	T2.073012.114106	L12070813-01	1207-335-1	50/50	1		07/30/12 11:41
46	T2.073012.114412	WG404868-03	Post Digestion Spike		1	L12070813-01	07/30/12 11:44
47	T2.073012.114715	WG404868-04	Serial Dilution		5	L12070813-01	07/30/12 11:47
48	T2.073012.115028	WG404931-20	CCV		1		07/30/12 11:50
49	T2.073012.115333	WG404931-21	CCB		1		07/30/12 11:53
50	T2.073012.115646	WG404866-02	Method/Prep Blank	50/50	1		07/30/12 11:56
51	T2.073012.115957	WG404866-03	Laboratory Control S	50/50	1		07/30/12 11:59
52	T2.073012.120303	L12070792-06	DIW-20--2012-0725	50/50	1		07/30/12 12:03
53	T2.073012.120611	L12070792-07	EW-01--2012-0725	50/50	1		07/30/12 12:06
54	T2.073012.120916	L12070792-08	MW026--2012-0725	50/50	1		07/30/12 12:09
55	T2.073012.121221	L12070792-09	MW88-29--2012-0725	50/50	1		07/30/12 12:12
56	T2.073012.121525	L12070792-10	MW88-31--2012-0725	50/50	1		07/30/12 12:15
57	T2.073012.121831	L12070792-11	MW88-32--2012-0725	50/50	1		07/30/12 12:18
58	T2.073012.122137	WG404921-01	Post Digestion Spike		1	L12070792-11	07/30/12 12:21
59	T2.073012.122446	L12070792-11	MW88-32--2012-0725		5		07/30/12 12:24
60	T2.073012.122801	WG404931-22	CCV		1		07/30/12 12:28
61	T2.073012.123104	WG404931-23	CCB		1		07/30/12 12:31
62	T2.073012.123419	L12070792-12	MW88-41--2012-0725	50/50	1		07/30/12 12:34
63	T2.073012.123724	L12070792-13	MW88-42--2012-0725	50/50	1		07/30/12 12:37
64	T2.073012.124029	L12070792-14	SIW-05--2012-0725	50/50	1		07/30/12 12:40
65	T2.073012.124334	L12070792-15	SIW-15--2012-0725	50/50	1		07/30/12 12:43
66	T2.073012.124638	L12070792-16	Z4-17--2012-0725	50/50	1		07/30/12 12:46
67	T2.073012.124942	L12070792-17	Z4-18-2012-0725	50/50	1		07/30/12 12:49
68	T2.073012.125247	WG404866-01	Reference Sample		1	L12070836-02	07/30/12 12:52

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Microbac Laboratories Inc.

Instrument Run Log

Instrument: ICP-THERMO2 Dataset: 073012T2.1R.TXT
 Analyst1: QX Analyst2: N/A
 Method: 6010 SOP: ME600G Rev: 2
 Maintenance Log ID: 42673

Calibration Std: STD52748 ICV Std: STD52745 Post Spike: STD52370
 ICSA: STD52749 ICSAB: STD52974 Int. Std: RG17310
 CCV: STD52910 LLCCV: _____

403319,404484,404498,404868,404921

Workgroups:

Comments:

Seq.	File ID	Sample	ID	Prep	Dil	Reference	Date/Time
69	T2.073012.125552	WG404866-04	Matrix Spike	50/50	1	L12070836-02	07/30/12 12:55
70	T2.073012.125855	WG404866-05	Matrix Spike Duplica	50/50	1	L12070836-02	07/30/12 12:58
71	T2.073012.130158	L12070836-04	BEF-BC1-T1-W214-F	50/50	1		07/30/12 13:01
72	T2.073012.130759	WG404931-24	CCV		1		07/30/12 13:07
73	T2.073012.131106	WG404931-25	CCB		1		07/30/12 13:11
74	T2.073012.131421	L12070836-06	BEF-BC2-T1-W214-F	50/50	1		07/30/12 13:14
75	T2.073012.131727	L12070836-08	BEF-BC3-T1-W214-F	50/50	1		07/30/12 13:17
76	T2.073012.132032	L12070836-10	BEF-SMF-T1-W214-F	50/50	1		07/30/12 13:20
77	T2.073012.132337	L12070836-12	BEF-CBE-T1-W214-F	50/50	1		07/30/12 13:23
78	T2.073012.132929	WG404931-26	CCV		1		07/30/12 13:29
79	T2.073012.133232	WG404931-27	CCB		1		07/30/12 13:32
80	T2.073012.133541	WG404931-28	LLCCV		1		07/30/12 13:35
81	T2.073012.133848	WG404865-03	Method/Prep Blank	50/50	1		07/30/12 13:38
82	T2.073012.134155	WG404865-04	Laboratory Control S	50/50	1		07/30/12 13:41
83	T2.073012.135449	WG404931-29	CCV		1		07/30/12 13:54
84	T2.073012.135755	WG404931-30	CCB		1		07/30/12 13:57
85	T2.073012.140108	WG404931-31	LLCCV		1		07/30/12 14:01
86	T2.073012.140728	WG404931-32	Low Level Continuing Calibra		1		07/30/12 14:07
87	T2.073012.141436	WG404865-05	Filter Blank		1		07/30/12 14:14
88	T2.073012.141747	WG404865-01	Reference Sample	50/50	1	L12070838-01	07/30/12 14:17
89	T2.073012.142051	WG404865-06	Duplicate	50/50	1	L12070838-01	07/30/12 14:20
90	T2.073012.142357	WG404865-07	Matrix Spike	50/50	1	L12070838-01	07/30/12 14:23
91	T2.073012.142702	L12070849-01	1207-364-1	50/50	1		07/30/12 14:27
92	T2.073012.143014	WG404939-01	Post Digestion Spike		1	L12070849-01	07/30/12 14:30
93	T2.073012.143319	WG404939-02	Serial Dilution		5	L12070849-01	07/30/12 14:33
94	T2.073012.143632	WG404931-33	CCV		1		07/30/12 14:36
95	T2.073012.143937	WG404931-34	CCB		1		07/30/12 14:39
96	T2.073012.145120	WG404867-02	Method/Prep Blank		1		07/30/12 14:51
97	T2.073012.145431	WG404867-03	Laboratory Control S		1		07/30/12 14:54
98	T2.073012.145736	L12070834-01	DIW-15--2012-0726		1		07/30/12 14:57
99	T2.073012.150039	L12070834-02	DIW-16--2012-0726		1		07/30/12 15:00
100	T2.073012.150343	L12070834-03	DIW-21--2012-0726		1		07/30/12 15:03
101	T2.073012.150647	L12070834-04	MW023--2012-0726		1		07/30/12 15:06
102	T2.073012.150955	WG404867-03	Laboratory Control S		1		07/30/12 15:09

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Microbac Laboratories Inc.

Instrument Run Log

Instrument: ICP-THERMO2 Dataset: 073012T2.1R.TXT
 Analyst1: QX Analyst2: N/A
 Method: 6010 SOP: ME600G Rev: 2
 Maintenance Log ID: 42673

Calibration Std: STD52748 ICV Std: STD52745 Post Spike: STD52370
 ICSA: STD52749 ICSAB: STD52974 Int. Std: RG17310
 CCV: STD52910 LLCCV: _____

403319,404484,404498,404868,404921

Workgroups:

Comments:

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103	T2.073012.151304	L12070834-06	MW88-02--2012-0726		1		07/30/12 15:13
104	T2.073012.151607	WG404958-01	Post Digestion Spike		1	L12070834-01	07/30/12 15:16
105	T2.073012.151910	WG404958-02	Serial Dilution		5	L12070834-01	07/30/12 15:19
106	T2.073012.152225	WG404931-35	CCV		1		07/30/12 15:22
107	T2.073012.152530	WG404931-36	CCB		1		07/30/12 15:25
108	T2.073012.152851	L12070834-05	MW29-36--2012-0726		1		07/30/12 15:28
109	T2.073012.153202	L12070834-07	MW88-03--2012-0726		1		07/30/12 15:32
110	T2.073012.153528	L12070834-08	MW88-05--2012-0726		1		07/30/12 15:35
111	T2.073012.153834	L12070834-09	MW89-02--2012-0726		1		07/30/12 15:38
112	T2.073012.154139	L12070834-10	MW89-02--2012-0726-DUP		1		07/30/12 15:41
113	T2.073012.154445	L12070834-11	MW89-05--2012-0726		1		07/30/12 15:44
114	T2.073012.154751	L12070834-12	MW89-05--2012-0726-DUP		1		07/30/12 15:47
115	T2.073012.155057	L12070834-13	MW89-06--2012-0726		1		07/30/12 15:50
116	T2.073012.155401	L12070834-14	MW89-06--2012-0726-DUP		1		07/30/12 15:54
117	T2.073012.155706	L12070834-15	MW89-07--2012-0726		1		07/30/12 15:57
118	T2.073012.160022	WG404931-37	CCV		1		07/30/12 16:00
119	T2.073012.160326	WG404931-38	CCB		1		07/30/12 16:03
120	T2.073012.160643	L12070853-01	WARREN GAS 37.6		1		07/30/12 16:06
121	T2.073012.160948	L12070853-02	WARREN GAS 38.0		1		07/30/12 16:09
122	T2.073012.161254	L12070853-03	WARREN GAS 38.2		1	WG404867-01	07/30/12 16:12
123	T2.073012.161600	L1207085303-MS	L1207085303MS		1		07/30/12 16:16
124	T2.073012.161903	L1207085303M-SD	L1207085303MSD		1		07/30/12 16:19
125	T2.073012.162208	WG404921-02	Serial Dilution		25	L12070792-11	07/30/12 16:22
126	T2.073012.162515	WG404921-02	Serial Dilution		125	L12070792-11	07/30/12 16:25
127	T2.073012.162826	WG404931-39	CCV		1		07/30/12 16:28
128	T2.073012.163128	WG404931-40	CCB		1		07/30/12 16:31
129	T2.073012.163443	WG404931-41	LLCCV		1		07/30/12 16:34

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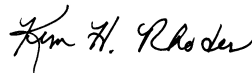
Microbac Laboratories Inc.

Data Checklist

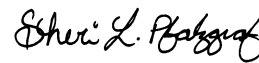
Date: 25-JUL-2012
 Analyst: KHR
 Analyst: NA
 Method: 6010
 Instrument: PE-ICP2
 Curve Workgroup: 404487
 Runlog ID: 48045
 Analytical Workgroups: 404393, 404471, 404284, 404241, 404452, 404492

Calibration/Linearity	X
ICV/CCV	X
ICV RSD <= 3% (EPA 200.7 only)	X
ICB/CCB	X
ICSA/ICSAB	X
CRI	
Blank/LCS	X
MS/MSD	X
Post Spike/Serial Dilution	X
Upload Results	X
Data Qualifiers	
Generate PDF Instrument Data	X
Sign/Annotate PDF Data	X
Upload Curve Data	X
Workgroup Forms	
Case Narrative	X
Client Forms	X
Level X	
Level 3	636, 658
Level 4	594, 605, 522, 609, 666, 712, 713, 673
Check for compliance with method and project specific requirements	X
Check the completeness of reported information	X
Check the information for the report narrative	X
Primary Reviewer	KHR
Secondary Reviewer	SLP
Comments	

Primary Reviewer:
26-JUL-2012



Secondary Reviewer:
26-JUL-2012




Microbac Laboratories Inc.

Data Checklist

Date: 26-JUL-2012
 Analyst: KHR
 Analyst: NA
 Method: 6010
 Instrument: PE-ICP2
 Curve Workgroup: 404693
 Runlog ID: 48078
 Analytical Workgroups: 404481, 403319, 404471, 404393, 404601, 404603

Calibration/Linearity	X
ICV/CCV	X
ICV RSD <= 3% (EPA 200.7 only)	
ICB/CCB	X
ICSA/ICSAB	X
CRI	X
Blank/LCS	X
MS/MSD	X
Post Spike/Serial Dilution	X
Upload Results	X
Data Qualifiers	
Generate PDF Instrument Data	X
Sign/Annotate PDF Data	X
Upload Curve Data	X
Workgroup Forms	X
Case Narrative	X
Client Forms	X
Level X	
Level 3	641, 658, 753, 750
Level 4	643, 666, 673, 725
Check for compliance with method and project specific requirements	X
Check the completeness of reported information	X
Check the information for the report narrative	X
Primary Reviewer	KHR
Secondary Reviewer	MMB
Comments	

Primary Reviewer:
27-JUL-2012

Secondary Reviewer:
30-JUL-2012

Kim H. Rhodes

Maren Beery



Microbac Laboratories Inc.

Data Checklist

Date: 25-JUL-2012
 Analyst: QX
 Analyst: NA
 Method: 6010
 Instrument: ICP-THERMO2
 Curve Workgroup: WG404494
 Runlog ID: 48046
 Analytical Workgroups: 404284,404484,404495,404498

Calibration/Linearity	X
ICV/CCV	X
ICV RSD <= 3% (EPA 200.7 only)	
ICB/CCB	X
ICSA/ICSAB	X
CRI	
Blank/LCS	X
MS/MSD	X
Post Spike/Serial Dilution	X
Upload Results	X
Data Qualifiers	
Generate PDF Instrument Data	X
Sign/Annotate PDF Data	X
Upload Curve Data	X
Workgroup Forms	X
Case Narrative	X
Client Forms	
Level X	
Level 3	658,724
Level 4	649,695,698,687,716
Check for compliance with method and project specific requirements	X
Check the completeness of reported information	X
Check the information for the report narrative	X
Primary Reviewer	QX
Secondary Reviewer	MMB
Comments	

Primary Reviewer:



Secondary Reviewer:
27-JUL-2012

Maren Berry




Microbac Laboratories Inc.

Data Checklist

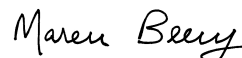
Date: 30-JUL-2012
 Analyst: QX
 Analyst: NA
 Method: 6010
 Instrument: ICP-THERMO2
 Curve Workgroup: WG404931
 Runlog ID: 48135
 Analytical Workgroups: 403319,404484,404498,404868,404921

Calibration/Linearity	X
ICV/CCV	X
ICV RSD <= 3% (EPA 200.7 only)	
ICB/CCB	X
ICSA/ICSAB	X
CRI	
Blank/LCS	X
MS/MSD	X
Post Spike/Serial Dilution	X
Upload Results	X
Data Qualifiers	
Generate PDF Instrument Data	X
Sign/Annotate PDF Data	X
Upload Curve Data	X
Workgroup Forms	X
Case Narrative	X
Client Forms	
Level X	
Level 3	
Level 4	649,716,836,
Check for compliance with method and project specific requirements	X
Check the completeness of reported information	X
Check the information for the report narrative	X
Primary Reviewer	QX
Secondary Reviewer	MMB
Comments	

Primary Reviewer:



Secondary Reviewer:
31-JUL-2012




Analytical Method:6010B
Login Number:L12070658

AAB#:WG404492

Client ID	ID	Date Collected	TCLP Date	Time Held	Max Hold	Q	Extract Date	Time Held	Max Hold	Q	Run Date	Time Held	Max Hold	Q
35B WW04	27	07/17/12					07/24/2012	6.7	180		07/25/12	8.2	180	
35B SW-1	28	07/17/12					07/24/2012	6.7	180		07/25/12	8.2	180	
35B SW-2	29	07/17/12					07/24/2012	6.7	180		07/25/12	8.2	180	
35B WW-11	30	07/17/12					07/24/2012	6.6	180		07/25/12	8.2	180	
35B WW-11	30	07/17/12					07/24/2012	6.6	180		07/26/12	9.1	180	
FIELD BLANK 18JULY2012	32	07/18/12					07/24/2012	5.9	180		07/25/12	7.5	180	
MW4-1	33	07/18/12					07/24/2012	5.9	180		07/25/12	7.5	180	
MW4-2	34	07/18/12					07/24/2012	5.8	180		07/25/12	7.4	180	
MW4-3	35	07/18/12					07/24/2012	5.7	180		07/25/12	7.3	180	
35B WW14	36	07/18/12					07/24/2012	5.7	180		07/25/12	7.3	180	
35B WW07	37	07/18/12					07/24/2012	5.6	180		07/25/12	7.2	180	

* = SEE PROJECT QAPP REQUIREMENTS



Analytical Method:6010B
Login Number:L12070658

AAB#:WG404484

Client ID	ID	Date Collected	TCLP Date	Time Held	Max Hold	Q	Extract Date	Time Held	Max Hold	Q	Run Date	Time Held	Max Hold	Q
MW-3-1	01	07/15/12					07/24/2012	8.8	180		07/25/12	10.2	180	
MW-3-2	02	07/15/12					07/24/2012	8.8	180		07/25/12	10.2	180	
MW-3-2MS	03	07/15/12					07/24/2012	8.8	180		07/25/12	10.2	180	
MW-3-2MSD	04	07/15/12					07/24/2012	8.8	180		07/25/12	10.2	180	
FIELD BLANK 15JULY2012	06	07/15/12					07/24/2012	8.8	180		07/25/12	10.2	180	
MW-3-1-D	07	07/15/12					07/24/2012	8.8	180		07/25/12	10.3	180	
MW-58	08	07/15/12					07/24/2012	8.7	180		07/25/12	10.1	180	

* = SEE PROJECT QAPP REQUIREMENTS



Analytical Method:6010B

AAB#:WG404495

Login Number:L12070658

Client ID	ID	Date Collected	TCLP Date	Time Held	Max Hold	Q	Extract Date	Time Held	Max Hold	Q	Run Date	Time Held	Max Hold	Q
WW-03	09	07/15/12					07/24/2012	8.6	180		07/25/12	10.1	180	
35B WW06	10	07/16/12					07/24/2012	7.9	180		07/25/12	9.3	180	
FIELD BLANK 16JULY2012	11	07/16/12					07/24/2012	7.9	180		07/25/12	9.3	180	
MW3-3	12	07/15/12					07/24/2012	8.7	180		07/25/12	10.2	180	
35B WW05	14	07/16/12					07/24/2012	7.8	180		07/25/12	9.3	180	
MW1-1	15	07/16/12					07/24/2012	7.8	180		07/25/12	9.2	180	
MW1-2	16	07/16/12					07/24/2012	7.7	180		07/25/12	9.2	180	
MW1-3	17	07/16/12					07/24/2012	7.7	180		07/25/12	9.1	180	
35B WW08	18	07/16/12					07/24/2012	7.6	180		07/25/12	9.1	180	
35B WW09	19	07/16/12					07/24/2012	7.6	180		07/25/12	9.1	180	
MW2-1	20	07/17/12					07/24/2012	6.9	180		07/25/12	8.4	180	
FIELD BLANK 17JULY2012	22	07/17/12					07/24/2012	6.9	180		07/25/12	8.4	180	
MW2-2	23	07/17/12					07/24/2012	6.9	180		07/25/12	8.3	180	
MW2-2D	24	07/17/12					07/24/2012	6.9	180		07/25/12	8.3	180	
MW2-3	25	07/17/12					07/24/2012	6.8	180		07/25/12	8.3	180	
35B WW01	26	07/17/12					07/24/2012	6.7	180		07/25/12	8.2	180	

* = SEE PROJECT QAPP REQUIREMENTS



METHOD BLANK SUMMARY

Login Number: L12070658
 Blank File ID: P2.072512.190355
 Prep Date: 07/24/12 06:30
 Analyzed Date: 07/25/12 19:03
 Analyst: KHR

Work Group: WG404492
 Blank Sample ID: WG404235-02
 Instrument ID: PE-ICP2
 Method: 6010B

This Method Blank Applies To The Following Samples:

Client ID	Lab Sample ID	Lab File ID	Time Analyzed	TAG
LCS	WG404235-03	P2.072512.191050	07/25/12 19:10	01
35B WW04	L12070658-27	P2.072512.191650	07/25/12 19:16	01
35B SW-1	L12070658-28	P2.072512.192250	07/25/12 19:22	01
35B SW-2	L12070658-29	P2.072512.192850	07/25/12 19:28	01
35B WW-11	L12070658-30	P2.072512.193448	07/25/12 19:34	01
FIELD BLANK 18JULY2012	L12070658-32	P2.072512.194051	07/25/12 19:40	01
MW4-1	L12070658-33	P2.072512.194746	07/25/12 19:47	01
MW4-2	L12070658-34	P2.072512.201842	07/25/12 20:18	01
MW4-3	L12070658-35	P2.072512.202442	07/25/12 20:24	01
35B WW14	L12070658-36	P2.072512.203042	07/25/12 20:30	01
35B WW07	L12070658-37	P2.072512.204843	07/25/12 20:48	01
35B WW-11	L12070658-30	P2.072612.180331	07/26/12 18:03	DL01

Report Name: BLANK_SUMMARY
 PDF File ID: 2518253
 Report generated 07/27/2012 10:21



METHOD BLANK SUMMARY

Login Number: L12070658 Work Group: WG404484
 Blank File ID: T2.072512.150725 Blank Sample ID: WG404233-02
 Prep Date: 07/24/12 06:22 Instrument ID: ICP-THERMO2
 Analyzed Date: 07/25/12 15:07 Method: 6010B
 Analyst: KHR

This Method Blank Applies To The Following Samples:

Client ID	Lab Sample ID	Lab File ID	Time Analyzed	TAG
LCS	WG404233-03	T2.072512.151033	07/25/12 15:10	01
MW-3-1	L12070658-01	T2.072512.161254	07/25/12 16:12	01
MW-3-2	L12070658-02	T2.072512.162224	07/25/12 16:22	01
MW-3-2MS	L12070658-03	T2.072512.162528	07/25/12 16:25	01
MW-3-2MSD	L12070658-04	T2.072512.162830	07/25/12 16:28	01
FIELD BLANK 15JULY2012	L12070658-06	T2.072512.163133	07/25/12 16:31	01
MW-3-1-D	L12070658-07	T2.072512.163442	07/25/12 16:34	01
MW-58	L12070658-08	T2.072512.163747	07/25/12 16:37	01

Report Name: BLANK_SUMMARY
 PDF File ID: 2518658
 Report generated 07/26/2012 12:29



METHOD BLANK SUMMARY

Login Number: L12070658 Work Group: WG404495
 Blank File ID: T2.072512.164717 Blank Sample ID: WG404234-02
 Prep Date: 07/24/12 06:26 Instrument ID: ICP-THERMO2
 Analyzed Date: 07/25/12 16:47 Method: 6010B
 Analyst: KHR

This Method Blank Applies To The Following Samples:

Client ID	Lab Sample ID	Lab File ID	Time Analyzed	TAG
LCS	WG404234-03	T2.072512.165025	07/25/12 16:50	01
WW-03	L12070658-09	T2.072512.165330	07/25/12 16:53	01
35B WW06	L12070658-10	T2.072512.165637	07/25/12 16:56	01
FIELD BLANK 16JULY2012	L12070658-11	T2.072512.170547	07/25/12 17:05	01
MW3-3	L12070658-12	T2.072512.170855	07/25/12 17:08	01
35B WW05	L12070658-14	T2.072512.172433	07/25/12 17:24	01
MW1-1	L12070658-15	T2.072512.172737	07/25/12 17:27	01
MW1-2	L12070658-16	T2.072512.173042	07/25/12 17:30	01
MW1-3	L12070658-17	T2.072512.173346	07/25/12 17:33	01
35B WW08	L12070658-18	T2.072512.173650	07/25/12 17:36	01
35B WW09	L12070658-19	T2.072512.173955	07/25/12 17:39	01
MW2-1	L12070658-20	T2.072512.174300	07/25/12 17:43	01
FIELD BLANK 17JULY2012	L12070658-22	T2.072512.174605	07/25/12 17:46	01
MW2-2	L12070658-23	T2.072512.174913	07/25/12 17:49	01
MW2-2D	L12070658-24	T2.072512.175217	07/25/12 17:52	01
MW2-3	L12070658-25	T2.072512.180148	07/25/12 18:01	01
35B WW01	L12070658-26	T2.072512.180453	07/25/12 18:04	01

Report Name: BLANK_SUMMARY
 PDF File ID: 2518658
 Report generated 07/26/2012 12:29



Login Number: L12070658 Prep Date: 07/24/12 06:30 Sample ID: WG404235-02
 Instrument ID: PE-ICP2 Run Date: 07/25/12 19:03 Prep Method: 3005A
 File ID: P2.072512.190355 Analyst: KHR Method: 6010B
 Workgroup (AAB#): WG404492 Matrix: Water Units: mg/L
 Contract #: _____ Cal ID: PE-ICP-25-JUL-12

Analytes	MDL	RL	Concentration	Dilution	Qualifier
Aluminum, Total	0.0500	0.100	0.0500	1	U
Calcium, Total	0.100	0.200	0.100	1	U
Iron, Total	0.0500	0.100	0.0500	1	U
Magnesium, Total	0.250	0.500	0.250	1	U
Potassium, Total	0.500	1.00	0.500	1	U
Sodium, Total	0.250	0.500	0.250	1	U
Strontium, Total	0.00500	0.0100	0.00500	1	U

MDL Method Detection Limit
 RL Reporting/Practical Quantitation Limit
 ND Analyte Not detected at or above reporting limit
 * |Analyte concentration| > RL

Report Name: BLANK
 PDF ID: 2518254
 26-JUL-2012 10:45



Login Number: L12070658 Prep Date: 07/24/12 06:22 Sample ID: WG404233-02
 Instrument ID: ICP-THERMO2 Run Date: 07/25/12 15:07 Prep Method: 3005A
 File ID: T2.072512.150725 Analyst: KHR Method: 6010B
 Workgroup (AAB#): WG404484 Matrix: Water Units: mg/L
 Contract #: _____ Cal ID: ICP-TH-25-JUL-12

Analytes	MDL	RL	Concentration	Dilution	Qualifier
Aluminum, Total	0.0500	0.100	0.0500	1	U
Calcium, Total	0.100	0.200	0.100	1	U
Iron, Total	0.0500	0.100	0.0500	1	U
Magnesium, Total	0.250	0.500	0.250	1	U
Potassium, Total	0.500	1.00	0.500	1	U
Sodium, Total	0.250	0.500	0.250	1	U
Strontium, Total	0.00500	0.0100	0.00500	1	U

MDL Method Detection Limit
 RL Reporting/Practical Quantitation Limit
 ND Analyte Not detected at or above reporting limit
 * |Analyte concentration| > RL

Report Name: BLANK
 PDF ID: 2518659
 26-JUL-2012 12:29



Login Number: L12070658 Prep Date: 07/24/12 06:26 Sample ID: WG404234-02
 Instrument ID: ICP-THERMO2 Run Date: 07/25/12 16:47 Prep Method: 3005A
 File ID: T2.072512.164717 Analyst: KHR Method: 6010B
 Workgroup (AAB#): WG404495 Matrix: Water Units: mg/L
 Contract #: _____ Cal ID: ICP-TH-25-JUL-12

Analytes	MDL	RL	Concentration	Dilution	Qualifier
Aluminum, Total	0.0500	0.100	0.0500	1	U
Calcium, Total	0.100	0.200	0.100	1	U
Iron, Total	0.0500	0.100	0.0500	1	U
Magnesium, Total	0.250	0.500	0.250	1	U
Potassium, Total	0.500	1.00	0.500	1	U
Sodium, Total	0.250	0.500	0.250	1	U
Strontium, Total	0.00500	0.0100	0.00500	1	U

MDL Method Detection Limit
 RL Reporting/Practical Quantitation Limit
 ND Analyte Not detected at or above reporting limit
 * |Analyte concentration| > RL

Report Name: BLANK
 PDF ID: 2518659
 26-JUL-2012 12:29



Login Number: L12070658 Run Date: 07/25/2012 Sample ID: WG404235-03
 Instrument ID: PE-ICP2 Run Time: 19:10 Prep Method: 3005A
 File ID: P2.072512.191050 Analyst: KHR Method: 6010B
 Workgroup (AAB#): WG404492 Matrix: Water Units: mg/L
 QC Key: STD Lot#: STD52371 Cal ID: PE-ICP-25-JUL-12

Analytes	Expected	Found	% Rec	LCS Limits	Q
Aluminum, Total	5.00	5.19	104	85 - 115	
Calcium, Total	5.00	5.12	102	85 - 115	
Iron, Total	2.00	2.03	101	85 - 115	
Magnesium, Total	5.00	5.20	104	85 - 115	
Potassium, Total	25.0	26.2	105	85 - 115	
Sodium, Total	25.0	25.8	103	85 - 115	
Strontium, Total	0.500	0.520	104	85 - 115	

LCS - Modified 03/06/2008
 PDF File ID: 2518255
 Report generated: 07/26/2012 10:45



Login Number: L12070658 Run Date: 07/25/2012 Sample ID: WG404233-03
 Instrument ID: ICP-THERMO2 Run Time: 15:10 Prep Method: 3005A
 File ID: T2.072512.151033 Analyst: KHR Method: 6010B
 Workgroup (AAB#): WG404484 Matrix: Water Units: mg/L
 QC Key: STD Lot#: STD52371 Cal ID: ICP-TH-25-JUL-12

Analytes	Expected	Found	% Rec	LCS Limits	Q
Aluminum, Total	5.00	4.70	94.0	85 - 115	
Calcium, Total	5.00	4.79	95.7	85 - 115	
Iron, Total	2.00	1.89	94.6	85 - 115	
Magnesium, Total	5.00	4.94	98.7	85 - 115	
Potassium, Total	25.0	24.3	97.3	85 - 115	
Sodium, Total	25.0	25.1	100	85 - 115	
Strontium, Total	0.500	0.479	95.9	85 - 115	

LCS - Modified 03/06/2008
 PDF File ID: 2518660
 Report generated: 07/26/2012 12:29



Login Number: L12070658 Run Date: 07/25/2012 Sample ID: WG404234-03
 Instrument ID: ICP-THERMO2 Run Time: 16:50 Prep Method: 3005A
 File ID: T2.072512.165025 Analyst: KHR Method: 6010B
 Workgroup (AAB#): WG404495 Matrix: Water Units: mg/L
 QC Key: STD Lot#: STD52371 Cal ID: ICP-TH-25-JUL-12

Analytes	Expected	Found	% Rec	LCS Limits	Q
Aluminum, Total	5.00	4.89	97.7	85 - 115	
Calcium, Total	5.00	4.91	98.3	85 - 115	
Iron, Total	2.00	1.98	98.8	85 - 115	
Magnesium, Total	5.00	5.16	103	85 - 115	
Potassium, Total	25.0	25.2	101	85 - 115	
Sodium, Total	25.0	26.1	105	85 - 115	
Strontium, Total	0.500	0.501	100	85 - 115	

LCS - Modified 03/06/2008
 PDF File ID: 2518660
 Report generated: 07/26/2012 12:29



Loginnum: L12070658 Cal ID: PE-ICP2- Worknum: WG404492
 Instrument ID: PE-ICP2 Contract #: _____ Method: 6010B
 Parent ID: WG404235-01 File ID: P2.072512.203042 Dil: 1 Matrix: WATER
 Sample ID: WG404235-04 MS File ID: P2.072512.203642 Dil: 1 Units: mg/L
 Sample ID: WG404235-05 MSD File ID: P2.072512.204241 Dil: 1

Analyte	Parent	MS Spiked	MS Found	MS %Rec	MSD Spiked	MSD Found	MSD %Rec	%RPD	%Rec Limits	RPD Limit	Q
Aluminum, Total	ND	5.00	5.03	101	5.00	5.02	100	0.187	80 - 120	20	
Calcium, Total	16.1	5.00	21.6	112	5.00	21.6	111	0.198	80 - 120	20	
Iron, Total	0.166	2.00	2.17	100	2.00	2.15	99.1	1.18	80 - 120	20	
Magnesium, Total	7.97	5.00	13.2	105	5.00	13.0	100	1.76	80 - 120	20	
Potassium, Total	1.19	25.0	26.3	100	25.0	26.3	100	0.0166	80 - 120	20	
Sodium, Total	96.9	25.0	125	112	25.0	124	109	0.683	80 - 120	20	
Strontium, Total	0.548	0.500	1.08	106	0.500	1.07	104	0.488	80 - 120	20	

* FAILS %REC LIMIT

FAILS RPD LIMIT

NOTE: This is an internal quality control sample.

MS/MSD REPORT

Loginum: L12070658 Cal ID: ICP-THERMO2- 25-JUL-12 Worknum: WG404484
 Instrument ID: ICP-THERMO2 Contract #: _____ Prep Method: 3005A
 Parent ID: L12070658-02 File ID: T2.072512.162224 Dil: 1 Method: 6010B
 Sample ID: L12070658-03 MS File ID: T2.072512.162528 Dil: 1 Matrix: Water
 Sample ID: L12070658-04 MSD File ID: T2.072512.162830 Dil: 1 Units: mg/L

Analyte	Parent	MS Spiked	MS Found	MS %Rec	MSD Spiked	MSD Found	MSD %Rec	%RPD	%Rec Limits	RPD Limit	Q
Aluminum, Total	1.28	5.00	5.78	89.9	5.00	5.42	82.7	6.47	80 - 120	20	
Calcium, Total	14.4	5.00	18.6	84.7	5.00	17.8	67.6	4.69	80 - 120	20	*
Iron, Total	3.58	2.00	3.22	-18.2	2.00	2.88	-35	11.0	80 - 120	20	*
Magnesium, Total	7.25	5.00	12.0	95.3	5.00	11.6	86.7	3.65	80 - 120	20	
Potassium, Total	6.00	25.0	30.5	97.9	25.0	29.5	93.8	3.41	80 - 120	20	
Sodium, Total	46.0	25.0	70.3	97.3	25.0	68.2	88.9	3.04	80 - 120	20	
Strontium, Total	0.483	0.500	0.950	93.4	0.500	0.922	87.9	2.94	80 - 120	20	

* FAILS %REC LIMIT

FAILS RPD LIMIT

Loginnum: L12070658 Cal ID: ICP-THERMO2 - Worknum: WG404495
 Instrument ID: ICP-THERMO2 Contract #: _____ Method: 6010B
 Parent ID: WG404234-01 File ID: T2.072512.165637 Dil: 1 Matrix: WATER
 Sample ID: WG404234-04 MS File ID: T2.072512.165941 Dil: 1 Units: mg/L
 Sample ID: WG404234-05 MSD File ID: T2.072512.170244 Dil: 1

Analyte	Parent	MS Spiked	MS Found	MS %Rec	MSD Spiked	MSD Found	MSD %Rec	%RPD	%Rec Limits	RPD Limit	Q
Aluminum, Total	0.112	5.00	5.15	101	5.00	5.07	99.1	1.66	80 - 120	20	
Calcium, Total	73.2	5.00	76.0	56.4	5.00	76.0	56.0	0.0210	80 - 120	20	*
Iron, Total	1.97	2.00	3.96	99.8	2.00	3.94	98.8	0.496	80 - 120	20	
Magnesium, Total	25.5	5.00	29.9	87.6	5.00	29.8	86.7	0.151	80 - 120	20	
Potassium, Total	3.50	25.0	29.5	104	25.0	29.0	102	1.87	80 - 120	20	
Sodium, Total	186	25.0	206	79.2	25.0	205	77.5	0.209	80 - 120	20	*
Strontium, Total	2.57	0.500	3.00	86.3	0.500	3.00	86.1	0.0333	80 - 120	20	

* FAILS %REC LIMIT

FAILS RPD LIMIT

NOTE: This is an internal quality control sample.

Microbac Laboratories Inc.
Serial Dilution Report

Login: L12070658 **Worknum:** WG404492
Instrument: PE-ICP2 **Method:** 6010B
Serial Dil: WG404492-02 **File ID:** P2.072512.195948 **Dil:** 5 **Units:** mg/L
Sample: L12070658-33 **File ID:** P2.072512.194746 **Dil:** 1

Analyte	Sample	Qual	Serial Dil	Qual	% Diff	Q
Aluminum	3.85		3.75		2.67	
Calcium	57.3		56.9		0.67	
Iron	4.87		4.84		0.60	
Magnesium	25.1		24.6		2.09	
Potassium	5.67	X	5.26	X	7.30	
Sodium	162		155		4.31	
Strontium	2.09		2.04		2.01	

U = Result is below MDL.

F = Result is greater than or equal to MDL and less than the RL.

X = Result is greater than or equal to RL and less than 50 times the MDL.

E = %D exceeds control limit of 10% and initial sample result is greater than or equal to 50 times the MDL.

SERIAL_DIL - Modified 09/22/2008

PDF File ID: 2518250

07/26/2012 10:45



Microbac Laboratories Inc.
Serial Dilution Report

Login: L12070658 **Worknum:** WG404484
Instrument: ICP-THERMO2 **Method:** 6010B
Serial Dil: WG404484-02 **File ID:** T2.072512.153531 **Dil:** 5 **Units:** mg/L
Sample: L12070649-01 **File ID:** T2.072512.152923 **Dil:** 1

Analyte	Sample	Qual	Serial Dil	Qual	% Diff	Q
Aluminum	0.745	X	0.747	X	0.23	
Calcium	85.4		87.8		2.80	
Iron	0.813	X	0.742	X	8.70	
Magnesium	29.9		30.2		1.00	
Potassium	2.07	X	3.76	F	81.50	
Sodium	95.7		100		4.99	
Strontium	1.03		1.05		1.09	

U = Result is below MDL.

F = Result is greater than or equal to MDL and less than the RL.

X = Result is greater than or equal to RL and less than 50 times the MDL.

E = %D exceeds control limit of 10% and initial sample result is greater than or equal to 50 times the MDL.

SERIAL_DIL - Modified 09/22/2008

PDF File ID: 2518655

07/31/2012 14:10



Microbac Laboratories Inc.
Serial Dilution Report

Login: L12070658 **Worknum:** WG404495
Instrument: ICP-THERMO2 **Method:** 6010B
Serial Dil: WG404495-02 **File ID:** T2.072512.171502 **Dil:** 5 **Units:** mg/L
Sample: L12070658-12 **File ID:** T2.072512.170855 **Dil:** 1

Analyte	Sample	Qual	Serial Dil	Qual	% Diff	Q
Aluminum	3.54		3.71		4.77	
Calcium	15.7		16.2		3.40	
Iron	5.31		5.40		1.67	
Magnesium	4.08	X	4.22	X	3.54	
Potassium	9.15	X	11.4	X	25.10	
Sodium	66.7		71.8		7.61	
Strontium	0.281		0.295		5.01	

U = Result is below MDL.

F = Result is greater than or equal to MDL and less than the RL.

X = Result is greater than or equal to RL and less than 50 times the MDL.

E = %D exceeds control limit of 10% and initial sample result is greater than or equal to 50 times the MDL.

SERIAL_DIL - Modified 09/22/2008

PDF File ID: 2518655

07/31/2012 14:10



Sample Login ID: L12070658

Worknum: WG404492

Instrument ID: PE-ICP2

Method: 6010B

Post Spike ID: WG404492-01

File ID: P2.072512.195346

Dil: 1

Units: mg/L

Sample ID: L12070658-33

File ID: P2.072512.194746

Dil: 1

Matrix: Water

Analyte	Post Spike Result	C	Sample Result	C	Spike Added(SA)	% R	Control Limit %R	Q
ALUMINUM	8.37		3.85		5	98.2	75 - 125	
CALCIUM	56.7		57.3		5	103.7	75 - 125	
IRON	6.26		4.87		2	93.8	75 - 125	
MAGNESIUM	27.3		25.1		5	94.0	75 - 125	
POTASSIUM	30.2		5.67		25	100.5	75 - 125	
SODIUM	167		162		25	85.1	75 - 125	
STRONTIUM	2.36		2.09		.5	96.8	75 - 125	

N = % Recovery exceeds control limits

F = Result is between MDL and RL

U = Sample result is below MDL. A value of zero is used in the calculation



Sample Login ID: L12070658

Worknum: WG404484

Instrument ID: ICP-THERMO2

Method: 6010B

Post Spike ID: WG404484-01

File ID: T2.073012.101444

Dil: 1

Units: mg/L

Sample ID: L12070649-01

File ID: T2.073012.101139

Dil: 1

Matrix: Water

Analyte	Post Spike Result	C	Sample Result	C	Spike Added(SA)	% R	Control Limit %R	Q
ALUMINUM	6.11		0.777		5	108.1	75 - 125	
CALCIUM	83.6		87.1		5	104.6	75 - 125	
IRON	2.80		0.828		2	102.5	75 - 125	
MAGNESIUM	31.3		29.1		5	101.5	75 - 125	
POTASSIUM	27.2		1.63		25	102.9	75 - 125	
SODIUM	111		95.3		25	100.7	75 - 125	
STRONTIUM	1.44		1.04		.5	101.5	75 - 125	

N = % Recovery exceeds control limits

F = Result is between MDL and RL

U = Sample result is below MDL. A value of zero is used in the calculation



Sample Login ID: L12070658

Worknum: WG404495

Instrument ID: ICP-THERMO2

Method: 6010B

Post Spike ID: WG404495-01

File ID: T2.072512.171159

Dil: 1

Units: mg/L

Sample ID: L12070658-12

File ID: T2.072512.170855

Dil: 1

Matrix: Water

Analyte	Post Spike Result	C	Sample Result	C	Spike Added(SA)	% R	Control Limit %R	Q
ALUMINUM	8.04		3.54		5	97.0	75 - 125	
CALCIUM	19.0		15.7		5	97.8	75 - 125	
IRON	6.81		5.31		2	101.6	75 - 125	
MAGNESIUM	8.89		4.08		5	104.5	75 - 125	
POTASSIUM	33.3		9.15		25	100.2	75 - 125	
SODIUM	85.2		66.7		25	100.5	75 - 125	
STRONTIUM	0.758		0.281		.5	101.0	75 - 125	

N = % Recovery exceeds control limits

F = Result is between MDL and RL

U = Sample result is below MDL. A value of zero is used in the calculation



Microbac Laboratories Inc.
Initial Calibration Summary

00835044

Login: L12070658 Workgroup (AAB#): WG404492
Analytical Method: 6010B Instrument ID: PE-ICP2
ICAL Worknum: WG404487 Initial Calibration Date: 25-JUL-2012 09:07

	WG404487-01		WG404487-02		WG404487-03		WG404487-04		WG404487-05		R	Q
	Conc	INT	Conc	INT	Conc	INT	Conc	INT	Conc	INT		
ALUMINIUM	0	24.8	.1	750	.2	1470	10	73400	20	146000	.999996	
CALCIUM	0	-44.9	NA	NA	.2	113	10	5520	20	11300	.999991	
IRON	0	-7.00	.04	728	.08	1440	4	73800	8	148000	1	
MAGNESIUM	0	72.0	.1	412	.2	831	10	42100	20	84900	.999999	
POTASSIUM	0	-270	.5	2030	1	3580	50	162000	100	322000	1	
SODIUM	0	1820	.5	12900	1	23800	50	1150000	100	2280000	1	
STRONTIUM	0	26.1	.01	29500	.02	58600	1	2830000	2	5680000	.999997	

INT = Instrument intensity
R = Coefficient of correlation
Q = Data Qualifier
* = Out of Compliance; R < 0.995

INT_CAL_ICP - Modified 03/06/2008
PDF File ID: 2518259
Report generated: 27-JUL-2012 10:21



Microbac Laboratories Inc.
Initial Calibration Summary

00835045

Login: L12070658 Workgroup (AAB#): WG404492
 Analytical Method: 6010B Instrument ID: PE-ICP2
 ICAL Worknum: WG404693 Initial Calibration Date: 26-JUL-2012 12:35

	WG404693-01		WG404693-02		WG404693-03		WG404693-04		WG404693-05		R	Q
	Conc	INT	Conc	INT	Conc	INT	Conc	INT	Conc	INT		
ALUMINUM	0	15.9	.1	694	.2	1380	10	67100	20	134000	1	
CALCIUM	0	-33.9	NA	NA	.2	82.2	10	4390	20	8970	.99994	
IRON	0	-0.486	.04	579	.08	1160	4	58100	8	117000	.999991	
MAGNESIUM	0	64.7	.1	310	.2	660	10	32700	20	66800	.999948	
POTASSIUM	0	-156	.5	1780	1	3320	50	150000	100	300000	1	
SODIUM	0	947	.5	10200	1	20200	50	995000	100	1940000	1	
STRONTIUM	0	-399	.01	26600	.02	53500	1	2590000	2	5170000	1	

INT = Instrument intensity
 R = Coefficient of correlation
 Q = Data Qualifier
 * = Out of Compliance; R < 0.995



Microbac Laboratories Inc.
Initial Calibration Summary

00835046

Login: L12070658 Workgroup (AAB#): WG404484
Analytical Method: 6010B Instrument ID: ICP-THERMO2
ICAL Worknum: WG404494 Initial Calibration Date: 25-JUL-2012 13:34

	WG404494-01		WG404494-02		WG404494-03		WG404494-04		WG404494-05		R	Q
	Conc	INT	Conc	INT	Conc	INT	Conc	INT	Conc	INT		
ALUMINUM	0	0.00104	.1	0.00287	.2	0.00305	10	0.0902	20	0.182	.998231	
CALCIUM	0	-0.0112	.1	-0.00852	.2	-0.00712	10	0.221	20	0.463	.999849	
IRON	0	0.000130	.04	0.000940	.08	0.00191	4	0.115	8	0.238	.999539	
MAGNESIUM	0	0.000460	.1	0.00114	.2	0.00205	10	0.0810	20	0.165	.999894	
POTASSIUM	0	0.00144	.5	0.00897	1	0.0164	50	0.703	100	1.43	.999943	
SODIUM	0	-0.0238	.5	0.00313	1	0.0281	50	2.51	100	5.07	.99999	
STRONTIUM	0	0.00291	.01	0.0206	.02	0.0370	1	1.66	2	3.41	.999918	

INT = Instrument intensity
R = Coefficient of correlation
Q = Data Qualifier
* = Out of Compliance; R < 0.995



Microbac Laboratories Inc.
Initial Calibration Summary

00835047

Login: L12070658 Workgroup (AAB#): WG404484
 Analytical Method: 6010B Instrument ID: ICP-THERMO2
 ICAL Worknum: WG404931 Initial Calibration Date: 30-JUL-2012 09:22

	WG404931-01		WG404931-02		WG404931-03		WG404931-04		WG404931-05		R	Q
	Conc	INT	Conc	INT	Conc	INT	Conc	INT	Conc	INT		
ALUMINIUM	0	0.00173	.1	0.00246	.2	0.00329	10	0.0915	20	0.178	.999868	
CALCIUM	0	-0.00931	.1	-0.00635	.2	-0.00340	10	0.230	20	0.459	.999639	
IRON	0	-0.0000100	.04	0.00102	.08	0.00197	4	0.0974	8	0.192	.999968	
MAGNESIUM	0	0.000390	.1	0.00103	.2	0.00191	10	0.0676	20	0.133	.999922	
POTASSIUM	0	0.00138	.5	0.00957	1	0.0176	50	0.709	100	1.39	.999824	
SODIUM	0	-0.0244	.5	0.00483	1	0.0391	50	2.75	100	5.37	.999816	
STRONTIUM	0	0.00298	.01	0.0218	.02	0.0416	1	1.75	2	3.44	.999913	

INT = Instrument intensity
 R = Coefficient of correlation
 Q = Data Qualifier
 * = Out of Compliance; R < 0.995

INT_CAL_ICP - Modified 03/06/2008
 PDF File ID: 2518664
 Report generated: 31-JUL-2012 14:10



Microbac Laboratories Inc.
Initial Calibration Summary

00835048

Login: L12070658 Workgroup (AAB#): WG404495
 Analytical Method: 6010B Instrument ID: ICP-THERMO2
 ICAL Worknum: WG404494 Initial Calibration Date: 25-JUL-2012 13:34

	WG404494-01		WG404494-02		WG404494-03		WG404494-04		WG404494-05		R	Q
	Conc	INT	Conc	INT	Conc	INT	Conc	INT	Conc	INT		
ALUMINUM	0	0.00104	.1	0.00287	.2	0.00305	10	0.0902	20	0.182	.998231	
CALCIUM	0	-0.0112	.1	-0.00852	.2	-0.00712	10	0.221	20	0.463	.999849	
IRON	0	0.000130	.04	0.000940	.08	0.00191	4	0.115	8	0.238	.999539	
MAGNESIUM	0	0.000460	.1	0.00114	.2	0.00205	10	0.0810	20	0.165	.999894	
POTASSIUM	0	0.00144	.5	0.00897	1	0.0164	50	0.703	100	1.43	.999943	
SODIUM	0	-0.0238	.5	0.00313	1	0.0281	50	2.51	100	5.07	.99999	
STRONTIUM	0	0.00291	.01	0.0206	.02	0.0370	1	1.66	2	3.41	.999918	

INT = Instrument intensity
 R = Coefficient of correlation
 Q = Data Qualifier
 * = Out of Compliance; R < 0.995



Login Number: L12070658 Run Date: 07/25/2012 Sample ID: WG404487-07
Instrument ID: PE-ICP2 Run Time: 09:19 Method: 6010B
File ID: P2.072512.091951 Analyst: KHR Units: mg/L
Workgroup (AAB#): WG404492 Cal ID: PE-ICP2 - 25-JUL-12
Matrix: WATER

Analytes	MDL	RDL	Concentration	Qualifier
ALUMINUM	.05	.1	.05	U
CALCIUM	.1	.2	.1	U
IRON	.05	.1	.05	U
MAGNESIUM	.25	.5	.25	U
POTASSIUM	.5	1	.5	U
SODIUM	.25	.5	.25	U
STRONTIUM	.005	.01	.005	U



Login Number: L12070658 Run Date: 07/26/2012 Sample ID: WG404693-07
Instrument ID: PE-ICP2 Run Time: 12:47 Method: 6010B
File ID: P2.072612.124726 Analyst: KHR Units: mg/L
Workgroup (AAB#): WG404492 Cal ID: PE-ICP2 - 26-JUL-12
Matrix: WATER

Analytes	MDL	RDL	Concentration	Qualifier
ALUMINUM	.05	.1	.05	U
CALCIUM	.1	.2	.1	U
IRON	.05	.1	.05	U
MAGNESIUM	.25	.5	.25	U
POTASSIUM	.5	1	.5	U
SODIUM	.25	.5	.25	U
STRONTIUM	.005	.01	.005	U



Login Number: L12070658 Run Date: 07/25/2012 Sample ID: WG404494-07
Instrument ID: ICP-THERMO2 Run Time: 13:40 Method: 6010B
File ID: T2.072512.134055 Analyst: KHR Units: mg/L
Workgroup (AAB#): WG404484 Cal ID: ICP-THERI - 25-JUL-12
Matrix: WATER

Analytes	MDL	RDL	Concentration	Qualifier
ALUMINUM	.05	.1	.05	U
CALCIUM	.1	.2	.1	U
IRON	.05	.1	.05	U
MAGNESIUM	.25	.5	.25	U
POTASSIUM	.5	1	.5	U
SODIUM	.25	.5	.25	U
STRONTIUM	.005	.01	.005	U

ICB - Modified 07/14/2009
PDF File ID: 2518666
Report generated 07/31/2012 14:11



Login Number: L12070658 Run Date: 07/30/2012 Sample ID: WG404931-07
Instrument ID: ICP-THERMO2 Run Time: 09:28 Method: 6010B
File ID: T2.073012.092830 Analyst: KHR Units: mg/L
Workgroup (AAB#): WG404484 Cal ID: ICP-THERI - 30-JUL-12
Matrix: WATER

Analytes	MDL	RDL	Concentration	Qualifier
ALUMINUM	.05	.1	.05	U
CALCIUM	.1	.2	.1	U
IRON	.05	.1	.05	U
MAGNESIUM	.25	.5	.25	U
POTASSIUM	.5	1	.508	F
SODIUM	.25	.5	.25	U
STRONTIUM	.005	.01	.005	U



Login Number: L12070658 Run Date: 07/25/2012 Sample ID: WG404494-07
Instrument ID: ICP-THERMO2 Run Time: 13:40 Method: 6010B
File ID: T2.072512.134055 Analyst: KHR Units: mg/L
Workgroup (AAB#): WG404495 Cal ID: ICP-THERI - 25-JUL-12
Matrix: WATER

Analytes	MDL	RDL	Concentration	Qualifier
ALUMINUM	.05	.1	.05	U
CALCIUM	.1	.2	.1	U
IRON	.05	.1	.05	U
MAGNESIUM	.25	.5	.25	U
POTASSIUM	.5	1	.5	U
SODIUM	.25	.5	.25	U
STRONTIUM	.005	.01	.005	U

ICB - Modified 07/14/2009
PDF File ID: 2518666
Report generated 07/31/2012 14:11



Login Number: L12070658 Run Date: 07/25/2012 Sample ID: WG404487-11
 Instrument ID: PE-ICP2 Run Time: 09:44 Method: 6010B
 File ID: P2.072512.094437 Analyst: KHR Units: mg/L
 Workgroup (AAB#): WG404492 Cal ID: PE-ICP - 25-JUL-12
 Matrix: WATER QAPP: STD

Analytes	MDL	RDL	Concentration	Qualifier
Aluminum	0.0500	0.100	0.0500	U
Calcium	0.100	0.200	0.100	U
Iron	0.0500	0.100	0.0500	U
Magnesium	0.250	0.500	0.250	U
Potassium	0.500	1.00	0.500	U
Sodium	0.250	0.500	0.250	U
Strontium	0.00500	0.0100	0.00500	U

U = Result is less than MDL.
 F = Result is between MDL and RL.
 * = Result is above RL.

CCB - Modified 03/05/2008
 PDF File ID: 2518264
 Report generated 07/27/2012 10:21



Login Number: L12070658 Run Date: 07/25/2012 Sample ID: WG404487-25
 Instrument ID: PE-ICP2 Run Time: 18:57 Method: 6010B
 File ID: P2.072512.185701 Analyst: KHR Units: mg/L
 Workgroup (AAB#): WG404492 Cal ID: PE-ICP - 25-JUL-12
 Matrix: WATER QAPP: STD

Analytes	MDL	RDL	Concentration	Qualifier
Aluminum	0.0500	0.100	0.0500	U
Calcium	0.100	0.200	0.100	U
Iron	0.0500	0.100	0.0500	U
Magnesium	0.250	0.500	0.250	U
Potassium	0.500	1.00	0.500	U
Sodium	0.250	0.500	0.250	U
Strontium	0.00500	0.0100	0.00500	U

U = Result is less than MDL.
 F = Result is between MDL and RL.
 * = Result is above RL.

CCB - Modified 03/05/2008
 PDF File ID: 2518264
 Report generated 07/27/2012 10:21



Login Number: L12070658 Run Date: 07/25/2012 Sample ID: WG404487-27
 Instrument ID: PE-ICP2 Run Time: 20:11 Method: 6010B
 File ID: P2.072512.201149 Analyst: KHR Units: mg/L
 Workgroup (AAB#): WG404492 Cal ID: PE-ICP - 25-JUL-12
 Matrix: WATER QAPP: STD

Analytes	MDL	RDL	Concentration	Qualifier
Aluminum	0.0500	0.100	0.0500	U
Calcium	0.100	0.200	0.100	U
Iron	0.0500	0.100	0.0500	U
Magnesium	0.250	0.500	0.250	U
Potassium	0.500	1.00	0.500	U
Sodium	0.250	0.500	0.250	U
Strontium	0.00500	0.0100	0.00500	U

U = Result is less than MDL.
 F = Result is between MDL and RL.
 * = Result is above RL.

CCB - Modified 03/05/2008
 PDF File ID: 2518264
 Report generated 07/27/2012 10:21



Login Number: L12070658 Run Date: 07/25/2012 Sample ID: WG404487-29
 Instrument ID: PE-ICP2 Run Time: 21:27 Method: 6010B
 File ID: P2.072512.212734 Analyst: KHR Units: mg/L
 Workgroup (AAB#): WG404492 Cal ID: PE-ICP - 25-JUL-12
 Matrix: WATER QAPP: STD

Analytes	MDL	RDL	Concentration	Qualifier
Aluminum	0.0500	0.100	0.0500	U
Calcium	0.100	0.200	0.100	U
Iron	0.0500	0.100	0.0500	U
Magnesium	0.250	0.500	0.250	U
Potassium	0.500	1.00	0.500	U
Sodium	0.250	0.500	0.250	U
Strontium	0.00500	0.0100	0.00500	U

U = Result is less than MDL.
 F = Result is between MDL and RL.
 * = Result is above RL.

CCB - Modified 03/05/2008
 PDF File ID: 2518264
 Report generated 07/27/2012 10:21



Login Number: L12070658 Run Date: 07/26/2012 Sample ID: WG404693-14
 Instrument ID: PE-ICP2 Run Time: 13:34 Method: 6010B
 File ID: P2.072612.133433 Analyst: KHR Units: mg/L
 Workgroup (AAB#): WG404492 Cal ID: PE-ICP - 26-JUL-12
 Matrix: WATER QAPP: STD

Analytes	MDL	RDL	Concentration	Qualifier
Aluminum	0.0500	0.100	0.0500	U
Calcium	0.100	0.200	0.100	U
Iron	0.0500	0.100	0.0500	U
Magnesium	0.250	0.500	0.250	U
Potassium	0.500	1.00	0.500	U
Sodium	0.250	0.500	0.250	U
Strontium	0.00500	0.0100	0.00500	U

U = Result is less than MDL.
 F = Result is between MDL and RL.
 * = Result is above RL.

CCB - Modified 03/05/2008
 PDF File ID: 2518264
 Report generated 07/27/2012 10:21



Login Number: L12070658 Run Date: 07/26/2012 Sample ID: WG404693-20
 Instrument ID: PE-ICP2 Run Time: 17:20 Method: 6010B
 File ID: P2.072612.172048 Analyst: KHR Units: mg/L
 Workgroup (AAB#): WG404492 Cal ID: PE-ICP - 26-JUL-12
 Matrix: WATER QAPP: STD

Analytes	MDL	RDL	Concentration	Qualifier
Aluminum	0.0500	0.100	0.0500	U
Calcium	0.100	0.200	0.100	U
Iron	0.0500	0.100	0.0500	U
Magnesium	0.250	0.500	0.250	U
Potassium	0.500	1.00	0.500	U
Sodium	0.250	0.500	0.250	U
Strontium	0.00500	0.0100	0.00500	U

U = Result is less than MDL.
 F = Result is between MDL and RL.
 * = Result is above RL.

CCB - Modified 03/05/2008
 PDF File ID: 2518264
 Report generated 07/27/2012 10:21



Login Number: L12070658 Run Date: 07/26/2012 Sample ID: WG404693-24
 Instrument ID: PE-ICP2 Run Time: 18:37 Method: 6010B
 File ID: P2.072612.183714 Analyst: KHR Units: mg/L
 Workgroup (AAB#): WG404492 Cal ID: PE-ICP - 26-JUL-12
 Matrix: WATER QAPP: STD

Analytes	MDL	RDL	Concentration	Qualifier
Aluminum	0.0500	0.100	0.0500	U
Calcium	0.100	0.200	0.100	U
Iron	0.0500	0.100	0.0500	U
Magnesium	0.250	0.500	0.250	U
Potassium	0.500	1.00	0.500	U
Sodium	0.250	0.500	0.250	U
Strontium	0.00500	0.0100	0.00500	U

U = Result is less than MDL.
 F = Result is between MDL and RL.
 * = Result is above RL.

CCB - Modified 03/05/2008
 PDF File ID: 2518264
 Report generated 07/27/2012 10:21



Login Number: L12070658 Run Date: 07/25/2012 Sample ID: WG404494-11
 Instrument ID: ICP-THERMO2 Run Time: 13:53 Method: 6010B
 File ID: T2.072512.135322 Analyst: KHR Units: mg/L
 Workgroup (AAB#): WG404484 Cal ID: ICP-TH - 25-JUL-12
 Matrix: WATER QAPP: STD

Analytes	MDL	RDL	Concentration	Qualifier
Aluminum	0.0500	0.100	0.0500	U
Calcium	0.100	0.200	0.100	U
Iron	0.0500	0.100	0.0500	U
Magnesium	0.250	0.500	0.250	U
Potassium	0.500	1.00	0.500	U
Sodium	0.250	0.500	0.250	U
Strontium	0.00500	0.0100	0.00500	U

U = Result is less than MDL.
 F = Result is between MDL and RL.
 * = Result is above RL.

CCB - Modified 03/05/2008
 PDF File ID: 2518669
 Report generated 07/31/2012 14:11



Login Number: L12070658 Run Date: 07/25/2012 Sample ID: WG404494-15
 Instrument ID: ICP-THERMO2 Run Time: 15:04 Method: 6010B
 File ID: T2.072512.150413 Analyst: KHR Units: mg/L
 Workgroup (AAB#): WG404484 Cal ID: ICP-TH - 25-JUL-12
 Matrix: WATER QAPP: STD

Analytes	MDL	RDL	Concentration	Qualifier
Aluminum	0.0500	0.100	0.0500	U
Calcium	0.100	0.200	0.100	U
Iron	0.0500	0.100	0.0500	U
Magnesium	0.250	0.500	0.250	U
Potassium	0.500	1.00	0.500	U
Sodium	0.250	0.500	0.250	U
Strontium	0.00500	0.0100	0.00500	U

U = Result is less than MDL.
 F = Result is between MDL and RL.
 * = Result is above RL.

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Login Number: L12070658 Run Date: 07/25/2012 Sample ID: WG404494-17
 Instrument ID: ICP-THERMO2 Run Time: 15:41 Method: 6010B
 File ID: T2.072512.154150 Analyst: KHR Units: mg/L
 Workgroup (AAB#): WG404484 Cal ID: ICP-TH - 25-JUL-12
 Matrix: WATER QAPP: STD

Analytes	MDL	RDL	Concentration	Qualifier
Aluminum	0.0500	0.100	0.0754	F
Calcium	0.100	0.200	0.100	U
Iron	0.0500	0.100	0.0500	U
Magnesium	0.250	0.500	0.250	U
Potassium	0.500	1.00	0.526	F
Sodium	0.250	0.500	0.250	U
Strontium	0.00500	0.0100	0.00500	U

U = Result is less than MDL.
 F = Result is between MDL and RL.
 * = Result is above RL.

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Login Number: L12070658 Run Date: 07/25/2012 Sample ID: WG404494-19
 Instrument ID: ICP-THERMO2 Run Time: 16:19 Method: 6010B
 File ID: T2.072512.161910 Analyst: KHR Units: mg/L
 Workgroup (AAB#): WG404484 Cal ID: ICP-TH - 25-JUL-12
 Matrix: WATER QAPP: STD

Analytes	MDL	RDL	Concentration	Qualifier
Aluminum	0.0500	0.100	0.0500	U
Calcium	0.100	0.200	0.100	U
Iron	0.0500	0.100	0.0500	U
Magnesium	0.250	0.500	0.250	U
Potassium	0.500	1.00	0.500	U
Sodium	0.250	0.500	0.250	U
Strontium	0.00500	0.0100	0.00500	U

U = Result is less than MDL.
 F = Result is between MDL and RL.
 * = Result is above RL.

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Login Number: L12070658 Run Date: 07/25/2012 Sample ID: WG404494-21
 Instrument ID: ICP-THERMO2 Run Time: 16:44 Method: 6010B
 File ID: T2.072512.164400 Analyst: KHR Units: mg/L
 Workgroup (AAB#): WG404484 Cal ID: ICP-TH - 25-JUL-12
 Matrix: WATER QAPP: STD

Analytes	MDL	RDL	Concentration	Qualifier
Aluminum	0.0500	0.100	0.0500	U
Calcium	0.100	0.200	0.100	U
Iron	0.0500	0.100	0.0500	U
Magnesium	0.250	0.500	0.250	U
Potassium	0.500	1.00	0.500	U
Sodium	0.250	0.500	0.250	U
Strontium	0.00500	0.0100	0.00500	U

U = Result is less than MDL.
 F = Result is between MDL and RL.
 * = Result is above RL.

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Login Number: L12070658 Run Date: 07/30/2012 Sample ID: WG404931-12
 Instrument ID: ICP-THERMO2 Run Time: 09:44 Method: 6010B
 File ID: T2.073012.094405 Analyst: KHR Units: mg/L
 Workgroup (AAB#): WG404484 Cal ID: ICP-TH - 30-JUL-12
 Matrix: WATER QAPP: STD

Analytes	MDL	RDL	Concentration	Qualifier
Aluminum	0.0500	0.100	0.0500	U
Calcium	0.100	0.200	0.100	U
Iron	0.0500	0.100	0.0500	U
Magnesium	0.250	0.500	0.250	U
Potassium	0.500	1.00	0.500	U
Sodium	0.250	0.500	0.250	U
Strontium	0.00500	0.0100	0.00500	U

U = Result is less than MDL.
 F = Result is between MDL and RL.
 * = Result is above RL.

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Login Number: L12070658 Run Date: 07/30/2012 Sample ID: WG404931-14
 Instrument ID: ICP-THERMO2 Run Time: 10:20 Method: 6010B
 File ID: T2.073012.102057 Analyst: KHR Units: mg/L
 Workgroup (AAB#): WG404484 Cal ID: ICP-TH - 30-JUL-12
 Matrix: WATER QAPP: STD

Analytes	MDL	RDL	Concentration	Qualifier
Aluminum	0.0500	0.100	0.0500	U
Calcium	0.100	0.200	0.100	U
Iron	0.0500	0.100	0.0500	U
Magnesium	0.250	0.500	0.250	U
Potassium	0.500	1.00	0.500	U
Sodium	0.250	0.500	0.250	U
Strontium	0.00500	0.0100	0.00500	U

U = Result is less than MDL.
 F = Result is between MDL and RL.
 * = Result is above RL.

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Login Number: L12070658 Run Date: 07/25/2012 Sample ID: WG404494-11
 Instrument ID: ICP-THERMO2 Run Time: 13:53 Method: 6010B
 File ID: T2.072512.135322 Analyst: KHR Units: mg/L
 Workgroup (AAB#): WG404495 Cal ID: ICP-TH - 25-JUL-12
 Matrix: WATER QAPP: STD

Analytes	MDL	RDL	Concentration	Qualifier
Aluminum	0.0500	0.100	0.0500	U
Calcium	0.100	0.200	0.100	U
Iron	0.0500	0.100	0.0500	U
Magnesium	0.250	0.500	0.250	U
Potassium	0.500	1.00	0.500	U
Sodium	0.250	0.500	0.250	U
Strontium	0.00500	0.0100	0.00500	U

U = Result is less than MDL.
 F = Result is between MDL and RL.
 * = Result is above RL.

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Login Number: L12070658 Run Date: 07/25/2012 Sample ID: WG404494-21
 Instrument ID: ICP-THERMO2 Run Time: 16:44 Method: 6010B
 File ID: T2.072512.164400 Analyst: KHR Units: mg/L
 Workgroup (AAB#): WG404495 Cal ID: ICP-TH - 25-JUL-12
 Matrix: WATER QAPP: STD

Analytes	MDL	RDL	Concentration	Qualifier
Aluminum	0.0500	0.100	0.0500	U
Calcium	0.100	0.200	0.100	U
Iron	0.0500	0.100	0.0500	U
Magnesium	0.250	0.500	0.250	U
Potassium	0.500	1.00	0.500	U
Sodium	0.250	0.500	0.250	U
Strontium	0.00500	0.0100	0.00500	U

U = Result is less than MDL.
 F = Result is between MDL and RL.
 * = Result is above RL.

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Login Number: L12070658 Run Date: 07/25/2012 Sample ID: WG404494-23
 Instrument ID: ICP-THERMO2 Run Time: 17:21 Method: 6010B
 File ID: T2.072512.172117 Analyst: KHR Units: mg/L
 Workgroup (AAB#): WG404495 Cal ID: ICP-TH - 25-JUL-12
 Matrix: WATER QAPP: STD

Analytes	MDL	RDL	Concentration	Qualifier
Aluminum	0.0500	0.100	0.0500	U
Calcium	0.100	0.200	0.100	U
Iron	0.0500	0.100	0.0500	U
Magnesium	0.250	0.500	0.250	U
Potassium	0.500	1.00	0.500	U
Sodium	0.250	0.500	0.250	U
Strontium	0.00500	0.0100	0.00500	U

U = Result is less than MDL.
 F = Result is between MDL and RL.
 * = Result is above RL.

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Login Number: L12070658 Run Date: 07/25/2012 Sample ID: WG404494-25
 Instrument ID: ICP-THERMO2 Run Time: 17:58 Method: 6010B
 File ID: T2.072512.175832 Analyst: KHR Units: mg/L
 Workgroup (AAB#): WG404495 Cal ID: ICP-TH - 25-JUL-12
 Matrix: WATER QAPP: STD

Analytes	MDL	RDL	Concentration	Qualifier
Aluminum	0.0500	0.100	0.0500	U
Calcium	0.100	0.200	0.100	U
Iron	0.0500	0.100	0.0500	U
Magnesium	0.250	0.500	0.250	U
Potassium	0.500	1.00	0.500	U
Sodium	0.250	0.500	0.250	U
Strontium	0.00500	0.0100	0.00500	U

U = Result is less than MDL.
 F = Result is between MDL and RL.
 * = Result is above RL.

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Login Number: L12070658 Run Date: 07/25/2012 Sample ID: WG404494-27
 Instrument ID: ICP-THERMO2 Run Time: 18:23 Method: 6010B
 File ID: T2.072512.182346 Analyst: KHR Units: mg/L
 Workgroup (AAB#): WG404495 Cal ID: ICP-TH - 25-JUL-12
 Matrix: WATER QAPP: STD

Analytes	MDL	RDL	Concentration	Qualifier
Aluminum	0.0500	0.100	0.0500	U
Calcium	0.100	0.200	0.100	U
Iron	0.0500	0.100	0.0500	U
Magnesium	0.250	0.500	0.250	U
Potassium	0.500	1.00	0.500	U
Sodium	0.250	0.500	0.250	U
Strontium	0.00500	0.0100	0.00500	U

U = Result is less than MDL.
 F = Result is between MDL and RL.
 * = Result is above RL.

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Login Number: L12070658 Run Date: 07/25/2012 Sample ID: WG404487-06
 Instrument ID: PE-ICP2 Run Time: 09:13 Method: 6010B
 File ID: P2.072512.091350 Analyst: KHR Units: mg/L
 Workgroup (AAB#): WG404492 Cal ID: PE-ICP - 25-JUL-12
 QC Key: STD

Analyte	Expected	Found	%REC	LIMITS	Q
Aluminum	10	10.0	100	90 - 110	
Calcium	10	10.5	105	90 - 110	
Iron	4	4.09	102	90 - 110	
Magnesium	10	10.0	100	90 - 110	
Potassium	50	49.9	99.8	90 - 110	
Sodium	50	50.0	100	90 - 110	
Strontium	1	1.02	102	90 - 110	

* Exceeds LIMITS Limit



Login Number: L12070658 Run Date: 07/26/2012 Sample ID: WG404693-06
 Instrument ID: PE-ICP2 Run Time: 12:41 Method: 6010B
 File ID: P2.072612.124118 Analyst: KHR Units: mg/L
 Workgroup (AAB#): WG404492 Cal ID: PE-ICP - 26-JUL-12
 QC Key: STD

Analyte	Expected	Found	%REC	LIMITS	Q
Aluminum	10	10.1	101	90 - 110	
Calcium	10	10.4	104	90 - 110	
Iron	4	4.03	101	90 - 110	
Magnesium	10	9.92	99.2	90 - 110	
Potassium	50	50.4	101	90 - 110	
Sodium	50	49.4	98.9	90 - 110	
Strontium	1	0.987	98.7	90 - 110	

* Exceeds LIMITS Limit



Login Number: L12070658 Run Date: 07/25/2012 Sample ID: WG404494-06
 Instrument ID: ICP-THERMO2 Run Time: 13:37 Method: 6010B
 File ID: T2.072512.133751 Analyst: KHR Units: mg/L
 Workgroup (AAB#): WG404484 Cal ID: ICP-TH - 25-JUL-12
 QC Key: STD

Analyte	Expected	Found	%REC	LIMITS	Q
Aluminum	10	9.88	98.8	90 - 110	
Calcium	10	9.86	98.6	90 - 110	
Iron	4	4.02	101	90 - 110	
Magnesium	10	9.93	99.3	90 - 110	
Potassium	50	49.6	99.3	90 - 110	
Sodium	50	49.5	99.0	90 - 110	
Strontium	1	0.986	98.6	90 - 110	

* Exceeds LIMITS Limit



Login Number: L12070658 Run Date: 07/30/2012 Sample ID: WG404931-06
 Instrument ID: ICP-THERMO2 Run Time: 09:25 Method: 6010B
 File ID: T2.073012.092526 Analyst: KHR Units: mg/L
 Workgroup (AAB#): WG404484 Cal ID: ICP-TH - 30-JUL-12
 QC Key: STD

Analyte	Expected	Found	%REC	LIMITS	Q
Aluminum	10	10.1	101	90 - 110	
Calcium	10	10.0	100	90 - 110	
Iron	4	4.08	102	90 - 110	
Magnesium	10	10.2	102	90 - 110	
Potassium	50	50.3	101	90 - 110	
Sodium	50	50.4	101	90 - 110	
Strontium	1	1.01	101	90 - 110	

* Exceeds LIMITS Limit



Login Number: L12070658 Run Date: 07/25/2012 Sample ID: WG404494-06
 Instrument ID: ICP-THERMO2 Run Time: 13:37 Method: 6010B
 File ID: T2.072512.133751 Analyst: KHR Units: mg/L
 Workgroup (AAB#): WG404495 Cal ID: ICP-TH - 25-JUL-12
 QC Key: STD

Analyte	Expected	Found	%REC	LIMITS	Q
Aluminum	10	9.88	98.8	90 - 110	
Calcium	10	9.86	98.6	90 - 110	
Iron	4	4.02	101	90 - 110	
Magnesium	10	9.93	99.3	90 - 110	
Potassium	50	49.6	99.3	90 - 110	
Sodium	50	49.5	99.0	90 - 110	
Strontium	1	0.986	98.6	90 - 110	

* Exceeds LIMITS Limit



Login Number: L12070658 Run Date: 07/25/2012 Sample ID: WG404487-10
Instrument ID: PE-ICP2 Run Time: 09:38 Method: 6010B
File ID: P2.072512.093838 Analyst: KHR QC Key: STD
Workgroup (AAB#): WG404492 Cal ID: PE-ICP - 25-JUL-12
Matrix: WATER

Analyte	Expected	Found	UNITS	%REC	LIMITS	Q
Aluminum	10.0	9.87	mg/L	98.7	90 - 110	
Calcium	10.0	10.3	mg/L	103	90 - 110	
Iron	4.00	3.98	mg/L	99.6	90 - 110	
Magnesium	10.0	9.93	mg/L	99.3	90 - 110	
Potassium	50.0	49.3	mg/L	98.6	90 - 110	
Sodium	50.0	49.9	mg/L	99.8	90 - 110	
Strontium	1.00	0.995	mg/L	99.5	90 - 110	

* Exceeds LIMITS Criteria

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Login Number: L12070658 Run Date: 07/25/2012 Sample ID: WG404487-24
 Instrument ID: PE-ICP2 Run Time: 18:50 Method: 6010B
 File ID: P2.072512.185057 Analyst: KHR QC Key: STD
 Workgroup (AAB#): WG404492 Cal ID: PE-ICP - 25-JUL-12
 Matrix: WATER

Analyte	Expected	Found	UNITS	%REC	LIMITS	Q
Aluminum	10.0	9.98	mg/L	99.8	90 - 110	
Calcium	10.0	10.2	mg/L	102	90 - 110	
Iron	4.00	4.02	mg/L	100	90 - 110	
Magnesium	10.0	10.1	mg/L	101	90 - 110	
Potassium	50.0	50.7	mg/L	101	90 - 110	
Sodium	50.0	50.1	mg/L	100	90 - 110	
Strontium	1.00	1.07	mg/L	107	90 - 110	

* Exceeds LIMITS Criteria

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Login Number: L12070658 Run Date: 07/25/2012 Sample ID: WG404487-26
Instrument ID: PE-ICP2 Run Time: 20:05 Method: 6010B
File ID: P2.072512.200546 Analyst: KHR QC Key: STD
Workgroup (AAB#): WG404492 Cal ID: PE-ICP - 25-JUL-12
Matrix: WATER

Analyte	Expected	Found	UNITS	%REC	LIMITS	Q
Aluminum	10.0	10.0	mg/L	100	90 - 110	
Calcium	10.0	10.5	mg/L	105	90 - 110	
Iron	4.00	4.02	mg/L	100	90 - 110	
Magnesium	10.0	10.2	mg/L	102	90 - 110	
Potassium	50.0	51.1	mg/L	102	90 - 110	
Sodium	50.0	50.1	mg/L	100	90 - 110	
Strontium	1.00	1.05	mg/L	105	90 - 110	

* Exceeds LIMITS Criteria



Login Number: L12070658 Run Date: 07/25/2012 Sample ID: WG404487-28
 Instrument ID: PE-ICP2 Run Time: 21:21 Method: 6010B
 File ID: P2.072512.212130 Analyst: KHR QC Key: STD
 Workgroup (AAB#): WG404492 Cal ID: PE-ICP - 25-JUL-12
 Matrix: WATER

Analyte	Expected	Found	UNITS	%REC	LIMITS		Q
Aluminum	10.0	10.0	mg/L	100	90 - 110		
Calcium	10.0	10.4	mg/L	104	90 - 110		
Iron	4.00	3.97	mg/L	99.3	90 - 110		
Magnesium	10.0	10.0	mg/L	100	90 - 110		
Potassium	50.0	50.7	mg/L	101	90 - 110		
Sodium	50.0	49.7	mg/L	99.4	90 - 110		
Strontium	1.00	1.03	mg/L	103	90 - 110		

* Exceeds LIMITS Criteria



Login Number: L12070658 Run Date: 07/26/2012 Sample ID: WG404693-13
Instrument ID: PE-ICP2 Run Time: 13:28 Method: 6010B
File ID: P2.072612.132822 Analyst: KHR QC Key: STD
Workgroup (AAB#): WG404492 Cal ID: PE-ICP - 26-JUL-12
Matrix: WATER

Analyte	Expected	Found	UNITS	%REC	LIMITS	Q
Aluminum	10.0	10.1	mg/L	101	90 - 110	
Calcium	10.0	10.3	mg/L	103	90 - 110	
Iron	4.00	4.00	mg/L	100	90 - 110	
Magnesium	10.0	10.0	mg/L	100	90 - 110	
Potassium	50.0	50.8	mg/L	102	90 - 110	
Sodium	50.0	50.1	mg/L	100	90 - 110	
Strontium	1.00	1.00	mg/L	100	90 - 110	

* Exceeds LIMITS Criteria

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Login Number: L12070658 Run Date: 07/26/2012 Sample ID: WG404693-19
Instrument ID: PE-ICP2 Run Time: 17:14 Method: 6010B
File ID: P2.072612.171436 Analyst: KHR QC Key: STD
Workgroup (AAB#): WG404492 Cal ID: PE-ICP - 26-JUL-12
Matrix: WATER

Analyte	Expected	Found	UNITS	%REC	LIMITS	Q
Aluminum	10.0	10.1	mg/L	101	90 - 110	
Calcium	10.0	10.4	mg/L	104	90 - 110	
Iron	4.00	4.03	mg/L	101	90 - 110	
Magnesium	10.0	10.1	mg/L	101	90 - 110	
Potassium	50.0	50.5	mg/L	101	90 - 110	
Sodium	50.0	50.6	mg/L	101	90 - 110	
Strontium	1.00	1.01	mg/L	101	90 - 110	

* Exceeds LIMITS Criteria



Login Number: L12070658 Run Date: 07/26/2012 Sample ID: WG404693-23
 Instrument ID: PE-ICP2 Run Time: 18:31 Method: 6010B
 File ID: P2.072612.183102 Analyst: KHR QC Key: STD
 Workgroup (AAB#): WG404492 Cal ID: PE-ICP - 26-JUL-12
 Matrix: WATER

Analyte	Expected	Found	UNITS	%REC	LIMITS	Q
Aluminum	10.0	10.2	mg/L	102	90 - 110	
Calcium	10.0	10.7	mg/L	107	90 - 110	
Iron	4.00	4.11	mg/L	103	90 - 110	
Magnesium	10.0	10.3	mg/L	103	90 - 110	
Potassium	50.0	50.4	mg/L	101	90 - 110	
Sodium	50.0	50.6	mg/L	101	90 - 110	
Strontium	1.00	0.994	mg/L	99.4	90 - 110	

* Exceeds LIMITS Criteria



Login Number: L12070658 Run Date: 07/25/2012 Sample ID: WG404494-10
 Instrument ID: ICP-THERMO2 Run Time: 13:50 Method: 6010B
 File ID: T2.072512.135017 Analyst: KHR QC Key: STD
 Workgroup (AAB#): WG404484 Cal ID: ICP-TH - 25-JUL-12
 Matrix: WATER

Analyte	Expected	Found	UNITS	%REC	LIMITS	Q
Aluminum	10.0	9.87	mg/L	98.7	90 - 110	
Calcium	10.0	10.0	mg/L	100	90 - 110	
Iron	4.00	4.02	mg/L	100	90 - 110	
Magnesium	10.0	10.2	mg/L	102	90 - 110	
Potassium	50.0	49.1	mg/L	98.2	90 - 110	
Sodium	50.0	49.3	mg/L	98.5	90 - 110	
Strontium	1.00	0.972	mg/L	97.2	90 - 110	

* Exceeds LIMITS Criteria



Login Number: L12070658 Run Date: 07/25/2012 Sample ID: WG404494-14
Instrument ID: ICP-THERMO2 Run Time: 15:01 Method: 6010B
File ID: T2.072512.150107 Analyst: KHR QC Key: STD
Workgroup (AAB#): WG404484 Cal ID: ICP-TH - 25-JUL-12
Matrix: WATER

Analyte	Expected	Found	UNITS	%REC	LIMITS	Q
Aluminum	10.0	9.76	mg/L	97.6	90 - 110	
Calcium	10.0	9.87	mg/L	98.7	90 - 110	
Iron	4.00	3.97	mg/L	99.2	90 - 110	
Magnesium	10.0	10.1	mg/L	101	90 - 110	
Potassium	50.0	49.8	mg/L	99.7	90 - 110	
Sodium	50.0	50.0	mg/L	100	90 - 110	
Strontium	1.00	0.984	mg/L	98.4	90 - 110	

* Exceeds LIMITS Criteria

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Report generated 07/31/2012 14:11



Login Number: L12070658 Run Date: 07/25/2012 Sample ID: WG404494-16
 Instrument ID: ICP-THERMO2 Run Time: 15:38 Method: 6010B
 File ID: T2.072512.153845 Analyst: KHR QC Key: STD
 Workgroup (AAB#): WG404484 Cal ID: ICP-TH - 25-JUL-12
 Matrix: WATER

Analyte	Expected	Found	UNITS	%REC	LIMITS	Q
Aluminum	10.0	9.70	mg/L	97.0	90 - 110	
Calcium	10.0	9.91	mg/L	99.1	90 - 110	
Iron	4.00	3.99	mg/L	99.7	90 - 110	
Magnesium	10.0	10.2	mg/L	102	90 - 110	
Potassium	50.0	50.2	mg/L	100	90 - 110	
Sodium	50.0	50.4	mg/L	101	90 - 110	
Strontium	1.00	0.997	mg/L	99.7	90 - 110	

* Exceeds LIMITS Criteria

CCV - Modified 03/05/2008
 PDF File ID: 2518668
 Report generated 07/31/2012 14:11



Login Number: L12070658 Run Date: 07/25/2012 Sample ID: WG404494-18
Instrument ID: ICP-THERMO2 Run Time: 16:16 Method: 6010B
File ID: T2.072512.161605 Analyst: KHR QC Key: STD
Workgroup (AAB#): WG404484 Cal ID: ICP-TH - 25-JUL-12
Matrix: WATER

Analyte	Expected	Found	UNITS	%REC	LIMITS	Q
Aluminum	10.0	9.75	mg/L	97.5	90 - 110	
Calcium	10.0	9.87	mg/L	98.7	90 - 110	
Iron	4.00	4.00	mg/L	100	90 - 110	
Magnesium	10.0	10.2	mg/L	102	90 - 110	
Potassium	50.0	50.6	mg/L	101	90 - 110	
Sodium	50.0	50.8	mg/L	102	90 - 110	
Strontium	1.00	1.00	mg/L	100	90 - 110	

* Exceeds LIMITS Criteria



Login Number: L12070658 Run Date: 07/25/2012 Sample ID: WG404494-20
 Instrument ID: ICP-THERMO2 Run Time: 16:40 Method: 6010B
 File ID: T2.072512.164056 Analyst: KHR QC Key: STD
 Workgroup (AAB#): WG404484 Cal ID: ICP-TH - 25-JUL-12
 Matrix: WATER

Analyte	Expected	Found	UNITS	%REC	LIMITS	Q
Aluminum	10.0	10.0	mg/L	100	90 - 110	
Calcium	10.0	10.1	mg/L	101	90 - 110	
Iron	4.00	4.13	mg/L	103	90 - 110	
Magnesium	10.0	10.5	mg/L	105	90 - 110	
Potassium	50.0	51.7	mg/L	103	90 - 110	
Sodium	50.0	52.1	mg/L	104	90 - 110	
Strontium	1.00	1.03	mg/L	103	90 - 110	

* Exceeds LIMITS Criteria



Login Number: L12070658 Run Date: 07/30/2012 Sample ID: WG404931-11
 Instrument ID: ICP-THERMO2 Run Time: 09:41 Method: 6010B
 File ID: T2.073012.094101 Analyst: KHR QC Key: STD
 Workgroup (AAB#): WG404484 Cal ID: ICP-TH - 30-JUL-12
 Matrix: WATER

Analyte	Expected	Found	UNITS	%REC	LIMITS	Q
Aluminum	10.0	10.2	mg/L	102	90 - 110	
Calcium	10.0	10.2	mg/L	102	90 - 110	
Iron	4.00	4.07	mg/L	102	90 - 110	
Magnesium	10.0	10.2	mg/L	102	90 - 110	
Potassium	50.0	50.2	mg/L	100	90 - 110	
Sodium	50.0	50.5	mg/L	101	90 - 110	
Strontium	1.00	1.00	mg/L	100	90 - 110	

* Exceeds LIMITS Criteria



Login Number: L12070658 Run Date: 07/30/2012 Sample ID: WG404931-13
Instrument ID: ICP-THERMO2 Run Time: 10:17 Method: 6010B
File ID: T2.073012.101753 Analyst: KHR QC Key: STD
Workgroup (AAB#): WG404484 Cal ID: ICP-TH - 30-JUL-12
Matrix: WATER

Analyte	Expected	Found	UNITS	%REC	LIMITS	Q
Aluminum	10.0	10.2	mg/L	102	90 - 110	
Calcium	10.0	10.1	mg/L	101	90 - 110	
Iron	4.00	3.99	mg/L	99.7	90 - 110	
Magnesium	10.0	9.95	mg/L	99.5	90 - 110	
Potassium	50.0	50.2	mg/L	100	90 - 110	
Sodium	50.0	50.3	mg/L	101	90 - 110	
Strontium	1.00	0.993	mg/L	99.3	90 - 110	

* Exceeds LIMITS Criteria



Login Number: L12070658 Run Date: 07/25/2012 Sample ID: WG404494-10
 Instrument ID: ICP-THERMO2 Run Time: 13:50 Method: 6010B
 File ID: T2.072512.135017 Analyst: KHR QC Key: STD
 Workgroup (AAB#): WG404495 Cal ID: ICP-TH - 25-JUL-12
 Matrix: WATER

Analyte	Expected	Found	UNITS	%REC	LIMITS	Q
Aluminum	10.0	9.87	mg/L	98.7	90 - 110	
Calcium	10.0	10.0	mg/L	100	90 - 110	
Iron	4.00	4.02	mg/L	100	90 - 110	
Magnesium	10.0	10.2	mg/L	102	90 - 110	
Potassium	50.0	49.1	mg/L	98.2	90 - 110	
Sodium	50.0	49.3	mg/L	98.5	90 - 110	
Strontium	1.00	0.972	mg/L	97.2	90 - 110	

* Exceeds LIMITS Criteria



Login Number: L12070658 Run Date: 07/25/2012 Sample ID: WG404494-20
 Instrument ID: ICP-THERMO2 Run Time: 16:40 Method: 6010B
 File ID: T2.072512.164056 Analyst: KHR QC Key: STD
 Workgroup (AAB#): WG404495 Cal ID: ICP-TH - 25-JUL-12
 Matrix: WATER

Analyte	Expected	Found	UNITS	%REC	LIMITS	Q
Aluminum	10.0	10.0	mg/L	100	90 - 110	
Calcium	10.0	10.1	mg/L	101	90 - 110	
Iron	4.00	4.13	mg/L	103	90 - 110	
Magnesium	10.0	10.5	mg/L	105	90 - 110	
Potassium	50.0	51.7	mg/L	103	90 - 110	
Sodium	50.0	52.1	mg/L	104	90 - 110	
Strontium	1.00	1.03	mg/L	103	90 - 110	

* Exceeds LIMITS Criteria



Login Number: L12070658 Run Date: 07/25/2012 Sample ID: WG404494-22
Instrument ID: ICP-THERMO2 Run Time: 17:18 Method: 6010B
File ID: T2.072512.171813 Analyst: KHR QC Key: STD
Workgroup (AAB#): WG404495 Cal ID: ICP-TH - 25-JUL-12
Matrix: WATER

Analyte	Expected	Found	UNITS	%REC	LIMITS	Q
Aluminum	10.0	9.67	mg/L	96.7	90 - 110	
Calcium	10.0	9.80	mg/L	98.0	90 - 110	
Iron	4.00	4.02	mg/L	100	90 - 110	
Magnesium	10.0	10.3	mg/L	103	90 - 110	
Potassium	50.0	50.1	mg/L	100	90 - 110	
Sodium	50.0	51.2	mg/L	102	90 - 110	
Strontium	1.00	1.02	mg/L	102	90 - 110	

* Exceeds LIMITS Criteria



Login Number: L12070658 Run Date: 07/25/2012 Sample ID: WG404494-24
 Instrument ID: ICP-THERMO2 Run Time: 17:55 Method: 6010B
 File ID: T2.072512.175527 Analyst: KHR QC Key: STD
 Workgroup (AAB#): WG404495 Cal ID: ICP-TH - 25-JUL-12
 Matrix: WATER

Analyte	Expected	Found	UNITS	%REC	LIMITS	Q
Aluminum	10.0	9.75	mg/L	97.5	90 - 110	
Calcium	10.0	9.75	mg/L	97.5	90 - 110	
Iron	4.00	4.03	mg/L	101	90 - 110	
Magnesium	10.0	10.2	mg/L	102	90 - 110	
Potassium	50.0	50.0	mg/L	99.9	90 - 110	
Sodium	50.0	51.1	mg/L	102	90 - 110	
Strontium	1.00	1.02	mg/L	102	90 - 110	

* Exceeds LIMITS Criteria



Login Number: L12070658 Run Date: 07/25/2012 Sample ID: WG404494-26
 Instrument ID: ICP-THERMO2 Run Time: 18:20 Method: 6010B
 File ID: T2.072512.182041 Analyst: KHR QC Key: STD
 Workgroup (AAB#): WG404495 Cal ID: ICP-TH - 25-JUL-12
 Matrix: WATER

Analyte	Expected	Found	UNITS	%REC	LIMITS	Q
Aluminum	10.0	10.2	mg/L	102	90 - 110	
Calcium	10.0	10.2	mg/L	102	90 - 110	
Iron	4.00	4.20	mg/L	105	90 - 110	
Magnesium	10.0	10.7	mg/L	107	90 - 110	
Potassium	50.0	52.2	mg/L	104	90 - 110	
Sodium	50.0	53.1	mg/L	106	90 - 110	
Strontium	1.00	1.06	mg/L	106	90 - 110	

* Exceeds LIMITS Criteria



Login number: L12070658
 Instrument ID: PE-ICP2
 Sol. A: WG404487-08
 Sol. AB: WG404487-09

File ID: P2.072512.092644
 File ID: P2.072512.093241

Workgroup (AAB#): WG404492
 Method: 6010B
 Units: mg/L
 Matrix: Water

ANALYTE	Sol. A			Sol. AB			Q
	True	Found	%Recovery	True	Found	%Recovery	
Aluminum	250	249	99.6	250	249	99.6	
Calcium	250	263	105	250	260	104	
Iron	100	93.2	93.2	100	92.6	92.6	
Magnesium	250	248	99.2	250	246	98.4	
Potassium	NS	-0.101	NS	5.00	4.92	98.4	
Sodium	NS	-0.0176	NS	5.00	5.12	102	
Strontium	NS	-0.00460	NS	NS	-0.00448	NS	

NS = Not spiked

* = Recovery of spiked element is outside acceptance limit of 80% - 120% of true value.

= Result for unspiked element is outside the acceptance limits of (+/-) the project reporting limit (RL).

+ = Result for unspiked element is outside the acceptance limits of (+/-) 2 times the project method detection limit (MDL). This criteria is only applicable to specific QAPPs.



Login number: L12070658
Instrument ID: PE-ICP2
Sol. A: WG404693-11
Sol. AB: WG404693-12

File ID: P2.072612.131606
File ID: P2.072612.132214

Workgroup (AAB#): WG404492
Method: 6010B
Units: mg/L
Matrix: Water

ANALYTE	Sol. A			Sol. AB			Q
	True	Found	%Recovery	True	Found	%Recovery	
Aluminum	250	248	99.2	250	253	101	
Calcium	250	258	103	250	259	104	
Iron	100	92.3	92.3	100	92.8	92.8	
Magnesium	250	248	99.2	250	249	99.6	
Potassium	NS	-0.127	NS	5.00	4.94	98.8	
Sodium	NS	0.0287	NS	5.00	5.03	101	
Strontium	NS	-0.00522	NS	NS	-0.00518	NS	

NS = Not spiked

* = Recovery of spiked element is outside acceptance limit of 80% - 120% of true value.

= Result for unspiked element is outside the acceptance limits of (+/-) the project reporting limit (RL).

+ = Result for unspiked element is outside the acceptance limits of (+/-) 2 times the project method detection limit (MDL). This criteria is only applicable to specific QAPPs.



Login number: L12070658
Instrument ID: ICP-THERMO2
Sol. A: WG404494-08
Sol. AB: WG404494-09

File ID: T2.072512.134404
File ID: T2.072512.134709

Workgroup (AAB#): WG404484
Method: 6010B
Units: mg/L
Matrix: Water

ANALYTE	Sol. A			Sol. AB			Q
	True	Found	%Recovery	True	Found	%Recovery	
Aluminum	250	242	96.8	250	246	98.4	
Calcium	250	222	88.8	250	227	90.8	
Iron	100	95.8	95.8	100	97.7	97.7	
Magnesium	250	241	96.4	250	245	98.0	
Potassium	NS	0.269	NS	5.00	5.99	120	
Sodium	NS	0.128	NS	5.00	5.51	110	
Strontium	NS	0.000310	NS	NS	0.000260	NS	

NS = Not spiked

* = Recovery of spiked element is outside acceptance limit of 80% - 120% of true value.

= Result for unspiked element is outside the acceptance limits of (+/-) the project reporting limit (RL).

+ = Result for unspiked element is outside the acceptance limits of (+/-) 2 times the project method detection limit (MDL). This criteria is only applicable to specific QAPPs.



Login number: L12070658
Instrument ID: ICP-THERMO2
Sol. A: WG404931-09
Sol. AB: WG404931-10

File ID: T2.073012.093449
File ID: T2.073012.093753

Workgroup (AAB#): WG404484
Method: 6010B
Units: mg/L
Matrix: Water

ANALYTE	Sol. A			Sol. AB			Q
	True	Found	%Recovery	True	Found	%Recovery	
Aluminum	250	249	99.6	250	249	99.6	
Calcium	250	230	92.0	250	230	92.0	
Iron	100	97.5	97.5	100	97.7	97.7	
Magnesium	250	245	98.0	250	246	98.4	
Potassium	NS	0.203	NS	5.00	5.44	109	
Sodium	NS	0.109	NS	5.00	5.49	110	
Strontium	NS	0.000200	NS	NS	-0.000260	NS	

NS = Not spiked

* = Recovery of spiked element is outside acceptance limit of 80% - 120% of true value.

= Result for unspiked element is outside the acceptance limits of (+/-) the project reporting limit (RL).

+ = Result for unspiked element is outside the acceptance limits of (+/-) 2 times the project method detection limit (MDL). This criteria is only applicable to specific QAPPs.



Login number: L12070658
Instrument ID: ICP-THERMO2
Sol. A: WG404494-08
Sol. AB: WG404494-09

File ID: T2.072512.134404
File ID: T2.072512.134709

Workgroup (AAB#): WG404495
Method: 6010B
Units: mg/L
Matrix: Water

ANALYTE	Sol. A			Sol. AB			Q
	True	Found	%Recovery	True	Found	%Recovery	
Aluminum	250	242	96.8	250	246	98.4	
Calcium	250	222	88.8	250	227	90.8	
Iron	100	95.8	95.8	100	97.7	97.7	
Magnesium	250	241	96.4	250	245	98.0	
Potassium	NS	0.269	NS	5.00	5.99	120	
Sodium	NS	0.128	NS	5.00	5.51	110	
Strontium	NS	0.000310	NS	NS	0.000260	NS	

NS = Not spiked

* = Recovery of spiked element is outside acceptance limit of 80% - 120% of true value.

= Result for unspiked element is outside the acceptance limits of (+/-) the project reporting limit (RL).

+ = Result for unspiked element is outside the acceptance limits of (+/-) 2 times the project method detection limit (MDL). This criteria is only applicable to specific QAPPs.



Login Number: L12070658
 Instrument ID: PE-ICP2

Date: 12/30/2011
 Method: 6010B

Analyte	Wave Length	AG	AL	AS	B	BA
ALUMINUM	396.15	0	0	0.206	0	0
ANTIMONY	206.84	0	0	-0.740	0	0
ARSENIC	188.98	0	0.0776	0	0	0
BARIUM	233.53	0	0	0	0	0
BERYLLIUM	234.86	0	0	0	0	0
BORON	249.68	0	1.12	0	0	0
CADMIUM	228.80	0	0	3.00	0	0
CALCIUM	227.55	0	0.195	10.0	0	0
CHROMIUM	267.72	0	-0.00252	0	0	0
COBALT	228.62	0	0	0	0	0.337
COPPER	327.39	0	0	0	0	0
IRON	239.56	0	0	0	0	0
LEAD	220.35	0	-0.0265	0	0	0
LITHIUM	670.78	0	0	0	0	0
MAGNESIUM	279.08	0	0	0	0	0
MANGANESE	257.61	-0.185	0	-0.231	-0.0949	-0.230
MOLYBDENUM	202.03	0	0	0	0	0
NICKEL	231.60	0	0	0	0	0
POTASSIUM	766.49	0	0	0	0	0
SELENIUM	196.03	0	0.147	0	0	0
SILICON	251.61	0	0	0	0	0
SILVER	328.07	0	0	0	0	0
SODIUM	589.59	0	0	0	0	0
STRONTIUM	407.77	0	0	0	0	0
THALLIUM	190.80	0	0	0	0	0
TIN	189.93	0	0	0	0	0
TITANIUM	334.94	0	0	0	0	0
VANADIUM	290.88	0	0	0.200	0	0.0400
ZINC	206.20	0	0	0	0	0

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Login Number: L12070658
 Instrument ID: PE-ICP2

Date: 12/30/2011
 Method: 6010B

Analyte	Wave Length	BE	CA	CD	CO	CR
ALUMINUM	396.15	0	0	0	0	0
ANTIMONY	206.84	0	0	0	0	6.33
ARSENIC	188.98	0	0.0200	0	0	-6.59
BARIUM	233.53	0	0	0	0	0
BERYLLIUM	234.86	0	0	0	0	-0.0733
BORON	249.68	0	0	24.1	5.90	1.50
CADMIUM	228.80	0	0	0	0	0
CALCIUM	227.55	0	0	0	300	0
CHROMIUM	267.72	0	0	0	0	0
COBALT	228.62	0	0	0	0	-0.244
COPPER	327.39	0	0	0	0.380	-0.0400
IRON	239.56	0	0	0	1.91	0
LEAD	220.35	0	-0.0480	0	0.116	-0.0700
LITHIUM	670.78	0	0	0	0	0
MAGNESIUM	279.08	0	0	0	0	0
MANGANESE	257.61	-1.04	0	-0.755	-0.0418	-0.110
MOLYBDENUM	202.03	0	0	0	0	0
NICKEL	231.60	0	0	0	-0.566	0
POTASSIUM	766.49	0	0	0	0	0
SELENIUM	196.03	0	-0.300	0	-1.52	0
SILICON	251.61	0	0	0	0	0
SILVER	328.07	0	0	0	0	0
SODIUM	589.59	0	0	0	0	0
STRONTIUM	407.77	0	0	0	0	0
THALLIUM	190.80	0	0.400	0	3.48	0
TIN	189.93	0	0	0	0	0
TITANIUM	334.94	0	-0.0100	0	0	0.297
VANADIUM	290.88	0	0	0	0	0
ZINC	206.20	0	0	0	0	-3.64

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Login Number: L12070658
 Instrument ID: PE-ICP2

Date: 12/30/2011
 Method: 6010B

Analyte	Wave Length	CU	FE	K	LI	MG
ALUMINUM	396.15	0	0.0192	0	0	0
ANTIMONY	206.84	0	0	0	0	0
ARSENIC	188.98	0	-0.00250	0	0	0
BARIUM	233.53	0	-0.0187	0	0	0
BERYLLIUM	234.86	0	0.210	0	0	0
BORON	249.68	0	-4.66	0	0	0
CADMIUM	228.80	0	-0.00420	0	0	0
CALCIUM	227.55	-2.00	100	0	0	0.104
CHROMIUM	267.72	0	0.0391	0	0	0
COBALT	228.62	0	0.0262	0	0	0
COPPER	327.39	0	-0.0688	0	0.154	0
IRON	239.56	0	0	0	0	0.0276
LEAD	220.35	0.740	0.0440	0	0	0
LITHIUM	670.78	0	0	0	0	0
MAGNESIUM	279.08	0	0.540	0	0	0
MANGANESE	257.61	-0.0457	-0.0580	-0.0181	-0.794	0.0147
MOLYBDENUM	202.03	0	-0.0494	0	0	0
NICKEL	231.60	0	0	0	0	0
POTASSIUM	766.49	0	0	0	0	0
SELENIUM	196.03	0	-0.465	0	0	0
SILICON	251.61	0	0	0	0	0
SILVER	328.07	0.0717	0.0240	0	0	0
SODIUM	589.59	0	0	0	0	0
STRONTIUM	407.77	0	0.120	0	0	0
THALLIUM	190.80	0	0	0	0	0
TIN	189.93	0	0	0	0	0
TITANIUM	334.94	0	0	0	0	0
VANADIUM	290.88	0	0.134	0	0	0
ZINC	206.20	-0.200	0.0198	0	0	0

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Login Number: L12070658
 Instrument ID: PE-ICP2

Date: 12/30/2011
 Method: 6010B

Analyte	Wave Length	MN	MO	NA	NI	PB
ALUMINUM	396.15	0	13.5	0	0	0
ANTIMONY	206.84	0	-7.69	0	0	0
ARSENIC	188.98	0	6.00	0	0	0
BARIUM	233.53	0	-0.548	0	0	0
BERYLLIUM	234.86	-0.131	-1.50	0	-0.00974	0
BORON	249.68	0	-2.20	0	0	0
CADMIUM	228.80	0	-0.00900	0	-0.398	0
CALCIUM	227.55	0	-8.00	0	-900	0
CHROMIUM	267.72	0.434	-0.00100	0	0	0
COBALT	228.62	0	-0.125	0	0.129	0
COPPER	327.39	0	-0.0774	0	0.150	0.257
IRON	239.56	0.480	0	0	0	0.407
LEAD	220.35	0.100	-5.00	0	0.100	0
LITHIUM	670.78	0	0	0	0	0
MAGNESIUM	279.08	0	-5.00	0	0	0.0252
MANGANESE	257.61	0	-0.0482	-0.00916	-0.0340	-0.0413
MOLYBDENUM	202.03	-0.209	0	0	0.120	0
NICKEL	231.60	0	0	0	0	0
POTASSIUM	766.49	0	0	1.00	0	0
SELENIUM	196.03	0.451	0.300	0	0.0940	0
SILICON	251.61	0	15.0	0	0	0
SILVER	328.07	0.130	0.100	0	0	0
SODIUM	589.59	0	0	0	0	0
STRONTIUM	407.77	0	0	0	0	0
THALLIUM	190.80	-1.50	1.20	0	0	0
TIN	189.93	0	0	0	0	0
TITANIUM	334.94	0	0	0	0	0
VANADIUM	290.88	0	0.578	0	0	0
ZINC	206.20	0	0.180	0	-0.200	-0.100

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Login Number: L12070658
 Instrument ID: PE-ICP2

Date: 12/30/2011
 Method: 6010B

Analyte	Wave Length	SB	SE	SI	SN	SR
ALUMINUM	396.15	0	0	0	0	0
ANTIMONY	206.84	0	0	0	0	0
ARSENIC	188.98	0	0	0	0	0
BARIUM	233.53	0	0	0	0	0
BERYLLIUM	234.86	0	0	0	0	0
BORON	249.68	0	0	0	0	0
CADMIUM	228.80	0	0	0	0	0
CALCIUM	227.55	0	0	0	0	0
CHROMIUM	267.72	0	0	0	0	0
COBALT	228.62	0	0	0	0	0
COPPER	327.39	0	0.148	0	0	0
IRON	239.56	0	0	0	0	0
LEAD	220.35	-0.0100	0	0	0	0
LITHIUM	670.78	0	0	0	0	0
MAGNESIUM	279.08	0	-0.0924	0	0	0
MANGANESE	257.61	-0.0505	-0.0281	-0.185	-0.0445	-0.625
MOLYBDENUM	202.03	0	0	0	0	0
NICKEL	231.60	-0.0500	-0.0100	0	0	0
POTASSIUM	766.49	0	0	0	0	0
SELENIUM	196.03	0	0	0	0	0
SILICON	251.61	0	0	0	0	0
SILVER	328.07	0	0	0	0	0.200
SODIUM	589.59	0	0	0	0	0
STRONTIUM	407.77	0	0	0	0	0
THALLIUM	190.80	0	0	0	0	0
TIN	189.93	0	0	0	0	0
TITANIUM	334.94	0	0	0	0	0
VANADIUM	290.88	0	0	0	0	0
ZINC	206.20	-0.300	0	0	0	0

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Login Number: L12070658
 Instrument ID: PE-ICP2

Date: 12/30/2011
 Method: 6010B

Analyte	Wave Length	TI	TL	V	ZN
ALUMINUM	396.15	0	0	0	0
ANTIMONY	206.84	0	0	0.000100	0
ARSENIC	188.98	0	0	0.0930	0
BARIUM	233.53	0	0	-2.29	0
BERYLLIUM	234.86	0	0	0	0
BORON	249.68	0	0	0	0
CADMIUM	228.80	0	0	0.0800	0
CALCIUM	227.55	3.00	0	60.0	0
CHROMIUM	267.72	0	0	-0.567	-0.0400
COBALT	228.62	2.21	0	0	0
COPPER	327.39	-1.05	0	-0.700	-0.0613
IRON	239.56	0	0	0	0
LEAD	220.35	0	0	0.0560	0
LITHIUM	670.78	0	0	0	0
MAGNESIUM	279.08	0	0	0	0
MANGANESE	257.61	-0.00931	-0.0414	-0.0601	-0.0552
MOLYBDENUM	202.03	0	0	-0.288	0
NICKEL	231.60	0	0.617	0	0
POTASSIUM	766.49	0	0	0	0
SELENIUM	196.03	-0.220	0	-0.126	0
SILICON	251.61	0	0	0	0
SILVER	328.07	0	0	-1.67	0
SODIUM	589.59	0	0	0	0
STRONTIUM	407.77	0	0	0	0
THALLIUM	190.80	-12.0	0	-1.41	0
TIN	189.93	0	0	0	0
TITANIUM	334.94	0	0	0	0
VANADIUM	290.88	0	0	0	0
ZINC	206.20	0	0	-0.100	0

CORR_FACTORS - Modified 03/05/2008
 PDF File ID: 2518258
 Report generated: 07/27/2012 10:21



Login Number: L12070658
 Instrument ID: ICP-THERMO2

Date: 12/30/2011
 Method: 6010B

Analyte	Wave Length	AL	AS	B	BA	BE
ALUMINUM	308.20	0	0	0	0	0
ANTIMONY	206.80	0.0000210	0	0	0	0
ARSENIC	189.00	0	0	0	0	0
BARIUM	455.40	0	0	0	0	0
BERYLLIUM	313.00	0	0	0	0	0
BORON	249.70	0	0	0	0	0
CADMIUM	228.80	0	0.00190	0	-0.000140	0
CALCIUM	422.70	0	0	0	0	0
CHROMIUM	267.70	0	-0.000660	0	0	0
COBALT	228.60	0	0	0	0	0
COPPER	224.70	0	0	0	0	0
IRON	261.20	0	0	0	0	0
LEAD	220.30	0.000248	0	0	0	0
LITHIUM	670.80	0	0	0	0	0
MAGNESIUM	279.10	0	0	0	0	0
MANGANESE	257.60	0	0	0	0	0
MOLYBDENUM	202.03	0	0	0	0	0
NICKEL	231.60	0	0	0	0	0
PHOSPHORUS	214.90	-0.000750	0	0	0	0
POTASSIUM	766.40	0	0	0	0	0
SELENIUM	196.00	-0.0000300	0	0	0	0
SILICON	212.40	0	0	0	0	0
SILVER	328.00	0	0	0	0	0
SODIUM	589.50	0	0	0	0	0
STRONTIUM	407.80	0	0	0	0	0
THALLIUM	190.80	-0.0000120	0	0	0	0
TIN	189.90	0	0	0	0	0
TITANIUM	337.30	0	0	0	0	0
VANADIUM	292.40	0	0	0	0	0
ZINC	206.20	0.00000100	0	0	0	0
ZIRCONIUM	339.20	0	0	0	0	0

CORR_FACTORS - Modified 03/05/2008
 PDF File ID: 2518663
 Report generated: 07/26/2012 12:29



Login Number: L12070658
 Instrument ID: ICP-THERMO2

Date: 12/30/2011
 Method: 6010B

Analyte	Wave Length	CA	CO	CR	CU	FE
ALUMINUM	308.20	0	-0.000820	0	0	0
ANTIMONY	206.80	0	0	0.00950	0	0.0000560
ARSENIC	189.00	0	0	-0.000200	0	-0.0000120
BARIUM	455.40	0	0	0	0	0
BERYLLIUM	313.00	0	0	0	0	0
BORON	249.70	0	0.00343	0	0	-0.000619
CADMIUM	228.80	0	-0.00200	0	0	0.00000400
CALCIUM	422.70	0	0	0	0	0
CHROMIUM	267.70	0	-0.000160	0	0	0.0000530
COBALT	228.60	0	0	0.000108	0	0
COPPER	224.70	0	0.0000770	0	0	0.000223
IRON	261.20	-0.000120	0	-0.0000460	-0.0000290	0
LEAD	220.30	0	-0.0000930	-0.000172	0.000809	0
LITHIUM	670.80	0	0	0	0	0
MAGNESIUM	279.10	0	0	0	0	0
MANGANESE	257.60	0	0	-0.0000920	0	0
MOLYBDENUM	202.03	0	0	0	0	0
NICKEL	231.60	0	0.000100	0	0	0.0000320
PHOSPHORUS	214.90	0	0	0	0.00200	0.00120
POTASSIUM	766.40	0	0	0	0	0
SELENIUM	196.00	0	0	0	0	0
SILICON	212.40	0	0	0	0	0
SILVER	328.00	0	0	0	0	0
SODIUM	589.50	0	0	0	0	0
STRONTIUM	407.80	0.0000970	0	0	0	0
THALLIUM	190.80	0	0.00397	0.000276	0	0
TIN	189.90	0	0	0	0	0
TITANIUM	337.30	0	0	0	0	0
VANADIUM	292.40	0	0	0	0	-0.00000200
ZINC	206.20	0	0	0	0	0
ZIRCONIUM	339.20	0	0	0	0	-0.0000300

CORR_FACTORS - Modified 03/05/2008
 PDF File ID: 2518663
 Report generated: 07/26/2012 12:29



Login Number: L12070658
 Instrument ID: ICP-THERMO2

Date: 12/30/2011
 Method: 6010B

Analyte	Wave Length	LI	MG	MN	MO	NA
ALUMINUM	308.20	0	0	0	0.0153	0
ANTIMONY	206.80	0	0	0	0.000670	0
ARSENIC	189.00	0	0	0	0.00109	0
BARIUM	455.40	0	0	0	0	0
BERYLLIUM	313.00	0	0	0	0	0
BORON	249.70	0	0	0	-0.00169	0
CADMIUM	228.80	0	0	0	0.0000220	0
CALCIUM	422.70	0	0	0	0	0
CHROMIUM	267.70	0	0	0.000160	0	0
COBALT	228.60	0	0	0	-0.000983	0
COPPER	224.70	0	0	0	0.00274	0
IRON	261.20	0	0	0	0	0
LEAD	220.30	0	0	0	-0.00183	0
LITHIUM	670.80	0	0	0	0	0
MAGNESIUM	279.10	0	0	-0.00190	-0.0110	0
MANGANESE	257.60	0	0.00000900	0	-0.0000720	0
MOLYBDENUM	202.03	0	0	0	0	0
NICKEL	231.60	0	0	0	0	0
PHOSPHORUS	214.90	0	0	0	0.00800	0
POTASSIUM	766.40	0	0	0	0	0
SELENIUM	196.00	0	0	0	0.000156	0
SILICON	212.40	0	0	0	0.0187	0
SILVER	328.00	0	0	0	-0.0000440	0
SODIUM	589.50	0	0	0	0	0
STRONTIUM	407.80	0	0	0	0	0
THALLIUM	190.80	0	0	0	0	0
TIN	189.90	0	0	0	0	0
TITANIUM	337.30	0	0	0	-0.000153	0
VANADIUM	292.40	0	0	0	-0.00778	0
ZINC	206.20	0	0	0	0	0
ZIRCONIUM	339.20	0	0	0	0	0

CORR_FACTORS - Modified 03/05/2008
 PDF File ID: 2518663
 Report generated: 07/26/2012 12:29



Login Number: L12070658
 Instrument ID: ICP-THERMO2

Date: 12/30/2011
 Method: 6010B

Analyte	Wave Length	NI	SB	SN	SR	TI
ALUMINUM	308.20	0	0	0	0	0
ANTIMONY	206.80	0	0	-0.00840	0	-0.000990
ARSENIC	189.00	0	0	0	0	0
BARIUM	455.40	0	0	0	0	0
BERYLLIUM	313.00	0	0	0	0	-0.00160
BORON	249.70	0	0	0	0	0
CADMIUM	228.80	-0.000128	0	0	0	0
CALCIUM	422.70	0	0	0	0	0
CHROMIUM	267.70	0	0	0	0	0.0000550
COBALT	228.60	0.000175	0	0	0	0.000950
COPPER	224.70	-0.0120	0	0	0	0.000269
IRON	261.20	0	0	0	0	0
LEAD	220.30	0.000110	0	0	0	0
LITHIUM	670.80	0	0	0	0	0
MAGNESIUM	279.10	0	0	0	0	-0.00290
MANGANESE	257.60	0	0	0	0	0
MOLYBDENUM	202.03	0	0	0	0	0
NICKEL	231.60	0	0	0	0	0
PHOSPHORUS	214.90	0	0	0	0	0
POTASSIUM	766.40	0	0	0	0	0
SELENIUM	196.00	0	0	0	0	0
SILICON	212.40	0	0	0	0	0
SILVER	328.00	0	0	0	0	-0.00620
SODIUM	589.50	0	0	0	0	0
STRONTIUM	407.80	0	0	0	0	0
THALLIUM	190.80	0	0	0	0	-0.00170
TIN	189.90	0	0	0	0	-0.00220
TITANIUM	337.30	0	-0.00180	0	0	0
VANADIUM	292.40	0	0	0	0	0.000824
ZINC	206.20	0	0	0	0	0
ZIRCONIUM	339.20	0	0	0	0	0

CORR_FACTORS - Modified 03/05/2008
 PDF File ID: 2518663
 Report generated: 07/26/2012 12:29



Login Number: L12070658

Date: 12/30/2011

Instrument ID: ICP-THERMO2

Method: 6010B

Analyte	Wave Length	ν	ZN	ZR
ALUMINUM	308.20	0.00300	0	0
ANTIMONY	206.80	-0.00438	0	0
ARSENIC	189.00	0.000107	0	0
BARIUM	455.40	0	0	0
BERYLLIUM	313.00	0.000170	0	0
BORON	249.70	0	0	0
CADMIUM	228.80	0.0000820	0	0
CALCIUM	422.70	0	0	0
CHROMIUM	267.70	-0.00180	-0.000740	
COBALT	228.60	0.0000200	0	0
COPPER	224.70	0	0	
IRON	261.20	0	0	0
LEAD	220.30	-0.000126	0	0
LITHIUM	670.80	0	0	0
MAGNESIUM	279.10	0	0	0
MANGANESE	257.60	-0.00120	0	0
MOLYBDENUM	202.03	-0.000110	0	0
NICKEL	231.60	0	0	0
PHOSPHORUS	214.90	-0.00500	0	0.00200
POTASSIUM	766.40	0	0	0
SELENIUM	196.00	0	0	0
SILICON	212.40	0	0	0
SILVER	328.00	-0.00617	0	0
SODIUM	589.50	0	0	0
STRONTIUM	407.80	0	0	0
THALLIUM	190.80	-0.0282	0	0
TIN	189.90	0	0	0
TITANIUM	337.30	-0.000250	0	0
VANADIUM	292.40	0	0	0
ZINC	206.20	0	0	0
ZIRCONIUM	339.20	0	0	0

CORR_FACTORS - Modified 03/05/2008
 PDF File ID: 2518663
 Report generated: 07/26/2012 12:29



Login Number: L12070658 Date: 06/22/2012
 Instrument ID: PE-ICP2 Method: 6010B

Analyte	Integration Time (Sec.)	Concentration (mg/L)
Aluminum	10.00	450.0
Antimony	10.00	45.0
Arsenic	10.00	9.0
Barium	10.00	9.0
Beryllium	10.00	4.5
Boron	10.00	45.0
Cadmium	10.00	4.5
Calcium	10.00	450.0
Chromium	10.00	45.0
Cobalt	10.00	45.0
Copper	10.00	45.0
Iron	10.00	450.0
Lead	10.00	90.0
Lithium	10.00	0.9
Magnesium	10.00	450.0
Manganese	10.00	27.0
Molybdenum	10.00	45.0
Nickel	10.00	45.0
Potassium	10.00	80.0
Selenium	10.00	45.0
Silicon	10.00	36.0
Silver	10.00	4.5
Sodium	10.00	180.0
Strontium	10.00	2.7
Thallium	10.00	45.0
Tin	10.00	45.0
Titanium	10.00	18.0
Vanadium	10.00	45.0
Zinc	10.00	45.0

Comments:

All analytes passed acceptance criteria at the specified concentration.



Login Number: L12070658 Date: 06/22/2012
Instrument ID: ICP-THERMO2 Method: 6010B

Analyte	Integration Time (Sec.)	Concentration (mg/L)
Aluminum	10.00	810.0
Antimony	10.00	90.0
Arsenic	10.00	90.0
Barium	10.00	81.0
Beryllium	15.00	4.5
Boron	10.00	90.0
Cadmium	10.00	9.0
Calcium	10.00	450.0
Chromium	10.00	18.0
Cobalt	10.00	9.0
Copper	10.00	180.0
Iron	5.00	900.0
Lead	10.00	180.0
Lithium	10.00	45.0
Magnesium	15.00	900.0
Manganese	15.00	90.0
Molybdenum	10.00	9.0
Nickel	10.00	45.0
Phosphorus	10.00	450.0
Potassium	10.00	360.0
Selenium	10.00	90.0
Silicon	10.00	90.0
Silver	5.00	9.0
Sodium	10.00	360.0
Strontium	10.00	4.5
Thallium	10.00	9.0
Tin	10.00	90.0
Titanium	15.00	90.0
Vanadium	10.00	90.0
Zinc	10.00	45.0
Zirconium	10.00	36.0

Comments:

All analytes passed acceptance criteria at the specified concentration.



2.2.1.3 Raw Data

=====

Reprocessing Begun

Logged In Analyst: peicp2

Technique: ICP Continuous

Results Data Set (original): 072512H

Results Library (original): C:\pe\peicp2\Results\Results.mdb

Results Data Set (reprocessed): 072512HR2

Results Library (reprocessed): C:\pe\peicp2\Results\Results.mdb

=====

Sequence No.: 1

Sampler Location: 1

Sample ID: S0

Date Collected: 7/25/2012 8:41:08 AM

Analyst:

Data Type: Reprocessed on 7/25/2012 9:56:20 AM

Logged In Analyst (Original) : peicp2

Initial Sample Wt:

Initial Sample Vol:

Dilution:

Sample Prep Vol:

=====

Nebulizer Parameters: S0

Analyte	Back Pressure	Flow
All	175.0 kPa	0.50 L/min

=====

Mean Data: S0

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Calib Conc.	Units
Y 371.029	2994315.4	34477.14	1.15%		
YRADIAL	333438.9	4501.34	1.35%		
Ga 417.206	1603755.2	41544.50	2.59%		
GaRADIAL	89560.6	1903.99	2.13%		
Ag 328.068†	151.7	198.91	131.11%	[0.00]	mg/L
Al 396.153†	24.8	7.82	31.53%	[0.00]	mg/L
As 188.979†	-26.3	5.96	22.65%	[0.00]	mg/L
Ba 233.527†	-139.8	15.89	11.37%	[0.00]	mg/L
Be 234.861†	-1787.5	42.27	2.36%	[0.00]	mg/L
B 249.677†	380.7	67.66	17.77%	[0.00]	mg/L
Ca 227.546†	-44.9	8.40	18.71%	[0.00]	mg/L
Cd 228.802†	47.6	7.86	16.52%	[0.00]	mg/L
Co 228.616†	-2.9	18.41	642.05%	[0.00]	mg/L
Cr 267.716†	191.3	16.23	8.48%	[0.00]	mg/L
Cu 327.393†	-677.0	105.95	15.65%	[0.00]	mg/L
Fe 239.562†	-7.0	9.47	135.25%	[0.00]	mg/L
Mg 279.077†	72.0	17.30	24.02%	[0.00]	mg/L
Mn 257.610†	590.1	19.72	3.34%	[0.00]	mg/L
Mo 202.031†	87.8	8.71	9.92%	[0.00]	mg/L
Ni 231.604†	-214.0	16.38	7.66%	[0.00]	mg/L
Pb 220.353†	-85.5	18.27	21.36%	[0.00]	mg/L
Sb 206.836†	14.8	3.31	22.37%	[0.00]	mg/L
Se 196.026†	23.0	5.85	25.43%	[0.00]	mg/L
Si 251.611†	1294.4	118.64	9.17%	[0.00]	mg/L
Sn 189.927†	34.3	4.92	14.33%	[0.00]	mg/L
Ti 334.940†	994.4	113.05	11.37%	[0.00]	mg/L
Tl 190.801†	-96.3	2.73	2.84%	[0.00]	mg/L
V 290.880†	8974.5	402.27	4.48%	[0.00]	mg/L
Zn 206.200†	180.1	9.72	5.40%	[0.00]	mg/L
K 766.490†	-269.7	40.15	14.89%	[0.00]	mg/L
Na 589.592†	1818.1	190.72	10.49%	[0.00]	mg/L
Sr 407.771†	26.1	194.95	746.78%	[0.00]	mg/L
Li 670.784†	-124.6	58.17	46.70%	[0.00]	mg/L

=====

Sequence No.: 2

Sampler Location: 2

Sample ID: S1

Date Collected: 7/25/2012 8:48:03 AM

Analyst:

Data Type: Reprocessed on 7/25/2012 9:56:22 AM

Logged In Analyst (Original) : peicp2

Initial Sample Wt:

Initial Sample Vol:

Dilution:

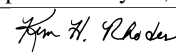
Sample Prep Vol:

=====

Nebulizer Parameters: S1

Analyte	Back Pressure	Flow
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Approved: July 26, 2012



All 175.0 kPa 0.50 L/min

Mean Data: S1

Analyte	Mean Corrected			RSD	Calib Conc. Units
	Intensity	Std.Dev.			
Y 371.029	2942821.9	8729.34		0.30%	
YRADIAL	332464.9	7761.52		2.33%	
Ga 417.206	1543451.9	34193.61		2.22%	
GaRADIAL	88429.3	1599.10		1.81%	
Ag 328.068†	1631.1	134.33		8.24%	[0.0040] mg/L
Al 396.153†	750.1	11.44		1.53%	[0.10] mg/L
Ba 233.527†	2346.1	24.60		1.05%	[0.010] mg/L
Be 234.861†	787.2	42.85		5.44%	[0.0005] mg/L
Cd 228.802†	46.2	5.18		11.21%	[0.00050] mg/L
Co 228.616†	105.7	5.95		5.63%	[0.0020] mg/L
Cr 267.716†	872.5	14.20		1.63%	[0.0050] mg/L
Cu 327.393†	1521.8	128.06		8.42%	[0.0050] mg/L
Fe 239.562†	728.0	4.73		0.65%	[0.040] mg/L
Mg 279.077†	412.4	12.58		3.05%	[0.10] mg/L
Mn 257.610†	5670.6	20.04		0.35%	[0.0050] mg/L
Mo 202.031†	502.2	11.80		2.35%	[0.010] mg/L
Ni 231.604†	499.7	16.43		3.29%	[0.0050] mg/L
Pb 220.353†	102.2	12.83		12.55%	[0.0050] mg/L
Sb 206.836†	78.0	3.92		5.02%	[0.012] mg/L
Si 251.611†	3655.9	102.78		2.81%	[0.050] mg/L
Sn 189.927†	163.7	8.44		5.15%	[0.010] mg/L
Ti 334.940†	13335.1	41.63		0.31%	[0.010] mg/L
V 290.880†	3469.7	369.32		10.64%	[0.010] mg/L
Zn 206.200†	907.7	8.87		0.98%	[0.010] mg/L
K 766.490†	2035.0	22.16		1.09%	[0.50] mg/L
Na 589.592†	12884.6	178.95		1.39%	[0.50] mg/L
Sr 407.771†	29497.7	1447.64		4.91%	[0.010] mg/L
Li 670.784†	1756.5	33.81		1.92%	[0.010] mg/L

Sequence No.: 3

Sample ID: S2

Analyst:

Logged In Analyst (Original) : peicp2

Initial Sample Wt:

Dilution:

autosampler Location: 3

Date Collected: 7/25/2012 8:54:57 AM

Date Type: Reprocessed on 7/25/2012 9:56:23 AM

Initial Sample Vol:

Sample Prep Vol:

Nebulizer Parameters: S2

Analyte	Back Pressure	Flow
All	175.0 kPa	0.50 L/min

Mean Data: S2

Analyte	Mean Corrected			RSD	Calib Conc. Units
	Intensity	Std.Dev.			
Y 371.029	2984670.3	26204.49		0.88%	
YRADIAL	334261.1	5318.68		1.59%	
Ga 417.206	1581093.2	8825.44		0.56%	
GaRADIAL	90254.8	1753.49		1.94%	
Ag 328.068†	3061.6	79.78		2.61%	[0.0080] mg/L
Al 396.153†	1471.5	22.93		1.56%	[0.20] mg/L
As 188.979†	36.0	3.09		8.58%	[0.0080] mg/L
Ba 233.527†	4645.7	39.04		0.84%	[0.020] mg/L
Be 234.861†	1552.6	18.64		1.20%	[0.0010] mg/L
B 249.677†	1370.7	68.31		4.98%	[0.010] mg/L
Ca 227.546†	112.8	16.63		14.74%	[0.20] mg/L
Cd 228.802†	77.4	3.51		4.54%	[0.0010] mg/L
Co 228.616†	235.9	6.11		2.59%	[0.0040] mg/L
Cr 267.716†	1764.6	20.60		1.17%	[0.010] mg/L
Cu 327.393†	2961.6	24.68		0.83%	[0.010] mg/L
Fe 239.562†	1440.6	7.42		0.52%	[0.080] mg/L
Mg 279.077†	831.3	16.84		2.03%	[0.20] mg/L
Mn 257.610†	10713.7	75.01		0.70%	[0.010] mg/L
Mo 202.031†	973.3	14.24		1.46%	[0.020] mg/L
Ni 231.604†	982.9	19.96		2.03%	[0.010] mg/L

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Pb 220.353†	172.6	18.85	10.93%	[0.010]	mg/L
Sb 206.836†	143.4	6.33	4.41%	[0.024]	mg/L
Se 196.026†	22.1	4.50	20.35%	[0.0080]	mg/L
Si 251.611†	6447.1	149.48	2.32%	[0.10]	mg/L
Sn 189.927†	341.8	3.61	1.06%	[0.020]	mg/L
Ti 334.940†	25636.3	56.94	0.22%	[0.020]	mg/L
Tl 190.801†	62.5	6.04	9.67%	[0.010]	mg/L
V 290.880†	6504.1	103.62	1.59%	[0.020]	mg/L
Zn 206.200†	1723.4	10.59	0.61%	[0.020]	mg/L
K 766.490†	3579.4	30.24	0.84%	[1.00]	mg/L
Na 589.592†	23820.2	777.90	3.27%	[1.00]	mg/L
Sr 407.771†	58568.3	1836.43	3.14%	[0.020]	mg/L
Li 670.784†	3262.9	167.91	5.15%	[0.020]	mg/L

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=====
Sequence No.: 4                               uosampler Location: 4
Sample ID: S3                                 date Collected: 7/25/2012 9:01:51 AM
Analyst:                                       ana Type: Reprocessed on 7/25/2012 9:56:24 AM
Logged In Analyst (Original) : peicp2
Initial Sample Wt:                             nitial Sample Vol:
Dilution:                                       ample Prep Vol:
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Nebulizer Parameters: S3

Analyte	Back Pressure	Flow
All	175.0 kPa	0.50 L/min

Mean Data: S3

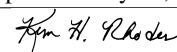
Analyte	Mean Corrected			Conc. Units
	Intensity	Std.Dev.	RSD	
Y 371.029	2858041.4	10321.49	0.36%	
YRADIAL	328523.4	7799.07	2.37%	
Ga 417.206	1497934.2	31680.58	2.11%	
GaRADIAL	87539.1	1761.86	2.01%	
Ag 328.068†	162378.6	4759.81	2.93%	[0.40] mg/L
Al 396.153†	73355.1	37.50	0.05%	[10.00] mg/L
As 188.979†	2026.8	45.37	2.24%	[0.40] mg/L
Ba 233.527†	225943.6	794.56	0.35%	[1.00] mg/L
Be 234.861†	82745.2	2167.26	2.62%	[0.05] mg/L
B 249.677†	73072.6	2677.70	3.66%	[0.50] mg/L
Ca 227.546†	5523.4	146.57	2.65%	[10.00] mg/L
Cd 228.802†	3860.2	157.44	4.08%	[0.05] mg/L
Co 228.616†	11860.7	83.45	0.70%	[0.20] mg/L
Cr 267.716†	84392.0	902.39	1.07%	[0.50] mg/L
Cu 327.393†	154805.6	4613.40	2.98%	[0.50] mg/L
Fe 239.562†	73787.3	410.93	0.56%	[4.00] mg/L
Mg 279.077†	42074.5	498.42	1.18%	[10.00] mg/L
Mn 257.610†	531855.7	1551.45	0.29%	[0.50] mg/L
Mo 202.031†	48937.6	307.88	0.63%	[1.00] mg/L
Ni 231.604†	48874.7	238.11	0.49%	[0.50] mg/L
Pb 220.353†	9511.4	53.16	0.56%	[0.50] mg/L
Sb 206.836†	7613.7	228.11	3.00%	[1.20] mg/L
Se 196.026†	1179.8	29.41	2.49%	[0.40] mg/L
Si 251.611†	341940.3	6866.41	2.01%	[5.00] mg/L
Sn 189.927†	17362.9	78.62	0.45%	[1.00] mg/L
Ti 334.940†	1306860.3	2452.56	0.19%	[1.00] mg/L
Tl 190.801†	2673.9	30.50	1.14%	[0.50] mg/L
V 290.880†	321194.3	3029.50	0.94%	[1.00] mg/L
Zn 206.200†	88611.8	1164.57	1.31%	[1.00] mg/L
K 766.490†	161659.5	1477.59	0.91%	[50.00] mg/L
Na 589.592†	1149975.6	36736.17	3.19%	[50.00] mg/L
Sr 407.771†	2827383.1	92661.94	3.28%	[1.00] mg/L
Li 670.784†	159136.6	623.57	0.39%	[1.00] mg/L

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=====
Sequence No.: 5                               uosampler Location: 5
Sample ID: S4                                 date Collected: 7/25/2012 9:07:49 AM
Analyst:                                       ana Type: Reprocessed on 7/25/2012 9:56:25 AM
Logged In Analyst (Original) : peicp2
Initial Sample Wt:                             nitial Sample Vol:
Dilution:                                       ample Prep Vol:
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Nebulizer Parameters: S4

Analyte	Back Pressure	Flow
All	175.0 kPa	0.50 L/min

Mean Data: S4

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Calib Conc. Units
Y 371.029	2805221.1	22131.62	0.79%	
YRADIAL	323191.6	2757.28	0.85%	
Ga 417.206	1467022.7	26398.37	1.80%	
GaRADIAL	87075.6	473.79	0.54%	
Ag 328.068†	327248.4	7526.29	2.30%	[0.80] mg/L
Al 396.153†	145895.9	319.80	0.22%	[20.00] mg/L
As 188.979†	4070.7	73.57	1.81%	[0.80] mg/L
Ba 233.527†	449223.0	2763.85	0.62%	[2.00] mg/L
Be 234.861†	166847.1	3969.60	2.38%	[0.10] mg/L
B 249.677†	148091.4	4107.46	2.77%	[1.00] mg/L
Ca 227.546†	11340.1	255.18	2.25%	[20.00] mg/L
Cd 228.802†	7786.4	272.98	3.51%	[0.10] mg/L
Co 228.616†	23601.0	315.92	1.34%	[0.40] mg/L
Cr 267.716†	168063.8	475.18	0.28%	[1.00] mg/L
Cu 327.393†	311319.6	6622.13	2.13%	[1.00] mg/L
Fe 239.562†	147788.1	1504.77	1.02%	[8.00] mg/L
Mg 279.077†	84927.8	1220.17	1.44%	[20.00] mg/L
Mn 257.610†	1059746.8	9147.94	0.86%	[1.00] mg/L
Mo 202.031†	97511.5	727.58	0.75%	[2.00] mg/L
Ni 231.604†	93817.9	566.75	0.60%	[1.00] mg/L
Pb 220.353†	18946.5	205.74	1.09%	[1.00] mg/L
Sb 206.836†	15320.6	330.26	2.16%	[2.40] mg/L
Se 196.026†	2375.4	60.82	2.56%	[0.80] mg/L
Si 251.611†	689199.7	9920.34	1.44%	[10.00] mg/L
Sn 189.927†	34651.1	385.47	1.11%	[2.00] mg/L
Ti 334.940†	2627546.9	15663.46	0.60%	[2.00] mg/L
Tl 190.801†	5222.1	68.71	1.32%	[1.00] mg/L
V 290.880†	640632.8	4243.11	0.66%	[2.00] mg/L
Zn 206.200†	176214.1	853.81	0.48%	[2.00] mg/L
K 766.490†	321855.5	3020.94	0.94%	[100.00] mg/L
Na 589.592†	2278509.8	44883.38	1.97%	[100.00] mg/L
Sr 407.771†	5683619.2	121193.58	2.13%	[2.00] mg/L
Li 670.784†	309329.4	1473.42	0.48%	[2.00] mg/L

Calibration Summary

Analyte	Stds.	Equation	Intercept	Slope	Curvature	Corr. Coef.	Reslope
Ag 328.068	4	Lin, Calc Int	-222.6	408800	0.00000	0.999993	
Al 396.153	4	Lin, Calc Int	61.1	7299	0.00000	0.999996	
As 188.979	3	Wt. Lin	-4.7	5086	0.00000	0.999999	
Ba 233.527	4	Lin, Calc Int	245.2	224700	0.00000	0.999996	
Be 234.861	4	Lin, Calc Int	-135.4	1667000	0.00000	0.999993	
B 249.677	3	Lin, Calc Int	-227.2	148000	0.00000	0.999978	
Ca 227.546	3	Lin, Calc Int	-27.0	565.7	0.00000	0.999910	
Cd 228.802	4	Lin, Calc Int	-2.0	77760	0.00000	0.999990	
Co 228.616	4	Lin, Calc Int	3.6	59050	0.00000	0.999997	
Cr 267.716	4	Lin, Calc Int	81.2	168100	0.00000	0.999998	
Cu 327.393	4	Lin, Calc Int	-164.6	311200	0.00000	0.999997	
Fe 239.562	4	Lin, Calc Int	-28.4	18470	0.00000	1.000000	
Mg 279.077	4	Lin, Calc Int	-57.9	4242	0.00000	0.999990	
Mn 257.610	4	Lin, Calc Int	400.0	1060000	0.00000	0.999998	
Mo 202.031	4	Lin, Calc Int	26.7	48780	0.00000	0.999998	
Ni 231.604	4	Lin, Calc Int	268.4	94280	0.00000	0.999796	
Pb 220.353	4	Lin, Calc Int	1.8	18960	0.00000	0.999997	
Sb 206.836	4	Lin, Calc Int	-8.4	6380	0.00000	0.999996	
Se 196.026	3	Wt. Lin	-1.6	2962	0.00000	0.999995	
Si 251.611	4	Lin, Calc Int	-404.2	68860	0.00000	0.999993	
Sn 189.927	4	Lin, Calc Int	0.2	17330	0.00000	0.999999	
Ti 334.940	4	Lin, Calc Int	-998.6	1313000	0.00000	0.999997	
Tl 190.801	3	Lin, Calc Int	16.1	5228	0.00000	0.999927	
V 290.880	4	Lin, Calc Int	223.6	320400	0.00000	0.999999	

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Zn 206.200	4	Lin, Calc Int	59.1	88170	0.00000	0.999996
K 766.490	4	Non Lin, Calc Int	249.5	3241	-0.24588	1.000000
Na 589.592	4	Non Lin, Calc Int	635.8	23200	-4.16684	1.000000
Sr 407.771	4	Lin, Calc Int	-916.8	2839000	0.00000	0.999997
Li 670.784	4	Lin, Calc Int	675.8	155200	0.00000	0.999904

Sequence No.: 6
 Sample ID: ICV 2nd Vendor
 Analyst:
 Logged In Analyst (Original) : peicp2
 Initial Sample Wt:
 Dilution:

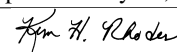
uSampler Location: 11
 Date Collected: 7/25/2012 9:13:50 AM
 Date Type: Reprocessed on 7/25/2012 9:56:27 AM
 Initial Sample Vol:
 Sample Prep Vol:

Nebulizer Parameters: ICV 2nd Vendor
 Analyte Back Pressure Flow
 All 176.0 kPa 0.50 L/min

Mean Data: ICV 2nd Vendor

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 371.029	2834003.9				19853.79	0.70%
YRADIAL	325444.3				4980.62	1.53%
Ga 417.206	1483443.2				28307.42	1.91%
GaRADIAL	87127.1				1584.74	1.82%
Ag 328.068†	159883.8	0.395 mg/L	0.0072	0.395 mg/L	0.0072	1.82%
QC value within limits for Ag 328.068		Recovery = 98.77%				
Al 396.153†	73779.6	10.0 mg/L	0.02	10.0 mg/L	0.02	0.20%
QC value within limits for Al 396.153		Recovery = 100.32%				
As 188.979†	2047.3	0.399 mg/L	0.0081	0.399 mg/L	0.0081	2.03%
QC value within limits for As 188.979		Recovery = 99.66%				
Ba 233.527†	228900.6	1.02 mg/L	0.006	1.02 mg/L	0.006	0.62%
QC value within limits for Ba 233.527		Recovery = 101.76%				
Be 234.861†	82528.3	0.0491 mg/L	0.00118	0.0491 mg/L	0.00118	2.41%
QC value within limits for Be 234.861		Recovery = 98.12%				
B 249.677†	73747.0	0.496 mg/L	0.0119	0.496 mg/L	0.0119	2.41%
QC value within limits for B 249.677		Recovery = 99.19%				
Ca 227.546†	5632.2	10.5 mg/L	0.21	10.5 mg/L	0.21	2.01%
QC value within limits for Ca 227.546		Recovery = 104.88%				
Cd 228.802†	3911.6	0.0490 mg/L	0.00187	0.0490 mg/L	0.00187	3.82%
QC value within limits for Cd 228.802		Recovery = 97.90%				
Co 228.616†	12011.3	0.202 mg/L	0.0024	0.202 mg/L	0.0024	1.18%
QC value within limits for Co 228.616		Recovery = 101.22%				
Cr 267.716†	84846.5	0.505 mg/L	0.0014	0.505 mg/L	0.0014	0.28%
QC value within limits for Cr 267.716		Recovery = 100.92%				
Cu 327.393†	159080.2	0.513 mg/L	0.0057	0.513 mg/L	0.0057	1.12%
QC value within limits for Cu 327.393		Recovery = 102.66%				
Fe 239.562†	75454.4	4.09 mg/L	0.020	4.09 mg/L	0.020	0.50%
QC value within limits for Fe 239.562		Recovery = 102.14%				
Mg 279.077†	42398.9	10.0 mg/L	0.03	10.0 mg/L	0.03	0.25%
QC value within limits for Mg 279.077		Recovery = 100.24%				
Mn 257.610†	540319.6	0.510 mg/L	0.0034	0.510 mg/L	0.0034	0.67%
QC value within limits for Mn 257.610		Recovery = 101.97%				
Mo 202.031†	47700.4	0.978 mg/L	0.0059	0.978 mg/L	0.0059	0.60%
QC value within limits for Mo 202.031		Recovery = 97.82%				
Ni 231.604†	50187.8	0.529 mg/L	0.0040	0.529 mg/L	0.0040	0.75%
QC value greater than the upper limit for Ni 231.604		Recovery = 105.82%				
Pb 220.353†	9678.9	0.512 mg/L	0.0036	0.512 mg/L	0.0036	0.70%
QC value within limits for Pb 220.353		Recovery = 102.38%				
Sb 206.836†	7885.7	1.24 mg/L	0.029	1.24 mg/L	0.029	2.34%
QC value within limits for Sb 206.836		Recovery = 103.01%				
Se 196.026†	1211.0	0.411 mg/L	0.0092	0.411 mg/L	0.0092	2.24%
QC value within limits for Se 196.026		Recovery = 102.69%				
Si 251.611†	341822.8	4.96 mg/L	0.071	4.96 mg/L	0.071	1.42%
QC value within limits for Si 251.611		Recovery = 99.18%				
Sn 189.927†	17853.9	1.03 mg/L	0.007	1.03 mg/L	0.007	0.70%
QC value within limits for Sn 189.927		Recovery = 103.00%				
Ti 334.940†	1327024.0	1.01 mg/L	0.001	1.01 mg/L	0.001	0.14%
QC value within limits for Ti 334.940		Recovery = 101.28%				
Tl 190.801†	2733.9	0.534 mg/L	0.0023	0.534 mg/L	0.0023	0.43%

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QC value greater than the upper limit for Tl 190.801 Recovery = 106.89%
V 290.880† 320273.0 0.998 mg/L 0.0037 0.998 mg/L 0.0037 0.37%
QC value within limits for V 290.880 Recovery = 99.79%
Zn 206.200† 89016.8 1.01 mg/L 0.009 1.01 mg/L 0.009 0.88%
QC value within limits for Zn 206.200 Recovery = 101.37%
K 766.490† 161443.8 49.9 mg/L 0.47 49.9 mg/L 0.47 0.94%
QC value within limits for K 766.490 Recovery = 99.76%
Na 589.592† 1149899.9 50.0 mg/L 1.04 50.0 mg/L 1.04 2.09%
QC value within limits for Na 589.592 Recovery = 99.99%
Sr 407.771† 2903397.9 1.02 mg/L 0.017 1.02 mg/L 0.017 1.68%
QC value within limits for Sr 407.771 Recovery = 102.26%
Li 670.784† 159186.8 1.02 mg/L 0.002 1.02 mg/L 0.002 0.16%
QC value within limits for Li 670.784 Recovery = 102.17%
QC Failed. Continue with analysis.

Sequence No.: 7

Sample ID: ICB

Analyst:

Logged In Analyst (Original) : peicp2

Initial Sample Wt:

Dilution:

Sampler Location: 1

Date Collected: 7/25/2012 9:19:51 AM

Data Type: Reprocessed on 7/25/2012 9:56:28 AM

Initial Sample Vol:

Sample Prep Vol:

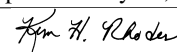
Nebulizer Parameters: ICB

Analyte	Back Pressure	Flow
All	176.0 kPa	0.50 L/min

Mean Data: ICB

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 371.029	2943747.2				24467.66	0.83%
YRADIAL	334333.4				6957.96	2.08%
Ga 417.206	1544428.2				24289.67	1.57%
GaRADIAL	89501.8				1744.20	1.95%
Ag 328.068†	-45.0	0.00044 mg/L	0.000467	0.00044 mg/L	0.000467	107.12%
QC value within limits for Ag 328.068						Not calculated
Al 396.153†	1.5	-0.00813 mg/L	0.000931	-0.00813 mg/L	0.000931	11.45%
QC value within limits for Al 396.153						Not calculated
As 188.979†	-1.6	0.00061 mg/L	0.000649	0.00061 mg/L	0.000649	106.44%
QC value within limits for As 188.979						Not calculated
Ba 233.527†	-10.2	-0.00114 mg/L	0.000098	-0.00114 mg/L	0.000098	8.63%
QC value within limits for Ba 233.527						Not calculated
Be 234.861†	-39.8	0.00006 mg/L	0.000009	0.00006 mg/L	0.000009	15.59%
QC value within limits for Be 234.861						Not calculated
B 249.677†	296.7	0.00354 mg/L	0.000271	0.00354 mg/L	0.000271	7.66%
QC value within limits for B 249.677						Not calculated
Ca 227.546†	-2.3	0.0412 mg/L	0.00769	0.0412 mg/L	0.00769	18.66%
QC value within limits for Ca 227.546						Not calculated
Cd 228.802†	4.5	0.00008 mg/L	0.000068	0.00008 mg/L	0.000068	85.94%
QC value within limits for Cd 228.802						Not calculated
Co 228.616†	-8.9	-0.00021 mg/L	0.000115	-0.00021 mg/L	0.000115	53.81%
QC value within limits for Co 228.616						Not calculated
Cr 267.716†	11.5	-0.00041 mg/L	0.000061	-0.00041 mg/L	0.000061	14.76%
QC value within limits for Cr 267.716						Not calculated
Cu 327.393†	-5.2	0.00051 mg/L	0.000262	0.00051 mg/L	0.000262	50.87%
QC value within limits for Cu 327.393						Not calculated
Fe 239.562†	1.3	0.00161 mg/L	0.000524	0.00161 mg/L	0.000524	32.54%
QC value within limits for Fe 239.562						Not calculated
Mg 279.077†	-9.7	0.0114 mg/L	0.00230	0.0114 mg/L	0.00230	20.25%
QC value within limits for Mg 279.077						Not calculated
Mn 257.610†	-32.2	-0.00041 mg/L	0.000022	-0.00041 mg/L	0.000022	5.50%
QC value within limits for Mn 257.610						Not calculated
Mo 202.031†	8.7	-0.00037 mg/L	0.000263	-0.00037 mg/L	0.000263	71.14%
QC value within limits for Mo 202.031						Not calculated
Ni 231.604†	-14.6	-0.00300 mg/L	0.000106	-0.00300 mg/L	0.000106	3.53%
QC value within limits for Ni 231.604						Not calculated
Pb 220.353†	1.4	-0.00002 mg/L	0.001071	-0.00002 mg/L	0.001071	>999.9%
QC value within limits for Pb 220.353						Not calculated
Sb 206.836†	-2.3	0.00096 mg/L	0.000190	0.00096 mg/L	0.000190	19.73%
QC value within limits for Sb 206.836						Not calculated

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Se	196.026†	5.0	0.00222 mg/L	0.003761	0.00222 mg/L	0.003761	169.36%
	QC value within limits for Se	196.026	Recovery =	Not calculated			
Si	251.611†	-146.1	0.00375 mg/L	0.000704	0.00375 mg/L	0.000704	18.76%
	QC value within limits for Si	251.611	Recovery =	Not calculated			
Sn	189.927†	34.3	0.00197 mg/L	0.000245	0.00197 mg/L	0.000245	12.45%
	QC value within limits for Sn	189.927	Recovery =	Not calculated			
Ti	334.940†	-28.6	0.00075 mg/L	0.000016	0.00075 mg/L	0.000016	2.20%
	QC value within limits for Ti	334.940	Recovery =	Not calculated			
Tl	190.801†	2.3	-0.00263 mg/L	0.000686	-0.00263 mg/L	0.000686	26.08%
	QC value within limits for Tl	190.801	Recovery =	Not calculated			
V	290.880†	368.5	0.00045 mg/L	0.000221	0.00045 mg/L	0.000221	48.99%
	QC value within limits for V	290.880	Recovery =	Not calculated			
Zn	206.200†	-54.1	-0.00129 mg/L	0.000044	-0.00129 mg/L	0.000044	3.42%
	QC value within limits for Zn	206.200	Recovery =	Not calculated			
K	766.490†	90.1	-0.0492 mg/L	0.02917	-0.0492 mg/L	0.02917	59.31%
	QC value within limits for K	766.490	Recovery =	Not calculated			
Na	589.592†	384.6	-0.0108 mg/L	0.00682	-0.0108 mg/L	0.00682	63.00%
	QC value within limits for Na	589.592	Recovery =	Not calculated			
Sr	407.771†	83.0	0.00035 mg/L	0.000091	0.00035 mg/L	0.000091	25.96%
	QC value within limits for Sr	407.771	Recovery =	Not calculated			
Li	670.784†	205.5	-0.00303 mg/L	0.000892	-0.00303 mg/L	0.000892	29.44%
	QC value within limits for Li	670.784	Recovery =	Not calculated			
All analyte(s) passed QC.							

Sequence No.: 8
Sample ID: IC5A
Analyst:
Logged In Analyst (Original) : peicp2
Initial Sample Wt:
Dilution:

Sampler Location: 12
Date Collected: 7/25/2012 9:26:44 AM
Data Type: Reprocessed on 7/25/2012 9:56:29 AM
Initial Sample Vol:
Sample Prep Vol:

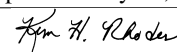
Nebulizer Parameters: IC5A

Analyte	Back Pressure	Flow
All	176.0 kPa	0.50 L/min

Mean Data: IC5A

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 371.029	2675401.5				24366.17	0.91%
YRADIAL	320204.5				1953.33	0.61%
Ga 417.206	1450603.1				39476.64	2.72%
GaRADIAL	86815.9				396.12	0.46%
Ag 328.068†	-15955.6	-0.00005 mg/L	0.001124	-0.00005 mg/L	0.001124	>999.9%
	QC value within limits for Ag	328.068	Recovery =	Not calculated		
Al 396.153†	1820210.6	249 mg/L	1.2	249 mg/L	1.2	0.48%
	QC value within limits for Al	396.153	Recovery =	99.75%		
As 188.979†	-35.7	-0.00060 mg/L	0.002207	-0.00060 mg/L	0.002207	366.76%
	QC value within limits for As	188.979	Recovery =	Not calculated		
Ba 233.527†	1004.4	-0.00213 mg/L	0.000179	-0.00213 mg/L	0.000179	8.38%
	QC value within limits for Ba	233.527	Recovery =	Not calculated		
Be 234.861†	34915.3	-0.00070 mg/L	0.000101	-0.00070 mg/L	0.000101	14.41%
	QC value within limits for Be	234.861	Recovery =	Not calculated		
B 249.677†	8500.7	0.0189 mg/L	0.00092	0.0189 mg/L	0.00092	4.89%
	QC value within limits for B	249.677	Recovery =	Not calculated		
Ca 227.546†	147245.3	263 mg/L	6.6	263 mg/L	6.6	2.53%
	QC value within limits for Ca	227.546	Recovery =	105.03%		
Cd 228.802†	-11.8	-0.00020 mg/L	0.000079	-0.00020 mg/L	0.000079	39.39%
	QC value within limits for Cd	228.802	Recovery =	Not calculated		
Co 228.616†	20.1	-0.00210 mg/L	0.000121	-0.00210 mg/L	0.000121	5.77%
	QC value within limits for Co	228.616	Recovery =	Not calculated		
Cr 267.716†	-37.4	-0.00186 mg/L	0.000292	-0.00186 mg/L	0.000292	15.64%
	QC value within limits for Cr	267.716	Recovery =	Not calculated		
Cu 327.393†	-2157.5	-0.00187 mg/L	0.000189	-0.00187 mg/L	0.000189	10.12%
	QC value within limits for Cu	327.393	Recovery =	Not calculated		
Fe 239.562†	1722197.1	93.2 mg/L	0.28	93.2 mg/L	0.28	0.30%
	QC value within limits for Fe	239.562	Recovery =	93.23%		
Mg 279.077†	1052177.5	248 mg/L	0.2	248 mg/L	0.2	0.09%
	QC value within limits for Mg	279.077	Recovery =	99.20%		
Mn 257.610†	-2320.0	-0.00234 mg/L	0.000699	-0.00234 mg/L	0.000699	29.87%

Approved: July 26, 2012



Mo	202.031†	-116.8	0.00163 mg/L	0.000461	0.00163 mg/L	0.000461	28.23%
QC value within limits for Mo 202.031 Recovery = Not calculated							
Ni	231.604†	54.1	-0.00227 mg/L	0.000320	-0.00227 mg/L	0.000320	14.12%
QC value within limits for Ni 231.604 Recovery = Not calculated							
Pb	220.353†	-772.1	-0.00093 mg/L	0.003657	-0.00093 mg/L	0.003657	393.37%
QC value within limits for Pb 220.353 Recovery = Not calculated							
Sb	206.836†	-25.4	0.00077 mg/L	0.000469	0.00077 mg/L	0.000469	61.10%
QC value within limits for Sb 206.836 Recovery = Not calculated							
Se	196.026†	-70.4	0.00042 mg/L	0.002512	0.00042 mg/L	0.002512	595.54%
QC value within limits for Se 196.026 Recovery = Not calculated							
Si	251.611†	15454.6	0.230 mg/L	0.0059	0.230 mg/L	0.0059	2.55%
QC value within limits for Si 251.611 Recovery = Not calculated							
Sn	189.927†	-425.5	-0.0246 mg/L	0.00055	-0.0246 mg/L	0.00055	2.24%
QC value within limits for Sn 189.927 Recovery = Not calculated							
Ti	334.940†	-44467.3	0.00594 mg/L	0.002549	0.00594 mg/L	0.002549	42.88%
QC value within limits for Ti 334.940 Recovery = Not calculated							
Tl	190.801†	-65.1	-0.00915 mg/L	0.004387	-0.00915 mg/L	0.004387	47.95%
QC value within limits for Tl 190.801 Recovery = Not calculated							
V	290.880†	5056.1	-0.00367 mg/L	0.003197	-0.00367 mg/L	0.003197	87.12%
QC value within limits for V 290.880 Recovery = Not calculated							
Zn	206.200†	445.0	0.00259 mg/L	0.000501	0.00259 mg/L	0.000501	19.30%
QC value within limits for Zn 206.200 Recovery = Not calculated							
K	766.490†	-77.2	-0.101 mg/L	0.0202	-0.101 mg/L	0.0202	20.07%
QC value within limits for K 766.490 Recovery = Not calculated							
Na	589.592†	226.6	-0.0176 mg/L	0.00518	-0.0176 mg/L	0.00518	29.36%
QC value within limits for Na 589.592 Recovery = Not calculated							
Sr	407.771†	2280.7	-0.00460 mg/L	0.000197	-0.00460 mg/L	0.000197	4.27%
QC value within limits for Sr 407.771 Recovery = Not calculated							
Li	670.784†	427.5	-0.00160 mg/L	0.000437	-0.00160 mg/L	0.000437	27.33%
QC value within limits for Li 670.784 Recovery = Not calculated							

All analyte(s) passed QC.

Sequence No.: 9

Sample ID: ICSAB

Analyst:

Logged In Analyst (Original) : peicp2

Initial Sample Wt:

Dilution:

u&osampler Location: 13

Date Collected: 7/25/2012 9:32:41 AM

Date Type: Reprocessed on 7/25/2012 9:56:31 AM

Initial Sample Vol:

Sample Prep Vol:

Nebulizer Parameters: ICSAB

Analyte	Back Pressure	Flow
All	176.0 kPa	0.50 L/min

Mean Data: ICSAB

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 371.029	2648757.0				17215.84	0.65%
YRADIAL	318861.3				4027.11	1.26%
Ga 417.206	1445201.5				20366.80	1.41%
GaRADIAL	86454.3				609.37	0.70%
Ag 328.068†	191169.8	0.507 mg/L	0.0062	0.507 mg/L	0.0062	1.23%
QC value within limits for Ag 328.068 Recovery = 101.37%						
Al 396.153†	1817967.0	249 mg/L	1.9	249 mg/L	1.9	0.76%
QC value within limits for Al 396.153 Recovery = 99.63%						
As 188.979†	1170.0	0.236 mg/L	0.0027	0.236 mg/L	0.0027	1.15%
QC value within limits for As 188.979 Recovery = 94.56%						
Ba 233.527†	56282.4	0.244 mg/L	0.0027	0.244 mg/L	0.0027	1.12%
QC value within limits for Ba 233.527 Recovery = 97.54%						
Be 234.861†	443619.7	0.245 mg/L	0.0030	0.245 mg/L	0.0030	1.24%
QC value within limits for Be 234.861 Recovery = 97.84%						
B 249.677†	5039.7	-0.0173 mg/L	0.00176	-0.0173 mg/L	0.00176	10.18%
QC value within limits for B 249.677 Recovery = Not calculated						
Ca 227.546†	145762.6	260 mg/L	5.4	260 mg/L	5.4	2.07%
QC value within limits for Ca 227.546 Recovery = 104.12%						
Cd 228.802†	36490.2	0.469 mg/L	0.0029	0.469 mg/L	0.0029	0.61%
QC value within limits for Cd 228.802 Recovery = 93.78%						
Co 228.616†	13781.0	0.231 mg/L	0.0034	0.231 mg/L	0.0034	1.48%
QC value within limits for Co 228.616 Recovery = 92.34%						

Approved: July 26, 2012

Ann H. Rhodes

Cr 267.716†	40423.8	0.239 mg/L	0.0019	0.239 mg/L	0.0019	0.78%
QC value within limits for Cr 267.716		Recovery = 95.60%				
Cu 327.393†	75491.4	0.248 mg/L	0.0024	0.248 mg/L	0.0024	0.98%
QC value within limits for Cu 327.393		Recovery = 99.05%				
Fe 239.562†	1710207.1	92.6 mg/L	0.56	92.6 mg/L	0.56	0.60%
QC value within limits for Fe 239.562		Recovery = 92.58%				
Mg 279.077†	1043853.4	246 mg/L	1.6	246 mg/L	1.6	0.63%
QC value within limits for Mg 279.077		Recovery = 98.41%				
Mn 257.610†	255477.0	0.241 mg/L	0.0028	0.241 mg/L	0.0028	1.17%
QC value within limits for Mn 257.610		Recovery = 96.38%				
Mo 202.031†	-125.8	0.00159 mg/L	0.000484	0.00159 mg/L	0.000484	30.50%
QC value within limits for Mo 202.031		Recovery = Not calculated				
Ni 231.604†	45075.3	0.475 mg/L	0.0059	0.475 mg/L	0.0059	1.24%
QC value within limits for Ni 231.604		Recovery = 94.97%				
Pb 220.353†	8324.6	0.478 mg/L	0.0031	0.478 mg/L	0.0031	0.65%
QC value within limits for Pb 220.353		Recovery = 95.70%				
Sb 206.836†	3092.2	0.488 mg/L	0.0067	0.488 mg/L	0.0067	1.38%
QC value within limits for Sb 206.836		Recovery = 97.59%				
Se 196.026†	633.7	0.238 mg/L	0.0039	0.238 mg/L	0.0039	1.66%
QC value within limits for Se 196.026		Recovery = 95.27%				
Si 251.611†	-1051.5	-0.00937 mg/L	0.000682	-0.00937 mg/L	0.000682	7.28%
QC value within limits for Si 251.611		Recovery = Not calculated				
Sn 189.927†	-439.5	-0.0254 mg/L	0.00135	-0.0254 mg/L	0.00135	5.31%
QC value within limits for Sn 189.927		Recovery = Not calculated				
Ti 334.940†	-44575.7	0.00540 mg/L	0.002678	0.00540 mg/L	0.002678	49.62%
QC value within limits for Ti 334.940		Recovery = Not calculated				
Tl 190.801†	2485.3	0.479 mg/L	0.0027	0.479 mg/L	0.0027	0.57%
QC value within limits for Tl 190.801		Recovery = 95.78%				
V 290.880†	84883.1	0.246 mg/L	0.0034	0.246 mg/L	0.0034	1.40%
QC value within limits for V 290.880		Recovery = 98.24%				
Zn 206.200†	40710.4	0.462 mg/L	0.0033	0.462 mg/L	0.0033	0.70%
QC value within limits for Zn 206.200		Recovery = 92.32%				
K 766.490†	16199.0	4.92 mg/L	0.076	4.92 mg/L	0.076	1.54%
QC value within limits for K 766.490		Recovery = 98.37%				
Na 589.592†	119215.9	5.12 mg/L	0.029	5.12 mg/L	0.029	0.56%
QC value within limits for Na 589.592		Recovery = 102.34%				
Sr 407.771†	2465.4	-0.00448 mg/L	0.000091	-0.00448 mg/L	0.000091	2.04%
QC value within limits for Sr 407.771		Recovery = Not calculated				
Li 670.784†	344.2	-0.00214 mg/L	0.000450	-0.00214 mg/L	0.000450	21.08%
QC value within limits for Li 670.784		Recovery = Not calculated				

All analyte(s) passed QC.

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Sequence No.: 10                               ukosampler Location: 6
Sample ID: CCV                                 ahe Collected: 7/25/2012 9:38:38 AM
Analyst:                                       aha Type: Reprocessed on 7/25/2012 9:56:32 AM
Logged In Analyst (Original) : peicp2
Initial Sample Wt:                             nitial Sample Vol:
Dilution:                                     aample Prep Vol:
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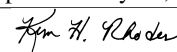
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Nebulizer Parameters: CCV
Analyte      Back Pressure  Flow
All          176.0 kPa    0.50 L/min
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Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 371.029	2867717.9				29249.57	1.02%
YRADIAL	328853.9				2849.01	0.87%
Ga 417.206	1500485.6				31199.54	2.08%
GaRADIAL	88050.7				1027.35	1.17%
Ag 328.068†	162781.5	0.402 mg/L	0.0117	0.402 mg/L	0.0117	2.91%
QC value within limits for Ag 328.068		Recovery = 100.54%				
Al 396.153†	72594.5	9.87 mg/L	0.027	9.87 mg/L	0.027	0.28%
QC value within limits for Al 396.153		Recovery = 98.69%				
As 188.979†	1986.0	0.386 mg/L	0.0085	0.386 mg/L	0.0085	2.19%
QC value within limits for As 188.979		Recovery = 96.61%				
Ba 233.527†	223136.3	0.992 mg/L	0.0055	0.992 mg/L	0.0055	0.55%
QC value within limits for Ba 233.527		Recovery = 99.20%				
Be 234.861†	82386.4	0.0490 mg/L	0.00159	0.0490 mg/L	0.00159	3.25%

Approved: July 26, 2012



QC value within limits for Be	234.861	Recovery = 98.01%				
B 249.677†	72483.9	0.488 mg/L	0.0177	0.488 mg/L	0.0177	3.63%
QC value within limits for B	249.677	Recovery = 97.51%				
Ca 227.546†	5547.5	10.3 mg/L	0.24	10.3 mg/L	0.24	2.29%
QC value within limits for Ca	227.546	Recovery = 103.21%				
Cd 228.802†	3827.8	0.0479 mg/L	0.00200	0.0479 mg/L	0.00200	4.17%
QC value within limits for Cd	228.802	Recovery = 95.83%				
Co 228.616†	11729.9	0.198 mg/L	0.0034	0.198 mg/L	0.0034	1.73%
QC value within limits for Co	228.616	Recovery = 98.89%				
Cr 267.716†	83375.8	0.496 mg/L	0.0049	0.496 mg/L	0.0049	0.99%
QC value within limits for Cr	267.716	Recovery = 99.17%				
Cu 327.393†	156517.6	0.505 mg/L	0.0135	0.505 mg/L	0.0135	2.68%
QC value within limits for Cu	327.393	Recovery = 101.01%				
Fe 239.562†	73587.5	3.98 mg/L	0.036	3.98 mg/L	0.036	0.90%
QC value within limits for Fe	239.562	Recovery = 99.61%				
Mg 279.077†	41992.7	9.93 mg/L	0.092	9.93 mg/L	0.092	0.93%
QC value within limits for Mg	279.077	Recovery = 99.28%				
Mn 257.610†	527383.2	0.498 mg/L	0.0039	0.498 mg/L	0.0039	0.78%
QC value within limits for Mn	257.610	Recovery = 99.53%				
Mo 202.031†	48707.4	0.999 mg/L	0.0078	0.999 mg/L	0.0078	0.78%
QC value within limits for Mo	202.031	Recovery = 99.88%				
Ni 231.604†	48383.8	0.510 mg/L	0.0082	0.510 mg/L	0.0082	1.61%
QC value within limits for Ni	231.604	Recovery = 102.00%				
Pb 220.353†	9394.0	0.497 mg/L	0.0064	0.497 mg/L	0.0064	1.29%
QC value within limits for Pb	220.353	Recovery = 99.37%				
Sb 206.836†	7574.6	1.19 mg/L	0.032	1.19 mg/L	0.032	2.69%
QC value within limits for Sb	206.836	Recovery = 98.95%				
Se 196.026†	1171.2	0.397 mg/L	0.0096	0.397 mg/L	0.0096	2.41%
QC value within limits for Se	196.026	Recovery = 99.32%				
Si 251.611†	341637.4	4.96 mg/L	0.119	4.96 mg/L	0.119	2.41%
QC value within limits for Si	251.611	Recovery = 99.12%				
Sn 189.927†	17114.1	0.987 mg/L	0.0146	0.987 mg/L	0.0146	1.48%
QC value within limits for Sn	189.927	Recovery = 98.74%				
Ti 334.940†	1302292.4	0.994 mg/L	0.0040	0.994 mg/L	0.0040	0.40%
QC value within limits for Ti	334.940	Recovery = 99.39%				
Tl 190.801†	2654.0	0.519 mg/L	0.0016	0.519 mg/L	0.0016	0.32%
QC value within limits for Tl	190.801	Recovery = 103.79%				
V 290.880†	318562.5	0.993 mg/L	0.0056	0.993 mg/L	0.0056	0.56%
QC value within limits for V	290.880	Recovery = 99.26%				
Zn 206.200†	86677.4	0.987 mg/L	0.0138	0.987 mg/L	0.0138	1.40%
QC value within limits for Zn	206.200	Recovery = 98.71%				
K 766.490†	159632.8	49.3 mg/L	0.35	49.3 mg/L	0.35	0.71%
QC value within limits for K	766.490	Recovery = 98.64%				
Na 589.592†	1147445.4	49.9 mg/L	1.32	49.9 mg/L	1.32	2.64%
QC value within limits for Na	589.592	Recovery = 99.78%				
Sr 407.771†	2823989.2	0.995 mg/L	0.0135	0.995 mg/L	0.0135	1.36%
QC value within limits for Sr	407.771	Recovery = 99.46%				
Li 670.784†	157720.0	1.01 mg/L	0.012	1.01 mg/L	0.012	1.17%
QC value within limits for Li	670.784	Recovery = 101.22%				

All analyte(s) passed QC.

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Sequence No.: 11                               autosampler Location: 1
Sample ID: CCB                                 date Collected: 7/25/2012 9:44:37 AM
Analyst:                                       data Type: Reprocessed on 7/25/2012 9:56:33 AM
Logged In Analyst (Original) : peicp2
Initial Sample Wt:                             initial Sample Vol:
Dilution:                                     sample Prep Vol:
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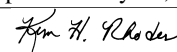
Nebulizer Parameters: CCB

Analyte	Back Pressure	Flow
All	176.0 kPa	0.50 L/min

Mean Data: CCB

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 371.029	2919572.9				11883.02	0.41%
YRADIAL	329985.5				6758.25	2.05%
Ga 417.206	1533786.6				33006.69	2.15%
GaRADIAL	88731.3				1410.35	1.59%

Approved: July 26, 2012



Ag	328.068†	-74.4	0.00037 mg/L	0.000371	0.00037 mg/L	0.000371	101.27%
	QC value within limits for Ag	328.068	Recovery = Not calculated				
Al	396.153†	5.4	-0.00760 mg/L	0.001393	-0.00760 mg/L	0.001393	18.33%
	QC value within limits for Al	396.153	Recovery = Not calculated				
As	188.979†	-5.7	-0.00019 mg/L	0.001308	-0.00019 mg/L	0.001308	682.61%
	QC value within limits for As	188.979	Recovery = Not calculated				
Ba	233.527†	-10.3	-0.00114 mg/L	0.000053	-0.00114 mg/L	0.000053	4.64%
	QC value within limits for Ba	233.527	Recovery = Not calculated				
Be	234.861†	-33.2	0.00006 mg/L	0.000016	0.00006 mg/L	0.000016	26.23%
	QC value within limits for Be	234.861	Recovery = Not calculated				
B	249.677†	232.9	0.00311 mg/L	0.000101	0.00311 mg/L	0.000101	3.25%
	QC value within limits for B	249.677	Recovery = Not calculated				
Ca	227.546†	1.6	0.0483 mg/L	0.01313	0.0483 mg/L	0.01313	27.15%
	QC value within limits for Ca	227.546	Recovery = Not calculated				
Cd	228.802†	5.0	0.00009 mg/L	0.000082	0.00009 mg/L	0.000082	91.74%
	QC value within limits for Cd	228.802	Recovery = Not calculated				
Co	228.616†	-16.4	-0.00034 mg/L	0.000176	-0.00034 mg/L	0.000176	51.69%
	QC value within limits for Co	228.616	Recovery = Not calculated				
Cr	267.716†	-8.5	-0.00053 mg/L	0.000041	-0.00053 mg/L	0.000041	7.68%
	QC value within limits for Cr	267.716	Recovery = Not calculated				
Cu	327.393†	9.7	0.00056 mg/L	0.000391	0.00056 mg/L	0.000391	69.57%
	QC value within limits for Cu	327.393	Recovery = Not calculated				
Fe	239.562†	125.4	0.00832 mg/L	0.000350	0.00832 mg/L	0.000350	4.20%
	QC value within limits for Fe	239.562	Recovery = Not calculated				
Mg	279.077†	-1.0	0.0134 mg/L	0.00201	0.0134 mg/L	0.00201	14.96%
	QC value within limits for Mg	279.077	Recovery = Not calculated				
Mn	257.610†	41.0	-0.00034 mg/L	0.000005	-0.00034 mg/L	0.000005	1.42%
	QC value within limits for Mn	257.610	Recovery = Not calculated				
Mo	202.031†	10.1	-0.00034 mg/L	0.000087	-0.00034 mg/L	0.000087	25.39%
	QC value within limits for Mo	202.031	Recovery = Not calculated				
Ni	231.604†	4.4	-0.00280 mg/L	0.000063	-0.00280 mg/L	0.000063	2.25%
	QC value within limits for Ni	231.604	Recovery = Not calculated				
Pb	220.353†	-12.7	-0.00077 mg/L	0.000374	-0.00077 mg/L	0.000374	48.64%
	QC value within limits for Pb	220.353	Recovery = Not calculated				
Sb	206.836†	-5.0	0.00054 mg/L	0.000837	0.00054 mg/L	0.000837	155.14%
	QC value within limits for Sb	206.836	Recovery = Not calculated				
Se	196.026†	-0.8	0.00026 mg/L	0.001493	0.00026 mg/L	0.001493	582.79%
	QC value within limits for Se	196.026	Recovery = Not calculated				
Si	251.611†	-332.8	0.00104 mg/L	0.000395	0.00104 mg/L	0.000395	37.91%
	QC value within limits for Si	251.611	Recovery = Not calculated				
Sn	189.927†	10.7	0.00061 mg/L	0.000423	0.00061 mg/L	0.000423	69.23%
	QC value within limits for Sn	189.927	Recovery = Not calculated				
Ti	334.940†	-168.4	0.00064 mg/L	0.000078	0.00064 mg/L	0.000078	12.21%
	QC value within limits for Ti	334.940	Recovery = Not calculated				
Tl	190.801†	14.4	-0.00032 mg/L	0.001053	-0.00032 mg/L	0.001053	330.93%
	QC value within limits for Tl	190.801	Recovery = Not calculated				
V	290.880†	292.4	0.00021 mg/L	0.001261	0.00021 mg/L	0.001261	590.93%
	QC value within limits for V	290.880	Recovery = Not calculated				
Zn	206.200†	-63.9	-0.00140 mg/L	0.000062	-0.00140 mg/L	0.000062	4.43%
	QC value within limits for Zn	206.200	Recovery = Not calculated				
K	766.490†	12.7	-0.0731 mg/L	0.01903	-0.0731 mg/L	0.01903	26.06%
	QC value within limits for K	766.490	Recovery = Not calculated				
Na	589.592†	207.0	-0.0185 mg/L	0.00839	-0.0185 mg/L	0.00839	45.36%
	QC value within limits for Na	589.592	Recovery = Not calculated				
Sr	407.771†	57.4	0.00034 mg/L	0.000069	0.00034 mg/L	0.000069	20.22%
	QC value within limits for Sr	407.771	Recovery = Not calculated				
Li	670.784†	89.5	-0.00378 mg/L	0.001061	-0.00378 mg/L	0.001061	28.07%
	QC value within limits for Li	670.784	Recovery = Not calculated				
All analyte(s) passed QC.							

Approved: July 26, 2012

Ann H. Rhodes

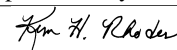
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Analysis Begun

Start Time: 7/25/2012 9:57:17 AM lbsma On Time: 7/25/2012 6:47:04 AM
Logged In Analyst: peicp2 echnique: ICP Continuous
Spectrometer Model: Optima 4300 DV, S/N 077N40114 Autosampler Model: Cetac

Sample Information File: C:\pe\peicp2\Sample Information\WEDNESDAY1.sif
Batch ID:
Results Data Set: 072512HR2
Results Library: C:\pe\peicp2\Results\Results.mdb

=====
Sequence No.: 1 Autosampler Location: 14
Sample ID: PBW A1 WG403936-02 Date Collected: 7/25/2012 9:57:19 AM
Analyst: KHR Date Type: Original
Initial Sample Wt: Initial Sample Vol:
Dilution: Sample Prep Vol:

Approved: July 26, 2012



Nebulizer Parameters: PBW A1 WG403936-02

Analyte	Back Pressure	Flow
All	176.0 kPa	0.50 L/min

Mean Data: PBW A1 WG403936-02

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 371.029	2938386.9				9172.40	0.31%
YRADIAL	331046.5				6012.36	1.82%
Ga 417.206	1616291.1				13575.40	0.84%
GaRADIAL	89834.1				1953.82	2.17%
Ag 328.068†	-190.3	0.00008 mg/L	0.000187	0.00008 mg/L	0.000187	222.09%
Al 396.153†	-81.8	-0.0195 mg/L	0.00109	-0.0195 mg/L	0.00109	5.59%
As 188.979†	2.3	0.00138 mg/L	0.001377	0.00138 mg/L	0.001377	100.00%
Ba 233.527†	1.7	-0.00108 mg/L	0.000042	-0.00108 mg/L	0.000042	3.83%
Be 234.861†	99.3	0.00014 mg/L	0.000022	0.00014 mg/L	0.000022	15.73%
B 249.677†	-85.5	0.00096 mg/L	0.000004	0.00096 mg/L	0.000004	0.45%
Ca 227.546†	-3.4	0.0395 mg/L	0.01359	0.0395 mg/L	0.01359	34.42%
Cd 228.802†	3.8	0.00007 mg/L	0.000019	0.00007 mg/L	0.000019	29.50%
Co 228.616†	-20.1	-0.00040 mg/L	0.000053	-0.00040 mg/L	0.000053	13.06%
Cr 267.716†	-9.6	-0.00054 mg/L	0.000155	-0.00054 mg/L	0.000155	28.68%
Cu 327.393†	-92.1	0.00024 mg/L	0.000472	0.00024 mg/L	0.000472	200.15%
Fe 239.562†	60.2	0.00480 mg/L	0.000455	0.00480 mg/L	0.000455	9.48%
Mg 279.077†	-4.9	0.0125 mg/L	0.00195	0.0125 mg/L	0.00195	15.64%
Mn 257.610†	-29.3	-0.00040 mg/L	0.000016	-0.00040 mg/L	0.000016	3.84%
Mo 202.031†	3.3	-0.00048 mg/L	0.000306	-0.00048 mg/L	0.000306	63.85%
Ni 231.604†	5.5	-0.00279 mg/L	0.000206	-0.00279 mg/L	0.000206	7.39%
Pb 220.353†	-7.8	-0.00051 mg/L	0.000935	-0.00051 mg/L	0.000935	183.27%
Sb 206.836†	-1.3	0.00112 mg/L	0.001288	0.00112 mg/L	0.001288	114.98%
Se 196.026†	-1.6	0.00000 mg/L	0.002128	0.00000 mg/L	0.002128	>999.9%
Si 251.611†	-187.6	0.00315 mg/L	0.000073	0.00315 mg/L	0.000073	2.33%
Sn 189.927†	2.5	0.00014 mg/L	0.000424	0.00014 mg/L	0.000424	311.60%
Ti 334.940†	-80.1	0.00071 mg/L	0.000019	0.00071 mg/L	0.000019	2.67%
Tl 190.801†	7.8	-0.00157 mg/L	0.001106	-0.00157 mg/L	0.001106	70.45%
V 290.880†	735.2	0.00160 mg/L	0.000677	0.00160 mg/L	0.000677	42.44%
Zn 206.200†	58.5	-0.00001 mg/L	0.000072	-0.00001 mg/L	0.000072	617.39%
K 766.490†	32.7	-0.0669 mg/L	0.01564	-0.0669 mg/L	0.01564	23.39%
Na 589.592†	-78.6	-0.0308 mg/L	0.02874	-0.0308 mg/L	0.02874	93.31%
Sr 407.771†	-123.0	0.00028 mg/L	0.000242	0.00028 mg/L	0.000242	86.77%
Li 670.784†	44.6	-0.00407 mg/L	0.000324	-0.00407 mg/L	0.000324	7.97%

Sequence No.: 2

Sample ID: LCSW A1 WG403936-03

Analyst: KHR

Initial Sample Wt:

Dilution:

u&osampler Location: 15

a&e Collected: 7/25/2012 10:04:13 AM

a&a Type: Original

n&ital Sample Vol:

a&ple Prep Vol:

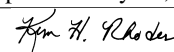
Nebulizer Parameters: LCSW A1 WG403936-03

Analyte	Back Pressure	Flow
All	177.0 kPa	0.50 L/min

Mean Data: LCSW A1 WG403936-03

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 371.029	2857060.4				14219.62	0.50%
YRADIAL	340058.9				3203.46	0.94%
Ga 417.206	1532775.1				35156.78	2.29%
GaRADIAL	89683.1				976.24	1.09%
Ag 328.068†	81074.3	0.201 mg/L	0.0060	0.201 mg/L	0.0060	2.97%
Al 396.153†	35695.5	4.85 mg/L	0.026	4.85 mg/L	0.026	0.54%
As 188.979†	966.6	0.189 mg/L	0.0028	0.189 mg/L	0.0028	1.50%
Ba 233.527†	112253.3	0.499 mg/L	0.0058	0.499 mg/L	0.0058	1.17%
Be 234.861†	39783.3	0.0237 mg/L	0.00095	0.0237 mg/L	0.00095	4.01%
B 249.677†	141391.3	0.955 mg/L	0.0379	0.955 mg/L	0.0379	3.97%
Ca 227.546†	2695.3	5.04 mg/L	0.113	5.04 mg/L	0.113	2.24%
Cd 228.802†	1867.7	0.0234 mg/L	0.00100	0.0234 mg/L	0.00100	4.29%

Approved: July 26, 2012



Co 228.616†	5918.5	0.0998 mg/L	0.00119	0.0998 mg/L	0.00119	1.19%
Cr 267.716†	41587.2	0.247 mg/L	0.0033	0.247 mg/L	0.0033	1.34%
Cu 327.393†	77539.3	0.250 mg/L	0.0078	0.250 mg/L	0.0078	3.11%
Fe 239.562†	35173.7	1.91 mg/L	0.017	1.91 mg/L	0.017	0.91%
Mg 279.077†	20313.9	4.81 mg/L	0.045	4.81 mg/L	0.045	0.94%
Mn 257.610†	268026.6	0.253 mg/L	0.0027	0.253 mg/L	0.0027	1.05%
Mo 202.031†	24096.7	0.494 mg/L	0.0065	0.494 mg/L	0.0065	1.32%
Ni 231.604†	23601.0	0.247 mg/L	0.0041	0.247 mg/L	0.0041	1.66%
Pb 220.353†	4744.6	0.251 mg/L	0.0024	0.251 mg/L	0.0024	0.96%
Sb 206.836†	3711.3	0.582 mg/L	0.0150	0.582 mg/L	0.0150	2.57%
Se 196.026†	589.2	0.200 mg/L	0.0030	0.200 mg/L	0.0030	1.49%
Si 251.611†	173834.2	2.52 mg/L	0.066	2.52 mg/L	0.066	2.62%
Sn 189.927†	8529.2	0.492 mg/L	0.0049	0.492 mg/L	0.0049	1.00%
Ti 334.940†	640092.4	0.489 mg/L	0.0010	0.489 mg/L	0.0010	0.20%
Tl 190.801†	1378.3	0.268 mg/L	0.0025	0.268 mg/L	0.0025	0.92%
V 290.880†	161673.1	0.503 mg/L	0.0063	0.503 mg/L	0.0063	1.25%
Zn 206.200†	43434.3	0.494 mg/L	0.0050	0.494 mg/L	0.0050	1.01%
K 766.490†	79121.8	24.4 mg/L	0.07	24.4 mg/L	0.07	0.29%
Na 589.592†	586364.7	25.4 mg/L	0.21	25.4 mg/L	0.21	0.83%
Sr 407.771†	1392066.0	0.490 mg/L	0.0030	0.490 mg/L	0.0030	0.62%
Li 670.784†	81234.2	0.519 mg/L	0.0055	0.519 mg/L	0.0055	1.05%

Sequence No.: 3

Sample ID: L1207056701 WG403936-01

Analyst: KHR

Initial Sample Wt:

Dilution:

u&osampler Location: 16

a&e Collected: 7/25/2012 10:10:12 AM

a&a Type: Original

nitial Sample Vol:

a&ple Prep Vol:

Nebulizer Parameters: L1207056701 WG403936-01

Analyte	Back Pressure	Flow
All	177.0 kPa	0.50 L/min

Mean Data: L1207056701 WG403936-01

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	2780411.7						18970.99	0.68%
YRADIAL	324919.2						965.60	0.30%
Ga 417.206	1561927.9						59721.78	3.82%
GarADIAL	90134.1						1028.90	1.14%
Ag 328.068†	560.5	0.00230 mg/L		0.000515	0.00230 mg/L		0.000515	22.45%
Al 396.153†	-96.8	-0.0216 mg/L		0.00587	-0.0216 mg/L		0.00587	27.13%
As 188.979†	88.7	0.0186 mg/L		0.00090	0.0186 mg/L		0.00090	4.82%
Ba 233.527†	56230.1	0.249 mg/L		0.0040	0.249 mg/L		0.0040	1.59%
Be 234.861†	629.9	0.00023 mg/L		0.000072	0.00023 mg/L		0.000072	31.33%
B 249.677†	3936.6	0.0277 mg/L		0.00321	0.0277 mg/L		0.00321	11.58%
Ca 227.546†	39221.9	69.4 mg/L		3.79	69.4 mg/L		3.79	5.46%
Cd 228.802†	18.9	0.00017 mg/L		0.000138	0.00017 mg/L		0.000138	79.31%
Co 228.616†	-11.3	-0.00034 mg/L		0.000327	-0.00034 mg/L		0.000327	96.86%
Cr 267.716†	129.1	0.00025 mg/L		0.000116	0.00025 mg/L		0.000116	46.33%
Cu 327.393†	1058.6	0.00397 mg/L		0.000068	0.00397 mg/L		0.000068	1.71%
Fe 239.562†	18679.7	1.01 mg/L		0.010	1.01 mg/L		0.010	0.98%
Mg 279.077†	69856.3	16.5 mg/L		0.14	16.5 mg/L		0.14	0.85%
Mn 257.610†	55407.2	0.0519 mg/L		0.00076	0.0519 mg/L		0.00076	1.46%
Mo 202.031†	118.7	0.00195 mg/L		0.000076	0.00195 mg/L		0.000076	3.89%
Ni 231.604†	50.4	-0.00231 mg/L		0.000088	-0.00231 mg/L		0.000088	3.80%
Pb 220.353†	-3.1	0.00017 mg/L		0.001415	0.00017 mg/L		0.001415	844.59%
Sb 206.836†	-12.0	-0.00051 mg/L		0.000870	-0.00051 mg/L		0.000870	169.07%
Se 196.026†	1.5	0.00117 mg/L		0.001127	0.00117 mg/L		0.001127	96.12%
Si 251.611†	532519.1	7.74 mg/L		0.209	7.74 mg/L		0.209	2.70%
Sn 189.927†	-331.5	-0.0191 mg/L		0.00028	-0.0191 mg/L		0.00028	1.44%
Ti 334.940†	-13473.5	0.00091 mg/L		0.000743	0.00091 mg/L		0.000743	82.03%
Tl 190.801†	-23.0	-0.00762 mg/L		0.002511	-0.00762 mg/L		0.002511	32.94%
V 290.880†	1803.9	0.00436 mg/L		0.001641	0.00436 mg/L		0.001641	37.66%
Zn 206.200†	2302.4	0.0254 mg/L		0.00038	0.0254 mg/L		0.00038	1.50%
K 766.490†	4366.0	1.26 mg/L		0.038	1.26 mg/L		0.038	2.99%
Na 589.592†	182329.7	7.84 mg/L		0.020	7.84 mg/L		0.020	0.26%
Sr 407.771†	580205.8	0.203 mg/L		0.0025	0.203 mg/L		0.0025	1.24%
Li 670.784†	1687.3	0.00652 mg/L		0.000507	0.00652 mg/L		0.000507	7.78%

Approved: July 26, 2012

Ann H. Rhodes

Sequence No.: 4
 Sample ID: L1207056701S WG403936-04
 Analyst: KHR
 Initial Sample Wt:
 Dilution:

u\osampler Location: 17
 a\ne Collected: 7/25/2012 10:16:11 AM
 a\ne Type: Original
 n\itial Sample Vol:
 a\mple Prep Vol:

Nebulizer Parameters: L1207056701S WG403936-04

Analyte Back Pressure Flow
 All 177.0 kPa 0.50 L/min

Mean Data: L1207056701S WG403936-04

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 371.029	2802056.3				21663.63	0.77%
YRADIAL	333561.7				3017.65	0.90%
Ga 417.206	1563865.3				42499.74	2.72%
GaRADIAL	90971.5				959.69	1.05%
Ag 328.068†	78192.9	0.194 mg/L	0.0071	0.194 mg/L	0.0071	3.69%
Al 396.153†	35841.3	4.87 mg/L	0.019	4.87 mg/L	0.019	0.40%
As 188.979†	1054.0	0.206 mg/L	0.0059	0.206 mg/L	0.0059	2.87%
Ba 233.527†	165154.0	0.734 mg/L	0.0028	0.734 mg/L	0.0028	0.38%
Be 234.861†	40431.7	0.0239 mg/L	0.00090	0.0239 mg/L	0.00090	3.77%
B 249.677†	142989.1	0.966 mg/L	0.0396	0.966 mg/L	0.0396	4.10%
Ca 227.546†	42168.3	74.8 mg/L	2.41	74.8 mg/L	2.41	3.21%
Cd 228.802†	1784.0	0.0222 mg/L	0.00114	0.0222 mg/L	0.00114	5.11%
Co 228.616†	5654.7	0.0952 mg/L	0.00153	0.0952 mg/L	0.00153	1.60%
Cr 267.716†	41339.2	0.246 mg/L	0.0029	0.246 mg/L	0.0029	1.16%
Cu 327.393†	74484.6	0.241 mg/L	0.0078	0.241 mg/L	0.0078	3.23%
Fe 239.562†	53996.2	2.92 mg/L	0.016	2.92 mg/L	0.016	0.54%
Mg 279.077†	88561.0	20.9 mg/L	0.16	20.9 mg/L	0.16	0.79%
Mn 257.610†	316716.8	0.299 mg/L	0.0016	0.299 mg/L	0.0016	0.55%
Mo 202.031†	24667.7	0.506 mg/L	0.0054	0.506 mg/L	0.0054	1.06%
Ni 231.604†	23145.5	0.242 mg/L	0.0027	0.242 mg/L	0.0027	1.12%
Pb 220.353†	4669.1	0.247 mg/L	0.0030	0.247 mg/L	0.0030	1.20%
Sb 206.836†	3624.7	0.569 mg/L	0.0173	0.569 mg/L	0.0173	3.04%
Se 196.026†	569.8	0.194 mg/L	0.0085	0.194 mg/L	0.0085	4.40%
Si 251.611†	697777.8	10.1 mg/L	0.28	10.1 mg/L	0.28	2.77%
Sn 189.927†	8389.1	0.484 mg/L	0.0058	0.484 mg/L	0.0058	1.19%
Ti 334.940†	636950.9	0.497 mg/L	0.0016	0.497 mg/L	0.0016	0.33%
Tl 190.801†	1304.9	0.254 mg/L	0.0025	0.254 mg/L	0.0025	1.00%
V 290.880†	161242.5	0.502 mg/L	0.0058	0.502 mg/L	0.0058	1.16%
Zn 206.200†	44203.7	0.503 mg/L	0.0043	0.503 mg/L	0.0043	0.86%
K 766.490†	83512.1	25.7 mg/L	0.19	25.7 mg/L	0.19	0.74%
Na 589.592†	762732.7	33.1 mg/L	0.89	33.1 mg/L	0.89	2.68%
Sr 407.771†	1964740.6	0.691 mg/L	0.0096	0.691 mg/L	0.0096	1.40%
Li 670.784†	82313.9	0.526 mg/L	0.0035	0.526 mg/L	0.0035	0.67%

Sequence No.: 5
 Sample ID: L1207056701SD WG403936-05
 Analyst: KHR
 Initial Sample Wt:
 Dilution:

u\osampler Location: 18
 a\ne Collected: 7/25/2012 10:22:09 AM
 a\ne Type: Original
 n\itial Sample Vol:
 a\mple Prep Vol:

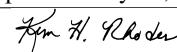
Nebulizer Parameters: L1207056701SD WG403936-05

Analyte Back Pressure Flow
 All 177.0 kPa 0.50 L/min

Mean Data: L1207056701SD WG403936-05

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 371.029	2795124.9				10336.63	0.37%
YRADIAL	335653.5				2104.25	0.63%
Ga 417.206	1543255.9				28661.42	1.86%
GaRADIAL	91699.7				403.13	0.44%
Ag 328.068†	78896.5	0.196 mg/L	0.0050	0.196 mg/L	0.0050	2.55%
Al 396.153†	35616.6	4.84 mg/L	0.013	4.84 mg/L	0.013	0.26%

Approved: July 26, 2012



As 188.979†	1055.0	0.206 mg/L	0.0029	0.206 mg/L	0.0029	1.41%
Ba 233.527†	163060.8	0.725 mg/L	0.0033	0.725 mg/L	0.0033	0.45%
Be 234.861†	40737.1	0.0241 mg/L	0.00075	0.0241 mg/L	0.00075	3.14%
B 249.677†	143691.3	0.970 mg/L	0.0296	0.970 mg/L	0.0296	3.05%
Ca 227.546†	40742.1	72.3 mg/L	2.36	72.3 mg/L	2.36	3.27%
Cd 228.802†	1811.5	0.0226 mg/L	0.00092	0.0226 mg/L	0.00092	4.08%
Co 228.616†	5693.9	0.0959 mg/L	0.00090	0.0959 mg/L	0.00090	0.94%
Cr 267.716†	41135.0	0.244 mg/L	0.0015	0.244 mg/L	0.0015	0.62%
Cu 327.393†	75239.9	0.243 mg/L	0.0053	0.243 mg/L	0.0053	2.17%
Fe 239.562†	52905.7	2.86 mg/L	0.011	2.86 mg/L	0.011	0.39%
Mg 279.077†	85119.3	20.1 mg/L	0.06	20.1 mg/L	0.06	0.28%
Mn 257.610†	315009.7	0.297 mg/L	0.0011	0.297 mg/L	0.0011	0.36%
Mo 202.031†	24743.2	0.507 mg/L	0.0008	0.507 mg/L	0.0008	0.16%
Ni 231.604†	23268.5	0.244 mg/L	0.0011	0.244 mg/L	0.0011	0.46%
Pb 220.353†	4672.9	0.248 mg/L	0.0009	0.248 mg/L	0.0009	0.38%
Sb 206.836†	3661.5	0.575 mg/L	0.0141	0.575 mg/L	0.0141	2.46%
Se 196.026†	575.8	0.196 mg/L	0.0062	0.196 mg/L	0.0062	3.19%
Si 251.611†	681513.4	9.90 mg/L	0.200	9.90 mg/L	0.200	2.03%
Sn 189.927†	8476.4	0.489 mg/L	0.0020	0.489 mg/L	0.0020	0.41%
Ti 334.940†	637447.9	0.497 mg/L	0.0023	0.497 mg/L	0.0023	0.46%
Tl 190.801†	1303.9	0.253 mg/L	0.0016	0.253 mg/L	0.0016	0.64%
V 290.880†	161292.5	0.502 mg/L	0.0071	0.502 mg/L	0.0071	1.42%
Zn 206.200†	43778.4	0.498 mg/L	0.0067	0.498 mg/L	0.0067	1.34%
K 766.490†	83403.7	25.7 mg/L	0.32	25.7 mg/L	0.32	1.24%
Na 589.592†	758169.0	32.9 mg/L	0.34	32.9 mg/L	0.34	1.04%
Sr 407.771†	1965652.0	0.691 mg/L	0.0084	0.691 mg/L	0.0084	1.22%
Li 670.784†	82394.2	0.527 mg/L	0.0065	0.527 mg/L	0.0065	1.23%

Sequence No.: 6
Sample ID: L1207056801
Analyst: KHR
Initial Sample Wt:
Dilution:

u\osampler Location: 19
ame Collected: 7/25/2012 10:28:07 AM
a\sa Type: Original
nitial Sample Vol:
ample Prep Vol:

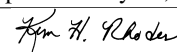
Nebulizer Parameters: L1207056801

Analyte	Back Pressure	Flow
All	178.0 kPa	0.50 L/min

Mean Data: L1207056801

Analyte	Mean Corrected		Calib.		Sample		RSD
	Intensity	Conc.	Units	Std.Dev.	Conc.	Units	
Y 371.029	2810359.1					5571.68	0.20%
YRADIAL	327035.2					4203.95	1.29%
Ga 417.206	1550617.0					31325.51	2.02%
GaRADIAL	90280.4					1219.54	1.35%
Ag 328.068†	525.8	0.00190 mg/L	0.000223	0.00190 mg/L	0.000223	11.74%	
Al 396.153†	-68.3	-0.0180 mg/L	0.00746	-0.0180 mg/L	0.00746	41.49%	
As 188.979†	125.2	0.0256 mg/L	0.00216	0.0256 mg/L	0.00216	8.43%	
Ba 233.527†	54427.5	0.241 mg/L	0.0008	0.241 mg/L	0.0008	0.32%	
Be 234.861†	387.5	0.00021 mg/L	0.000043	0.00021 mg/L	0.000043	20.83%	
B 249.677†	12010.0	0.0825 mg/L	0.00214	0.0825 mg/L	0.00214	2.60%	
Ca 227.546†	22892.5	40.5 mg/L	0.65	40.5 mg/L	0.65	1.60%	
Cd 228.802†	16.3	0.00010 mg/L	0.000165	0.00010 mg/L	0.000165	158.22%	
Co 228.616†	-14.6	-0.00038 mg/L	0.000247	-0.00038 mg/L	0.000247	64.67%	
Cr 267.716†	172.7	0.00053 mg/L	0.000144	0.00053 mg/L	0.000144	27.22%	
Cu 327.393†	1999.5	0.00697 mg/L	0.000270	0.00697 mg/L	0.000270	3.88%	
Fe 239.562†	8622.4	0.468 mg/L	0.0083	0.468 mg/L	0.0083	1.78%	
Mg 279.077†	84491.0	19.9 mg/L	0.34	19.9 mg/L	0.34	1.72%	
Mn 257.610†	18047.6	0.0167 mg/L	0.00019	0.0167 mg/L	0.00019	1.13%	
Mo 202.031†	244.3	0.00449 mg/L	0.000123	0.00449 mg/L	0.000123	2.75%	
Ni 231.604†	63.8	-0.00217 mg/L	0.000223	-0.00217 mg/L	0.000223	10.31%	
Pb 220.353†	8.9	0.00064 mg/L	0.000216	0.00064 mg/L	0.000216	33.84%	
Sb 206.836†	-6.0	0.00042 mg/L	0.000591	0.00042 mg/L	0.000591	142.33%	
Se 196.026†	-2.0	-0.00007 mg/L	0.002032	-0.00007 mg/L	0.002032	>999.9%	
Si 251.611†	461950.3	6.71 mg/L	0.083	6.71 mg/L	0.083	1.23%	
Sn 189.927†	-285.2	-0.0165 mg/L	0.00043	-0.0165 mg/L	0.00043	2.59%	
Ti 334.940†	-7708.5	0.00097 mg/L	0.000409	0.00097 mg/L	0.000409	42.32%	
Tl 190.801†	-15.1	-0.00604 mg/L	0.002644	-0.00604 mg/L	0.002644	43.81%	
V 290.880†	1633.7	0.00381 mg/L	0.000396	0.00381 mg/L	0.000396	10.41%	

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Method: 200.7-6010 PE-ICP2.1

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Date: 7/25/2012 10:42:41 AM

Zn 206.200†	1729.3	0.0189 mg/L	0.00023	0.0189 mg/L	0.00023	1.22%
K 766.490†	9513.8	2.83 mg/L	0.059	2.83 mg/L	0.059	2.07%
Na 589.592†	598857.4	25.9 mg/L	0.04	25.9 mg/L	0.04	0.16%
Sr 407.771†	1872856.5	0.659 mg/L	0.0066	0.659 mg/L	0.0066	1.01%
Li 670.784†	2993.4	0.0149 mg/L	0.00023	0.0149 mg/L	0.00023	1.52%

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Sequence No.: 7	u\osampler Location: 20
Sample ID: L1207056901	ame Collected: 7/25/2012 10:34:08 AM
Analyst: KHR	ana Type: Original
Initial Sample Wt:	nitial Sample Vol:
Dilution:	ample Prep Vol:

Nebulizer Parameters: L1207056901

Analyte	Back Pressure	Flow
All	178.0 kPa	0.50 L/min

Mean Data: L1207056901

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 371.029	2792125.7				23327.92	0.84%
YRADIAL	323821.2				494.22	0.15%
Ga 417.206	1564903.7				47835.00	3.06%
GaRADIAL	89930.8				245.68	0.27%
Ag 328.068†	377.8	0.00188 mg/L	0.000512	0.00188 mg/L	0.000512	27.28%
Al 396.153†	-138.1	-0.0274 mg/L	0.01000	-0.0274 mg/L	0.01000	36.44%
As 188.979†	151.3	0.0310 mg/L	0.00230	0.0310 mg/L	0.00230	7.41%
Ba 233.527†	42328.2	0.187 mg/L	0.0023	0.187 mg/L	0.0023	1.21%
Be 234.861†	718.2	0.00022 mg/L	0.000030	0.00022 mg/L	0.000030	13.74%
B 249.677†	10004.3	0.0686 mg/L	0.00273	0.0686 mg/L	0.00273	3.98%
Ca 227.546†	30499.5	54.0 mg/L	2.04	54.0 mg/L	2.04	3.78%
Cd 228.802†	22.3	0.00015 mg/L	0.000200	0.00015 mg/L	0.000200	129.40%
Co 228.616†	-22.3	-0.00051 mg/L	0.000075	-0.00051 mg/L	0.000075	14.74%
Cr 267.716†	194.3	0.00063 mg/L	0.000088	0.00063 mg/L	0.000088	14.05%
Cu 327.393†	631.9	0.00262 mg/L	0.000370	0.00262 mg/L	0.000370	14.14%
Fe 239.562†	23726.2	1.29 mg/L	0.019	1.29 mg/L	0.019	1.49%
Mg 279.077†	102364.8	24.1 mg/L	0.31	24.1 mg/L	0.31	1.27%
Mn 257.610†	25115.9	0.0233 mg/L	0.00036	0.0233 mg/L	0.00036	1.53%
Mo 202.031†	228.5	0.00421 mg/L	0.000083	0.00421 mg/L	0.000083	1.98%
Ni 231.604†	64.8	-0.00216 mg/L	0.000481	-0.00216 mg/L	0.000481	22.31%
Pb 220.353†	3.1	0.00037 mg/L	0.001019	0.00037 mg/L	0.001019	276.50%
Sb 206.836†	-5.9	0.00047 mg/L	0.000672	0.00047 mg/L	0.000672	142.46%
Se 196.026†	3.2	0.00183 mg/L	0.002804	0.00183 mg/L	0.002804	153.54%
Si 251.611†	524096.8	7.62 mg/L	0.194	7.62 mg/L	0.194	2.55%
Sn 189.927†	-315.6	-0.0182 mg/L	0.00057	-0.0182 mg/L	0.00057	3.15%
Ti 334.940†	-10606.3	0.00078 mg/L	0.000758	0.00078 mg/L	0.000758	97.59%
Tl 190.801†	-17.8	-0.00658 mg/L	0.001871	-0.00658 mg/L	0.001871	28.43%
V 290.880†	1732.0	0.00390 mg/L	0.002092	0.00390 mg/L	0.002092	53.70%
Zn 206.200†	1349.3	0.0146 mg/L	0.00022	0.0146 mg/L	0.00022	1.52%
K 766.490†	9169.4	2.73 mg/L	0.041	2.73 mg/L	0.041	1.51%
Na 589.592†	508717.8	22.0 mg/L	0.09	22.0 mg/L	0.09	0.41%
Sr 407.771†	1800881.7	0.633 mg/L	0.0033	0.633 mg/L	0.0033	0.52%
Li 670.784†	3167.0	0.0161 mg/L	0.00065	0.0161 mg/L	0.00065	4.02%

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Sequence No.: 8	u\osampler Location: 21
Sample ID: L1207057001	ame Collected: 7/25/2012 10:40:11 AM
Analyst: KHR	ana Type: Original
Initial Sample Wt:	nitial Sample Vol:
Dilution:	ample Prep Vol:

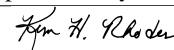
Nebulizer Parameters: L1207057001

Analyte	Back Pressure	Flow
All	178.0 kPa	0.50 L/min

Mean Data: L1207057001

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
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Approved: July 26, 2012



Y 371.029	2800329.9					33907.18	1.21%
YRADIAL	328945.3					2544.76	0.77%
Ga 417.206	1567522.7					37387.84	2.39%
GaRADIAL	90959.4					352.79	0.39%
Ag 328.068†	699.4	0.00249 mg/L	0.000664	0.00249 mg/L	0.000664	26.68%	
Al 396.153†	-113.0	-0.0239 mg/L	0.00603	-0.0239 mg/L	0.00603	25.20%	
As 188.979†	147.7	0.0301 mg/L	0.00020	0.0301 mg/L	0.00020	0.67%	
Ba 233.527†	53968.5	0.239 mg/L	0.0038	0.239 mg/L	0.0038	1.57%	
Be 234.861†	466.8	0.00020 mg/L	0.000051	0.00020 mg/L	0.000051	24.83%	
B 249.677†	4988.0	0.0349 mg/L	0.00154	0.0349 mg/L	0.00154	4.41%	
Ca 227.546†	36969.1	65.4 mg/L	2.58	65.4 mg/L	2.58	3.95%	
Cd 228.802†	22.7	0.00016 mg/L	0.000184	0.00016 mg/L	0.000184	111.68%	
Co 228.616†	-27.5	-0.00060 mg/L	0.000194	-0.00060 mg/L	0.000194	32.31%	
Cr 267.716†	124.5	0.00024 mg/L	0.000080	0.00024 mg/L	0.000080	33.13%	
Cu 327.393†	45039.9	0.145 mg/L	0.0050	0.145 mg/L	0.0050	3.43%	
Fe 239.562†	12721.4	0.690 mg/L	0.0183	0.690 mg/L	0.0183	2.65%	
Mg 279.077†	71007.5	16.8 mg/L	0.26	16.8 mg/L	0.26	1.55%	
Mn 257.610†	38294.5	0.0358 mg/L	0.00072	0.0358 mg/L	0.00072	2.02%	
Mo 202.031†	125.7	0.00207 mg/L	0.000380	0.00207 mg/L	0.000380	18.34%	
Ni 231.604†	204.7	-0.00067 mg/L	0.000366	-0.00067 mg/L	0.000366	54.43%	
Pb 220.353†	149.8	0.00810 mg/L	0.000329	0.00810 mg/L	0.000329	4.07%	
Sb 206.836†	-5.5	0.00051 mg/L	0.001544	0.00051 mg/L	0.001544	301.65%	
Se 196.026†	8.6	0.00356 mg/L	0.001557	0.00356 mg/L	0.001557	43.79%	
Si 251.611†	506131.5	7.36 mg/L	0.152	7.36 mg/L	0.152	2.06%	
Sn 189.927†	-296.3	-0.0171 mg/L	0.00069	-0.0171 mg/L	0.00069	4.06%	
Ti 334.940†	-12419.6	0.00111 mg/L	0.000744	0.00111 mg/L	0.000744	66.91%	
Tl 190.801†	-25.5	-0.00808 mg/L	0.001677	-0.00808 mg/L	0.001677	20.76%	
V 290.880†	1737.9	0.00418 mg/L	0.002316	0.00418 mg/L	0.002316	55.34%	
Zn 206.200†	13775.7	0.156 mg/L	0.0025	0.156 mg/L	0.0025	1.63%	
K 766.490†	5056.3	1.47 mg/L	0.044	1.47 mg/L	0.044	3.01%	
Na 589.592†	216243.2	9.31 mg/L	0.057	9.31 mg/L	0.057	0.62%	
Sr 407.771†	672259.1	0.236 mg/L	0.0021	0.236 mg/L	0.0021	0.89%	
Li 670.784†	1867.8	0.00768 mg/L	0.000856	0.00768 mg/L	0.000856	11.14%	

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Sequence No.: 9 **u&osampler Location:** 22
Sample ID: L1207057001PS WG404393-01 **Time Collected:** 7/25/2012 10:46:11 AM
Analyst: KHR **Time Type:** Original
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**
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Nebulizer Parameters: L1207057001PS WG404393-01
Analyte **Back Pressure** **Flow**
All 178.0 kPa 0.50 L/min
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Mean Data: L1207057001PS WG404393-01

Analyte	Mean Corrected			Std.Dev.	Sample		
	Intensity	Conc.	Units		Conc.	Units	RSD
Y 371.029	2783106.7					22779.17	0.82%
YRADIAL	332936.8					3832.85	1.15%
Ga 417.206	1514196.1					34506.40	2.28%
GaRADIAL	90780.5					721.33	0.79%
Ag 328.068†	80442.9	0.199	mg/L	0.0053	0.199	mg/L	0.0053
Al 396.153†	36056.3	4.90	mg/L	0.012	4.90	mg/L	0.012
As 188.979†	1122.4	0.219	mg/L	0.0063	0.219	mg/L	0.0063
Ba 233.527†	158740.0	0.705	mg/L	0.0065	0.705	mg/L	0.0065
Be 234.861†	41324.2	0.0245	mg/L	0.00084	0.0245	mg/L	0.00084
B 249.677†	147631.0	0.997	mg/L	0.0226	0.997	mg/L	0.0226
Ca 227.546†	38456.7	68.3	mg/L	1.93	68.3	mg/L	1.93
Cd 228.802†	1837.7	0.0228	mg/L	0.00116	0.0228	mg/L	0.00116
Co 228.616†	5712.7	0.0962	mg/L	0.00022	0.0962	mg/L	0.00022
Cr 267.716†	41479.9	0.246	mg/L	0.0027	0.246	mg/L	0.0027
Cu 327.393†	116924.4	0.377	mg/L	0.0098	0.377	mg/L	0.0098
Fe 239.562†	47331.8	2.56	mg/L	0.014	2.56	mg/L	0.014
Mg 279.077†	83981.4	19.8	mg/L	0.11	19.8	mg/L	0.11
Mn 257.610†	299307.9	0.282	mg/L	0.0022	0.282	mg/L	0.0022
Mo 202.031†	24717.6	0.507	mg/L	0.0057	0.507	mg/L	0.0057
Ni 231.604†	23483.5	0.246	mg/L	0.0022	0.246	mg/L	0.0022
Pb 220.353†	4804.5	0.254	mg/L	0.0018	0.254	mg/L	0.0018
Sb 206.836†	3755.8	0.589	mg/L	0.0186	0.589	mg/L	0.0186

Approved: July 26, 2012
<i>Kenn H. Rhodes</i>

Se 196.026†	591.8	0.201 mg/L	0.0103	0.201 mg/L	0.0103	5.10%
Si 251.611†	650815.7	9.45 mg/L	0.109	9.45 mg/L	0.109	1.15%
Sn 189.927†	-284.1	-0.0164 mg/L	0.00067	-0.0164 mg/L	0.00067	4.07%
Ti 334.940†	639402.8	0.498 mg/L	0.0026	0.498 mg/L	0.0026	0.53%
Tl 190.801†	1318.9	0.256 mg/L	0.0053	0.256 mg/L	0.0053	2.06%
V 290.880†	161272.9	0.502 mg/L	0.0043	0.502 mg/L	0.0043	0.85%
Zn 206.200†	54470.9	0.619 mg/L	0.0008	0.619 mg/L	0.0008	0.13%
K 766.490†	84162.9	25.9 mg/L	0.09	25.9 mg/L	0.09	0.35%
Na 589.592†	780023.1	33.8 mg/L	0.74	33.8 mg/L	0.74	2.20%
Sr 407.771†	2023380.7	0.711 mg/L	0.0214	0.711 mg/L	0.0214	3.01%
Li 670.784†	82092.9	0.525 mg/L	0.0032	0.525 mg/L	0.0032	0.62%
Plasma has been extinguished						

Approved: July 26, 2012

Ann H. Rhodes

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Analysis Begun

Start Time: 7/25/2012 11:09:33 AM lbsma On Time: 7/25/2012 10:54:24 AM
 Logged In Analyst: peicp2 eThnique: ICP Continuous
 Spectrometer Model: Optima 4300 DV, S/N 077N40114 Autosampler Model: Cetac

Sample Information File: C:\pe\peicp2\Sample Information\WEDNESDAY1.sif
 Batch ID:
 Results Data Set: 072512HR2
 Results Library: C:\pe\peicp2\Results\Results.mdb

=====
 Sequence No.: 1 uosampler Location: 6
 Sample ID: CCV aE Collected: 7/25/2012 11:09:35 AM
 Analyst: aDa Type: Original
 Initial Sample Wt: nitial Sample Vol:
 Dilution: aMple Prep Vol:

Nebulizer Parameters: CCV

Analyte	Back Pressure	Flow
All	177.0 kPa	0.50 L/min

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 371.029	2821953.4				32066.30	1.14%
YRADIAL	339474.5				11144.84	3.28%
Ga 417.206	1515511.1				36497.09	2.41%
GaRADIAL	91033.9				3145.32	3.46%
Ag 328.068†	157284.8	0.389 mg/L	0.0091	0.389 mg/L	0.0091	2.34%
QC value within limits for Ag 328.068			Recovery = 97.14%			
Al 396.153†	69563.0	9.45 mg/L	0.272	9.45 mg/L	0.272	2.88%
QC value within limits for Al 396.153			Recovery = 94.53%			
As 188.979†	1968.2	0.383 mg/L	0.0066	0.383 mg/L	0.0066	1.71%
QC value within limits for As 188.979			Recovery = 95.73%			
Ba 233.527†	219845.2	0.977 mg/L	0.0130	0.977 mg/L	0.0130	1.33%
QC value within limits for Ba 233.527			Recovery = 97.74%			
Be 234.861†	79364.8	0.0473 mg/L	0.00114	0.0473 mg/L	0.00114	2.41%
QC value within limits for Be 234.861			Recovery = 94.50%			
B 249.677†	68657.8	0.462 mg/L	0.0110	0.462 mg/L	0.0110	2.39%
QC value within limits for B 249.677			Recovery = 92.37%			
Ca 227.546†	5448.1	10.1 mg/L	0.29	10.1 mg/L	0.29	2.84%
QC value within limits for Ca 227.546			Recovery = 101.36%			
Cd 228.802†	3706.2	0.0464 mg/L	0.00184	0.0464 mg/L	0.00184	3.97%
QC value within limits for Cd 228.802			Recovery = 92.73%			
Co 228.616†	11640.5	0.196 mg/L	0.0032	0.196 mg/L	0.0032	1.63%
QC value within limits for Co 228.616			Recovery = 98.14%			
Cr 267.716†	81426.7	0.484 mg/L	0.0041	0.484 mg/L	0.0041	0.84%
QC value within limits for Cr 267.716			Recovery = 96.85%			
Cu 327.393†	152287.8	0.491 mg/L	0.0133	0.491 mg/L	0.0133	2.71%
QC value within limits for Cu 327.393			Recovery = 98.28%			
Fe 239.562†	68875.4	3.73 mg/L	0.073	3.73 mg/L	0.073	1.97%
QC value within limits for Fe 239.562			Recovery = 93.23%			
Mg 279.077†	39298.7	9.29 mg/L	0.141	9.29 mg/L	0.141	1.52%
QC value within limits for Mg 279.077			Recovery = 92.94%			
Mn 257.610†	521908.1	0.492 mg/L	0.0075	0.492 mg/L	0.0075	1.53%
QC value within limits for Mn 257.610			Recovery = 98.49%			
Mo 202.031†	48744.1	1.000 mg/L	0.0110	1.000 mg/L	0.0110	1.10%
QC value within limits for Mo 202.031			Recovery = 99.96%			
Ni 231.604†	47939.1	0.505 mg/L	0.0079	0.505 mg/L	0.0079	1.56%
QC value within limits for Ni 231.604			Recovery = 101.06%			
Pb 220.353†	9390.2	0.497 mg/L	0.0071	0.497 mg/L	0.0071	1.42%
QC value within limits for Pb 220.353			Recovery = 99.32%			
Sb 206.836†	7462.4	1.17 mg/L	0.031	1.17 mg/L	0.031	2.62%
QC value within limits for Sb 206.836			Recovery = 97.49%			
Se 196.026†	1163.5	0.395 mg/L	0.0132	0.395 mg/L	0.0132	3.34%
QC value within limits for Se 196.026			Recovery = 98.66%			
Si 251.611†	330970.0	4.80 mg/L	0.099	4.80 mg/L	0.099	2.05%

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QC value within limits for Si	251.611	Recovery = 96.02%				
Sn 189.927†	17042.8	0.983 mg/L	0.0168	0.983 mg/L	0.0168	1.70%
QC value within limits for Sn	189.927	Recovery = 98.33%				
Ti 334.940†	1293495.8	0.987 mg/L	0.0108	0.987 mg/L	0.0108	1.09%
QC value within limits for Ti	334.940	Recovery = 98.72%				
Tl 190.801†	2674.7	0.523 mg/L	0.0067	0.523 mg/L	0.0067	1.28%
QC value within limits for Tl	190.801	Recovery = 104.56%				
V 290.880†	314668.5	0.981 mg/L	0.0077	0.981 mg/L	0.0077	0.78%
QC value within limits for V	290.880	Recovery = 98.05%				
Zn 206.200†	85224.4	0.970 mg/L	0.0112	0.970 mg/L	0.0112	1.15%
QC value within limits for Zn	206.200	Recovery = 97.05%				
K 766.490†	151970.8	46.9 mg/L	1.41	46.9 mg/L	1.41	3.00%
QC value within limits for K	766.490	Recovery = 93.87%				
Na 589.592†	1135936.1	49.4 mg/L	2.66	49.4 mg/L	2.66	5.39%
QC value within limits for Na	589.592	Recovery = 98.77%				
Sr 407.771†	2799539.4	0.986 mg/L	0.0516	0.986 mg/L	0.0516	5.23%
QC value within limits for Sr	407.771	Recovery = 98.60%				
Li 670.784†	154025.8	0.988 mg/L	0.0304	0.988 mg/L	0.0304	3.07%
QC value within limits for Li	670.784	Recovery = 98.84%				

All analyte(s) passed QC.

Sequence No.: 2

Sample ID: CCB

Analyst:

Initial Sample Wt:

Dilution:

u&osampler Location: 1

Date Collected: 7/25/2012 11:15:39 AM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Nebulizer Parameters: CCB

Analyte	Back Pressure	Flow
All	178.0 kPa	0.50 L/min

Mean Data: CCB

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 371.029	2963119.3				47074.24	1.59%
YRADIAL	343146.5				6492.46	1.89%
Ga 417.206	1581688.7				11535.99	0.73%
GaRADIAL	92458.6				3973.72	4.30%
Ag 328.068†	-131.7	0.00023 mg/L	0.000112	0.00023 mg/L	0.000112	49.67%
QC value within limits for Ag	328.068	Recovery = Not calculated				
Al 396.153†	42.6	-0.00252 mg/L	0.001023	-0.00252 mg/L	0.001023	40.64%
QC value within limits for Al	396.153	Recovery = Not calculated				
As 188.979†	-0.5	0.00083 mg/L	0.002197	0.00083 mg/L	0.002197	263.86%
QC value within limits for As	188.979	Recovery = Not calculated				
Ba 233.527†	-4.9	-0.00111 mg/L	0.000090	-0.00111 mg/L	0.000090	8.12%
QC value within limits for Ba	233.527	Recovery = Not calculated				
Be 234.861†	35.8	0.00010 mg/L	0.000017	0.00010 mg/L	0.000017	16.60%
QC value within limits for Be	234.861	Recovery = Not calculated				
B 249.677†	297.2	0.00354 mg/L	0.000103	0.00354 mg/L	0.000103	2.90%
QC value within limits for B	249.677	Recovery = Not calculated				
Ca 227.546†	10.1	0.0634 mg/L	0.01249	0.0634 mg/L	0.01249	19.71%
QC value within limits for Ca	227.546	Recovery = Not calculated				
Cd 228.802†	7.6	0.00012 mg/L	0.000063	0.00012 mg/L	0.000063	54.05%
QC value within limits for Cd	228.802	Recovery = Not calculated				
Co 228.616†	-23.9	-0.00047 mg/L	0.000104	-0.00047 mg/L	0.000104	22.29%
QC value within limits for Co	228.616	Recovery = Not calculated				
Cr 267.716†	10.6	-0.00042 mg/L	0.000048	-0.00042 mg/L	0.000048	11.54%
QC value within limits for Cr	267.716	Recovery = Not calculated				
Cu 327.393†	34.5	0.00064 mg/L	0.000580	0.00064 mg/L	0.000580	90.24%
QC value within limits for Cu	327.393	Recovery = Not calculated				
Fe 239.562†	88.8	0.00634 mg/L	0.000445	0.00634 mg/L	0.000445	7.01%
QC value within limits for Fe	239.562	Recovery = Not calculated				
Mg 279.077†	10.1	0.0160 mg/L	0.00025	0.0160 mg/L	0.00025	1.56%
QC value within limits for Mg	279.077	Recovery = Not calculated				
Mn 257.610†	89.8	-0.00029 mg/L	0.000016	-0.00029 mg/L	0.000016	5.43%
QC value within limits for Mn	257.610	Recovery = Not calculated				
Mo 202.031†	10.8	-0.00032 mg/L	0.000131	-0.00032 mg/L	0.000131	40.40%
QC value within limits for Mo	202.031	Recovery = Not calculated				
Ni 231.604†	1.6	-0.00283 mg/L	0.000100	-0.00283 mg/L	0.000100	3.55%

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Pb	QC value within limits for Ni	231.604	Recovery = Not calculated				
	220.353†	4.0	0.00011 mg/L	0.000539	0.00011 mg/L	0.000539	483.83%
Sb	QC value within limits for Pb	220.353	Recovery = Not calculated				
	206.836†	1.2	0.00150 mg/L	0.000355	0.00150 mg/L	0.000355	23.58%
Se	QC value within limits for Sb	206.836	Recovery = Not calculated				
	196.026†	-2.8	-0.00042 mg/L	0.001025	-0.00042 mg/L	0.001025	246.85%
Si	QC value within limits for Se	196.026	Recovery = Not calculated				
	251.611†	-208.3	0.00285 mg/L	0.000354	0.00285 mg/L	0.000354	12.42%
Sn	QC value within limits for Si	251.611	Recovery = Not calculated				
	189.927†	18.2	0.00104 mg/L	0.000367	0.00104 mg/L	0.000367	35.19%
Ti	QC value within limits for Sn	189.927	Recovery = Not calculated				
	334.940†	-69.7	0.00072 mg/L	0.000042	0.00072 mg/L	0.000042	5.90%
Tl	QC value within limits for Ti	334.940	Recovery = Not calculated				
	190.801†	2.1	-0.00267 mg/L	0.000480	-0.00267 mg/L	0.000480	17.96%
V	QC value within limits for Tl	190.801	Recovery = Not calculated				
	290.880†	456.2	0.00072 mg/L	0.000548	0.00072 mg/L	0.000548	75.66%
Zn	QC value within limits for V	290.880	Recovery = Not calculated				
	206.200†	115.4	0.00063 mg/L	0.000085	0.00063 mg/L	0.000085	13.38%
K	QC value within limits for Zn	206.200	Recovery = Not calculated				
	766.490†	123.1	-0.0390 mg/L	0.02536	-0.0390 mg/L	0.02536	65.00%
Na	QC value within limits for K	766.490	Recovery = Not calculated				
	589.592†	326.5	-0.0133 mg/L	0.00808	-0.0133 mg/L	0.00808	60.63%
Sr	QC value within limits for Na	589.592	Recovery = Not calculated				
	407.771†	0.8	0.00032 mg/L	0.000045	0.00032 mg/L	0.000045	13.97%
Li	QC value within limits for Sr	407.771	Recovery = Not calculated				
	670.784†	198.8	-0.00307 mg/L	0.000194	-0.00307 mg/L	0.000194	6.31%
	QC value within limits for Li	670.784	Recovery = Not calculated				
	All analyte(s) passed QC.						

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Sequence No.: 3                               u&osampler Location: 23
Sample ID: L1207057001DL WG404393-02       a&e Collected: 7/25/2012 11:22:32 AM
Analyst: KHR                                 a&A Type: Original
Initial Sample Wt:                           nitial Sample Vol:
Dilution:                                   a&Amp Prep Vol:
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Nebulizer Parameters: L1207057001DL WG404393-02
Analyte          Back Pressure      Flow
All              178.0 kPa                0.50 L/min
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Mean Data: L1207057001DL WG404393-02								
Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	2916325.6						6223.02	0.21%
YRADIAL	345231.1						3263.90	0.95%
Ga 417.206	1592397.7						47587.58	2.99%
GaRADIAL	92044.2						738.98	0.80%
Ag 328.068†	206.1	0.00110 mg/L		0.000404	0.00110 mg/L		0.000404	36.75%
Al 396.153†	-46.3	-0.0147 mg/L		0.00570	-0.0147 mg/L		0.00570	38.66%
As 188.979†	22.4	0.00536 mg/L		0.000337	0.00536 mg/L		0.000337	6.29%
Ba 233.527†	10974.6	0.0477 mg/L		0.00011	0.0477 mg/L		0.00011	0.23%
Be 234.861†	168.3	0.00015 mg/L		0.000031	0.00015 mg/L		0.000031	20.18%
B 249.677†	1034.8	0.00846 mg/L		0.000491	0.00846 mg/L		0.000491	5.80%
Ca 227.546†	7294.9	12.9 mg/L		0.47	12.9 mg/L		0.47	3.63%
Cd 228.802†	21.8	0.00028 mg/L		0.000065	0.00028 mg/L		0.000065	23.34%
Co 228.616†	3.3	-0.00002 mg/L		0.000326	-0.00002 mg/L		0.000326	>999.9%
Cr 267.716†	38.6	-0.00026 mg/L		0.000142	-0.00026 mg/L		0.000142	55.65%
Cu 327.393†	9348.1	0.0306 mg/L		0.00119	0.0306 mg/L		0.00119	3.89%
Fe 239.562†	2444.2	0.134 mg/L		0.0035	0.134 mg/L		0.0035	2.64%
Mg 279.077†	13477.1	3.19 mg/L		0.057	3.19 mg/L		0.057	1.78%
Mn 257.610†	8881.7	0.00800 mg/L		0.000060	0.00800 mg/L		0.000060	0.75%
Mo 202.031†	50.1	0.00049 mg/L		0.000047	0.00049 mg/L		0.000047	9.59%
Ni 231.604†	66.3	-0.00214 mg/L		0.000222	-0.00214 mg/L		0.000222	10.35%
Pb 220.353†	10.0	0.00048 mg/L		0.000848	0.00048 mg/L		0.000848	174.93%
Sb 206.836†	-4.8	0.00057 mg/L		0.000942	0.00057 mg/L		0.000942	164.37%
Se 196.026†	-2.0	-0.00010 mg/L		0.002311	-0.00010 mg/L		0.002311	>999.9%
Si 251.611†	101815.5	1.48 mg/L		0.046	1.48 mg/L		0.046	3.10%
Sn 189.927†	-145.7	-0.00842 mg/L		0.000071	-0.00842 mg/L		0.000071	0.85%
Ti 334.940†	-2573.8	0.00074 mg/L		0.000394	0.00074 mg/L		0.000394	53.18%
Tl 190.801†	4.3	-0.00227 mg/L		0.001101	-0.00227 mg/L		0.001101	48.55%

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[Signature]

Method: 200.7-6010 PE-ICP2.1

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Date: 7/25/2012 11:36:56 AM

V 290.880†	1372.0	0.00348 mg/L	0.001310	0.00348 mg/L	0.001310	37.62%
Zn 206.200†	2866.4	0.0318 mg/L	0.00011	0.0318 mg/L	0.00011	0.36%
K 766.490†	1241.8	0.304 mg/L	0.0075	0.304 mg/L	0.0075	2.47%
Na 589.592†	43753.3	1.86 mg/L	0.010	1.86 mg/L	0.010	0.54%
Sr 407.771†	131362.4	0.0463 mg/L	0.00008	0.0463 mg/L	0.00008	0.18%
Li 670.784†	469.8	-0.00133 mg/L	0.000399	-0.00133 mg/L	0.000399	30.01%

Sequence No.: 4
 Sample ID: L1207057101
 Analyst: KHR
 Initial Sample Wt:
 Dilution:

u&osampler Location: 24
 a&e Collected: 7/25/2012 11:28:28 AM
 a&a Type: Original
 nitial Sample Vol:
 a∓le Prep Vol:

Nebulizer Parameters: L1207057101

Analyte	Back Pressure	Flow
All	177.0 kPa	0.50 L/min

Mean Data: L1207057101

Analyte	Mean Corrected Intensity	Conc. Units	Calib. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 371.029	2844238.8					8774.22	0.31%
YRADIAL	335996.1					433.44	0.13%
Ga 417.206	1627445.7					36788.13	2.26%
GaRADIAL	92921.0					633.86	0.68%
Ag 328.068†	1250.0	0.00398 mg/L	0.000344	0.00398 mg/L	0.000344	8.64%	
Al 396.153†	-133.9	-0.0268 mg/L	0.00660	-0.0268 mg/L	0.00660	24.63%	
As 188.979†	158.3	0.0323 mg/L	0.00135	0.0323 mg/L	0.00135	4.16%	
Ba 233.527†	49147.3	0.218 mg/L	0.0022	0.218 mg/L	0.0022	1.02%	
Be 234.861†	763.2	0.00027 mg/L	0.00048	0.00027 mg/L	0.00048	17.64%	
B 249.677†	8801.0	0.0605 mg/L	0.00207	0.0605 mg/L	0.00207	3.42%	
Ca 227.546†	38300.8	67.8 mg/L	2.00	67.8 mg/L	2.00	2.95%	
Cd 228.802†	25.7	0.00019 mg/L	0.000127	0.00019 mg/L	0.000127	65.87%	
Co 228.616†	-10.7	-0.00032 mg/L	0.000152	-0.00032 mg/L	0.000152	47.73%	
Cr 267.716†	153.7	0.00039 mg/L	0.000150	0.00039 mg/L	0.000150	38.34%	
Cu 327.393†	4617.1	0.0154 mg/L	0.00069	0.0154 mg/L	0.00069	4.47%	
Fe 239.562†	21571.3	1.17 mg/L	0.014	1.17 mg/L	0.014	1.19%	
Mg 279.077†	109706.4	25.9 mg/L	0.40	25.9 mg/L	0.40	1.54%	
Mn 257.610†	36005.3	0.0336 mg/L	0.00045	0.0336 mg/L	0.00045	1.33%	
Mo 202.031†	186.3	0.00334 mg/L	0.000291	0.00334 mg/L	0.000291	8.70%	
Ni 231.604†	53.3	-0.00228 mg/L	0.000159	-0.00228 mg/L	0.000159	6.99%	
Pb 220.353†	34.1	0.00211 mg/L	0.000792	0.00211 mg/L	0.000792	37.62%	
Sb 206.836†	-10.5	-0.00026 mg/L	0.000952	-0.00026 mg/L	0.000952	363.09%	
Se 196.026†	1.6	0.00126 mg/L	0.000688	0.00126 mg/L	0.000688	54.50%	
Si 251.611†	515791.6	7.50 mg/L	0.125	7.50 mg/L	0.125	1.66%	
Sn 189.927†	-325.5	-0.0188 mg/L	0.00029	-0.0188 mg/L	0.00029	1.53%	
Ti 334.940†	-13452.4	0.00068 mg/L	0.001128	0.00068 mg/L	0.001128	166.47%	
Tl 190.801†	-16.8	-0.00643 mg/L	0.001772	-0.00643 mg/L	0.001772	27.53%	
V 290.880†	1983.0	0.00465 mg/L	0.001291	0.00465 mg/L	0.001291	27.77%	
Zn 206.200†	2006.5	0.0221 mg/L	0.00016	0.0221 mg/L	0.00016	0.74%	
K 766.490†	8341.6	2.48 mg/L	0.015	2.48 mg/L	0.015	0.62%	
Na 589.592†	412590.7	17.8 mg/L	0.19	17.8 mg/L	0.19	1.06%	
Sr 407.771†	1624746.7	0.571 mg/L	0.0053	0.571 mg/L	0.0053	0.93%	
Li 670.784†	3332.6	0.0171 mg/L	0.00028	0.0171 mg/L	0.00028	1.62%	

Sequence No.: 5
 Sample ID: L1207057201
 Analyst: KHR
 Initial Sample Wt:
 Dilution:

u&osampler Location: 25
 a&e Collected: 7/25/2012 11:34:26 AM
 a&a Type: Original
 nitial Sample Vol:
 a∓le Prep Vol:

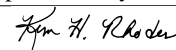
Nebulizer Parameters: L1207057201

Analyte	Back Pressure	Flow
All	178.0 kPa	0.50 L/min

Mean Data: L1207057201

Analyte	Mean Corrected Intensity	Conc. Units	Calib. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
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Approved: July 26, 2012



Analyte	Intensity	Conc. Units	Std.Dev.	Conc. Units	Std.Dev.	RSD
Y 371.029	2825057.1				10989.41	0.39%
YRADIAL	327817.9				2466.84	0.75%
Ga 417.206	1603215.1				57913.40	3.61%
GaRADIAL	91244.6				486.07	0.53%
Ag 328.068†	398.5	0.00186 mg/L	0.000152	0.00186 mg/L	0.000152	8.21%
Al 396.153†	-119.0	-0.0251 mg/L	0.01407	-0.0251 mg/L	0.01407	55.99%
As 188.979†	88.2	0.0185 mg/L	0.00075	0.0185 mg/L	0.00075	4.08%
Ba 233.527†	14324.4	0.0626 mg/L	0.00049	0.0626 mg/L	0.00049	0.77%
Be 234.861†	690.1	0.00024 mg/L	0.000036	0.00024 mg/L	0.000036	15.30%
B 249.677†	31190.4	0.212 mg/L	0.0090	0.212 mg/L	0.0090	4.26%
Ca 227.546†	23539.3	41.7 mg/L	1.61	41.7 mg/L	1.61	3.85%
Cd 228.802†	21.0	0.00020 mg/L	0.000151	0.00020 mg/L	0.000151	74.95%
Co 228.616†	-6.5	-0.00019 mg/L	0.000198	-0.00019 mg/L	0.000198	102.23%
Cr 267.716†	159.3	0.00043 mg/L	0.000199	0.00043 mg/L	0.000199	46.65%
Cu 327.393†	456.5	0.00205 mg/L	0.000424	0.00205 mg/L	0.000424	20.71%
Fe 239.562†	20976.1	1.14 mg/L	0.010	1.14 mg/L	0.010	0.84%
Mg 279.077†	107245.1	25.3 mg/L	0.22	25.3 mg/L	0.22	0.86%
Mn 257.610†	28240.6	0.0263 mg/L	0.00020	0.0263 mg/L	0.00020	0.78%
Mo 202.031†	449.5	0.00873 mg/L	0.000099	0.00873 mg/L	0.000099	1.14%
Ni 231.604†	45.5	-0.00236 mg/L	0.000437	-0.00236 mg/L	0.000437	18.51%
Pb 220.353†	21.2	0.00124 mg/L	0.001316	0.00124 mg/L	0.001316	106.37%
Sb 206.836†	-7.9	0.00014 mg/L	0.000461	0.00014 mg/L	0.000461	327.32%
Se 196.026†	0.5	0.00087 mg/L	0.002273	0.00087 mg/L	0.002273	261.56%
Si 251.611†	506225.4	7.36 mg/L	0.170	7.36 mg/L	0.170	2.31%
Sn 189.927†	-271.6	-0.0157 mg/L	0.00040	-0.0157 mg/L	0.00040	2.54%
Ti 334.940†	-8371.0	0.00063 mg/L	0.000568	0.00063 mg/L	0.000568	89.70%
Tl 190.801†	-9.4	-0.00496 mg/L	0.001362	-0.00496 mg/L	0.001362	27.47%
V 290.880†	1994.7	0.00471 mg/L	0.001891	0.00471 mg/L	0.001891	40.13%
Zn 206.200†	5401.9	0.0606 mg/L	0.00025	0.0606 mg/L	0.00025	0.41%
K 766.490†	13360.7	4.00 mg/L	0.042	4.00 mg/L	0.042	1.06%
Na 589.592†	1120732.2	48.7 mg/L	0.34	48.7 mg/L	0.34	0.71%
Sr 407.771†	1961009.4	0.690 mg/L	0.0067	0.690 mg/L	0.0067	0.97%
Li 670.784†	6251.8	0.0359 mg/L	0.00030	0.0359 mg/L	0.00030	0.85%

Sequence No.: 6
Sample ID: L1207057301
Analyst: KHR
Initial Sample Wt:
Dilution:

uSampler Location: 26
Date Collected: 7/25/2012 11:40:25 AM
Date Type: Original
Initial Sample Vol:
Sample Prep Vol:

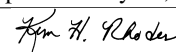
Nebulizer Parameters: L1207057301

Analyte Back Pressure Flow
All 178.0 kPa 0.50 L/min

Mean Data: L1207057301

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Conc. Units	Sample Std.Dev.	RSD
Y 371.029	2826970.8					22920.76	0.81%
YRADIAL	334188.1					5215.01	1.56%
Ga 417.206	1633571.2					26917.22	1.65%
GaRADIAL	92685.9					633.25	0.68%
Ag 328.068†	499.9	0.00235 mg/L	0.000313	0.000313	0.00235 mg/L	0.000313	13.29%
Al 396.153†	-138.9	-0.0275 mg/L	0.00252	0.00252	-0.0275 mg/L	0.00252	9.15%
As 188.979†	196.8	0.0400 mg/L	0.00071	0.00071	0.0400 mg/L	0.00071	1.78%
Ba 233.527†	18392.5	0.0807 mg/L	0.00103	0.00103	0.0807 mg/L	0.00103	1.28%
Be 234.861†	834.2	0.00019 mg/L	0.000077	0.000077	0.00019 mg/L	0.000077	41.49%
B 249.677†	11681.8	0.0797 mg/L	0.00262	0.00262	0.0797 mg/L	0.00262	3.29%
Ca 227.546†	42318.1	74.9 mg/L	2.05	2.05	74.9 mg/L	2.05	2.74%
Cd 228.802†	19.4	0.00007 mg/L	0.000172	0.000172	0.00007 mg/L	0.000172	235.21%
Co 228.616†	-7.1	-0.00022 mg/L	0.000279	0.000279	-0.00022 mg/L	0.000279	125.27%
Cr 267.716†	155.4	0.00038 mg/L	0.000120	0.000120	0.00038 mg/L	0.000120	31.57%
Cu 327.393†	1609.2	0.00577 mg/L	0.000473	0.000473	0.00577 mg/L	0.000473	8.20%
Fe 239.562†	31766.1	1.72 mg/L	0.026	0.026	1.72 mg/L	0.026	1.48%
Mg 279.077†	141612.3	33.4 mg/L	0.62	0.62	33.4 mg/L	0.62	1.85%
Mn 257.610†	41941.3	0.0392 mg/L	0.00080	0.00080	0.0392 mg/L	0.00080	2.03%
Mo 202.031†	231.8	0.00430 mg/L	0.000074	0.000074	0.00430 mg/L	0.000074	1.72%
Ni 231.604†	42.3	-0.00240 mg/L	0.000257	0.000257	-0.00240 mg/L	0.000257	10.73%
Pb 220.353†	15.1	0.00112 mg/L	0.001428	0.001428	0.00112 mg/L	0.001428	127.53%

Approved: July 26, 2012



Method: 200.7-6010 PE-ICP2.1

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Date: 7/25/2012 11:53:44 AM

Sb 206.836†	-13.0	-0.00062 mg/L	0.000722	-0.00062 mg/L	0.000722	116.53%
Se 196.026†	7.8	0.00344 mg/L	0.004325	0.00344 mg/L	0.004325	125.60%
Si 251.611†	560165.2	8.14 mg/L	0.138	8.14 mg/L	0.138	1.70%
Sn 189.927†	-326.3	-0.0188 mg/L	0.00036	-0.0188 mg/L	0.00036	1.90%
Ti 334.940†	-14818.7	0.00070 mg/L	0.001071	0.00070 mg/L	0.001071	152.46%
Tl 190.801†	-17.7	-0.00662 mg/L	0.001302	-0.00662 mg/L	0.001302	19.66%
V 290.880†	1975.1	0.00436 mg/L	0.002417	0.00436 mg/L	0.002417	55.44%
Zn 206.200†	1040.1	0.0111 mg/L	0.00010	0.0111 mg/L	0.00010	0.93%
K 766.490†	9687.5	2.89 mg/L	0.070	2.89 mg/L	0.070	2.44%
Na 589.592†	470279.8	20.3 mg/L	0.15	20.3 mg/L	0.15	0.72%
Sr 407.771†	1810197.0	0.636 mg/L	0.0074	0.636 mg/L	0.0074	1.16%
Li 670.784†	4673.6	0.0258 mg/L	0.00032	0.0258 mg/L	0.00032	1.26%

Sequence No.: 7
 Sample ID: L1207057401
 Analyst: KHR
 Initial Sample Wt:
 Dilution:

uSampler Location: 27
 aDate Collected: 7/25/2012 11:46:25 AM
 aDate Type: Original
 nitial Sample Vol:
 aSample Prep Vol:

Nebulizer Parameters: L1207057401

Analyte	Back Pressure	Flow
All	178.0 kPa	0.50 L/min

Mean Data: L1207057401

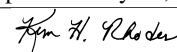
Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc. Units	Sample Std.Dev.	RSD
Y 371.029	2830216.8					16416.07	0.58%
YRADIAL	330947.5					1164.93	0.35%
Ga 417.206	1608263.4					16616.30	1.03%
GaRADIAL	91477.0					453.29	0.50%
Ag 328.068†	347.1	0.00174 mg/L	0.000617	0.00174 mg/L	0.000617	35.38%	
Al 396.153†	-57.4	-0.0163 mg/L	0.00119	-0.0163 mg/L	0.00119	7.30%	
As 188.979†	129.7	0.0267 mg/L	0.00116	0.0267 mg/L	0.00116	4.37%	
Ba 233.527†	42834.5	0.189 mg/L	0.0019	0.189 mg/L	0.0019	1.01%	
Be 234.861†	560.1	0.00017 mg/L	0.000084	0.00017 mg/L	0.000084	48.60%	
B 249.677†	7471.0	0.0516 mg/L	0.00048	0.0516 mg/L	0.00048	0.92%	
Ca 227.546†	32292.5	57.2 mg/L	0.74	57.2 mg/L	0.74	1.30%	
Cd 228.802†	30.4	0.00028 mg/L	0.000077	0.00028 mg/L	0.000077	27.58%	
Co 228.616†	-17.4	-0.00043 mg/L	0.000131	-0.00043 mg/L	0.000131	30.90%	
Cr 267.716†	148.8	0.00037 mg/L	0.000093	0.00037 mg/L	0.000093	25.28%	
Cu 327.393†	1120.5	0.00418 mg/L	0.000387	0.00418 mg/L	0.000387	9.26%	
Fe 239.562†	19615.4	1.06 mg/L	0.007	1.06 mg/L	0.007	0.68%	
Mg 279.077†	82032.0	19.4 mg/L	0.09	19.4 mg/L	0.09	0.48%	
Mn 257.610†	30283.3	0.0282 mg/L	0.00054	0.0282 mg/L	0.00054	1.90%	
Mo 202.031†	175.8	0.00312 mg/L	0.000270	0.00312 mg/L	0.000270	8.66%	
Ni 231.604†	48.3	-0.00233 mg/L	0.000269	-0.00233 mg/L	0.000269	11.53%	
Pb 220.353†	10.4	0.00080 mg/L	0.000960	0.00080 mg/L	0.000960	120.74%	
Sb 206.836†	-13.0	-0.00066 mg/L	0.000455	-0.00066 mg/L	0.000455	69.49%	
Se 196.026†	-2.2	-0.00005 mg/L	0.001595	-0.00005 mg/L	0.001595	>999.9%	
Si 251.611†	516203.9	7.50 mg/L	0.133	7.50 mg/L	0.133	1.77%	
Sn 189.927†	-313.7	-0.0181 mg/L	0.00050	-0.0181 mg/L	0.00050	2.76%	
Ti 334.940†	-10925.8	0.00101 mg/L	0.000659	0.00101 mg/L	0.000659	65.37%	
Tl 190.801†	-19.3	-0.00687 mg/L	0.001866	-0.00687 mg/L	0.001866	27.15%	
V 290.880†	2104.0	0.00521 mg/L	0.001438	0.00521 mg/L	0.001438	27.58%	
Zn 206.200†	498.3	0.00496 mg/L	0.000103	0.00496 mg/L	0.000103	2.07%	
K 766.490†	7722.2	2.29 mg/L	0.024	2.29 mg/L	0.024	1.04%	
Na 589.592†	478281.9	20.7 mg/L	0.10	20.7 mg/L	0.10	0.50%	
Sr 407.771†	1354950.9	0.476 mg/L	0.0028	0.476 mg/L	0.0028	0.60%	
Li 670.784†	2443.4	0.0114 mg/L	0.00038	0.0114 mg/L	0.00038	3.34%	

Sequence No.: 8
 Sample ID: L1207057501
 Analyst: KHR
 Initial Sample Wt:
 Dilution:

uSampler Location: 28
 aDate Collected: 7/25/2012 11:52:23 AM
 aDate Type: Original
 nitial Sample Vol:
 aSample Prep Vol:

Nebulizer Parameters: L1207057501

Approved: July 26, 2012



Analyte Back Pressure Flow
All 178.0 kPa 0.50 L/min

Mean Data: L1207057501

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc. Units	Sample Std.Dev.	RSD
Y 371.029	2847519.0					20949.91	0.74%
YRADIAL	335228.8					3918.25	1.17%
Ga 417.206	1630180.2					25467.37	1.56%
GaRADIAL	92495.3					625.13	0.68%
Ag 328.068†	534.4	0.00188	mg/L	0.000464	0.00188	0.000464	24.61%
Al 396.153†	-90.6	-0.0211	mg/L	0.00313	-0.0211	0.00313	14.89%
As 188.979†	107.3	0.0221	mg/L	0.00121	0.0221	0.00121	5.49%
Ba 233.527†	40899.6	0.181	mg/L	0.0012	0.181	0.0012	0.67%
Be 234.861†	317.1	0.00020	mg/L	0.000049	0.00020	0.000049	24.46%
B 249.677†	10822.5	0.0745	mg/L	0.00278	0.0745	0.00278	3.73%
Ca 227.546†	25021.8	44.3	mg/L	1.02	44.3	1.02	2.31%
Cd 228.802†	14.4	0.00010	mg/L	0.000162	0.00010	0.000162	164.08%
Co 228.616†	-12.2	-0.00032	mg/L	0.000334	-0.00032	0.000334	105.84%
Cr 267.716†	256.5	0.00103	mg/L	0.000155	0.00103	0.000155	15.03%
Cu 327.393†	2195.4	0.00759	mg/L	0.000138	0.00759	0.000138	1.81%
Fe 239.562†	5759.8	0.313	mg/L	0.0043	0.313	0.0043	1.38%
Mg 279.077†	76454.9	18.0	mg/L	0.20	18.0	0.20	1.10%
Mn 257.610†	17379.8	0.0160	mg/L	0.00010	0.0160	0.00010	0.65%
Mo 202.031†	234.8	0.00429	mg/L	0.000227	0.00429	0.000227	5.29%
Ni 231.604†	472.9	0.00217	mg/L	0.000438	0.00217	0.000438	20.16%
Pb 220.353†	6.8	0.00057	mg/L	0.000978	0.00057	0.000978	171.14%
Sb 206.836†	-9.5	-0.00014	mg/L	0.000747	-0.00014	0.000747	544.27%
Se 196.026†	-2.0	-0.00009	mg/L	0.003564	-0.00009	0.003564	>999.9%
Si 251.611†	477873.1	6.95	mg/L	0.094	6.95	0.094	1.36%
Sn 189.927†	-288.0	-0.0166	mg/L	0.00094	-0.0166	0.00094	5.68%
Ti 334.940†	-9132.4	0.00045	mg/L	0.000539	0.00045	0.000539	120.57%
Tl 190.801†	-10.6	-0.00518	mg/L	0.001020	-0.00518	0.001020	19.70%
V 290.880†	2059.9	0.00521	mg/L	0.001128	0.00521	0.001128	21.66%
Zn 206.200†	766.4	0.00803	mg/L	0.000109	0.00803	0.000109	1.35%
K 766.490†	9103.3	2.70	mg/L	0.066	2.70	0.066	2.44%
Na 589.592†	651523.0	28.2	mg/L	0.12	28.2	0.12	0.44%
Sr 407.771†	1516797.5	0.534	mg/L	0.0051	0.534	0.0051	0.96%
Li 670.784†	2850.4	0.0140	mg/L	0.00056	0.0140	0.00056	3.97%

Sequence No.: 9
Sample ID: L1207057502
Analyst: KHR
Initial Sample Wt:
Dilution:

u&osampler Location: 29
a&e Collected: 7/25/2012 11:58:22 AM
a&a Type: Original
nitial Sample Vol:
a&ple Prep Vol:

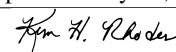
Nebulizer Parameters: L1207057502

Analyte Back Pressure Flow
All 179.0 kPa 0.50 L/min

Mean Data: L1207057502

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc. Units	Sample Std.Dev.	RSD
Y 371.029	2701228.1					20889.24	0.77%
YRADIAL	327179.5					2084.39	0.64%
Ga 417.206	1538880.8					17196.02	1.12%
GaRADIAL	92076.4					1308.94	1.42%
Ag 328.068†	1888.1	0.00528	mg/L	0.000059	0.00528	0.000059	1.11%
Al 396.153†	7.1	-0.00743	mg/L	0.010968	-0.00743	0.010968	147.62%
As 188.979†	-8.1	-0.00056	mg/L	0.001236	-0.00056	0.001236	220.44%
Ba 233.527†	14694.1	0.0643	mg/L	0.00088	0.0643	0.00088	1.36%
Be 234.861†	333.2	0.00018	mg/L	0.000028	0.00018	0.000028	15.96%
B 249.677†	30256.6	0.206	mg/L	0.0036	0.206	0.0036	1.74%
Ca 227.546†	109521.7	194	mg/L	2.4	194	2.4	1.25%
Cd 228.802†	75.5	0.00100	mg/L	0.000112	0.00100	0.000112	11.22%
Co 228.616†	-0.5	-0.00004	mg/L	0.000164	-0.00004	0.000164	384.49%
Cr 267.716†	234.8	0.00091	mg/L	0.000216	0.00091	0.000216	23.71%
Cu 327.393†	252.3	0.00135	mg/L	0.000481	0.00135	0.000481	35.59%

Approved: July 26, 2012



Fe 239.562†	8592.3	0.466 mg/L	0.0063	0.466 mg/L	0.0063	1.36%
Mg 279.077†	152708.2	36.0 mg/L	0.74	36.0 mg/L	0.74	2.05%
Mn 257.610†	52166.7	0.0488 mg/L	0.00097	0.0488 mg/L	0.00097	1.99%
Mo 202.031†	93.3	0.00140 mg/L	0.000098	0.00140 mg/L	0.000098	6.97%
Ni 231.604†	128.9	-0.00148 mg/L	0.000187	-0.00148 mg/L	0.000187	12.69%
Pb 220.353†	47.4	0.00388 mg/L	0.001204	0.00388 mg/L	0.001204	30.99%
Sb 206.836†	-8.7	-0.00002 mg/L	0.001019	-0.00002 mg/L	0.001019	>999.9%
Se 196.026†	5.2	0.00236 mg/L	0.002370	0.00236 mg/L	0.002370	100.40%
Si 251.611†	465730.9	6.77 mg/L	0.054	6.77 mg/L	0.054	0.80%
Sn 189.927†	-405.4	-0.0234 mg/L	0.00067	-0.0234 mg/L	0.00067	2.88%
Ti 334.940†	-35195.2	0.00300 mg/L	0.001990	0.00300 mg/L	0.001990	66.28%
Tl 190.801†	-15.2	-0.00632 mg/L	0.001556	-0.00632 mg/L	0.001556	24.60%
V 290.880†	2921.1	0.00742 mg/L	0.001694	0.00742 mg/L	0.001694	22.83%
Zn 206.200†	20498.1	0.232 mg/L	0.0027	0.232 mg/L	0.0027	1.18%
K 766.490†	7728.5	2.22 mg/L	0.053	2.22 mg/L	0.053	2.40%
Na 589.592†	1960556.5	85.8 mg/L	0.08	85.8 mg/L	0.08	0.09%
Sr 407.771†	1190818.4	0.415 mg/L	0.0051	0.415 mg/L	0.0051	1.23%
Li 670.784†	2633.7	0.0126 mg/L	0.00056	0.0126 mg/L	0.00056	4.46%

Sequence No.: 10
 Sample ID: L1207057601
 Analyst: KHR
 Initial Sample Wt:
 Dilution:

u&osampler Location: 30
 a&e Collected: 7/25/2012 12:04:21 PM
 a&a Type: Original
 n&ital Sample Vol:
 a&mple Prep Vol:

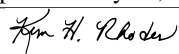
Nebulizer Parameters: L1207057601
 Analyte Back Pressure Flow
 All 179.0 kPa 0.50 L/min

Mean Data: L1207057601

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Conc. Units	Sample Std.Dev.	RSD
Y 371.029	2837724.6					23900.14	0.84%
YRADIAL	337336.7					7216.02	2.14%
Ga 417.206	1618510.4					30696.30	1.90%
GaRADIAL	92640.2					1887.84	2.04%
Ag 328.068†	329.5	0.00182 mg/L	0.000315	0.00182 mg/L	0.000315	17.29%	
Al 396.153†	-125.3	-0.0255 mg/L	0.00336	-0.0255 mg/L	0.00336	13.18%	
As 188.979†	-2.9	0.00065 mg/L	0.002221	0.00065 mg/L	0.002221	342.78%	
Ba 233.527†	74135.7	0.329 mg/L	0.0040	0.329 mg/L	0.0040	1.20%	
Be 234.861†	595.7	0.00015 mg/L	0.000036	0.00015 mg/L	0.000036	23.90%	
B 249.677†	4558.6	0.0318 mg/L	0.00070	0.0318 mg/L	0.00070	2.20%	
Ca 227.546†	35055.6	62.0 mg/L	1.29	62.0 mg/L	1.29	2.07%	
Cd 228.802†	9.4	0.00014 mg/L	0.000066	0.00014 mg/L	0.000066	47.09%	
Co 228.616†	-33.4	-0.00075 mg/L	0.000335	-0.00075 mg/L	0.000335	44.77%	
Cr 267.716†	125.7	0.00022 mg/L	0.000140	0.00022 mg/L	0.000140	63.15%	
Cu 327.393†	240.0	0.00136 mg/L	0.000442	0.00136 mg/L	0.000442	32.63%	
Fe 239.562†	23233.8	1.26 mg/L	0.044	1.26 mg/L	0.044	3.50%	
Mg 279.077†	68074.2	16.1 mg/L	0.59	16.1 mg/L	0.59	3.65%	
Mn 257.610†	66698.9	0.0625 mg/L	0.00094	0.0625 mg/L	0.00094	1.50%	
Mo 202.031†	130.8	0.00221 mg/L	0.000352	0.00221 mg/L	0.000352	15.91%	
Ni 231.604†	32.4	-0.00250 mg/L	0.000578	-0.00250 mg/L	0.000578	23.13%	
Pb 220.353†	10.6	0.00081 mg/L	0.000760	0.00081 mg/L	0.000760	94.26%	
Sb 206.836†	-14.6	-0.00091 mg/L	0.000471	-0.00091 mg/L	0.000471	51.70%	
Se 196.026†	-1.8	0.00010 mg/L	0.002628	0.00010 mg/L	0.002628	>999.9%	
Si 251.611†	515109.1	7.49 mg/L	0.146	7.49 mg/L	0.146	1.95%	
Sn 189.927†	-321.4	-0.0186 mg/L	0.00084	-0.0186 mg/L	0.00084	4.51%	
Ti 334.940†	-12077.3	0.00086 mg/L	0.000771	0.00086 mg/L	0.000771	89.20%	
Tl 190.801†	-17.1	-0.00650 mg/L	0.001067	-0.00650 mg/L	0.001067	16.40%	
V 290.880†	1962.7	0.00483 mg/L	0.002772	0.00483 mg/L	0.002772	57.37%	
Zn 206.200†	1433.3	0.0156 mg/L	0.00017	0.0156 mg/L	0.00017	1.07%	
K 766.490†	5047.8	1.47 mg/L	0.080	1.47 mg/L	0.080	5.43%	
Na 589.592†	257541.1	11.1 mg/L	0.05	11.1 mg/L	0.05	0.48%	
Sr 407.771†	707422.8	0.248 mg/L	0.0022	0.248 mg/L	0.0022	0.89%	
Li 670.784†	1785.6	0.00715 mg/L	0.000399	0.00715 mg/L	0.000399	5.58%	

Sequence No.: 11
 Sample ID: L1207057602

u&osampler Location: 31
 a&e Collected: 7/25/2012 12:10:20 PM

Approved: July 26, 2012


Analyst: KHR
Initial Sample Wt:
Dilution:

alpha Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: L1207057602

Analyte Back Pressure Flow
All 179.0 kPa 0.50 L/min

Mean Data: L1207057602

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 371.029	2702311.5				30289.66	1.12%
YRADIAL	334428.2				5522.14	1.65%
Ga 417.206	1566938.0				21659.20	1.38%
GaRADIAL	90439.6				849.11	0.94%
Ag 328.068†	699.7	0.00249 mg/L	0.000431	0.00249 mg/L	0.000431	17.29%
Al 396.153†	2798.1	0.375 mg/L	0.0013	0.375 mg/L	0.0013	0.35%
As 188.979†	-9.2	-0.00076 mg/L	0.001202	-0.00076 mg/L	0.001202	157.71%
Ba 233.527†	12009.6	0.0523 mg/L	0.00079	0.0523 mg/L	0.00079	1.52%
Be 234.861†	590.2	0.00030 mg/L	0.000065	0.00030 mg/L	0.000065	21.92%
B 249.677†	16680.8	0.114 mg/L	0.0016	0.114 mg/L	0.0016	1.43%
Ca 227.546†	46739.6	82.7 mg/L	1.87	82.7 mg/L	1.87	2.27%
Cd 228.802†	24.7	0.00035 mg/L	0.000119	0.00035 mg/L	0.000119	34.46%
Co 228.616†	4.8	0.00000 mg/L	0.000177	0.00000 mg/L	0.000177	>999.9%
Cr 267.716†	393.9	0.00184 mg/L	0.000119	0.00184 mg/L	0.000119	6.46%
Cu 327.393†	1402.6	0.00508 mg/L	0.000379	0.00508 mg/L	0.000379	7.46%
Fe 239.562†	13871.3	0.752 mg/L	0.0095	0.752 mg/L	0.0095	1.26%
Mg 279.077†	49129.5	11.6 mg/L	0.13	11.6 mg/L	0.13	1.15%
Mn 257.610†	377423.4	0.356 mg/L	0.0078	0.356 mg/L	0.0078	2.18%
Mo 202.031†	242.2	0.00453 mg/L	0.000095	0.00453 mg/L	0.000095	2.09%
Ni 231.604†	178.8	-0.00095 mg/L	0.000390	-0.00095 mg/L	0.000390	41.25%
Pb 220.353†	60.8	0.00356 mg/L	0.000782	0.00356 mg/L	0.000782	21.96%
Sb 206.836†	-12.7	-0.00064 mg/L	0.001477	-0.00064 mg/L	0.001477	230.30%
Se 196.026†	9.1	0.00362 mg/L	0.000716	0.00362 mg/L	0.000716	19.76%
Si 251.611†	716703.2	10.4 mg/L	0.17	10.4 mg/L	0.17	1.68%
Sn 189.927†	-343.3	-0.0198 mg/L	0.00082	-0.0198 mg/L	0.00082	4.16%
Ti 334.940†	-4265.7	0.00991 mg/L	0.000951	0.00991 mg/L	0.000951	9.59%
Tl 190.801†	-35.4	-0.0102 mg/L	0.00102	-0.0102 mg/L	0.00102	10.03%
V 290.880†	3215.0	0.00893 mg/L	0.001546	0.00893 mg/L	0.001546	17.30%
Zn 206.200†	2180.3	0.0241 mg/L	0.00033	0.0241 mg/L	0.00033	1.38%
K 766.490†	11110.2	3.08 mg/L	0.026	3.08 mg/L	0.026	0.85%
Na 589.592†	5980507.3	271 mg/L	2.3	271 mg/L	2.3	0.84%
Sr 407.771†	691480.1	0.242 mg/L	0.0060	0.242 mg/L	0.0060	2.46%
Li 670.784†	698.7	0.00015 mg/L	0.000650	0.00015 mg/L	0.000650	439.91%

Sequence No.: 12
Sample ID: L1207057701
Analyst: KHR
Initial Sample Wt:
Dilution:

Sampler Location: 32
Date Collected: 7/25/2012 12:16:23 PM
alpha Type: Original
Initial Sample Vol:
Sample Prep Vol:

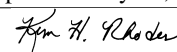
Nebulizer Parameters: L1207057701

Analyte Back Pressure Flow
All 178.0 kPa 0.50 L/min

Mean Data: L1207057701

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 371.029	2800369.5				15055.38	0.54%
YRADIAL	330747.6				674.08	0.20%
Ga 417.206	1613907.4				13792.39	0.85%
GaRADIAL	91323.2				1092.64	1.20%
Ag 328.068†	782.4	0.00248 mg/L	0.000328	0.00248 mg/L	0.000328	13.20%
Al 396.153†	334.0	0.0373 mg/L	0.00887	0.0373 mg/L	0.00887	23.76%
As 188.979†	-9.3	-0.00087 mg/L	0.000588	-0.00087 mg/L	0.000588	67.55%
Ba 233.527†	6616.1	0.0283 mg/L	0.00013	0.0283 mg/L	0.00013	0.46%
Be 234.861†	209.7	0.00018 mg/L	0.000045	0.00018 mg/L	0.000045	25.20%

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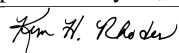
B 249.677†	6255.8	0.0437 mg/L	0.00059	0.0437 mg/L	0.00059	1.36%
Ca 227.546†	41268.6	73.0 mg/L	0.47	73.0 mg/L	0.47	0.64%
Cd 228.802†	21.4	0.00031 mg/L	0.000111	0.00031 mg/L	0.000111	36.21%
Co 228.616†	40.2	0.00063 mg/L	0.000211	0.00063 mg/L	0.000211	33.68%
Cr 267.716†	148.3	0.00058 mg/L	0.000057	0.00058 mg/L	0.000057	9.93%
Cu 327.393†	84237.6	0.272 mg/L	0.0038	0.272 mg/L	0.0038	1.40%
Fe 239.562†	2664.5	0.145 mg/L	0.0013	0.145 mg/L	0.0013	0.87%
Mg 279.077†	79566.7	18.8 mg/L	0.06	18.8 mg/L	0.06	0.33%
Mn 257.610†	37920.2	0.0356 mg/L	0.00051	0.0356 mg/L	0.00051	1.42%
Mo 202.031†	67.5	0.00085 mg/L	0.000232	0.00085 mg/L	0.000232	27.23%
Ni 231.604†	644.1	0.00399 mg/L	0.000350	0.00399 mg/L	0.000350	8.77%
Pb 220.353†	52.9	0.00298 mg/L	0.000682	0.00298 mg/L	0.000682	22.90%
Sb 206.836†	-8.6	-0.00001 mg/L	0.002004	-0.00001 mg/L	0.002004	>999.9%
Se 196.026†	2.3	0.00133 mg/L	0.003039	0.00133 mg/L	0.003039	228.19%
Si 251.611†	328494.1	4.78 mg/L	0.042	4.78 mg/L	0.042	0.88%
Sn 189.927†	-325.5	-0.0188 mg/L	0.00041	-0.0188 mg/L	0.00041	2.21%
Ti 334.940†	-12830.4	0.00194 mg/L	0.000415	0.00194 mg/L	0.000415	21.40%
Tl 190.801†	-11.7	-0.00544 mg/L	0.001452	-0.00544 mg/L	0.001452	26.67%
V 290.880†	2255.0	0.00583 mg/L	0.001639	0.00583 mg/L	0.001639	28.10%
Zn 206.200†	398078.2	4.51 mg/L	0.059	4.51 mg/L	0.059	1.31%
K 766.490†	46042.5	14.1 mg/L	0.15	14.1 mg/L	0.15	1.07%
Na 589.592†	119655.5	5.14 mg/L	0.025	5.14 mg/L	0.025	0.50%
Sr 407.771†	351804.4	0.123 mg/L	0.0023	0.123 mg/L	0.0023	1.86%
Li 670.784†	550.8	-0.00081 mg/L	0.000378	-0.00081 mg/L	0.000378	46.89%

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Sequence No.: 13 **u&osampler Location:** 6
Sample ID: CCV **ame Collected:** 7/25/2012 12:22:22 PM
Analyst: **ana Type:** Original
Initial Sample Wt: **nitial Sample Vol:**
Dilution: **ample Prep Vol:**

Nebulizer Parameters: CCV
Analyte **Back Pressure** **Flow**
All 178.0 kPa 0.50 L/min

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 371.029	2806785.1				15110.96	0.54%
YRADIAL	336540.6				6654.18	1.98%
Ga 417.206	1505673.6				38028.94	2.53%
GarADIAL	89510.5				2350.72	2.63%
Ag 328.068†	160947.3	0.398 mg/L	0.0119	0.398 mg/L	0.0119	3.00%
QC value within limits for Ag 328.068 Recovery = 99.42%						
Al 396.153†	73663.1	10.0 mg/L	0.03	10.0 mg/L	0.03	0.28%
QC value within limits for Al 396.153 Recovery = 100.13%						
As 188.979†	2006.8	0.390 mg/L	0.0074	0.390 mg/L	0.0074	1.89%
QC value within limits for As 188.979 Recovery = 97.60%						
Ba 233.527†	225652.1	1.00 mg/L	0.006	1.00 mg/L	0.006	0.60%
QC value within limits for Ba 233.527 Recovery = 100.32%						
Be 234.861†	81636.5	0.0486 mg/L	0.00164	0.0486 mg/L	0.00164	3.38%
QC value within limits for Be 234.861 Recovery = 97.14%						
B 249.677†	71625.5	0.482 mg/L	0.0143	0.482 mg/L	0.0143	2.98%
QC value within limits for B 249.677 Recovery = 96.35%						
Ca 227.546†	5582.0	10.4 mg/L	0.24	10.4 mg/L	0.24	2.31%
QC value within limits for Ca 227.546 Recovery = 103.88%						
Cd 228.802†	3787.0	0.0474 mg/L	0.00197	0.0474 mg/L	0.00197	4.16%
QC value within limits for Cd 228.802 Recovery = 94.76%						
Co 228.616†	11966.0	0.202 mg/L	0.0020	0.202 mg/L	0.0020	0.98%
QC value within limits for Co 228.616 Recovery = 100.89%						
Cr 267.716†	83978.5	0.499 mg/L	0.0030	0.499 mg/L	0.0030	0.60%
QC value within limits for Cr 267.716 Recovery = 99.89%						
Cu 327.393†	155601.5	0.502 mg/L	0.0150	0.502 mg/L	0.0150	2.99%
QC value within limits for Cu 327.393 Recovery = 100.42%						
Fe 239.562†	73154.6	3.96 mg/L	0.030	3.96 mg/L	0.030	0.75%
QC value within limits for Fe 239.562 Recovery = 99.02%						
Mg 279.077†	41521.7	9.82 mg/L	0.142	9.82 mg/L	0.142	1.44%
QC value within limits for Mg 279.077 Recovery = 98.18%						
Mn 257.610†	535186.1	0.505 mg/L	0.0028	0.505 mg/L	0.0028	0.56%

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Mo	202.031†	49867.1	1.02 mg/L	0.005	1.02 mg/L	0.005	0.48%
	QC value within limits for Mo	202.031	Recovery = 102.26%				
Ni	231.604†	49259.0	0.519 mg/L	0.0042	0.519 mg/L	0.0042	0.82%
	QC value within limits for Ni	231.604	Recovery = 103.85%				
Pb	220.353†	9615.9	0.509 mg/L	0.0047	0.509 mg/L	0.0047	0.91%
	QC value within limits for Pb	220.353	Recovery = 101.72%				
Sb	206.836†	7639.2	1.20 mg/L	0.029	1.20 mg/L	0.029	2.43%
	QC value within limits for Sb	206.836	Recovery = 99.80%				
Se	196.026†	1196.7	0.406 mg/L	0.0113	0.406 mg/L	0.0113	2.78%
	QC value within limits for Se	196.026	Recovery = 101.47%				
Si	251.611†	340339.7	4.94 mg/L	0.113	4.94 mg/L	0.113	2.28%
	QC value within limits for Si	251.611	Recovery = 98.74%				
Sn	189.927†	17600.8	1.02 mg/L	0.008	1.02 mg/L	0.008	0.79%
	QC value within limits for Sn	189.927	Recovery = 101.54%				
Ti	334.940†	1326168.0	1.01 mg/L	0.001	1.01 mg/L	0.001	0.06%
	QC value within limits for Ti	334.940	Recovery = 101.21%				
Tl	190.801†	2742.1	0.536 mg/L	0.0020	0.536 mg/L	0.0020	0.38%
	QC value within limits for Tl	190.801	Recovery = 107.21%				
V	290.880†	323365.9	1.01 mg/L	0.006	1.01 mg/L	0.006	0.55%
	QC value within limits for V	290.880	Recovery = 100.76%				
Zn	206.200†	87736.8	0.999 mg/L	0.0128	0.999 mg/L	0.0128	1.28%
	QC value within limits for Zn	206.200	Recovery = 99.91%				
K	766.490†	161611.5	49.9 mg/L	0.36	49.9 mg/L	0.36	0.72%
	QC value within limits for K	766.490	Recovery = 99.87%				
Na	589.592†	1145255.0	49.8 mg/L	1.79	49.8 mg/L	1.79	3.59%
	QC value within limits for Na	589.592	Recovery = 99.59%				
Sr	407.771†	2814027.4	0.991 mg/L	0.0208	0.991 mg/L	0.0208	2.10%
	QC value within limits for Sr	407.771	Recovery = 99.11%				
Li	670.784†	162464.5	1.04 mg/L	0.008	1.04 mg/L	0.008	0.79%
	QC value within limits for Li	670.784	Recovery = 104.28%				

All analyte(s) passed QC.

Sequence No.: 14

Sample ID: CCB

Analyst:

Initial Sample Wt:

Dilution:

u&osampler Location: 1

a&e Collected: 7/25/2012 12:28:22 PM

a&a Type: Original

n&itial Sample Vol:

a&mple Prep Vol:

Nebulizer Parameters: CCB

Analyte	Back Pressure	Flow
All	178.0 kPa	0.50 L/min

Mean Data: CCB

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 371.029	2969439.1				16068.17	0.54%
YRADIAL	338912.0				2670.65	0.79%
Ga 417.206	1597670.2				10194.13	0.64%
GaRADIAL	91115.7				2684.22	2.95%
Ag 328.068†	16.5	0.00059 mg/L	0.000321	0.00059 mg/L	0.000321	54.53%
	QC value within limits for Ag	328.068	Recovery = Not calculated			
Al 396.153†	14.7	-0.00633 mg/L	0.000840	-0.00633 mg/L	0.000840	13.28%
	QC value within limits for Al	396.153	Recovery = Not calculated			
As 188.979†	1.4	0.00121 mg/L	0.000664	0.00121 mg/L	0.000664	55.04%
	QC value within limits for As	188.979	Recovery = Not calculated			
Ba 233.527†	-24.7	-0.00120 mg/L	0.000081	-0.00120 mg/L	0.000081	6.70%
	QC value within limits for Ba	233.527	Recovery = Not calculated			
Be 234.861†	32.0	0.00010 mg/L	0.000005	0.00010 mg/L	0.000005	4.73%
	QC value within limits for Be	234.861	Recovery = Not calculated			
B 249.677†	233.6	0.00311 mg/L	0.000137	0.00311 mg/L	0.000137	4.39%
	QC value within limits for B	249.677	Recovery = Not calculated			
Ca 227.546†	8.3	0.0600 mg/L	0.00671	0.0600 mg/L	0.00671	11.19%
	QC value within limits for Ca	227.546	Recovery = Not calculated			
Cd 228.802†	2.3	0.00005 mg/L	0.000054	0.00005 mg/L	0.000054	113.23%
	QC value within limits for Cd	228.802	Recovery = Not calculated			
Co 228.616†	-8.1	-0.00020 mg/L	0.000060	-0.00020 mg/L	0.000060	29.91%
	QC value within limits for Co	228.616	Recovery = Not calculated			
Cr 267.716†	5.9	-0.00045 mg/L	0.000091	-0.00045 mg/L	0.000091	20.27%

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Ann H. Rhodes

Cu	327.393†	QC value within limits for Cu	327.393	Recovery = Not calculated				
			-10.7	0.00050 mg/L	0.000403	0.00050 mg/L	0.000403	81.13%
Fe	239.562†	QC value within limits for Fe	239.562	Recovery = Not calculated				
			41.7	0.00379 mg/L	0.000246	0.00379 mg/L	0.000246	6.49%
Mg	279.077†	QC value within limits for Mg	279.077	Recovery = Not calculated				
			-9.5	0.0114 mg/L	0.00116	0.0114 mg/L	0.00116	10.12%
Mn	257.610†	QC value within limits for Mn	257.610	Recovery = Not calculated				
			-87.8	-0.00046 mg/L	0.000007	-0.00046 mg/L	0.000007	1.61%
Mo	202.031†	QC value within limits for Mo	202.031	Recovery = Not calculated				
			5.6	-0.00043 mg/L	0.000016	-0.00043 mg/L	0.000016	3.75%
Ni	231.604†	QC value within limits for Ni	231.604	Recovery = Not calculated				
			-10.5	-0.00296 mg/L	0.000177	-0.00296 mg/L	0.000177	5.98%
Pb	220.353†	QC value within limits for Pb	220.353	Recovery = Not calculated				
			-1.0	-0.00015 mg/L	0.000766	-0.00015 mg/L	0.000766	504.94%
Sb	206.836†	QC value within limits for Sb	206.836	Recovery = Not calculated				
			-0.6	0.00122 mg/L	0.000780	0.00122 mg/L	0.000780	63.78%
Se	196.026†	QC value within limits for Se	196.026	Recovery = Not calculated				
			7.6	0.00309 mg/L	0.000769	0.00309 mg/L	0.000769	24.88%
Si	251.611†	QC value within limits for Si	251.611	Recovery = Not calculated				
			-368.9	0.00052 mg/L	0.000304	0.00052 mg/L	0.000304	58.89%
Sn	189.927†	QC value within limits for Sn	189.927	Recovery = Not calculated				
			17.3	0.00099 mg/L	0.000642	0.00099 mg/L	0.000642	64.87%
Ti	334.940†	QC value within limits for Ti	334.940	Recovery = Not calculated				
			-25.3	0.00075 mg/L	0.000005	0.00075 mg/L	0.000005	0.62%
Tl	190.801†	QC value within limits for Tl	190.801	Recovery = Not calculated				
			3.5	-0.00240 mg/L	0.001298	-0.00240 mg/L	0.001298	54.07%
V	290.880†	QC value within limits for V	290.880	Recovery = Not calculated				
			484.3	0.00081 mg/L	0.001058	0.00081 mg/L	0.001058	130.22%
Zn	206.200†	QC value within limits for Zn	206.200	Recovery = Not calculated				
			-64.6	-0.00141 mg/L	0.000061	-0.00141 mg/L	0.000061	4.31%
K	766.490†	QC value within limits for K	766.490	Recovery = Not calculated				
			22.8	-0.0699 mg/L	0.03082	-0.0699 mg/L	0.03082	44.07%
Na	589.592†	QC value within limits for Na	589.592	Recovery = Not calculated				
			123.7	-0.0221 mg/L	0.00422	-0.0221 mg/L	0.00422	19.09%
Sr	407.771†	QC value within limits for Sr	407.771	Recovery = Not calculated				
			-27.7	0.00031 mg/L	0.000049	0.00031 mg/L	0.000049	15.81%
Li	670.784†	QC value within limits for Li	670.784	Recovery = Not calculated				
			48.7	-0.00404 mg/L	0.000128	-0.00404 mg/L	0.000128	3.18%

All analyte(s) passed QC.

Sequence No.: 15
 Sample ID: L1207057801
 Analyst: KHR
 Initial Sample Wt:
 Dilution:

u&osampler Location: 33
 a&e Collected: 7/25/2012 12:35:16 PM
 a&a Type: Original
 nitial Sample Vol:
 a&ple Prep Vol:

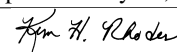
Nebulizer Parameters: L1207057801

Analyte	Back Pressure	Flow
All	178.0 kPa	0.50 L/min

Mean Data: L1207057801

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 371.029	2837973.5				13718.67	0.48%
YRADIAL	334339.4				1071.28	0.32%
Ga 417.206	1625324.1				22865.82	1.41%
GaRADIAL	91746.7				574.20	0.63%
Ag 328.068†	480.2	0.00191 mg/L	0.000258	0.00191 mg/L	0.000258	13.49%
Al 396.153†	-160.1	-0.0305 mg/L	0.00771	-0.0305 mg/L	0.00771	25.31%
As 188.979†	139.9	0.0286 mg/L	0.00135	0.0286 mg/L	0.00135	4.71%
Ba 233.527†	67195.5	0.298 mg/L	0.0027	0.298 mg/L	0.0027	0.89%
Be 234.861†	564.7	0.00026 mg/L	0.000075	0.00026 mg/L	0.000075	28.63%
B 249.677†	8948.6	0.0617 mg/L	0.00097	0.0617 mg/L	0.00097	1.57%
Ca 227.546†	29017.6	51.4 mg/L	0.73	51.4 mg/L	0.73	1.41%
Cd 228.802†	17.4	0.00010 mg/L	0.000141	0.00010 mg/L	0.000141	136.65%
Co 228.616†	-27.5	-0.00062 mg/L	0.000074	-0.00062 mg/L	0.000074	11.96%
Cr 267.716†	138.6	0.00032 mg/L	0.000069	0.00032 mg/L	0.000069	21.51%
Cu 327.393†	162.1	0.00108 mg/L	0.000414	0.00108 mg/L	0.000414	38.39%

Approved: July 26, 2012



Method: 200.7-6010 PE-ICP2.1

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Date: 7/25/2012 12:48:17 PM

Fe 239.562†	12750.9	0.691 mg/L	0.0042	0.691 mg/L	0.0042	0.61%
Mg 279.077†	80552.1	19.0 mg/L	0.11	19.0 mg/L	0.11	0.60%
Mn 257.610†	24095.4	0.0224 mg/L	0.00017	0.0224 mg/L	0.00017	0.76%
Mo 202.031†	205.0	0.00370 mg/L	0.000081	0.00370 mg/L	0.000081	2.18%
Ni 231.604†	53.9	-0.00227 mg/L	0.000496	-0.00227 mg/L	0.000496	21.85%
Pb 220.353†	1.3	0.00030 mg/L	0.000930	0.00030 mg/L	0.000930	305.03%
Sb 206.836†	-9.8	-0.00017 mg/L	0.000160	-0.00017 mg/L	0.000160	93.62%
Se 196.026†	1.2	0.00103 mg/L	0.002880	0.00103 mg/L	0.002880	278.39%
Si 251.611†	505858.3	7.35 mg/L	0.085	7.35 mg/L	0.085	1.16%
Sn 189.927†	-294.3	-0.0170 mg/L	0.00027	-0.0170 mg/L	0.00027	1.60%
Ti 334.940†	-10189.5	0.00070 mg/L	0.000665	0.00070 mg/L	0.000665	94.77%
Tl 190.801†	-17.7	-0.00657 mg/L	0.002367	-0.00657 mg/L	0.002367	36.05%
V 290.880†	1847.6	0.00447 mg/L	0.001263	0.00447 mg/L	0.001263	28.27%
Zn 206.200†	374.1	0.00356 mg/L	0.000173	0.00356 mg/L	0.000173	4.85%
K 766.490†	8043.8	2.38 mg/L	0.015	2.38 mg/L	0.015	0.63%
Na 589.592†	483676.4	20.9 mg/L	0.03	20.9 mg/L	0.03	0.15%
Sr 407.771†	1458127.4	0.513 mg/L	0.0063	0.513 mg/L	0.0063	1.22%
Li 670.784†	2634.9	0.0126 mg/L	0.00041	0.0126 mg/L	0.00041	3.21%

Sequence No.: 16

Sample ID: L1207057901

Analyst: KHR

Initial Sample Wt:

Dilution:

u&osampler Location: 34

a&e Collected: 7/25/2012 12:41:16 PM

a&a Type: Original

n&itial Sample Vol:

a&mple Prep Vol:

Nebulizer Parameters: L1207057901

Analyte	Back Pressure	Flow
All	178.0 kPa	0.50 L/min

Mean Data: L1207057901

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	2814664.4						40761.38	1.45%
YRADIAL	337782.2						6416.28	1.90%
Ga 417.206	1638891.5						12340.76	0.75%
GaRADIAL	93853.8						917.09	0.98%
Ag 328.068†	-80.4	0.00039 mg/L	0.000240	0.00039 mg/L	0.000240	61.14%		
Al 396.153†	-88.6	-0.0208 mg/L	0.00045	-0.0208 mg/L	0.00045	2.15%		
As 188.979†	172.8	0.0349 mg/L	0.00085	0.0349 mg/L	0.00085	2.45%		
Ba 233.527†	104.1	-0.00063 mg/L	0.000047	-0.00063 mg/L	0.000047	7.42%		
Be 234.861†	83.7	0.00011 mg/L	0.000022	0.00011 mg/L	0.000022	20.00%		
B 249.677†	11789.7	0.0812 mg/L	0.00127	0.0812 mg/L	0.00127	1.57%		
Ca 227.546†	102.1	0.227 mg/L	0.0110	0.227 mg/L	0.0110	4.83%		
Cd 228.802†	0.2	-0.00015 mg/L	0.000135	-0.00015 mg/L	0.000135	90.71%		
Co 228.616†	-27.3	-0.00052 mg/L	0.000067	-0.00052 mg/L	0.000067	13.01%		
Cr 267.716†	26.7	-0.00033 mg/L	0.000082	-0.00033 mg/L	0.000082	25.02%		
Cu 327.393†	148.7	0.00102 mg/L	0.000331	0.00102 mg/L	0.000331	32.58%		
Fe 239.562†	1687.8	0.0929 mg/L	0.00084	0.0929 mg/L	0.00084	0.90%		
Mg 279.077†	163.4	0.0522 mg/L	0.00176	0.0522 mg/L	0.00176	3.36%		
Mn 257.610†	161.0	-0.00022 mg/L	0.000022	-0.00022 mg/L	0.000022	9.82%		
Mo 202.031†	267.7	0.00495 mg/L	0.000180	0.00495 mg/L	0.000180	3.65%		
Ni 231.604†	-30.4	-0.00317 mg/L	0.000224	-0.00317 mg/L	0.000224	7.08%		
Pb 220.353†	-12.4	-0.00076 mg/L	0.000423	-0.00076 mg/L	0.000423	55.66%		
Sb 206.836†	1.7	0.00162 mg/L	0.000662	0.00162 mg/L	0.000662	40.78%		
Se 196.026†	-1.3	0.00011 mg/L	0.000592	0.00011 mg/L	0.000592	514.48%		
Si 251.611†	529829.6	7.70 mg/L	0.038	7.70 mg/L	0.038	0.49%		
Sn 189.927†	-0.9	-0.00006 mg/L	0.000420	-0.00006 mg/L	0.000420	717.89%		
Ti 334.940†	-232.1	0.00062 mg/L	0.000239	0.00062 mg/L	0.000239	38.72%		
Tl 190.801†	4.9	-0.00212 mg/L	0.001245	-0.00212 mg/L	0.001245	58.63%		
V 290.880†	1266.2	0.00323 mg/L	0.001059	0.00323 mg/L	0.001059	32.76%		
Zn 206.200†	1645.9	0.0180 mg/L	0.00061	0.0180 mg/L	0.00061	3.38%		
K 766.490†	2582.4	0.584 mg/L	0.0163	0.584 mg/L	0.0163	2.79%		
Na 589.592†	3068754.7	136 mg/L	1.2	136 mg/L	1.2	0.91%		
Sr 407.771†	3763.3	0.00164 mg/L	0.000050	0.00164 mg/L	0.000050	3.03%		
Li 670.784†	222.4	-0.00292 mg/L	0.000033	-0.00292 mg/L	0.000033	1.11%		

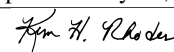
Sequence No.: 17

Sample ID: L1207059401

u&osampler Location: 35

a&e Collected: 7/25/2012 12:48:17 PM

Approved: July 26, 2012



Analyst: KHR
Initial Sample Wt:
Dilution:

alpha Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: L1207059401

Analyte Back Pressure Flow
All 178.0 kPa 0.50 L/min

Mean Data: L1207059401

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 371.029	3001424.5				10649.80	0.35%
YRADIAL	346732.7				4000.58	1.15%
Ga 417.206	1672853.0				15405.36	0.92%
GaRADIAL	94395.6				2127.68	2.25%
Ag 328.068†	-150.1	0.00018 mg/L	0.000254	0.00018 mg/L	0.000254	140.23%
Al 396.153†	-83.9	-0.0198 mg/L	0.00119	-0.0198 mg/L	0.00119	5.98%
As 188.979†	4.7	0.00185 mg/L	0.000224	0.00185 mg/L	0.000224	12.10%
Ba 233.527†	-23.6	-0.00120 mg/L	0.000034	-0.00120 mg/L	0.000034	2.86%
Be 234.861†	81.3	0.00013 mg/L	0.000017	0.00013 mg/L	0.000017	13.00%
B 249.677†	-68.7	0.00107 mg/L	0.000118	0.00107 mg/L	0.000118	11.01%
Ca 227.546†	-14.5	0.0198 mg/L	0.01032	0.0198 mg/L	0.01032	52.09%
Cd 228.802†	-3.7	-0.00003 mg/L	0.000089	-0.00003 mg/L	0.000089	268.54%
Co 228.616†	-16.5	-0.00034 mg/L	0.000116	-0.00034 mg/L	0.000116	33.85%
Cr 267.716†	3.8	-0.00046 mg/L	0.000159	-0.00046 mg/L	0.000159	34.48%
Cu 327.393†	89.7	0.00082 mg/L	0.000269	0.00082 mg/L	0.000269	32.77%
Fe 239.562†	37.1	0.00354 mg/L	0.000492	0.00354 mg/L	0.000492	13.88%
Mg 279.077†	-36.4	0.00507 mg/L	0.002483	0.00507 mg/L	0.002483	49.00%
Mn 257.610†	-8.0	-0.00038 mg/L	0.000008	-0.00038 mg/L	0.000008	2.05%
Mo 202.031†	-0.6	-0.00056 mg/L	0.000134	-0.00056 mg/L	0.000134	23.99%
Ni 231.604†	11.3	-0.00273 mg/L	0.000112	-0.00273 mg/L	0.000112	4.11%
Pb 220.353†	-2.3	-0.00022 mg/L	0.000971	-0.00022 mg/L	0.000971	436.51%
Sb 206.836†	-3.9	0.00071 mg/L	0.000489	0.00071 mg/L	0.000489	68.73%
Se 196.026†	2.5	0.00137 mg/L	0.000346	0.00137 mg/L	0.000346	25.27%
Si 251.611†	84.2	0.00710 mg/L	0.000189	0.00710 mg/L	0.000189	2.66%
Sn 189.927†	0.3	0.00001 mg/L	0.000910	0.00001 mg/L	0.000910	>999.9%
Ti 334.940†	-111.2	0.00068 mg/L	0.000019	0.00068 mg/L	0.000019	2.85%
Tl 190.801†	2.4	-0.00261 mg/L	0.001215	-0.00261 mg/L	0.001215	46.45%
V 290.880†	643.8	0.00131 mg/L	0.000697	0.00131 mg/L	0.000697	53.14%
Zn 206.200†	101.4	0.00048 mg/L	0.000093	0.00048 mg/L	0.000093	19.49%
K 766.490†	38.1	-0.0652 mg/L	0.00390	-0.0652 mg/L	0.00390	5.98%
Na 589.592†	-96.6	-0.0316 mg/L	0.00277	-0.0316 mg/L	0.00277	8.76%
Sr 407.771†	-709.2	0.00007 mg/L	0.000017	0.00007 mg/L	0.000017	23.75%
Li 670.784†	13.8	-0.00427 mg/L	0.000700	-0.00427 mg/L	0.000700	16.41%

Sequence No.: 18
Sample ID: L1207059402
Analyst: KHR
Initial Sample Wt:
Dilution:

Sampler Location: 36
Date Collected: 7/25/2012 12:55:10 PM
alpha Type: Original
Initial Sample Vol:
Sample Prep Vol:

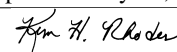
Nebulizer Parameters: L1207059402

Analyte Back Pressure Flow
All 178.0 kPa 0.50 L/min

Mean Data: L1207059402

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 371.029	2974749.8				37396.02	1.26%
YRADIAL	345323.9				1316.04	0.38%
Ga 417.206	1672918.8				52902.72	3.16%
GaRADIAL	94058.5				2865.33	3.05%
Ag 328.068†	-117.6	0.00026 mg/L	0.000231	0.00026 mg/L	0.000231	88.38%
Al 396.153†	-93.5	-0.0212 mg/L	0.00175	-0.0212 mg/L	0.00175	8.27%
As 188.979†	-2.5	0.00044 mg/L	0.000286	0.00044 mg/L	0.000286	65.34%
Ba 233.527†	-27.0	-0.00121 mg/L	0.000068	-0.00121 mg/L	0.000068	5.59%
Be 234.861†	66.5	0.00012 mg/L	0.000022	0.00012 mg/L	0.000022	18.26%

Approved: July 26, 2012



B 249.677†	-91.3	0.00092 mg/L	0.000227	0.00092 mg/L	0.000227	24.77%
Ca 227.546†	-16.1	0.0169 mg/L	0.00380	0.0169 mg/L	0.00380	22.52%
Cd 228.802†	-2.1	0.00000 mg/L	0.000077	0.00000 mg/L	0.000077	>999.9%
Co 228.616†	-15.6	-0.00033 mg/L	0.000203	-0.00033 mg/L	0.000203	61.88%
Cr 267.716†	61.8	-0.00011 mg/L	0.000092	-0.00011 mg/L	0.000092	79.96%
Cu 327.393†	123.5	0.00093 mg/L	0.000205	0.00093 mg/L	0.000205	22.12%
Fe 239.562†	55.5	0.00454 mg/L	0.000268	0.00454 mg/L	0.000268	5.90%
Mg 279.077†	-34.5	0.00551 mg/L	0.000606	0.00551 mg/L	0.000606	11.01%
Mn 257.610†	-122.3	-0.00049 mg/L	0.000014	-0.00049 mg/L	0.000014	2.86%
Mo 202.031†	9.9	-0.00034 mg/L	0.000183	-0.00034 mg/L	0.000183	53.17%
Ni 231.604†	-3.6	-0.00288 mg/L	0.000032	-0.00288 mg/L	0.000032	1.09%
Pb 220.353†	-6.9	-0.00047 mg/L	0.001490	-0.00047 mg/L	0.001490	319.62%
Sb 206.836†	-0.0	0.00132 mg/L	0.000582	0.00132 mg/L	0.000582	44.18%
Se 196.026†	3.3	0.00164 mg/L	0.001615	0.00164 mg/L	0.001615	98.57%
Si 251.611†	-13.2	0.00568 mg/L	0.000659	0.00568 mg/L	0.000659	11.60%
Sn 189.927†	-6.5	-0.00038 mg/L	0.000511	-0.00038 mg/L	0.000511	133.56%
Ti 334.940†	60.6	0.00081 mg/L	0.000076	0.00081 mg/L	0.000076	9.33%
Tl 190.801†	3.0	-0.00248 mg/L	0.000988	-0.00248 mg/L	0.000988	39.79%
V 290.880†	718.0	0.00154 mg/L	0.000396	0.00154 mg/L	0.000396	25.69%
Zn 206.200†	202.1	0.00162 mg/L	0.000086	0.00162 mg/L	0.000086	5.33%
K 766.490†	44.5	-0.0632 mg/L	0.02824	-0.0632 mg/L	0.02824	44.68%
Na 589.592†	-574.2	-0.0522 mg/L	0.00333	-0.0522 mg/L	0.00333	6.38%
Sr 407.771†	-810.6	0.00004 mg/L	0.000039	0.00004 mg/L	0.000039	104.59%
Li 670.784†	-49.5	-0.00467 mg/L	0.000300	-0.00467 mg/L	0.000300	6.41%

Sequence No.: 19
 Sample ID: L1207060501
 Analyst: KHR
 Initial Sample Wt:
 Dilution:

u&osampler Location: 37
 a&e Collected: 7/25/2012 1:02:03 PM
 a&a Type: Original
 nitial Sample Vol:
 a&ple Prep Vol:

Nebulizer Parameters: L1207060501
 Analyte Back Pressure Flow
 All 178.0 kPa 0.50 L/min

Mean Data: L1207060501

Analyte	Mean Corrected Intensity	Conc. Units	Calib. Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 371.029	2981430.3				14545.13	0.49%
YRADIAL	343727.1				5685.53	1.65%
Ga 417.206	1669405.7				15948.97	0.96%
GaRADIAL	93121.2				1605.37	1.72%
Ag 328.068†	-51.9	0.00042 mg/L	0.000264	0.00042 mg/L	0.000264	62.37%
Al 396.153†	-80.9	-0.0194 mg/L	0.00118	-0.0194 mg/L	0.00118	6.07%
As 188.979†	1.5	0.00122 mg/L	0.000386	0.00122 mg/L	0.000386	31.67%
Ba 233.527†	-20.8	-0.00119 mg/L	0.000082	-0.00119 mg/L	0.000082	6.90%
Be 234.861†	81.3	0.00013 mg/L	0.000009	0.00013 mg/L	0.000009	6.88%
B 249.677†	-135.0	0.00062 mg/L	0.000272	0.00062 mg/L	0.000272	43.76%
Ca 227.546†	-5.3	0.0362 mg/L	0.01999	0.0362 mg/L	0.01999	55.29%
Cd 228.802†	2.8	0.00005 mg/L	0.000018	0.00005 mg/L	0.000018	33.61%
Co 228.616†	-20.9	-0.00042 mg/L	0.000052	-0.00042 mg/L	0.000052	12.54%
Cr 267.716†	3.5	-0.00046 mg/L	0.000055	-0.00046 mg/L	0.000055	12.03%
Cu 327.393†	87.1	0.00081 mg/L	0.000718	0.00081 mg/L	0.000718	88.41%
Fe 239.562†	73.1	0.00549 mg/L	0.000352	0.00549 mg/L	0.000352	6.41%
Mg 279.077†	-20.5	0.00882 mg/L	0.004538	0.00882 mg/L	0.004538	51.48%
Mn 257.610†	-29.0	-0.00040 mg/L	0.000003	-0.00040 mg/L	0.000003	0.69%
Mo 202.031†	-2.3	-0.00059 mg/L	0.000103	-0.00059 mg/L	0.000103	17.39%
Ni 231.604†	0.2	-0.00284 mg/L	0.000279	-0.00284 mg/L	0.000279	9.82%
Pb 220.353†	-5.9	-0.00041 mg/L	0.000567	-0.00041 mg/L	0.000567	137.74%
Sb 206.836†	-7.5	0.00015 mg/L	0.000420	0.00015 mg/L	0.000420	279.27%
Se 196.026†	-3.3	-0.00059 mg/L	0.000737	-0.00059 mg/L	0.000737	125.33%
Si 251.611†	-31.0	0.00543 mg/L	0.000353	0.00543 mg/L	0.000353	6.50%
Sn 189.927†	-9.9	-0.00058 mg/L	0.000243	-0.00058 mg/L	0.000243	41.72%
Ti 334.940†	-102.4	0.00069 mg/L	0.000032	0.00069 mg/L	0.000032	4.65%
Tl 190.801†	4.4	-0.00222 mg/L	0.001229	-0.00222 mg/L	0.001229	55.39%
V 290.880†	835.3	0.00191 mg/L	0.000795	0.00191 mg/L	0.000795	41.65%
Zn 206.200†	172.9	0.00129 mg/L	0.001985	0.00129 mg/L	0.001985	154.27%
K 766.490†	-3.3	-0.0780 mg/L	0.04006	-0.0780 mg/L	0.04006	51.38%
Na 589.592†	-577.7	-0.0523 mg/L	0.00570	-0.0523 mg/L	0.00570	10.90%

Approved: July 26, 2012

Ken H. Rhodes

Sr 407.771†	-796.9	0.00004 mg/L	0.000032	0.00004 mg/L	0.000032	77.21%
Li 670.784†	-27.3	-0.00453 mg/L	0.000694	-0.00453 mg/L	0.000694	15.30%

Sequence No.: 20

Sampler Location: 38

Sample ID: L1207060502

Date Collected: 7/25/2012 1:08:57 PM

Analyst: KHR

Data Type: Original

Initial Sample Wt:

Initial Sample Vol:

Dilution:

Sample Prep Vol:

Nebulizer Parameters: L1207060502

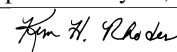
Analyte	Back Pressure	Flow
All	177.0 kPa	0.50 L/min

Mean Data: L1207060502

Analyte	Mean Corrected Intensity	Conc. Units	Calib. Units	Std.Dev.	Conc. Units	Sample Std.Dev.	RSD
Y 371.029	2959083.7					1779.34	0.06%
YRADIAL	341415.0					7714.64	2.26%
Ga 417.206	1675194.0					8191.41	0.49%
GaRADIAL	93259.1					1396.92	1.50%
Ag 328.068†	-59.3	0.00041 mg/L	0.000240	0.00041 mg/L	0.000240	59.08%	
Al 396.153†	-17.2	-0.0107 mg/L	0.00203	-0.0107 mg/L	0.00203	18.96%	
As 188.979†	-0.6	0.00080 mg/L	0.001293	0.00080 mg/L	0.001293	161.33%	
Ba 233.527†	-11.8	-0.00115 mg/L	0.000044	-0.00115 mg/L	0.000044	3.82%	
Be 234.861†	86.7	0.00013 mg/L	0.000004	0.00013 mg/L	0.000004	3.43%	
B 249.677†	-142.9	0.00057 mg/L	0.000068	0.00057 mg/L	0.000068	11.98%	
Ca 227.546†	-6.6	0.0338 mg/L	0.01467	0.0338 mg/L	0.01467	43.41%	
Cd 228.802†	3.3	0.00006 mg/L	0.000068	0.00006 mg/L	0.000068	108.54%	
Co 228.616†	-17.7	-0.00036 mg/L	0.000124	-0.00036 mg/L	0.000124	34.06%	
Cr 267.716†	5.3	-0.00045 mg/L	0.000057	-0.00045 mg/L	0.000057	12.72%	
Cu 327.393†	68.8	0.00075 mg/L	0.000131	0.00075 mg/L	0.000131	17.34%	
Fe 239.562†	139.1	0.00906 mg/L	0.000528	0.00906 mg/L	0.000528	5.82%	
Mg 279.077†	-10.8	0.0111 mg/L	0.00256	0.0111 mg/L	0.00256	23.10%	
Mn 257.610†	438.2	0.00004 mg/L	0.000003	0.00004 mg/L	0.000003	9.00%	
Mo 202.031†	-1.0	-0.00057 mg/L	0.000060	-0.00057 mg/L	0.000060	10.51%	
Ni 231.604†	-4.8	-0.00290 mg/L	0.000217	-0.00290 mg/L	0.000217	7.51%	
Pb 220.353†	1.5	-0.00002 mg/L	0.000385	-0.00002 mg/L	0.000385	>999.9%	
Sb 206.836†	-3.7	0.00074 mg/L	0.001487	0.00074 mg/L	0.001487	201.40%	
Se 196.026†	-0.2	0.00046 mg/L	0.002031	0.00046 mg/L	0.002031	443.33%	
Si 251.611†	917.0	0.0192 mg/L	0.00068	0.0192 mg/L	0.00068	3.55%	
Sn 189.927†	-4.0	-0.00024 mg/L	0.000257	-0.00024 mg/L	0.000257	107.54%	
Ti 334.940†	46.9	0.00080 mg/L	0.000044	0.00080 mg/L	0.000044	5.47%	
Tl 190.801†	3.0	-0.00248 mg/L	0.001167	-0.00248 mg/L	0.001167	46.98%	
V 290.880†	834.2	0.00190 mg/L	0.000933	0.00190 mg/L	0.000933	48.98%	
Zn 206.200†	91.9	0.00037 mg/L	0.000116	0.00037 mg/L	0.000116	31.67%	
K 766.490†	0.1	-0.0769 mg/L	0.02841	-0.0769 mg/L	0.02841	36.93%	
Na 589.592†	-106.9	-0.0320 mg/L	0.00399	-0.0320 mg/L	0.00399	12.46%	
Sr 407.771†	-587.5	0.00012 mg/L	0.000053	0.00012 mg/L	0.000053	45.73%	
Li 670.784†	19.7	-0.00423 mg/L	0.000164	-0.00423 mg/L	0.000164	3.88%	

User canceled analysis.

Approved: July 26, 2012



=====
Analysis Begun

Start Time: 7/25/2012 1:22:57 PM IASMA On Time: 7/25/2012 10:54:24 AM
 Logged In Analyst: peicp2 echnique: ICP Continuous
 Spectrometer Model: Optima 4300 DV, S/N 077N40114 Autosampler Model: Cetac

Sample Information File: C:\pe\peicp2\Sample Information\WEDNESDAY1.sif
 Batch ID:
 Results Data Set: 072512HR2
 Results Library: C:\pe\peicp2\Results\Results.mdb

=====
 Sequence No.: 1 Autosampler Location: 39
 Sample ID: L1207063601 WG404090-01 Date Collected: 7/25/2012 1:22:59 PM
 Analyst: KHR Data Type: Original
 Initial Sample Wt: Initial Sample Vol:
 Dilution: Sample Prep Vol:

 Nebulizer Parameters: L1207063601 WG404090-01
 Analyte Back Pressure Flow
 All 178.0 kPa 0.50 L/min

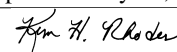
Mean Data: L1207063601 WG404090-01

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 371.029	2930007.1				12078.04	0.41%
YRADIAL	339687.4				9513.90	2.80%
Ga 417.206	1650932.3				16289.24	0.99%
GaRADIAL	94257.9				3746.05	3.97%
Ag 328.068†	-62.9	0.00039 mg/L	0.000160	0.00039 mg/L	0.000160	40.94%
Al 396.153†	-116.2	-0.0242 mg/L	0.00225	-0.0242 mg/L	0.00225	9.27%
As 188.979†	5.8	0.00206 mg/L	0.001024	0.00206 mg/L	0.001024	49.66%
Ba 233.527†	29.0	-0.00096 mg/L	0.000047	-0.00096 mg/L	0.000047	4.85%
Be 234.861†	198.8	0.00020 mg/L	0.000002	0.00020 mg/L	0.000002	1.16%
B 249.677†	-101.0	0.00085 mg/L	0.000170	0.00085 mg/L	0.000170	19.98%
Ca 227.546†	3512.4	6.25 mg/L	0.183	6.25 mg/L	0.183	2.92%
Cd 228.802†	-1.7	-0.00001 mg/L	0.000031	-0.00001 mg/L	0.000031	422.43%
Co 228.616†	0.3	-0.00005 mg/L	0.000204	-0.00005 mg/L	0.000204	372.32%
Cr 267.716†	-15.2	-0.00057 mg/L	0.000101	-0.00057 mg/L	0.000101	17.69%
Cu 327.393†	-162.8	0.00001 mg/L	0.000203	0.00001 mg/L	0.000203	>999.9%
Fe 239.562†	23.8	0.00281 mg/L	0.000221	0.00281 mg/L	0.000221	7.84%
Mg 279.077†	2016.6	0.489 mg/L	0.0242	0.489 mg/L	0.0242	4.96%
Mn 257.610†	2686.1	0.00216 mg/L	0.000083	0.00216 mg/L	0.000083	3.86%
Mo 202.031†	-2.6	-0.00060 mg/L	0.000160	-0.00060 mg/L	0.000160	26.77%
Ni 231.604†	6.8	-0.00277 mg/L	0.000137	-0.00277 mg/L	0.000137	4.92%
Pb 220.353†	2.6	0.00009 mg/L	0.001238	0.00009 mg/L	0.001238	>999.9%
Sb 206.836†	-10.1	-0.00026 mg/L	0.000789	-0.00026 mg/L	0.000789	303.22%
Se 196.026†	-0.8	0.00027 mg/L	0.003706	0.00027 mg/L	0.003706	>999.9%
Si 251.611†	-279.3	0.00182 mg/L	0.000349	0.00182 mg/L	0.000349	19.19%
Sn 189.927†	-92.4	-0.00534 mg/L	0.000313	-0.00534 mg/L	0.000313	5.85%
Ti 334.940†	-1640.1	0.00045 mg/L	0.000181	0.00045 mg/L	0.000181	40.28%
Tl 190.801†	6.1	-0.00191 mg/L	0.001511	-0.00191 mg/L	0.001511	78.98%
V 290.880†	597.2	0.00115 mg/L	0.000421	0.00115 mg/L	0.000421	36.54%
Zn 206.200†	-52.1	-0.00127 mg/L	0.000078	-0.00127 mg/L	0.000078	6.13%
K 766.490†	82.8	-0.0518 mg/L	0.02567	-0.0518 mg/L	0.02567	49.59%
Na 589.592†	7597.8	0.300 mg/L	0.0072	0.300 mg/L	0.0072	2.39%
Sr 407.771†	26461.6	0.00950 mg/L	0.000830	0.00950 mg/L	0.000830	8.73%
Li 670.784†	104.1	-0.00368 mg/L	0.000527	-0.00368 mg/L	0.000527	14.31%

=====
 Sequence No.: 2 Autosampler Location: 40
 Sample ID: L1207063601DU WG404090-04 Date Collected: 7/25/2012 1:29:53 PM
 Analyst: KHR Data Type: Original
 Initial Sample Wt: Initial Sample Vol:
 Dilution: Sample Prep Vol:

 Nebulizer Parameters: L1207063601DU WG404090-04

Approved: July 26, 2012



Analyte Back Pressure Flow
All 178.0 kPa 0.50 L/min

Mean Data: L1207063601DU WG404090-04

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc. Units	Sample Std.Dev.	RSD
Y 371.029	2904725.6					19105.90	0.66%
YRADIAL	332927.7					3420.36	1.03%
Ga 417.206	1630941.3					23711.13	1.45%
GaRADIAL	92445.8					2132.89	2.31%
Ag 328.068†	16.0	0.00059	mg/L	0.000244	0.00059	0.000244	41.73%
Al 396.153†	-118.5	-0.0246	mg/L	0.00212	-0.0246	0.00212	8.62%
As 188.979†	2.9	0.00149	mg/L	0.001059	0.00149	0.001059	70.90%
Ba 233.527†	26.7	-0.00097	mg/L	0.000087	-0.00097	0.000087	8.97%
Be 234.861†	154.3	0.00017	mg/L	0.000014	0.00017	0.000014	8.02%
B 249.677†	115.3	0.00231	mg/L	0.002780	0.00231	0.002780	120.14%
Ca 227.546†	3313.0	5.90	mg/L	0.224	5.90	0.224	3.80%
Cd 228.802†	-0.7	0.00001	mg/L	0.000068	0.00001	0.000068	861.01%
Co 228.616†	-3.1	-0.00011	mg/L	0.000080	-0.00011	0.000080	70.96%
Cr 267.716†	-14.8	-0.00057	mg/L	0.000120	-0.00057	0.000120	21.08%
Cu 327.393†	-147.6	0.00006	mg/L	0.000289	0.00006	0.000289	515.46%
Fe 239.562†	11.2	0.00213	mg/L	0.000387	0.00213	0.000387	18.15%
Mg 279.077†	2055.6	0.498	mg/L	0.0054	0.498	0.0054	1.08%
Mn 257.610†	2431.9	0.00192	mg/L	0.000044	0.00192	0.000044	2.28%
Mo 202.031†	-1.9	-0.00059	mg/L	0.000199	-0.00059	0.000199	33.99%
Ni 231.604†	-21.7	-0.00308	mg/L	0.000182	-0.00308	0.000182	5.92%
Pb 220.353†	10.7	0.00051	mg/L	0.001099	0.00051	0.001099	215.81%
Sb 206.836†	-4.4	0.00064	mg/L	0.001018	0.00064	0.001018	159.20%
Se 196.026†	-7.6	-0.00201	mg/L	0.002958	-0.00201	0.002958	146.99%
Si 251.611†	858.1	0.0183	mg/L	0.02327	0.0183	0.02327	126.90%
Sn 189.927†	-90.6	-0.00524	mg/L	0.000572	-0.00524	0.000572	10.91%
Ti 334.940†	-1606.3	0.00042	mg/L	0.000057	0.00042	0.000057	13.47%
Tl 190.801†	2.8	-0.00255	mg/L	0.001651	-0.00255	0.001651	64.84%
V 290.880†	699.2	0.00147	mg/L	0.000399	0.00147	0.000399	27.09%
Zn 206.200†	-74.0	-0.00151	mg/L	0.000084	-0.00151	0.000084	5.54%
K 766.490†	84.9	-0.0511	mg/L	0.01187	-0.0511	0.01187	23.23%
Na 589.592†	7597.1	0.300	mg/L	0.0149	0.300	0.0149	4.97%
Sr 407.771†	27014.5	0.00971	mg/L	0.000282	0.00971	0.000282	2.90%
Li 670.784†	-29.6	-0.00455	mg/L	0.000149	-0.00455	0.000149	3.27%

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Sequence No.: 3
Sample ID: L1207063601MS WG404090-05
Analyst: KHR
Initial Sample Wt:
Dilution:

u&osampler Location: 41
a&e Collected: 7/25/2012 1:36:47 PM
a&a Type: Original
nitial Sample Vol:
a&ple Prep Vol:

Nebulizer Parameters: L1207063601MS WG404090-05

Analyte Back Pressure Flow
All 178.0 kPa 0.50 L/min

Mean Data: L1207063601MS WG404090-05

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc. Units	Sample Std.Dev.	RSD
Y 371.029	2925464.4					18329.72	0.63%
YRADIAL	333110.6					7488.72	2.25%
Ga 417.206	1618907.3					18342.14	1.13%
GaRADIAL	92377.9					1512.75	1.64%
Ag 328.068†	779.5	0.00247	mg/L	0.000114	0.00247	0.000114	4.63%
Al 396.153†	248.7	0.0254	mg/L	0.00119	0.0254	0.00119	4.68%
As 188.979†	15.3	0.00391	mg/L	0.000852	0.00391	0.000852	21.82%
Ba 233.527†	1176.6	0.00414	mg/L	0.000049	0.00414	0.000049	1.18%
Be 234.861†	570.8	0.00042	mg/L	0.000008	0.00042	0.000008	1.84%
B 249.677†	1235.2	0.00987	mg/L	0.000216	0.00987	0.000216	2.19%
Ca 227.546†	3429.8	6.11	mg/L	0.093	6.11	0.093	1.52%
Cd 228.802†	12.0	0.00016	mg/L	0.000051	0.00016	0.000051	31.39%
Co 228.616†	50.2	0.00079	mg/L	0.000101	0.00079	0.000101	12.86%
Cr 267.716†	411.3	0.00197	mg/L	0.000084	0.00197	0.000084	4.25%
Cu 327.393†	597.0	0.00246	mg/L	0.000690	0.00246	0.000690	28.08%

Approved: July 26, 2012

Ken H. Rhodes

Method: 200.7-6010 PE-ICP2.1

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Date: 7/25/2012 1:50:37 PM

Fe 239.562†	362.5	0.0211 mg/L	0.00060	0.0211 mg/L	0.00060	2.86%
Mg 279.077†	2180.6	0.528 mg/L	0.0104	0.528 mg/L	0.0104	1.96%
Mn 257.610†	5221.2	0.00455 mg/L	0.00026	0.00455 mg/L	0.00026	0.57%
Mo 202.031†	243.9	0.00446 mg/L	0.00082	0.00446 mg/L	0.00082	1.84%
Ni 231.604†	263.7	-0.00005 mg/L	0.000274	-0.00005 mg/L	0.000274	549.90%
Pb 220.353†	55.7	0.00289 mg/L	0.000824	0.00289 mg/L	0.000824	28.51%
Sb 206.836†	29.8	0.00598 mg/L	0.001474	0.00598 mg/L	0.001474	24.64%
Se 196.026†	3.6	0.00178 mg/L	0.003142	0.00178 mg/L	0.003142	176.70%
Si 251.611†	1554.3	0.0284 mg/L	0.00181	0.0284 mg/L	0.00181	6.36%
Sn 189.927†	-2.8	-0.00017 mg/L	0.000634	-0.00017 mg/L	0.000634	366.15%
Ti 334.940†	4740.4	0.00529 mg/L	0.000153	0.00529 mg/L	0.000153	2.89%
Tl 190.801†	9.3	-0.00124 mg/L	0.001131	-0.00124 mg/L	0.001131	91.47%
V 290.880†	2154.9	0.00601 mg/L	0.000319	0.00601 mg/L	0.000319	5.32%
Zn 206.200†	393.4	0.00381 mg/L	0.000064	0.00381 mg/L	0.000064	1.67%
K 766.490†	1214.5	0.297 mg/L	0.0064	0.297 mg/L	0.0064	2.15%
Na 589.592†	13225.2	0.543 mg/L	0.0229	0.543 mg/L	0.0229	4.22%
Sr 407.771†	40408.8	0.0144 mg/L	0.00045	0.0144 mg/L	0.00045	3.11%
Li 670.784†	986.6	0.00200 mg/L	0.000295	0.00200 mg/L	0.000295	14.75%

Sequence No.: 4

Sample ID: L1207054901 0.01

Analyst: KHR

Initial Sample Wt:

Dilution:

u&osampler Location: 42

a&e Collected: 7/25/2012 1:43:42 PM

a&a Type: Original

n&itial Sample Vol:

a&ple Prep Vol:

Nebulizer Parameters: L1207054901 0.01

Analyte	Back Pressure	Flow
All	178.0 kPa	0.50 L/min

Mean Data: L1207054901 0.01

Analyte	Mean Corrected Intensity	Conc. Units	Calib. Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 371.029	2924309.0				26460.47	0.90%
YRADIAL	335806.5				2098.13	0.62%
Ga 417.206	1634732.8				33051.63	2.02%
GaRADIAL	91487.6				2574.93	2.81%
Ag 328.068†	-45.1	0.00044 mg/L	0.000604	0.00044 mg/L	0.000604	135.88%
Al 396.153†	-103.3	-0.0225 mg/L	0.00260	-0.0225 mg/L	0.00260	11.59%
As 188.979†	2.6	0.00144 mg/L	0.001255	0.00144 mg/L	0.001255	87.06%
Ba 233.527†	2038.6	0.00798 mg/L	0.000047	0.00798 mg/L	0.000047	0.58%
Be 234.861†	167.8	0.00018 mg/L	0.000008	0.00018 mg/L	0.000008	4.31%
B 249.677†	591.7	0.00552 mg/L	0.000300	0.00552 mg/L	0.000300	5.43%
Ca 227.546†	155.7	0.321 mg/L	0.0324	0.321 mg/L	0.0324	10.10%
Cd 228.802†	-2.6	-0.00002 mg/L	0.000034	-0.00002 mg/L	0.000034	210.99%
Co 228.616†	-7.5	-0.00019 mg/L	0.000193	-0.00019 mg/L	0.000193	99.40%
Cr 267.716†	-29.7	-0.00066 mg/L	0.000058	-0.00066 mg/L	0.000058	8.76%
Cu 327.393†	12.5	0.00057 mg/L	0.000453	0.00057 mg/L	0.000453	79.17%
Fe 239.562†	424.1	0.0245 mg/L	0.00070	0.0245 mg/L	0.00070	2.84%
Mg 279.077†	373.5	0.102 mg/L	0.0011	0.102 mg/L	0.0011	1.08%
Mn 257.610†	440.9	0.00004 mg/L	0.000004	0.00004 mg/L	0.000004	10.99%
Mo 202.031†	-10.1	-0.00075 mg/L	0.000178	-0.00075 mg/L	0.000178	23.69%
Ni 231.604†	0.8	-0.00284 mg/L	0.000059	-0.00284 mg/L	0.000059	2.07%
Pb 220.353†	-9.7	-0.00061 mg/L	0.000480	-0.00061 mg/L	0.000480	78.48%
Sb 206.836†	-6.0	0.00038 mg/L	0.001012	0.00038 mg/L	0.001012	265.78%
Se 196.026†	-4.3	-0.00089 mg/L	0.002733	-0.00089 mg/L	0.002733	306.74%
Si 251.611†	2431.5	0.0412 mg/L	0.00147	0.0412 mg/L	0.00147	3.56%
Sn 189.927†	-20.4	-0.00119 mg/L	0.000532	-0.00119 mg/L	0.000532	44.80%
Ti 334.940†	-279.1	0.00060 mg/L	0.000046	0.00060 mg/L	0.000046	7.79%
Tl 190.801†	11.6	-0.00086 mg/L	0.000943	-0.00086 mg/L	0.000943	109.21%
V 290.880†	441.2	0.00067 mg/L	0.000899	0.00067 mg/L	0.000899	133.51%
Zn 206.200†	-63.2	-0.00139 mg/L	0.000083	-0.00139 mg/L	0.000083	5.96%
K 766.490†	504.6	0.0757 mg/L	0.00946	0.0757 mg/L	0.00946	12.50%
Na 589.592†	71044.0	3.04 mg/L	0.110	3.04 mg/L	0.110	3.61%
Sr 407.771†	14711.5	0.00550 mg/L	0.000118	0.00550 mg/L	0.000118	2.14%
Li 670.784†	109.9	-0.00365 mg/L	0.000160	-0.00365 mg/L	0.000160	4.39%

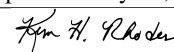
Sequence No.: 5

Sample ID: CCV

u&osampler Location: 6

a&e Collected: 7/25/2012 1:50:37 PM

Approved: July 26, 2012



Analyst: aha Type: Original
 Initial Sample Wt: nitial Sample Vol:
 Dilution: ample Prep Vol:

Nebulizer Parameters: CCV

Analyte Back Pressure Flow
 All 177.0 kPa 0.50 L/min

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 371.029	2809761.5				13752.59	0.49%
YRADIAL	331130.9				993.58	0.30%
Ga 417.206	1481654.0				51409.98	3.47%
GaRADIAL	88593.2				878.02	0.99%
Ag 328.068†	163720.6	0.404 mg/L	0.0156	0.404 mg/L	0.0156	3.86%
QC value within limits for Ag	328.068	Recovery = 101.12%				
Al 396.153†	73495.7	9.99 mg/L	0.024	9.99 mg/L	0.024	0.24%
QC value within limits for Al	396.153	Recovery = 99.90%				
As 188.979†	2077.0	0.404 mg/L	0.0128	0.404 mg/L	0.0128	3.15%
QC value within limits for As	188.979	Recovery = 101.05%				
Ba 233.527†	228354.5	1.02 mg/L	0.003	1.02 mg/L	0.003	0.27%
QC value within limits for Ba	233.527	Recovery = 101.52%				
Be 234.861†	84005.2	0.0500 mg/L	0.00228	0.0500 mg/L	0.00228	4.56%
QC value within limits for Be	234.861	Recovery = 99.95%				
B 249.677†	73098.8	0.492 mg/L	0.0231	0.492 mg/L	0.0231	4.70%
QC value within limits for B	249.677	Recovery = 98.33%				
Ca 227.546†	5627.2	10.5 mg/L	0.38	10.5 mg/L	0.38	3.64%
QC value within limits for Ca	227.546	Recovery = 104.75%				
Cd 228.802†	3892.0	0.0487 mg/L	0.00291	0.0487 mg/L	0.00291	5.98%
QC value within limits for Cd	228.802	Recovery = 97.34%				
Co 228.616†	12114.4	0.204 mg/L	0.0020	0.204 mg/L	0.0020	0.99%
QC value within limits for Co	228.616	Recovery = 102.14%				
Cr 267.716†	84763.1	0.504 mg/L	0.0057	0.504 mg/L	0.0057	1.14%
QC value within limits for Cr	267.716	Recovery = 100.82%				
Cu 327.393†	156786.6	0.506 mg/L	0.0169	0.506 mg/L	0.0169	3.35%
QC value within limits for Cu	327.393	Recovery = 101.19%				
Fe 239.562†	74501.6	4.03 mg/L	0.029	4.03 mg/L	0.029	0.72%
QC value within limits for Fe	239.562	Recovery = 100.85%				
Mg 279.077†	42679.4	10.1 mg/L	0.12	10.1 mg/L	0.12	1.22%
QC value within limits for Mg	279.077	Recovery = 100.91%				
Mn 257.610†	540751.8	0.510 mg/L	0.0029	0.510 mg/L	0.0029	0.57%
QC value within limits for Mn	257.610	Recovery = 102.05%				
Mo 202.031†	50157.1	1.03 mg/L	0.005	1.03 mg/L	0.005	0.53%
QC value within limits for Mo	202.031	Recovery = 102.86%				
Ni 231.604†	49980.2	0.527 mg/L	0.0045	0.527 mg/L	0.0045	0.85%
QC value within limits for Ni	231.604	Recovery = 105.38%				
Pb 220.353†	9730.1	0.515 mg/L	0.0033	0.515 mg/L	0.0033	0.64%
QC value within limits for Pb	220.353	Recovery = 102.92%				
Sb 206.836†	7804.7	1.22 mg/L	0.047	1.22 mg/L	0.047	3.81%
QC value within limits for Sb	206.836	Recovery = 101.96%				
Se 196.026†	1216.3	0.413 mg/L	0.0177	0.413 mg/L	0.0177	4.29%
QC value within limits for Se	196.026	Recovery = 103.13%				
Si 251.611†	352752.0	5.12 mg/L	0.091	5.12 mg/L	0.091	1.77%
QC value within limits for Si	251.611	Recovery = 102.34%				
Sn 189.927†	17876.7	1.03 mg/L	0.007	1.03 mg/L	0.007	0.68%
QC value within limits for Sn	189.927	Recovery = 103.14%				
Ti 334.940†	1328812.1	1.01 mg/L	0.003	1.01 mg/L	0.003	0.32%
QC value within limits for Ti	334.940	Recovery = 101.42%				
Tl 190.801†	2761.4	0.540 mg/L	0.0030	0.540 mg/L	0.0030	0.55%
QC value within limits for Tl	190.801	Recovery = 107.95%				
V 290.880†	324139.5	1.01 mg/L	0.005	1.01 mg/L	0.005	0.54%
QC value within limits for V	290.880	Recovery = 101.00%				
Zn 206.200†	89787.9	1.02 mg/L	0.012	1.02 mg/L	0.012	1.18%
QC value within limits for Zn	206.200	Recovery = 102.24%				
K 766.490†	161194.7	49.8 mg/L	0.27	49.8 mg/L	0.27	0.55%
QC value within limits for K	766.490	Recovery = 99.61%				
Na 589.592†	1148917.0	50.0 mg/L	0.71	50.0 mg/L	0.71	1.43%
QC value within limits for Na	589.592	Recovery = 99.91%				
Sr 407.771†	2874994.5	1.01 mg/L	0.008	1.01 mg/L	0.008	0.76%

Approved: July 26, 2012

Ann H. Rhodes

QC value within limits for Sr 407.771 Recovery = 101.26%
 Li 670.784† 158582.2 1.02 mg/L 0.006 1.02 mg/L 0.006 0.56%
 QC value within limits for Li 670.784 Recovery = 101.78%
 All analyte(s) passed QC.

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Sequence No.: 6	u&osampler Location: 1
Sample ID: CCB	ate Collected: 7/25/2012 1:56:37 PM
Analyst:	ata Type: Original
Initial Sample Wt:	nitial Sample Vol:
Dilution:	ample Prep Vol:

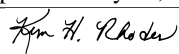
Nebulizer Parameters: CCB

Analyte	Back Pressure	Flow
All	177.0 kPa	0.50 L/min

Mean Data: CCB

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 371.029	2960482.0				4499.25	0.15%
YRADIAL	338290.3				2096.48	0.62%
Ga 417.206	1556080.0				1760.48	0.11%
GaRADIAL	90613.6				2110.45	2.33%
Ag 328.068†	-83.4	0.00034 mg/L	0.000206	0.00034 mg/L	0.000206	60.42%
QC value within limits for Ag 328.068			Recovery =	Not calculated		
Al 396.153†	-2.6	-0.00870 mg/L	0.002151	-0.00870 mg/L	0.002151	24.73%
QC value within limits for Al 396.153			Recovery =	Not calculated		
As 188.979†	-2.7	0.00040 mg/L	0.002432	0.00040 mg/L	0.002432	606.13%
QC value within limits for As 188.979			Recovery =	Not calculated		
Ba 233.527†	-25.7	-0.00121 mg/L	0.000086	-0.00121 mg/L	0.000086	7.15%
QC value within limits for Ba 233.527			Recovery =	Not calculated		
Be 234.861†	-38.6	0.00006 mg/L	0.000014	0.00006 mg/L	0.000014	24.26%
QC value within limits for Be 234.861			Recovery =	Not calculated		
B 249.677†	168.6	0.00267 mg/L	0.000045	0.00267 mg/L	0.000045	1.69%
QC value within limits for B 249.677			Recovery =	Not calculated		
Ca 227.546†	-0.9	0.0438 mg/L	0.02364	0.0438 mg/L	0.02364	54.01%
QC value within limits for Ca 227.546			Recovery =	Not calculated		
Cd 228.802†	5.7	0.00010 mg/L	0.000084	0.00010 mg/L	0.000084	87.61%
QC value within limits for Cd 228.802			Recovery =	Not calculated		
Co 228.616†	-14.9	-0.00032 mg/L	0.000111	-0.00032 mg/L	0.000111	35.30%
QC value within limits for Co 228.616			Recovery =	Not calculated		
Cr 267.716†	8.0	-0.00044 mg/L	0.000070	-0.00044 mg/L	0.000070	16.02%
QC value within limits for Cr 267.716			Recovery =	Not calculated		
Cu 327.393†	-4.0	0.00052 mg/L	0.000379	0.00052 mg/L	0.000379	73.18%
QC value within limits for Cu 327.393			Recovery =	Not calculated		
Fe 239.562†	15.6	0.00238 mg/L	0.000442	0.00238 mg/L	0.000442	18.56%
QC value within limits for Fe 239.562			Recovery =	Not calculated		
Mg 279.077†	-6.0	0.0122 mg/L	0.00195	0.0122 mg/L	0.00195	15.92%
QC value within limits for Mg 279.077			Recovery =	Not calculated		
Mn 257.610†	-139.7	-0.00051 mg/L	0.000008	-0.00051 mg/L	0.000008	1.51%
QC value within limits for Mn 257.610			Recovery =	Not calculated		
Mo 202.031†	9.3	-0.00036 mg/L	0.000013	-0.00036 mg/L	0.000013	3.64%
QC value within limits for Mo 202.031			Recovery =	Not calculated		
Ni 231.604†	-4.7	-0.00290 mg/L	0.000076	-0.00290 mg/L	0.000076	2.63%
QC value within limits for Ni 231.604			Recovery =	Not calculated		
Pb 220.353†	-3.5	-0.00028 mg/L	0.000395	-0.00028 mg/L	0.000395	139.87%
QC value within limits for Pb 220.353			Recovery =	Not calculated		
Sb 206.836†	-1.0	0.00116 mg/L	0.000426	0.00116 mg/L	0.000426	36.80%
QC value within limits for Sb 206.836			Recovery =	Not calculated		
Se 196.026†	1.5	0.00106 mg/L	0.002016	0.00106 mg/L	0.002016	190.05%
QC value within limits for Se 196.026			Recovery =	Not calculated		
Si 251.611†	-383.8	0.00030 mg/L	0.000285	0.00030 mg/L	0.000285	94.76%
QC value within limits for Si 251.611			Recovery =	Not calculated		
Sn 189.927†	20.4	0.00117 mg/L	0.000595	0.00117 mg/L	0.000595	51.06%
QC value within limits for Sn 189.927			Recovery =	Not calculated		
Ti 334.940†	-32.9	0.00074 mg/L	0.000012	0.00074 mg/L	0.000012	1.59%
QC value within limits for Ti 334.940			Recovery =	Not calculated		
Tl 190.801†	0.8	-0.00291 mg/L	0.001923	-0.00291 mg/L	0.001923	66.03%
QC value within limits for Tl 190.801			Recovery =	Not calculated		
V 290.880†	134.6	-0.00028 mg/L	0.000646	-0.00028 mg/L	0.000646	232.08%

Approved: July 26, 2012



QC value within limits for V 290.880 Recovery = Not calculated
 Zn 206.200† -103.8 -0.00185 mg/L 0.000124 -0.00185 mg/L 0.000124 6.68%
 QC value within limits for Zn 206.200 Recovery = Not calculated
 K 766.490† 112.2 -0.0423 mg/L 0.02842 -0.0423 mg/L 0.02842 67.14%
 QC value within limits for K 766.490 Recovery = Not calculated
 Na 589.592† -405.0 -0.0449 mg/L 0.00729 -0.0449 mg/L 0.00729 16.25%
 QC value within limits for Na 589.592 Recovery = Not calculated
 Sr 407.771† -149.8 0.00027 mg/L 0.000009 0.00027 mg/L 0.000009 3.34%
 QC value within limits for Sr 407.771 Recovery = Not calculated
 Li 670.784† -23.9 -0.00451 mg/L 0.000690 -0.00451 mg/L 0.000690 15.29%
 QC value within limits for Li 670.784 Recovery = Not calculated
 All analyte(s) passed QC.
 User canceled analysis.

Approved: July 26, 2012

Ann H. Rhodes

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Analysis Begun

Start Time: 7/25/2012 2:01:16 PM Plasma On Time: 7/25/2012 10:54:24 AM
 Logged In Analyst: peicp2 Technique: ICP Continuous
 Spectrometer Model: Optima 4300 DV, S/N 077N40114 Autosampler Model: Cetac

Sample Information File: C:\pe\peicp2\Sample Information\WEDNESDAY1.sif
 Batch ID:
 Results Data Set: 072512HR2
 Results Library: C:\pe\peicp2\Results\Results.mdb

=====
 Sequence No.: 1 Autosampler Location: 57
 Sample ID: PBW 45 WG404445-02 Date Collected: 7/25/2012 2:01:18 PM
 Analyst: KHR Date Type: Original
 Initial Sample Wt: Initial Sample Vol:
 Dilution: Sample Prep Vol:

 Nebulizer Parameters: PBW 45 WG404445-02
 Analyte Back Pressure Flow
 All 177.0 kPa 0.50 L/min

Mean Data: PBW 45 WG404445-02

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 371.029	2982682.4				11475.13	0.38%
YRADIAL	339843.1				2076.09	0.61%
Ga 417.206	1529113.9				25799.01	1.69%
GaRADIAL	93469.0				2685.58	2.87%
Ag 328.068†	-156.0	0.00016 mg/L	0.000330	0.00016 mg/L	0.000330	201.84%
Al 396.153†	-86.3	-0.0202 mg/L	0.00117	-0.0202 mg/L	0.00117	5.78%
As 188.979†	-7.7	-0.00059 mg/L	0.001276	-0.00059 mg/L	0.001276	215.93%
Ba 233.527†	-70.1	-0.00140 mg/L	0.000069	-0.00140 mg/L	0.000069	4.93%
Be 234.861†	-335.5	-0.00012 mg/L	0.000002	-0.00012 mg/L	0.000002	1.58%
B 249.677†	-119.8	0.00072 mg/L	0.000029	0.00072 mg/L	0.000029	4.06%
Ca 227.546†	-4.3	0.0374 mg/L	0.02431	0.0374 mg/L	0.02431	65.05%
Cd 228.802†	12.3	0.00019 mg/L	0.000076	0.00019 mg/L	0.000076	41.09%
Co 228.616†	-11.3	-0.00025 mg/L	0.000029	-0.00025 mg/L	0.000029	11.40%
Cr 267.716†	39.4	-0.00025 mg/L	0.000056	-0.00025 mg/L	0.000056	22.63%
Cu 327.393†	182.1	0.00112 mg/L	0.000588	0.00112 mg/L	0.000588	52.72%
Fe 239.562†	20.5	0.00265 mg/L	0.000511	0.00265 mg/L	0.000511	19.31%
Mg 279.077†	104.1	0.0382 mg/L	0.00194	0.0382 mg/L	0.00194	5.07%
Mn 257.610†	-18.9	-0.00040 mg/L	0.000012	-0.00040 mg/L	0.000012	3.06%
Mo 202.031†	23.2	-0.00007 mg/L	0.000107	-0.00007 mg/L	0.000107	147.55%
Ni 231.604†	-52.9	-0.00341 mg/L	0.000209	-0.00341 mg/L	0.000209	6.14%
Pb 220.353†	-7.9	-0.00052 mg/L	0.000154	-0.00052 mg/L	0.000154	29.76%
Sb 206.836†	3.9	0.00193 mg/L	0.001008	0.00193 mg/L	0.001008	52.10%
Se 196.026†	20.6	0.00748 mg/L	0.001685	0.00748 mg/L	0.001685	22.51%
Si 251.611†	-383.7	0.00030 mg/L	0.000180	0.00030 mg/L	0.000180	60.38%
Sn 189.927†	12.0	0.00068 mg/L	0.000693	0.00068 mg/L	0.000693	101.12%
Ti 334.940†	-47.6	0.00073 mg/L	0.000076	0.00073 mg/L	0.000076	10.34%
Tl 190.801†	-17.1	-0.00634 mg/L	0.001904	-0.00634 mg/L	0.001904	30.02%
V 290.880†	181.7	-0.00013 mg/L	0.000584	-0.00013 mg/L	0.000584	442.12%
Zn 206.200†	30.0	-0.00033 mg/L	0.000043	-0.00033 mg/L	0.000043	12.94%
K 766.490†	70.3	-0.0553 mg/L	0.01285	-0.0553 mg/L	0.01285	23.25%
Na 589.592†	-62.6	-0.0301 mg/L	0.00677	-0.0301 mg/L	0.00677	22.48%
Sr 407.771†	183.6	0.00039 mg/L	0.000012	0.00039 mg/L	0.000012	3.11%
Li 670.784†	-88.5	-0.00493 mg/L	0.000393	-0.00493 mg/L	0.000393	7.98%

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 Sequence No.: 2 Autosampler Location: 58
 Sample ID: LCSW 45 WG404445-03 Date Collected: 7/25/2012 2:08:14 PM
 Analyst: KHR Date Type: Original
 Initial Sample Wt: Initial Sample Vol:
 Dilution: Sample Prep Vol:

 Nebulizer Parameters: LCSW 45 WG404445-03

Approved: July 26, 2012

Ken H. Rhodes

Analyte Back Pressure Flow
All 177.0 kPa 0.50 L/min

Mean Data: LCSW 45 WG404445-03

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 371.029	2884028.7				31247.46	1.08%
YRADIAL	330674.3				5368.80	1.62%
Ga 417.206	1496784.4				23465.92	1.57%
GaRADIAL	87673.5				1337.76	1.53%
Ag 328.068†	83247.8	0.206 mg/L	0.0041	0.206 mg/L	0.0041	1.99%
Al 396.153†	36969.4	5.02 mg/L	0.024	5.02 mg/L	0.024	0.47%
As 188.979†	1009.4	0.197 mg/L	0.0045	0.197 mg/L	0.0045	2.30%
Ba 233.527†	117531.1	0.522 mg/L	0.0065	0.522 mg/L	0.0065	1.25%
Be 234.861†	40544.5	0.0242 mg/L	0.00067	0.0242 mg/L	0.00067	2.79%
B 249.677†	140695.1	0.950 mg/L	0.0208	0.950 mg/L	0.0208	2.19%
Ca 227.546†	2852.8	5.32 mg/L	0.106	5.32 mg/L	0.106	1.99%
Cd 228.802†	1929.1	0.0242 mg/L	0.00099	0.0242 mg/L	0.00099	4.10%
Co 228.616†	6120.3	0.103 mg/L	0.0010	0.103 mg/L	0.0010	0.99%
Cr 267.716†	43500.5	0.258 mg/L	0.0052	0.258 mg/L	0.0052	1.99%
Cu 327.393†	79598.1	0.257 mg/L	0.0039	0.257 mg/L	0.0039	1.53%
Fe 239.562†	37111.5	2.01 mg/L	0.014	2.01 mg/L	0.014	0.69%
Mg 279.077†	22051.5	5.22 mg/L	0.050	5.22 mg/L	0.050	0.97%
Mn 257.610†	279603.8	0.264 mg/L	0.0016	0.264 mg/L	0.0016	0.63%
Mo 202.031†	25589.2	0.524 mg/L	0.0060	0.524 mg/L	0.0060	1.14%
Ni 231.604†	24273.1	0.254 mg/L	0.0019	0.254 mg/L	0.0019	0.73%
Pb 220.353†	4827.3	0.255 mg/L	0.0026	0.255 mg/L	0.0026	1.03%
Sb 206.836†	3927.4	0.616 mg/L	0.0133	0.616 mg/L	0.0133	2.16%
Se 196.026†	605.8	0.206 mg/L	0.0031	0.206 mg/L	0.0031	1.53%
Si 251.611†	178923.0	2.60 mg/L	0.035	2.60 mg/L	0.035	1.36%
Sn 189.927†	-63.1	-0.00365 mg/L	0.000348	-0.00365 mg/L	0.000348	9.54%
Ti 334.940†	665036.6	0.508 mg/L	0.0016	0.508 mg/L	0.0016	0.31%
Tl 190.801†	1352.5	0.263 mg/L	0.0060	0.263 mg/L	0.0060	2.28%
V 290.880†	168412.7	0.524 mg/L	0.0109	0.524 mg/L	0.0109	2.09%
Zn 206.200†	45525.9	0.518 mg/L	0.0112	0.518 mg/L	0.0112	2.17%
K 766.490†	81064.8	25.0 mg/L	0.16	25.0 mg/L	0.16	0.66%
Na 589.592†	607770.5	26.3 mg/L	0.21	26.3 mg/L	0.21	0.80%
Sr 407.771†	1476424.9	0.520 mg/L	0.0047	0.520 mg/L	0.0047	0.90%
Li 670.784†	80890.8	0.517 mg/L	0.0035	0.517 mg/L	0.0035	0.68%

User canceled analysis.

Approved: July 26, 2012

Ann H. Rhodes

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Analysis Begun

Start Time: 7/25/2012 2:15:01 PM lbsma On Time: 7/25/2012 10:54:24 AM
 Logged In Analyst: peicp2 eTechnique: ICP Continuous
 Spectrometer Model: Optima 4300 DV, S/N 077N40114 Autosampler Model: Cetac

Sample Information File: C:\pe\peicp2\Sample Information\WEDNESDAY1.sif
 Batch ID:
 Results Data Set: 072512HR2
 Results Library: C:\pe\peicp2\Results\Results.mdb

=====
 Sequence No.: 1 Autosampler Location: 59
 Sample ID: FBLK1 WG404382-01 Date Collected: 7/25/2012 2:15:03 PM
 Analyst: KHR Date Type: Original
 Initial Sample Wt: Initial Sample Vol:
 Dilution: Sample Prep Vol:

 Nebulizer Parameters: FBLK1 WG404382-01
 Analyte Back Pressure Flow
 All 177.0 kPa 0.50 L/min

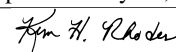
Mean Data: FBLK1 WG404382-01

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 371.029	2834380.5				28736.23	1.01%
YRADIAL	328397.7				5015.57	1.53%
Ga 417.206	1514205.1				28128.13	1.86%
GaRADIAL	89038.4				1801.10	2.02%
Ag 328.068†	-196.5	0.00010 mg/L	0.000258	0.00010 mg/L	0.000258	261.49%
Al 396.153†	505.0	0.0608 mg/L	0.00106	0.0608 mg/L	0.00106	1.74%
As 188.979†	-11.2	-0.00126 mg/L	0.001336	-0.00126 mg/L	0.001336	105.67%
Ba 233.527†	44.1	-0.00090 mg/L	0.000097	-0.00090 mg/L	0.000097	10.82%
Be 234.861†	-322.3	-0.00013 mg/L	0.000007	-0.00013 mg/L	0.000007	5.40%
B 249.677†	277.1	0.00337 mg/L	0.000374	0.00337 mg/L	0.000374	11.08%
Ca 227.546†	50.3	0.136 mg/L	0.0182	0.136 mg/L	0.0182	13.40%
Cd 228.802†	16.5	0.00024 mg/L	0.000139	0.00024 mg/L	0.000139	57.48%
Co 228.616†	-18.2	-0.00038 mg/L	0.000171	-0.00038 mg/L	0.000171	44.71%
Cr 267.716†	70.9	-0.00006 mg/L	0.000086	-0.00006 mg/L	0.000086	138.21%
Cu 327.393†	250.0	0.00134 mg/L	0.000617	0.00134 mg/L	0.000617	45.91%
Fe 239.562†	1346.0	0.0744 mg/L	0.00041	0.0744 mg/L	0.00041	0.55%
Mg 279.077†	321.6	0.0895 mg/L	0.00210	0.0895 mg/L	0.00210	2.35%
Mn 257.610†	2691.4	0.00216 mg/L	0.000030	0.00216 mg/L	0.000030	1.38%
Mo 202.031†	60.5	0.00070 mg/L	0.000079	0.00070 mg/L	0.000079	11.37%
Ni 231.604†	2.9	-0.00281 mg/L	0.000085	-0.00281 mg/L	0.000085	3.03%
Pb 220.353†	-14.0	-0.00083 mg/L	0.000684	-0.00083 mg/L	0.000684	82.45%
Sb 206.836†	6.5	0.00235 mg/L	0.001774	0.00235 mg/L	0.001774	75.62%
Se 196.026†	17.0	0.00628 mg/L	0.001611	0.00628 mg/L	0.001611	25.65%
Si 251.611†	15762.7	0.235 mg/L	0.0060	0.235 mg/L	0.0060	2.55%
Sn 189.927†	-1.4	-0.00009 mg/L	0.000083	-0.00009 mg/L	0.000083	89.62%
Ti 334.940†	6247.0	0.00554 mg/L	0.000147	0.00554 mg/L	0.000147	2.66%
Tl 190.801†	-30.4	-0.00883 mg/L	0.002747	-0.00883 mg/L	0.002747	31.11%
V 290.880†	970.8	0.00232 mg/L	0.001225	0.00232 mg/L	0.001225	52.79%
Zn 206.200†	198.7	0.00158 mg/L	0.000051	0.00158 mg/L	0.000051	3.24%
K 766.490†	644.6	-0.0226 mg/L	0.00214	-0.0226 mg/L	0.00214	9.47%
Na 589.592†	3265542.8	145 mg/L	2.3	145 mg/L	2.3	1.57%
Sr 407.771†	1664.3	0.00091 mg/L	0.000027	0.00091 mg/L	0.000027	2.96%
Li 670.784†	81.3	-0.00383 mg/L	0.000021	-0.00383 mg/L	0.000021	0.55%

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 Sequence No.: 2 Autosampler Location: 60
 Sample ID: FBLK2 WG404382-02 Date Collected: 7/25/2012 2:22:00 PM
 Analyst: KHR Date Type: Original
 Initial Sample Wt: Initial Sample Vol:
 Dilution: Sample Prep Vol:

 Nebulizer Parameters: FBLK2 WG404382-02

Approved: July 26, 2012



Analyte Back Pressure Flow
All 177.0 kPa 0.50 L/min

Mean Data: FBLK2 WG404382-02

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc. Units	Sample Std.Dev.	RSD
Y 371.029	2990601.2					17370.71	0.58%
YRADIAL	341194.0					4530.45	1.33%
Ga 417.206	1550221.7					28185.89	1.82%
GaRADIAL	92816.6					1842.04	1.98%
Ag 328.068†	-102.3	0.00034	mg/L	0.000427	0.00034	0.000427	126.70%
Al 396.153†	531.4	0.0644	mg/L	0.00087	0.0644	0.00087	1.36%
As 188.979†	-11.5	-0.00133	mg/L	0.000416	-0.00133	0.000416	31.29%
Ba 233.527†	17.7	-0.00102	mg/L	0.000057	-0.00102	0.000057	5.63%
Be 234.861†	-223.9	-0.00008	mg/L	0.000013	-0.00008	0.000013	17.16%
B 249.677†	-43.4	0.00119	mg/L	0.000072	0.00119	0.000072	6.03%
Ca 227.546†	60.9	0.155	mg/L	0.0232	0.155	0.0232	14.94%
Cd 228.802†	15.2	0.00023	mg/L	0.000032	0.00023	0.000032	14.27%
Co 228.616†	-16.5	-0.00035	mg/L	0.000072	-0.00035	0.000072	20.41%
Cr 267.716†	49.4	-0.00019	mg/L	0.000104	-0.00019	0.000104	54.16%
Cu 327.393†	325.2	0.00159	mg/L	0.000382	0.00159	0.000382	24.10%
Fe 239.562†	1934.8	0.106	mg/L	0.0010	0.106	0.0010	0.98%
Mg 279.077†	244.3	0.0712	mg/L	0.00188	0.0712	0.00188	2.64%
Mn 257.610†	4376.9	0.00375	mg/L	0.000024	0.00375	0.000024	0.65%
Mo 202.031†	35.6	0.00019	mg/L	0.000257	0.00019	0.000257	136.54%
Ni 231.604†	-17.5	-0.00303	mg/L	0.000167	-0.00303	0.000167	5.53%
Pb 220.353†	5.8	0.00021	mg/L	0.000832	0.00021	0.000832	393.16%
Sb 206.836†	2.7	0.00175	mg/L	0.000352	0.00175	0.000352	20.10%
Se 196.026†	14.0	0.00529	mg/L	0.001934	0.00529	0.001934	36.58%
Si 251.611†	10283.5	0.155	mg/L	0.0019	0.155	0.0019	1.20%
Sn 189.927†	4.6	0.00026	mg/L	0.000290	0.00026	0.000290	112.00%
Ti 334.940†	7109.9	0.00620	mg/L	0.000082	0.00620	0.000082	1.32%
Tl 190.801†	-22.8	-0.00737	mg/L	0.000221	-0.00737	0.000221	2.99%
V 290.880†	235.5	0.00002	mg/L	0.000602	0.00002	0.000602	>999.9%
Zn 206.200†	230.0	0.00193	mg/L	0.000149	0.00193	0.000149	7.68%
K 766.490†	473.7	0.0692	mg/L	0.00751	0.0692	0.00751	10.85%
Na 589.592†	376.2	-0.0112	mg/L	0.00439	-0.0112	0.00439	39.21%
Sr 407.771†	619.2	0.00054	mg/L	0.000019	0.00054	0.000019	3.53%
Li 670.784†	72.4	-0.00389	mg/L	0.000094	-0.00389	0.000094	2.41%

Sequence No.: 3
Sample ID: L1207067505 WG404445-01
Analyst: KHR
Initial Sample Wt:
Dilution:

u&osampler Location: 61
a&e Collected: 7/25/2012 2:28:54 PM
a&a Type: Original
nitial Sample Vol:
a&ple Prep Vol:

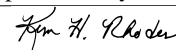
Nebulizer Parameters: L1207067505 WG404445-01

Analyte Back Pressure Flow
All 178.0 kPa 0.50 L/min

Mean Data: L1207067505 WG404445-01

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc. Units	Sample Std.Dev.	RSD
Y 371.029	2786395.9					21854.53	0.78%
YRADIAL	336586.6					4098.61	1.22%
Ga 417.206	1475169.0					53765.33	3.64%
GaRADIAL	88914.3					1322.80	1.49%
Ag 328.068†	630.8	0.00182	mg/L	0.000355	0.00182	0.000355	19.54%
Al 396.153†	2803.9	0.375	mg/L	0.0145	0.375	0.0145	3.85%
As 188.979†	-35.9	-0.00604	mg/L	0.002367	-0.00604	0.002367	39.18%
Ba 233.527†	4471.6	0.0188	mg/L	0.00013	0.0188	0.00013	0.68%
Be 234.861†	-126.1	0.00029	mg/L	0.000055	0.00029	0.000055	19.21%
B 249.677†	26802.4	0.182	mg/L	0.0077	0.182	0.0077	4.20%
Ca 227.546†	23621.3	41.8	mg/L	1.97	41.8	1.97	4.72%
Cd 228.802†	27.8	0.00042	mg/L	0.000125	0.00042	0.000125	29.98%
Co 228.616†	36.6	0.00055	mg/L	0.000259	0.00055	0.000259	46.83%
Cr 267.716†	437.8	0.00210	mg/L	0.000220	0.00210	0.000220	10.50%
Cu 327.393†	625.4	0.00256	mg/L	0.000430	0.00256	0.000430	16.77%

Approved: July 26, 2012



Method: 200.7-6010 PE-ICP2.1

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Date: 7/25/2012 2:40:52 PM

Fe 239.562†	14615.2	0.792 mg/L	0.0052	0.792 mg/L	0.0052	0.66%
Mg 279.077†	50057.1	11.8 mg/L	0.04	11.8 mg/L	0.04	0.35%
Mn 257.610†	4904952.8	4.63 mg/L	0.007	4.63 mg/L	0.007	0.15%
Mo 202.031†	661.2	0.0140 mg/L	0.00037	0.0140 mg/L	0.00037	2.66%
Ni 231.604†	2772.8	0.0266 mg/L	0.00034	0.0266 mg/L	0.00034	1.26%
Pb 220.353†	-1.8	-0.00262 mg/L	0.002054	-0.00262 mg/L	0.002054	78.35%
Sb 206.836†	-5.4	0.00053 mg/L	0.000789	0.00053 mg/L	0.000789	150.09%
Se 196.026†	28.0	0.00875 mg/L	0.002308	0.00875 mg/L	0.002308	26.38%
Si 251.611†	311898.0	4.54 mg/L	0.167	4.54 mg/L	0.167	3.68%
Sn 189.927†	-285.3	-0.0165 mg/L	0.00030	-0.0165 mg/L	0.00030	1.80%
Ti 334.940†	-1315.4	0.00603 mg/L	0.000606	0.00603 mg/L	0.000606	10.05%
Tl 190.801†	-52.4	-0.0177 mg/L	0.00286	-0.0177 mg/L	0.00286	16.14%
V 290.880†	2269.5	0.00597 mg/L	0.002461	0.00597 mg/L	0.002461	41.21%
Zn 206.200†	459.8	0.00455 mg/L	0.000049	0.00455 mg/L	0.000049	1.08%
K 766.490†	1705.1	0.294 mg/L	0.0424	0.294 mg/L	0.0424	14.44%
Na 589.592†	3509460.0	156 mg/L	1.5	156 mg/L	1.5	0.94%
Sr 407.771†	131049.7	0.0456 mg/L	0.00024	0.0456 mg/L	0.00024	0.54%
Li 670.784†	16489.5	0.102 mg/L	0.0007	0.102 mg/L	0.0007	0.65%

Sequence No.: 4

Sample ID: L1207067505S WG404445-04

Analyst: KHR

Initial Sample Wt:

Dilution:

u&osampler Location: 62

a&e Collected: 7/25/2012 2:34:53 PM

a&a Type: Original

n&itial Sample Vol:

a&ample Prep Vol:

Nebulizer Parameters: L1207067505S WG404445-04

Analyte	Back Pressure	Flow
All	178.0 kPa	0.50 L/min

Mean Data: L1207067505S WG404445-04

Analyte	Mean Corrected		Calib.		Sample		Std.Dev.	RSD
	Intensity	Conc.	Units	Std.Dev.	Conc.	Units		
Y 371.029	2729267.9						19089.95	0.70%
YRADIAL	323906.5						2215.08	0.68%
Ga 417.206	1453575.5						25614.33	1.76%
GaRADIAL	86762.2						514.82	0.59%
Ag 328.068†	80020.3	0.197 mg/L	0.0037	0.197 mg/L	0.0037	1.88%		
Al 396.153†	36377.0	4.94 mg/L	0.015	4.94 mg/L	0.015	0.31%		
As 188.979†	977.4	0.190 mg/L	0.0049	0.190 mg/L	0.0049	2.56%		
Ba 233.527†	113692.1	0.505 mg/L	0.0029	0.505 mg/L	0.0029	0.58%		
Be 234.861†	39967.9	0.0243 mg/L	0.00049	0.0243 mg/L	0.00049	2.03%		
B 249.677†	161875.1	1.09 mg/L	0.021	1.09 mg/L	0.021	1.88%		
Ca 227.546†	26641.0	47.4 mg/L	0.94	47.4 mg/L	0.94	1.98%		
Cd 228.802†	1829.5	0.0229 mg/L	0.00074	0.0229 mg/L	0.00074	3.25%		
Co 228.616†	5715.1	0.0964 mg/L	0.00020	0.0964 mg/L	0.00020	0.21%		
Cr 267.716†	41521.1	0.247 mg/L	0.0008	0.247 mg/L	0.0008	0.34%		
Cu 327.393†	75860.6	0.245 mg/L	0.0048	0.245 mg/L	0.0048	1.97%		
Fe 239.562†	35691.1	1.93 mg/L	0.016	1.93 mg/L	0.016	0.83%		
Mg 279.077†	70631.3	16.7 mg/L	0.17	16.7 mg/L	0.17	1.02%		
Mn 257.610†	5095135.9	4.81 mg/L	0.046	4.81 mg/L	0.046	0.96%		
Mo 202.031†	25876.0	0.531 mg/L	0.0019	0.531 mg/L	0.0019	0.35%		
Ni 231.604†	25849.6	0.271 mg/L	0.0007	0.271 mg/L	0.0007	0.27%		
Pb 220.353†	4516.7	0.237 mg/L	0.0014	0.237 mg/L	0.0014	0.61%		
Sb 206.836†	3733.8	0.586 mg/L	0.0107	0.586 mg/L	0.0107	1.82%		
Se 196.026†	616.9	0.208 mg/L	0.0035	0.208 mg/L	0.0035	1.66%		
Si 251.611†	467884.3	6.79 mg/L	0.065	6.79 mg/L	0.065	0.96%		
Sn 189.927†	-299.4	-0.0173 mg/L	0.00040	-0.0173 mg/L	0.00040	2.31%		
Ti 334.940†	647783.1	0.501 mg/L	0.0028	0.501 mg/L	0.0028	0.57%		
Tl 190.801†	1206.9	0.230 mg/L	0.0034	0.230 mg/L	0.0034	1.47%		
V 290.880†	162375.8	0.505 mg/L	0.0028	0.505 mg/L	0.0028	0.56%		
Zn 206.200†	42809.7	0.487 mg/L	0.0037	0.487 mg/L	0.0037	0.76%		
K 766.490†	80357.1	24.6 mg/L	0.36	24.6 mg/L	0.36	1.46%		
Na 589.592†	4103830.1	183 mg/L	2.7	183 mg/L	2.7	1.48%		
Sr 407.771†	1537403.1	0.541 mg/L	0.0136	0.541 mg/L	0.0136	2.51%		
Li 670.784†	93461.7	0.598 mg/L	0.0070	0.598 mg/L	0.0070	1.17%		

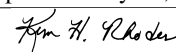
Sequence No.: 5

Sample ID: L1207067505SD WG404445-05

u&osampler Location: 63

a&e Collected: 7/25/2012 2:40:51 PM

Approved: July 26, 2012



Analyst: KHR
Initial Sample Wt:
Dilution:

Sample Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: L1207067505SD WG404445-05

Analyte Back Pressure Flow
All 177.0 kPa 0.50 L/min

Mean Data: L1207067505SD WG404445-05

Analyte	Mean Corrected Intensity	Conc. Units	Calib. Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 371.029	2782163.7				8384.20	0.30%
YRADIAL	322529.2				3245.46	1.01%
Ga 417.206	1466762.6				32717.07	2.23%
GaRADIAL	86676.1				710.04	0.82%
Ag 328.068†	78872.1	0.195 mg/L	0.0058	0.195 mg/L	0.0058	2.98%
Al 396.153†	36221.2	4.92 mg/L	0.045	4.92 mg/L	0.045	0.91%
As 188.979†	951.2	0.185 mg/L	0.0038	0.185 mg/L	0.0038	2.06%
Ba 233.527†	110714.5	0.492 mg/L	0.0050	0.492 mg/L	0.0050	1.03%
Be 234.861†	38647.3	0.0235 mg/L	0.00071	0.0235 mg/L	0.00071	3.02%
B 249.677†	161099.6	1.09 mg/L	0.038	1.09 mg/L	0.038	3.51%
Ca 227.546†	26015.3	46.3 mg/L	1.22	46.3 mg/L	1.22	2.64%
Cd 228.802†	1800.3	0.0225 mg/L	0.00082	0.0225 mg/L	0.00082	3.62%
Co 228.616†	5553.5	0.0936 mg/L	0.00114	0.0936 mg/L	0.00114	1.22%
Cr 267.716†	40577.0	0.241 mg/L	0.0003	0.241 mg/L	0.0003	0.11%
Cu 327.393†	74386.7	0.240 mg/L	0.0080	0.240 mg/L	0.0080	3.31%
Fe 239.562†	36593.0	1.98 mg/L	0.019	1.98 mg/L	0.019	0.94%
Mg 279.077†	69503.6	16.4 mg/L	0.09	16.4 mg/L	0.09	0.56%
Mn 257.610†	4933348.4	4.65 mg/L	0.042	4.65 mg/L	0.042	0.91%
Mo 202.031†	25076.9	0.515 mg/L	0.0033	0.515 mg/L	0.0033	0.64%
Ni 231.604†	25139.9	0.264 mg/L	0.0016	0.264 mg/L	0.0016	0.62%
Pb 220.353†	4374.0	0.229 mg/L	0.0020	0.229 mg/L	0.0020	0.87%
Sb 206.836†	3652.5	0.573 mg/L	0.0144	0.573 mg/L	0.0144	2.51%
Se 196.026†	603.8	0.204 mg/L	0.0135	0.204 mg/L	0.0135	6.63%
Si 251.611†	470278.2	6.83 mg/L	0.141	6.83 mg/L	0.141	2.07%
Sn 189.927†	-283.3	-0.0164 mg/L	0.00030	-0.0164 mg/L	0.00030	1.84%
Ti 334.940†	629469.3	0.487 mg/L	0.0009	0.487 mg/L	0.0009	0.19%
Tl 190.801†	1184.5	0.226 mg/L	0.0005	0.226 mg/L	0.0005	0.20%
V 290.880†	157637.6	0.491 mg/L	0.0043	0.491 mg/L	0.0043	0.89%
Zn 206.200†	41815.4	0.476 mg/L	0.0025	0.476 mg/L	0.0025	0.53%
K 766.490†	78630.2	24.0 mg/L	0.20	24.0 mg/L	0.20	0.81%
Na 589.592†	4076037.3	182 mg/L	2.0	182 mg/L	2.0	1.11%
Sr 407.771†	1518851.9	0.534 mg/L	0.0045	0.534 mg/L	0.0045	0.84%
Li 670.784†	92382.2	0.591 mg/L	0.0015	0.591 mg/L	0.0015	0.25%

Sequence No.: 6
Sample ID: L1207052201
Analyst: KHR
Initial Sample Wt:
Dilution:

Sampler Location: 64
Sample Collected: 7/25/2012 2:46:50 PM
Sample Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: L1207052201

Analyte Back Pressure Flow
All 177.0 kPa 0.50 L/min

Mean Data: L1207052201

Analyte	Mean Corrected Intensity	Conc. Units	Calib. Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 371.029	2788208.0				37395.26	1.34%
YRADIAL	335079.5				6308.99	1.88%
Ga 417.206	1532950.6				40626.31	2.65%
GaRADIAL	89818.9				1803.04	2.01%
Ag 328.068†	321.6	0.00140 mg/L	0.000334	0.00140 mg/L	0.000334	23.90%
Al 396.153†	1437.6	0.189 mg/L	0.0021	0.189 mg/L	0.0021	1.13%
As 188.979†	50.2	0.0108 mg/L	0.00106	0.0108 mg/L	0.00106	9.80%
Ba 233.527†	3104.7	0.0127 mg/L	0.00020	0.0127 mg/L	0.00020	1.53%
Be 234.861†	-189.5	-0.00006 mg/L	0.000028	-0.00006 mg/L	0.000028	46.32%

Approved: July 26, 2012

Ken H. Rhodes

B 249.677†	17876.8	0.121 mg/L	0.0052	0.121 mg/L	0.0052	4.26%
Ca 227.546†	14832.2	26.3 mg/L	0.99	26.3 mg/L	0.99	3.77%
Cd 228.802†	995.7	0.0131 mg/L	0.00034	0.0131 mg/L	0.00034	2.58%
Co 228.616†	4996.0	0.0845 mg/L	0.00113	0.0845 mg/L	0.00113	1.34%
Cr 267.716†	792.5	0.00664 mg/L	0.000083	0.00664 mg/L	0.000083	1.25%
Cu 327.393†	246.5	0.00500 mg/L	0.000236	0.00500 mg/L	0.000236	4.71%
Fe 239.562†	3451.0	0.188 mg/L	0.0088	0.188 mg/L	0.0088	4.68%
Mg 279.077†	4497.9	1.07 mg/L	0.016	1.07 mg/L	0.016	1.52%
Mn 257.610†	153401.3	0.148 mg/L	0.0030	0.148 mg/L	0.0030	2.03%
Mo 202.031†	89.8	0.00134 mg/L	0.000622	0.00134 mg/L	0.000622	46.54%
Ni 231.604†	184.0	-0.00098 mg/L	0.000279	-0.00098 mg/L	0.000279	28.46%
Pb 220.353†	14017.9	0.739 mg/L	0.0097	0.739 mg/L	0.0097	1.31%
Sb 206.836†	51.3	0.00929 mg/L	0.000774	0.00929 mg/L	0.000774	8.33%
Se 196.026†	50.8	0.0177 mg/L	0.00207	0.0177 mg/L	0.00207	11.69%
Si 251.611†	58752.0	0.859 mg/L	0.0323	0.859 mg/L	0.0323	3.76%
Sn 189.927†	-221.8	-0.0128 mg/L	0.00056	-0.0128 mg/L	0.00056	4.35%
Ti 334.940†	-809.1	0.00408 mg/L	0.000277	0.00408 mg/L	0.000277	6.78%
Tl 190.801†	-15.2	-0.00620 mg/L	0.000689	-0.00620 mg/L	0.000689	11.10%
V 290.880†	2172.4	0.00603 mg/L	0.002153	0.00603 mg/L	0.002153	35.72%
Zn 206.200†	5312998.5	60.3 mg/L	1.38	60.3 mg/L	1.38	2.29%
K 766.490†	2961.4	0.692 mg/L	0.0093	0.692 mg/L	0.0093	1.35%
Na 589.592†	3275219.1	145 mg/L	1.9	145 mg/L	1.9	1.32%
Sr 407.771†	83211.5	0.0291 mg/L	0.00006	0.0291 mg/L	0.00006	0.22%
Li 670.784†	388.3	-0.00185 mg/L	0.000300	-0.00185 mg/L	0.000300	16.20%

Sequence No.: 7

Sample ID: L1207052201PS WG404471-01

Analyst: KHR

Initial Sample Wt:

Dilution:

u&osampler Location: 65

ame Collected: 7/25/2012 2:52:53 PM

a&a Type: Original

nitial Sample Vol:

ample Prep Vol:

Nebulizer Parameters: L1207052201PS WG404471-01

Analyte	Back Pressure	Flow
All	178.0 kPa	0.50 L/min

Mean Data: L1207052201PS WG404471-01

Analyte	Mean Corrected		Calib.		Sample		Std.Dev.	RSD
	Intensity	Conc.	Units	Std.Dev.	Conc.	Units		
Y 371.029	2796423.7						19245.72	0.69%
YRADIAL	340959.3						6990.14	2.05%
Ga 417.206	1543587.2						15046.10	0.97%
GaRADIAL	89925.3						2169.41	2.41%
Ag 328.068†	77887.7	0.193 mg/L	0.0029	0.193 mg/L	0.0029	1.52%		
Al 396.153†	37183.6	5.05 mg/L	0.005	5.05 mg/L	0.005	0.09%		
As 188.979†	1009.1	0.197 mg/L	0.0026	0.197 mg/L	0.0026	1.31%		
Ba 233.527†	114068.2	0.507 mg/L	0.0013	0.507 mg/L	0.0013	0.26%		
Be 234.861†	38352.2	0.0228 mg/L	0.00044	0.0228 mg/L	0.00044	1.94%		
B 249.677†	149813.6	1.01 mg/L	0.023	1.01 mg/L	0.023	2.32%		
Ca 227.546†	16254.3	29.0 mg/L	0.35	29.0 mg/L	0.35	1.20%		
Cd 228.802†	2648.0	0.0337 mg/L	0.00080	0.0337 mg/L	0.00080	2.39%		
Co 228.616†	10284.8	0.174 mg/L	0.0015	0.174 mg/L	0.0015	0.89%		
Cr 267.716†	42273.8	0.253 mg/L	0.0027	0.253 mg/L	0.0027	1.06%		
Cu 327.393†	76313.2	0.250 mg/L	0.0053	0.250 mg/L	0.0053	2.13%		
Fe 239.562†	38546.9	2.09 mg/L	0.024	2.09 mg/L	0.024	1.14%		
Mg 279.077†	24221.3	5.73 mg/L	0.067	5.73 mg/L	0.067	1.16%		
Mn 257.610†	402953.7	0.383 mg/L	0.0013	0.383 mg/L	0.0013	0.33%		
Mo 202.031†	25539.0	0.523 mg/L	0.0055	0.523 mg/L	0.0055	1.04%		
Ni 231.604†	23983.2	0.251 mg/L	0.0027	0.251 mg/L	0.0027	1.08%		
Pb 220.353†	16810.8	0.887 mg/L	0.0088	0.887 mg/L	0.0088	0.99%		
Sb 206.836†	3736.9	0.586 mg/L	0.0046	0.586 mg/L	0.0046	0.79%		
Se 196.026†	610.9	0.207 mg/L	0.0010	0.207 mg/L	0.0010	0.50%		
Si 251.611†	221703.3	3.22 mg/L	0.030	3.22 mg/L	0.030	0.94%		
Sn 189.927†	-219.3	-0.0127 mg/L	0.00037	-0.0127 mg/L	0.00037	2.93%		
Ti 334.940†	668824.5	0.514 mg/L	0.0064	0.514 mg/L	0.0064	1.24%		
Tl 190.801†	1253.6	0.244 mg/L	0.0032	0.244 mg/L	0.0032	1.29%		
V 290.880†	165287.6	0.515 mg/L	0.0088	0.515 mg/L	0.0088	1.71%		
Zn 206.200†	4723886.6	53.6 mg/L	0.20	53.6 mg/L	0.20	0.38%		
K 766.490†	81131.9	24.9 mg/L	0.18	24.9 mg/L	0.18	0.72%		
Na 589.592†	3495170.3	155 mg/L	4.8	155 mg/L	4.8	3.07%		

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Ken H. Rhodes

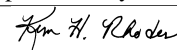
Method: 200.7-6010 PE-ICP2.1

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Date: 7/25/2012 3:07:05 PM

Sr 407.771†	1474117.3	0.519 mg/L	0.0115	0.519 mg/L	0.0115	2.21%
Li 670.784†	79037.1	0.505 mg/L	0.0069	0.505 mg/L	0.0069	1.36%
Plasma has been extinguished						

Approved: July 26, 2012



=====
Analysis Begun

Start Time: 7/25/2012 3:17:44 PM lbama On Time: 7/25/2012 3:04:29 PM
 Logged In Analyst: peicp2 echnique: ICP Continuous
 Spectrometer Model: Optima 4300 DV, S/N 077N40114 Autosampler Model: Cetac

Sample Information File: C:\pe\peicp2\Sample Information\WEDNESDAY1.sif
 Batch ID:
 Results Data Set: 072512HR2
 Results Library: C:\pe\peicp2\Results\Results.mdb

=====
 Sequence No.: 1 Autosampler Location: 6
 Sample ID: CCV Date Collected: 7/25/2012 3:17:46 PM
 Analyst: Date Type: Original
 Initial Sample Wt: Initial Sample Vol:
 Dilution: Sample Prep Vol:

Nebulizer Parameters: CCV

Analyte	Back Pressure	Flow
All	176.0 kPa	0.50 L/min

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 371.029	2825548.5				10334.42	0.37%
YRADIAL	331517.7				2886.73	0.87%
Ga 417.206	1516019.6				39306.29	2.59%
GaRADIAL	88553.6				700.58	0.79%
Ag 328.068†	160185.7	0.396 mg/L	0.0101	0.396 mg/L	0.0101	2.56%
QC value within limits for Ag		328.068	Recovery = 98.94%			
Al 396.153†	73080.5	9.93 mg/L	0.019	9.93 mg/L	0.019	0.19%
QC value within limits for Al		396.153	Recovery = 99.35%			
As 188.979†	2002.3	0.390 mg/L	0.0088	0.390 mg/L	0.0088	2.27%
QC value within limits for As		188.979	Recovery = 97.41%			
Ba 233.527†	221990.2	0.987 mg/L	0.0026	0.987 mg/L	0.0026	0.27%
QC value within limits for Ba		233.527	Recovery = 98.69%			
Be 234.861†	80321.3	0.0478 mg/L	0.00129	0.0478 mg/L	0.00129	2.69%
QC value within limits for Be		234.861	Recovery = 95.55%			
B 249.677†	70677.1	0.475 mg/L	0.0164	0.475 mg/L	0.0164	3.45%
QC value within limits for B		249.677	Recovery = 95.08%			
Ca 227.546†	5525.8	10.3 mg/L	0.27	10.3 mg/L	0.27	2.64%
QC value within limits for Ca		227.546	Recovery = 102.86%			
Cd 228.802†	3748.2	0.0469 mg/L	0.00214	0.0469 mg/L	0.00214	4.56%
QC value within limits for Cd		228.802	Recovery = 93.76%			
Co 228.616†	11822.0	0.199 mg/L	0.0017	0.199 mg/L	0.0017	0.87%
QC value within limits for Co		228.616	Recovery = 99.67%			
Cr 267.716†	82809.9	0.492 mg/L	0.0053	0.492 mg/L	0.0053	1.07%
QC value within limits for Cr		267.716	Recovery = 98.50%			
Cu 327.393†	155469.0	0.502 mg/L	0.0121	0.502 mg/L	0.0121	2.41%
QC value within limits for Cu		327.393	Recovery = 100.33%			
Fe 239.562†	73012.9	3.95 mg/L	0.042	3.95 mg/L	0.042	1.06%
QC value within limits for Fe		239.562	Recovery = 98.83%			
Mg 279.077†	41571.1	9.83 mg/L	0.085	9.83 mg/L	0.085	0.86%
QC value within limits for Mg		279.077	Recovery = 98.29%			
Mn 257.610†	528123.4	0.498 mg/L	0.0028	0.498 mg/L	0.0028	0.57%
QC value within limits for Mn		257.610	Recovery = 99.67%			
Mo 202.031†	48950.3	1.00 mg/L	0.007	1.00 mg/L	0.007	0.69%
QC value within limits for Mo		202.031	Recovery = 100.38%			
Ni 231.604†	48835.2	0.515 mg/L	0.0028	0.515 mg/L	0.0028	0.54%
QC value within limits for Ni		231.604	Recovery = 102.96%			
Pb 220.353†	9524.0	0.504 mg/L	0.0036	0.504 mg/L	0.0036	0.71%
QC value within limits for Pb		220.353	Recovery = 100.75%			
Sb 206.836†	7554.5	1.18 mg/L	0.034	1.18 mg/L	0.034	2.88%
QC value within limits for Sb		206.836	Recovery = 98.69%			
Se 196.026†	1185.1	0.402 mg/L	0.0106	0.402 mg/L	0.0106	2.64%
QC value within limits for Se		196.026	Recovery = 100.49%			
Si 251.611†	334375.1	4.85 mg/L	0.088	4.85 mg/L	0.088	1.82%

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QC value within limits for Si	251.611	Recovery = 97.01%				
Sn 189.927†	17423.6	1.01 mg/L	0.005	1.01 mg/L	0.005	0.52%
QC value within limits for Sn	189.927	Recovery = 100.52%				
Ti 334.940†	1309241.6	0.999 mg/L	0.0015	0.999 mg/L	0.0015	0.15%
QC value within limits for Ti	334.940	Recovery = 99.92%				
Tl 190.801†	2703.1	0.528 mg/L	0.0056	0.528 mg/L	0.0056	1.06%
QC value within limits for Tl	190.801	Recovery = 105.68%				
V 290.880†	318675.9	0.993 mg/L	0.0074	0.993 mg/L	0.0074	0.74%
QC value within limits for V	290.880	Recovery = 99.30%				
Zn 206.200†	86954.7	0.990 mg/L	0.0079	0.990 mg/L	0.0079	0.80%
QC value within limits for Zn	206.200	Recovery = 99.02%				
K 766.490†	162189.1	50.1 mg/L	0.63	50.1 mg/L	0.63	1.25%
QC value within limits for K	766.490	Recovery = 100.22%				
Na 589.592†	1154930.8	50.2 mg/L	0.48	50.2 mg/L	0.48	0.95%
QC value within limits for Na	589.592	Recovery = 100.43%				
Sr 407.771†	2850247.2	1.00 mg/L	0.017	1.00 mg/L	0.017	1.65%
QC value within limits for Sr	407.771	Recovery = 100.39%				
Li 670.784†	161262.6	1.04 mg/L	0.010	1.04 mg/L	0.010	0.96%
QC value within limits for Li	670.784	Recovery = 103.50%				

All analyte(s) passed QC.

Sequence No.: 2

Sample ID: CCB

Analyst:

Initial Sample Wt:

Dilution:

u\osampler Location: 1

a\ne Collected: 7/25/2012 3:23:45 PM

a\nd Type: Original

n\ntial Sample Vol:

a\ngle Prep Vol:

Nebulizer Parameters: CCB

Analyte	Back Pressure	Flow
All	176.0 kPa	0.50 L/min

Mean Data: CCB

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 371.029	2931389.0				18764.06	0.64%
YRADIAL	337957.6				3383.74	1.00%
Ga 417.206	1567642.2				5976.28	0.38%
GaRADIAL	91619.4				3662.06	4.00%
Ag 328.068†	57.1	0.00069 mg/L	0.000517	0.00069 mg/L	0.000517	75.25%
QC value within limits for Ag	328.068	Recovery = Not calculated				
Al 396.153†	27.9	-0.00451 mg/L	0.005908	-0.00451 mg/L	0.005908	131.09%
QC value within limits for Al	396.153	Recovery = Not calculated				
As 188.979†	-7.3	-0.00050 mg/L	0.001096	-0.00050 mg/L	0.001096	218.23%
QC value within limits for As	188.979	Recovery = Not calculated				
Ba 233.527†	-31.6	-0.00123 mg/L	0.000143	-0.00123 mg/L	0.000143	11.64%
QC value within limits for Ba	233.527	Recovery = Not calculated				
Be 234.861†	-51.4	0.00005 mg/L	0.000015	0.00005 mg/L	0.000015	30.11%
QC value within limits for Be	234.861	Recovery = Not calculated				
B 249.677†	214.5	0.00298 mg/L	0.001149	0.00298 mg/L	0.001149	38.51%
QC value within limits for B	249.677	Recovery = Not calculated				
Ca 227.546†	5.4	0.0550 mg/L	0.02040	0.0550 mg/L	0.02040	37.13%
QC value within limits for Ca	227.546	Recovery = Not calculated				
Cd 228.802†	5.3	0.00009 mg/L	0.000005	0.00009 mg/L	0.000005	5.73%
QC value within limits for Cd	228.802	Recovery = Not calculated				
Co 228.616†	-17.6	-0.00036 mg/L	0.000191	-0.00036 mg/L	0.000191	53.12%
QC value within limits for Co	228.616	Recovery = Not calculated				
Cr 267.716†	17.3	-0.00038 mg/L	0.000104	-0.00038 mg/L	0.000104	27.45%
QC value within limits for Cr	267.716	Recovery = Not calculated				
Cu 327.393†	47.8	0.00069 mg/L	0.000193	0.00069 mg/L	0.000193	28.11%
QC value within limits for Cu	327.393	Recovery = Not calculated				
Fe 239.562†	8.8	0.00201 mg/L	0.000461	0.00201 mg/L	0.000461	22.94%
QC value within limits for Fe	239.562	Recovery = Not calculated				
Mg 279.077†	-14.7	0.0102 mg/L	0.00211	0.0102 mg/L	0.00211	20.74%
QC value within limits for Mg	279.077	Recovery = Not calculated				
Mn 257.610†	375.9	-0.00002 mg/L	0.000022	-0.00002 mg/L	0.000022	99.81%
QC value within limits for Mn	257.610	Recovery = Not calculated				
Mo 202.031†	2.7	-0.00049 mg/L	0.000329	-0.00049 mg/L	0.000329	67.06%
QC value within limits for Mo	202.031	Recovery = Not calculated				
Ni 231.604†	-6.6	-0.00291 mg/L	0.000141	-0.00291 mg/L	0.000141	4.83%

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QC value within limits for Ni 231.604 Recovery = Not calculated
 Pb 220.353† -3.1 -0.00026 mg/L 0.001244 -0.00026 mg/L 0.001244 473.94%
 QC value within limits for Pb 220.353 Recovery = Not calculated
 Sb 206.836† 3.9 0.00193 mg/L 0.000505 0.00193 mg/L 0.000505 26.16%
 QC value within limits for Sb 206.836 Recovery = Not calculated
 Se 196.026† 5.0 0.00222 mg/L 0.002117 0.00222 mg/L 0.002117 95.17%
 QC value within limits for Se 196.026 Recovery = Not calculated
 Si 251.611† -132.4 0.00395 mg/L 0.001633 0.00395 mg/L 0.001633 41.33%
 QC value within limits for Si 251.611 Recovery = Not calculated
 Sn 189.927† 9.9 0.00056 mg/L 0.000513 0.00056 mg/L 0.000513 91.24%
 QC value within limits for Sn 189.927 Recovery = Not calculated
 Ti 334.940† -130.4 0.00067 mg/L 0.000084 0.00067 mg/L 0.000084 12.55%
 QC value within limits for Ti 334.940 Recovery = Not calculated
 Tl 190.801† -1.5 -0.00336 mg/L 0.000564 -0.00336 mg/L 0.000564 16.81%
 QC value within limits for Tl 190.801 Recovery = Not calculated
 V 290.880† 588.5 0.00114 mg/L 0.000645 0.00114 mg/L 0.000645 56.67%
 QC value within limits for V 290.880 Recovery = Not calculated
 Zn 206.200† 721.4 0.00751 mg/L 0.000395 0.00751 mg/L 0.000395 5.26%
 QC value within limits for Zn 206.200 Recovery = Not calculated
 K 766.490† 131.8 -0.0364 mg/L 0.01271 -0.0364 mg/L 0.01271 34.92%
 QC value within limits for K 766.490 Recovery = Not calculated
 Na 589.592† 1995.5 0.0586 mg/L 0.00935 0.0586 mg/L 0.00935 15.95%
 QC value within limits for Na 589.592 Recovery = Not calculated
 Sr 407.771† -133.8 0.00027 mg/L 0.000038 0.00027 mg/L 0.000038 14.02%
 QC value within limits for Sr 407.771 Recovery = Not calculated
 Li 670.784† 87.0 -0.00379 mg/L 0.000684 -0.00379 mg/L 0.000684 18.02%
 QC value within limits for Li 670.784 Recovery = Not calculated
 All analyte(s) passed QC.

Sequence No.: 3

Sample ID: L1207052201DL WG404471-02

Analyst: KHR

Initial Sample Wt:

Dilution:

Sampler Location: 66

Date Collected: 7/25/2012 3:30:38 PM

Sample Type: Original

Initial Sample Vol:

Sample Prep Vol:

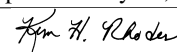
Nebulizer Parameters: L1207052201DL WG404471-02

Analyte	Back Pressure	Flow
All	177.0 kPa	0.50 L/min

Mean Data: L1207052201DL WG404471-02

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc. Units	Sample Std.Dev.	RSD
Y 371.029	2927700.5					11116.82	0.38%
YRADIAL	334413.8					6234.79	1.86%
Ga 417.206	1697952.3					26995.43	1.59%
GaRADIAL	93273.9					2228.50	2.39%
Ag 328.068†	-82.6	0.00036 mg/L		0.000270	0.00036 mg/L	0.000270	75.11%
Al 396.153†	300.7	0.0328 mg/L		0.00187	0.0328 mg/L	0.00187	5.72%
As 188.979†	5.7	0.00206 mg/L		0.000859	0.00206 mg/L	0.000859	41.79%
Ba 233.527†	538.3	0.00130 mg/L		0.000069	0.00130 mg/L	0.000069	5.32%
Be 234.861†	-7.5	0.00007 mg/L		0.000012	0.00007 mg/L	0.000012	16.61%
B 249.677†	3212.2	0.0231 mg/L		0.00040	0.0231 mg/L	0.00040	1.72%
Ca 227.546†	2807.4	5.01 mg/L		0.117	5.01 mg/L	0.117	2.33%
Cd 228.802†	170.9	0.00227 mg/L		0.000043	0.00227 mg/L	0.000043	1.90%
Co 228.616†	963.8	0.0163 mg/L		0.00017	0.0163 mg/L	0.00017	1.04%
Cr 267.716†	177.5	0.00107 mg/L		0.000121	0.00107 mg/L	0.000121	11.36%
Cu 327.393†	-84.4	0.00101 mg/L		0.000070	0.00101 mg/L	0.000070	6.93%
Fe 239.562†	709.2	0.0399 mg/L		0.00044	0.0399 mg/L	0.00044	1.11%
Mg 279.077†	896.4	0.225 mg/L		0.0048	0.225 mg/L	0.0048	2.12%
Mn 257.610†	30380.3	0.0290 mg/L		0.00010	0.0290 mg/L	0.00010	0.33%
Mo 202.031†	45.6	0.00040 mg/L		0.000088	0.00040 mg/L	0.000088	22.04%
Ni 231.604†	16.4	-0.00269 mg/L		0.000118	-0.00269 mg/L	0.000118	4.37%
Pb 220.353†	2802.3	0.148 mg/L		0.0009	0.148 mg/L	0.0009	0.61%
Sb 206.836†	6.9	0.00238 mg/L		0.000467	0.00238 mg/L	0.000467	19.61%
Se 196.026†	9.2	0.00365 mg/L		0.001186	0.00365 mg/L	0.001186	32.51%
Si 251.611†	10685.7	0.161 mg/L		0.0057	0.161 mg/L	0.0057	3.54%
Sn 189.927†	-72.7	-0.00420 mg/L		0.000347	-0.00420 mg/L	0.000347	8.27%
Ti 334.940†	-456.2	0.00116 mg/L		0.000148	0.00116 mg/L	0.000148	12.67%
Tl 190.801†	-11.9	-0.00538 mg/L		0.000434	-0.00538 mg/L	0.000434	8.07%

Approved: July 26, 2012



Method: 200.7-6010 PE-ICP2.1

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Date: 7/25/2012 3:47:03 PM

V 290.880†	1166.4	0.00293	mg/L	0.000864	0.00293	mg/L	0.000864	29.47%
Zn 206.200†	1083486.8	12.3	mg/L	0.15	12.3	mg/L	0.15	1.19%
K 766.490†	951.0	0.188	mg/L	0.0077	0.188	mg/L	0.0077	4.09%
Na 589.592†	661966.9	28.7	mg/L	0.86	28.7	mg/L	0.86	3.00%
Sr 407.771†	17293.0	0.00630	mg/L	0.000190	0.00630	mg/L	0.000190	3.01%
Li 670.784†	236.0	-0.00283	mg/L	0.000058	-0.00283	mg/L	0.000058	2.03%

Sequence No.: 4

Sample ID: PBW C1 WG404366-02

Analyst: KHR

Initial Sample Wt:

Dilution:

u&osampler Location: 43

a&e Collected: 7/25/2012 3:37:35 PM

a&a Type: Original

n&itial Sample Vol:

a&mple Prep Vol:

Nebulizer Parameters: PBW C1 WG404366-02

Analyte	Back Pressure	Flow
All	177.0 kPa	0.50 L/min

Mean Data: PBW C1 WG404366-02

Analyte	Mean Corrected Intensity	Conc. Units	Calib. Units	Std.Dev.	Conc. Units	Sample Std.Dev.	RSD	
Y 371.029	2936940.1					11530.37	0.39%	
YRADIAL	349161.4					8050.72	2.31%	
Ga 417.206	1625808.0					13549.51	0.83%	
GaRADIAL	94794.6					1349.54	1.42%	
Ag 328.068†	-58.1	0.00041	mg/L	0.000394	0.00041	mg/L	0.000394	96.91%
Al 396.153†	-67.0	-0.0175	mg/L	0.00123	-0.0175	mg/L	0.00123	7.00%
As 188.979†	2.4	0.00141	mg/L	0.000424	0.00141	mg/L	0.000424	30.16%
Ba 233.527†	-3.5	-0.00111	mg/L	0.000087	-0.00111	mg/L	0.000087	7.89%
Be 234.861†	50.1	0.00011	mg/L	0.000013	0.00011	mg/L	0.000013	11.69%
B 249.677†	-102.0	0.00085	mg/L	0.000050	0.00085	mg/L	0.000050	5.88%
Ca 227.546†	2.9	0.0507	mg/L	0.00593	0.0507	mg/L	0.00593	11.70%
Cd 228.802†	-5.5	-0.00005	mg/L	0.000099	-0.00005	mg/L	0.000099	187.85%
Co 228.616†	-2.8	-0.00011	mg/L	0.000230	-0.00011	mg/L	0.000230	210.08%
Cr 267.716†	-7.1	-0.00052	mg/L	0.000012	-0.00052	mg/L	0.000012	2.20%
Cu 327.393†	-105.7	0.00019	mg/L	0.000494	0.00019	mg/L	0.000494	256.64%
Fe 239.562†	5.1	0.00181	mg/L	0.000429	0.00181	mg/L	0.000429	23.69%
Mg 279.077†	-32.9	0.00589	mg/L	0.001740	0.00589	mg/L	0.001740	29.53%
Mn 257.610†	436.8	0.00004	mg/L	0.000009	0.00004	mg/L	0.000009	25.19%
Mo 202.031†	2.7	-0.00049	mg/L	0.000152	-0.00049	mg/L	0.000152	30.91%
Ni 231.604†	25.3	-0.00258	mg/L	0.000035	-0.00258	mg/L	0.000035	1.37%
Pb 220.353†	4.1	0.00012	mg/L	0.000384	0.00012	mg/L	0.000384	330.90%
Sb 206.836†	-3.6	0.00076	mg/L	0.000702	0.00076	mg/L	0.000702	92.70%
Se 196.026†	-4.0	-0.00080	mg/L	0.002232	-0.00080	mg/L	0.002232	278.20%
Si 251.611†	-120.0	0.00413	mg/L	0.000818	0.00413	mg/L	0.000818	19.79%
Sn 189.927†	-4.4	-0.00026	mg/L	0.000105	-0.00026	mg/L	0.000105	40.08%
Ti 334.940†	81.5	0.00083	mg/L	0.000127	0.00083	mg/L	0.000127	15.27%
Tl 190.801†	2.7	-0.00255	mg/L	0.001399	-0.00255	mg/L	0.001399	54.80%
V 290.880†	782.6	0.00174	mg/L	0.000626	0.00174	mg/L	0.000626	35.89%
Zn 206.200†	680.2	0.00704	mg/L	0.000491	0.00704	mg/L	0.000491	6.97%
K 766.490†	184.4	-0.0201	mg/L	0.00477	-0.0201	mg/L	0.00477	23.69%
Na 589.592†	1530.8	0.0386	mg/L	0.01496	0.0386	mg/L	0.01496	38.77%
Sr 407.771†	-516.6	0.00014	mg/L	0.000071	0.00014	mg/L	0.000071	50.58%
Li 670.784†	83.6	-0.00382	mg/L	0.000313	-0.00382	mg/L	0.000313	8.21%

Sequence No.: 5

Sample ID: LCSW C1 WG404366-03

Analyst: KHR

Initial Sample Wt:

Dilution:

u&osampler Location: 44

a&e Collected: 7/25/2012 3:44:33 PM

a&a Type: Original

n&itial Sample Vol:

a&mple Prep Vol:

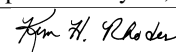
Nebulizer Parameters: LCSW C1 WG404366-03

Analyte	Back Pressure	Flow
All	177.0 kPa	0.50 L/min

Mean Data: LCSW C1 WG404366-03

Analyte	Mean Corrected	Calib. Units	Sample Std.Dev.
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Approved: July 26, 2012



Analyte	Intensity	Conc. Units	Std.Dev.	Conc. Units	Std.Dev.	RSD
Y 371.029	2864863.3				11108.63	0.39%
YRADIAL	342617.0				7687.14	2.24%
Ga 417.206	1584117.1				53979.85	3.41%
GaRADIAL	90968.4				1714.37	1.88%
Ag 328.068†	75774.7	0.188 mg/L	0.0063	0.188 mg/L	0.0063	3.35%
Al 396.153†	34803.7	4.73 mg/L	0.007	4.73 mg/L	0.007	0.15%
As 188.979†	915.4	0.178 mg/L	0.0038	0.178 mg/L	0.0038	2.15%
Ba 233.527†	108233.6	0.481 mg/L	0.0063	0.481 mg/L	0.0063	1.32%
Be 234.861†	37214.6	0.0222 mg/L	0.00096	0.0222 mg/L	0.00096	4.31%
B 249.677†	131458.4	0.888 mg/L	0.0368	0.888 mg/L	0.0368	4.14%
Ca 227.546†	2547.2	4.77 mg/L	0.194	4.77 mg/L	0.194	4.07%
Cd 228.802†	1732.0	0.0217 mg/L	0.00134	0.0217 mg/L	0.00134	6.18%
Co 228.616†	5715.3	0.0964 mg/L	0.00059	0.0964 mg/L	0.00059	0.62%
Cr 267.716†	39862.8	0.237 mg/L	0.0024	0.237 mg/L	0.0024	1.02%
Cu 327.393†	72126.6	0.233 mg/L	0.0068	0.233 mg/L	0.0068	2.90%
Fe 239.562†	33965.6	1.84 mg/L	0.017	1.84 mg/L	0.017	0.93%
Mg 279.077†	19744.5	4.68 mg/L	0.069	4.68 mg/L	0.069	1.48%
Mn 257.610†	258599.4	0.244 mg/L	0.0036	0.244 mg/L	0.0036	1.48%
Mo 202.031†	23537.4	0.482 mg/L	0.0041	0.482 mg/L	0.0041	0.84%
Ni 231.604†	22706.6	0.238 mg/L	0.0016	0.238 mg/L	0.0016	0.68%
Pb 220.353†	4596.9	0.243 mg/L	0.0016	0.243 mg/L	0.0016	0.65%
Sb 206.836†	3548.7	0.557 mg/L	0.0216	0.557 mg/L	0.0216	3.87%
Se 196.026†	560.9	0.191 mg/L	0.0088	0.191 mg/L	0.0088	4.64%
Si 251.611†	161608.3	2.35 mg/L	0.082	2.35 mg/L	0.082	3.51%
Sn 189.927†	-71.5	-0.00413 mg/L	0.000411	-0.00413 mg/L	0.000411	9.95%
Ti 334.940†	621270.9	0.475 mg/L	0.0033	0.475 mg/L	0.0033	0.70%
Tl 190.801†	1333.5	0.259 mg/L	0.0031	0.259 mg/L	0.0031	1.19%
V 290.880†	155177.5	0.483 mg/L	0.0070	0.483 mg/L	0.0070	1.45%
Zn 206.200†	42042.7	0.478 mg/L	0.0059	0.478 mg/L	0.0059	1.22%
K 766.490†	77286.0	23.8 mg/L	0.18	23.8 mg/L	0.18	0.76%
Na 589.592†	566651.8	24.5 mg/L	0.71	24.5 mg/L	0.71	2.89%
Sr 407.771†	1381473.4	0.487 mg/L	0.0179	0.487 mg/L	0.0179	3.68%
Li 670.784†	78686.8	0.503 mg/L	0.0008	0.503 mg/L	0.0008	0.16%

Sequence No.: 6

Sample ID: L1207070301 WG404366-01

Analyst: KHR

Initial Sample Wt:

Dilution:

u&osampler Location: 45

a&e Collected: 7/25/2012 3:50:33 PM

a&a Type: Original

nitial Sample Vol:

a&ple Prep Vol:

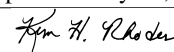
Nebulizer Parameters: L1207070301 WG404366-01

Analyte	Back Pressure	Flow
All	177.0 kPa	0.50 L/min

Mean Data: L1207070301 WG404366-01

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 371.029	2749064.4				4446.48	0.16%
YRADIAL	334005.8				3731.36	1.12%
Ga 417.206	1590139.9				35268.30	2.22%
GaRADIAL	91119.9				1049.10	1.15%
Ag 328.068†	352.6	0.00207 mg/L	0.000248	0.00207 mg/L	0.000248	12.01%
Al 396.153†	32.5	-0.00375 mg/L	0.002943	-0.00375 mg/L	0.002943	78.38%
As 188.979†	26.2	0.00660 mg/L	0.001329	0.00660 mg/L	0.001329	20.14%
Ba 233.527†	21365.7	0.0939 mg/L	0.00090	0.0939 mg/L	0.00090	0.96%
Be 234.861†	905.3	0.00017 mg/L	0.000031	0.00017 mg/L	0.000031	18.13%
B 249.677†	588363.2	3.98 mg/L	0.111	3.98 mg/L	0.111	2.79%
Ca 227.546†	34987.2	61.9 mg/L	1.86	61.9 mg/L	1.86	3.01%
Cd 228.802†	10.9	0.00013 mg/L	0.000084	0.00013 mg/L	0.000084	63.01%
Co 228.616†	4.3	-0.00006 mg/L	0.000370	-0.00006 mg/L	0.000370	657.55%
Cr 267.716†	281.3	0.00111 mg/L	0.000100	0.00111 mg/L	0.000100	8.94%
Cu 327.393†	-41.4	0.00047 mg/L	0.000087	0.00047 mg/L	0.000087	18.53%
Fe 239.562†	40530.2	2.19 mg/L	0.026	2.19 mg/L	0.026	1.16%
Mg 279.077†	305098.2	71.9 mg/L	0.76	71.9 mg/L	0.76	1.06%
Mn 257.610†	591760.1	0.558 mg/L	0.0029	0.558 mg/L	0.0029	0.51%
Saturated within auto integration window (code 4)						
Mo 202.031†	98.7	0.00170 mg/L	0.000044	0.00170 mg/L	0.000044	2.57%
Ni 231.604†	116.7	-0.00161 mg/L	0.000421	-0.00161 mg/L	0.000421	26.23%

Approved: July 26, 2012



Method: 200.7-6010 PE-ICP2.1

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Date: 7/25/2012 4:04:06 PM

Pb 220.353†	17.5	0.00080	mg/L	0.000411	0.00080	mg/L	0.000411	51.42%
Sb 206.836†	-21.7	-0.00200	mg/L	0.000404	-0.00200	mg/L	0.000404	20.23%
Se 196.026†	-0.2	0.00066	mg/L	0.001561	0.00066	mg/L	0.001561	235.42%
Si 251.611†	875683.5	12.7	mg/L	0.23	12.7	mg/L	0.23	1.82%
Sn 189.927†	-317.1	-0.0183	mg/L	0.00053	-0.0183	mg/L	0.00053	2.89%
Ti 334.940†	-11279.3	0.00145	mg/L	0.000476	0.00145	mg/L	0.000476	32.76%
Tl 190.801†	-8.8	-0.00539	mg/L	0.001927	-0.00539	mg/L	0.001927	35.74%
V 290.880†	2238.0	0.00412	mg/L	0.002571	0.00412	mg/L	0.002571	62.36%
Zn 206.200†	275.6	0.00242	mg/L	0.000201	0.00242	mg/L	0.000201	8.30%
K 766.490†	52278.4	15.9	mg/L	0.17	15.9	mg/L	0.17	1.04%
Na 589.592†	3165895.7	140	mg/L	3.2	140	mg/L	3.2	2.26%
Sr 407.771†	2646582.3	0.931	mg/L	0.0302	0.931	mg/L	0.0302	3.25%
Li 670.784†	29457.9	0.186	mg/L	0.0018	0.186	mg/L	0.0018	0.97%

Sequence No.: 7

Sample ID: L1207070301DU WG404366-04

Analyst: KHR

Initial Sample Wt:

Dilution:

u&osampler Location: 46

a&e Collected: 7/25/2012 3:56:39 PM

a&a Type: Original

n&itial Sample Vol:

a&ample Prep Vol:

Nebulizer Parameters: L1207070301DU WG404366-04

Analyte	Back Pressure	Flow
All	177.0 kPa	0.50 L/min

Mean Data: L1207070301DU WG404366-04

Analyte	Mean Corrected Intensity	Conc. Units	Calib. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD	
Y 371.029	2743441.1					34152.63	1.24%	
YRADIAL	326762.6					1763.63	0.54%	
Ga 417.206	1569332.9					26482.44	1.69%	
GaRADIAL	90281.9					1000.88	1.11%	
Ag 328.068†	234.4	0.00180	mg/L	0.000433	0.00180	mg/L	0.000433	24.05%
Al 396.153†	12.0	-0.00656	mg/L	0.009146	-0.00656	mg/L	0.009146	139.32%
As 188.979†	25.7	0.00650	mg/L	0.001975	0.00650	mg/L	0.001975	30.36%
Ba 233.527†	21357.9	0.0938	mg/L	0.00157	0.0938	mg/L	0.00157	1.67%
Be 234.861†	1037.4	0.00024	mg/L	0.000089	0.00024	mg/L	0.000089	37.30%
B 249.677†	588183.3	3.98	mg/L	0.127	3.98	mg/L	0.127	3.20%
Ca 227.546†	35376.3	62.6	mg/L	1.11	62.6	mg/L	1.11	1.77%
Cd 228.802†	18.1	0.00023	mg/L	0.000078	0.00023	mg/L	0.000078	34.57%
Co 228.616†	9.2	0.00003	mg/L	0.000208	0.00003	mg/L	0.000208	805.70%
Cr 267.716†	291.5	0.00117	mg/L	0.000211	0.00117	mg/L	0.000211	18.01%
Cu 327.393†	-135.5	0.00017	mg/L	0.000130	0.00017	mg/L	0.000130	75.90%
Fe 239.562†	41329.0	2.24	mg/L	0.010	2.24	mg/L	0.010	0.44%
Mg 279.077†	307111.9	72.4	mg/L	0.41	72.4	mg/L	0.41	0.57%
Mn 257.610†	586422.7	0.553	mg/L	0.0116	0.553	mg/L	0.0116	2.10%
Saturated within auto integration window (code 4)								
Mo 202.031†	104.9	0.00183	mg/L	0.000307	0.00183	mg/L	0.000307	16.74%
Ni 231.604†	99.4	-0.00179	mg/L	0.000263	-0.00179	mg/L	0.000263	14.71%
Pb 220.353†	13.3	0.00058	mg/L	0.001008	0.00058	mg/L	0.001008	173.45%
Sb 206.836†	-13.8	-0.00076	mg/L	0.001611	-0.00076	mg/L	0.001611	210.83%
Se 196.026†	0.3	0.00082	mg/L	0.001638	0.00082	mg/L	0.001638	200.19%
Si 251.611†	873775.2	12.7	mg/L	0.28	12.7	mg/L	0.28	2.23%
Sn 189.927†	-316.4	-0.0183	mg/L	0.00087	-0.0183	mg/L	0.00087	4.75%
Ti 334.940†	-11500.9	0.00139	mg/L	0.000663	0.00139	mg/L	0.000663	47.79%
Tl 190.801†	-23.4	-0.00819	mg/L	0.003636	-0.00819	mg/L	0.003636	44.40%
V 290.880†	2828.6	0.00595	mg/L	0.002704	0.00595	mg/L	0.002704	45.46%
Zn 206.200†	282.3	0.00250	mg/L	0.000230	0.00250	mg/L	0.000230	9.19%
K 766.490†	52053.5	15.9	mg/L	0.18	15.9	mg/L	0.18	1.11%
Na 589.592†	3142239.3	139	mg/L	2.0	139	mg/L	2.0	1.46%
Sr 407.771†	2644329.0	0.930	mg/L	0.0042	0.930	mg/L	0.0042	0.46%
Li 670.784†	29075.2	0.183	mg/L	0.0023	0.183	mg/L	0.0023	1.24%

Sequence No.: 8

Sample ID: L1207070301MS WG404366-05

Analyst: KHR

Initial Sample Wt:

Dilution:

u&osampler Location: 47

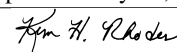
a&e Collected: 7/25/2012 4:02:45 PM

a&a Type: Original

n&itial Sample Vol:

a&ample Prep Vol:

Approved: July 26, 2012



Nebulizer Parameters: L1207070301MS WG404366-05
 Analyte Back Pressure Flow
 All 177.0 kPa 0.50 L/min

Mean Data: L1207070301MS WG404366-05

Analyte	Mean Corrected Intensity	Conc. Units	Calib. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 371.029	2710223.9					10300.24	0.38%
YRADIAL	332551.3					7717.19	2.32%
Ga 417.206	1559829.8					38643.64	2.48%
GaRADIAL	90487.4					970.95	1.07%
Ag 328.068†	74486.0	0.185 mg/L		0.0042	0.185 mg/L	0.0042	2.27%
Al 396.153†	35624.5	4.84 mg/L		0.040	4.84 mg/L	0.040	0.83%
As 188.979†	947.2	0.185 mg/L		0.0059	0.185 mg/L	0.0059	3.19%
Ba 233.527†	127135.1	0.565 mg/L		0.0036	0.565 mg/L	0.0036	0.64%
Be 234.861†	38780.7	0.0227 mg/L		0.00076	0.0227 mg/L	0.00076	3.35%
B 249.677†	722069.7	4.88 mg/L		0.138	4.88 mg/L	0.138	2.83%
Ca 227.546†	37799.0	67.1 mg/L		1.79	67.1 mg/L	1.79	2.67%
Cd 228.802†	1687.9	0.0211 mg/L		0.00100	0.0211 mg/L	0.00100	4.72%
Co 228.616†	5517.2	0.0929 mg/L		0.00040	0.0929 mg/L	0.00040	0.43%
Cr 267.716†	39799.0	0.236 mg/L		0.0025	0.236 mg/L	0.0025	1.07%
Cu 327.393†	70295.6	0.227 mg/L		0.0053	0.227 mg/L	0.0053	2.34%
Fe 239.562†	73689.9	3.99 mg/L		0.065	3.99 mg/L	0.065	1.62%
Mg 279.077†	324863.2	76.6 mg/L		1.60	76.6 mg/L	1.60	2.09%
Mn 257.610†	817552.7	0.771 mg/L		0.0056	0.771 mg/L	0.0056	0.73%
Mo 202.031†	24351.3	0.499 mg/L		0.0028	0.499 mg/L	0.0028	0.55%
Ni 231.604†	22307.3	0.234 mg/L		0.0009	0.234 mg/L	0.0009	0.39%
Pb 220.353†	4485.3	0.237 mg/L		0.0015	0.237 mg/L	0.0015	0.65%
Sb 206.836†	3500.6	0.550 mg/L		0.0166	0.550 mg/L	0.0166	3.03%
Se 196.026†	561.6	0.191 mg/L		0.0075	0.191 mg/L	0.0075	3.92%
Si 251.611†	1027114.0	14.9 mg/L		0.28	14.9 mg/L	0.28	1.89%
Sn 189.927†	-333.5	-0.0193 mg/L		0.00039	-0.0193 mg/L	0.00039	2.03%
Ti 334.940†	622860.8	0.485 mg/L		0.0022	0.485 mg/L	0.0022	0.45%
Tl 190.801†	1233.4	0.239 mg/L		0.0017	0.239 mg/L	0.0017	0.70%
V 290.880†	157834.7	0.489 mg/L		0.0055	0.489 mg/L	0.0055	1.11%
Zn 206.200†	40408.9	0.460 mg/L		0.0045	0.460 mg/L	0.0045	0.98%
K 766.490†	129925.4	40.0 mg/L		0.27	40.0 mg/L	0.27	0.67%
Na 589.592†	3665424.2	163 mg/L		3.4	163 mg/L	3.4	2.09%
Sr 407.771†	3982265.4	1.40 mg/L		0.050	1.40 mg/L	0.050	3.58%
Li 670.784†	107218.4	0.687 mg/L		0.0106	0.687 mg/L	0.0106	1.55%

Sequence No.: 9
 Sample ID: L1207070302
 Analyst: KHR
 Initial Sample Wt:
 Dilution:

u&osampler Location: 48
 a&e Collected: 7/25/2012 4:08:42 PM
 a&a Type: Original
 nitial Sample Vol:
 a&ple Prep Vol:

Nebulizer Parameters: L1207070302

Analyte Back Pressure Flow
 All 177.0 kPa 0.50 L/min

Mean Data: L1207070302

Analyte	Mean Corrected Intensity	Conc. Units	Calib. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 371.029	2944540.1					15333.55	0.52%
YRADIAL	339986.8					3188.48	0.94%
Ga 417.206	1619463.2					13067.32	0.81%
GaRADIAL	93254.2					2560.86	2.75%
Ag 328.068†	-147.7	0.00019 mg/L		0.000170	0.00019 mg/L	0.000170	90.67%
Al 396.153†	-77.7	-0.0190 mg/L		0.00107	-0.0190 mg/L	0.00107	5.64%
As 188.979†	-5.2	-0.00009 mg/L		0.001595	-0.00009 mg/L	0.001595	>999.9%
Ba 233.527†	-8.8	-0.00113 mg/L		0.000067	-0.00113 mg/L	0.000067	5.95%
Be 234.861†	26.6	0.00010 mg/L		0.000027	0.00010 mg/L	0.000027	28.14%
B 249.677†	2848.1	0.0208 mg/L		0.00132	0.0208 mg/L	0.00132	6.35%
Ca 227.546†	-1.0	0.0437 mg/L		0.01023	0.0437 mg/L	0.01023	23.42%
Cd 228.802†	5.6	0.00010 mg/L		0.000038	0.00010 mg/L	0.000038	38.84%
Co 228.616†	-12.1	-0.00027 mg/L		0.000158	-0.00027 mg/L	0.000158	58.80%

Approved: July 26, 2012

Ken H. Rhodes

Cr 267.716†	85.2	0.00002	mg/L	0.000102	0.00002	mg/L	0.000102	419.56%
Cu 327.393†	-48.0	0.00038	mg/L	0.000182	0.00038	mg/L	0.000182	48.11%
Fe 239.562†	61.7	0.00488	mg/L	0.000787	0.00488	mg/L	0.000787	16.13%
Mg 279.077†	-12.7	0.0107	mg/L	0.00787	0.0107	mg/L	0.00787	73.80%
Mn 257.610†	163.3	-0.00022	mg/L	0.000032	-0.00022	mg/L	0.000032	14.45%
Mo 202.031†	8.9	-0.00037	mg/L	0.000142	-0.00037	mg/L	0.000142	38.81%
Ni 231.604†	-3.9	-0.00289	mg/L	0.000088	-0.00289	mg/L	0.000088	3.03%
Pb 220.353†	2.6	0.00003	mg/L	0.000324	0.00003	mg/L	0.000324	957.66%
Sb 206.836†	-3.7	0.00073	mg/L	0.000882	0.00073	mg/L	0.000882	120.49%
Se 196.026†	-1.3	0.00009	mg/L	0.001580	0.00009	mg/L	0.001580	>999.9%
Si 251.611†	705.2	0.0161	mg/L	0.00080	0.0161	mg/L	0.00080	4.94%
Sn 189.927†	-7.0	-0.00042	mg/L	0.000310	-0.00042	mg/L	0.000310	74.55%
Ti 334.940†	-36.3	0.00074	mg/L	0.000011	0.00074	mg/L	0.000011	1.51%
Tl 190.801†	-5.3	-0.00409	mg/L	0.001585	-0.00409	mg/L	0.001585	38.78%
V 290.880†	629.6	0.00127	mg/L	0.001225	0.00127	mg/L	0.001225	96.73%
Zn 206.200†	205.1	0.00166	mg/L	0.000149	0.00166	mg/L	0.000149	8.99%
K 766.490†	102.1	-0.0455	mg/L	0.02806	-0.0455	mg/L	0.02806	61.61%
Na 589.592†	1523.9	0.0383	mg/L	0.00674	0.0383	mg/L	0.00674	17.60%
Sr 407.771†	-616.0	0.00010	mg/L	0.000015	0.00010	mg/L	0.000015	13.99%
Li 670.784†	-28.4	-0.00454	mg/L	0.000300	-0.00454	mg/L	0.000300	6.61%

Sequence No.: 10
 Sample ID: L1207071506
 Analyst: KHR
 Initial Sample Wt:
 Dilution:

u&osampler Location: 49
 a&e Collected: 7/25/2012 4:15:36 PM
 a&a Type: Original
 n&itial Sample Vol:
 a&mples Prep Vol:

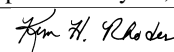
Nebulizer Parameters: L1207071506

Analyte	Back Pressure	Flow
All	177.0 kPa	0.50 L/min

Mean Data: L1207071506

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	2830017.2						13714.54	0.48%
YRADIAL	335414.8						7876.90	2.35%
Ga 417.206	1637010.5						36866.43	2.25%
GaRADIAL	92876.7						1880.00	2.02%
Ag 328.068†	565.9	0.00198	mg/L	0.000438	0.00198	mg/L	0.000438	22.19%
Al 396.153†	202.2	0.0193	mg/L	0.00215	0.0193	mg/L	0.00215	11.13%
As 188.979†	-9.3	-0.00086	mg/L	0.000839	-0.00086	mg/L	0.000839	97.79%
Ba 233.527†	11603.1	0.0505	mg/L	0.00017	0.0505	mg/L	0.00017	0.33%
Be 234.861†	244.6	0.00019	mg/L	0.000019	0.00019	mg/L	0.000019	10.14%
B 249.677†	26488.4	0.180	mg/L	0.0060	0.180	mg/L	0.0060	3.34%
Ca 227.546†	26686.1	47.2	mg/L	0.70	47.2	mg/L	0.70	1.48%
Cd 228.802†	13.9	0.00021	mg/L	0.000038	0.00021	mg/L	0.000038	18.21%
Co 228.616†	26.8	0.00038	mg/L	0.000154	0.00038	mg/L	0.000154	40.17%
Cr 267.716†	132.6	0.00030	mg/L	0.000050	0.00030	mg/L	0.000050	16.42%
Cu 327.393†	2291.6	0.00790	mg/L	0.000516	0.00790	mg/L	0.000516	6.53%
Fe 239.562†	4067.4	0.222	mg/L	0.0069	0.222	mg/L	0.0069	3.10%
Mg 279.077†	26837.4	6.34	mg/L	0.165	6.34	mg/L	0.165	2.60%
Mn 257.610†	165410.8	0.156	mg/L	0.0015	0.156	mg/L	0.0015	0.97%
Mo 202.031†	60.0	0.00073	mg/L	0.000236	0.00073	mg/L	0.000236	32.36%
Ni 231.604†	189.0	-0.00084	mg/L	0.000306	-0.00084	mg/L	0.000306	36.41%
Pb 220.353†	22.6	0.00136	mg/L	0.000461	0.00136	mg/L	0.000461	33.94%
Sb 206.836†	-5.8	0.00042	mg/L	0.001283	0.00042	mg/L	0.001283	303.28%
Se 196.026†	4.9	0.00218	mg/L	0.003726	0.00218	mg/L	0.003726	170.93%
Si 251.611†	423939.9	6.16	mg/L	0.099	6.16	mg/L	0.099	1.61%
Sn 189.927†	-289.6	-0.0167	mg/L	0.00064	-0.0167	mg/L	0.00064	3.80%
Ti 334.940†	-8214.7	0.00159	mg/L	0.000069	0.00159	mg/L	0.000069	4.37%
Tl 190.801†	-7.7	-0.00476	mg/L	0.001724	-0.00476	mg/L	0.001724	36.25%
V 290.880†	2147.0	0.00581	mg/L	0.000677	0.00581	mg/L	0.000677	11.65%
Zn 206.200†	3621.0	0.0404	mg/L	0.00024	0.0404	mg/L	0.00024	0.59%
K 766.490†	41381.7	12.6	mg/L	0.12	12.6	mg/L	0.12	0.98%
Na 589.592†	1356433.7	59.1	mg/L	0.55	59.1	mg/L	0.55	0.92%
Sr 407.771†	522306.5	0.183	mg/L	0.0028	0.183	mg/L	0.0028	1.55%
Li 670.784†	523.2	-0.00098	mg/L	0.000238	-0.00098	mg/L	0.000238	24.22%

Approved: July 26, 2012



Sequence No.: 11
 Sample ID: L1207072801
 Analyst: KHR
 Initial Sample Wt:
 Dilution:

u&osampler Location: 50
 a&e Collected: 7/25/2012 4:21:34 PM
 a&a Type: Original
 n&ital Sample Vol:
 a&le Prep Vol:

Nebulizer Parameters: L1207072801

Analyte	Back Pressure	Flow
All	177.0 kPa	0.50 L/min

Mean Data: L1207072801

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 371.029	2832667.7				7874.86	0.28%
YRADIAL	328467.7				3288.88	1.00%
Ga 417.206	1662796.1				20608.72	1.24%
GaRADIAL	93318.7				2470.12	2.65%
Ag 328.068†	263.5	0.00115 mg/L	0.000192	0.00115 mg/L	0.000192	16.66%
Al 396.153†	672.0	0.0809 mg/L	0.00077	0.0809 mg/L	0.00077	0.95%
As 188.979†	108.0	0.0219 mg/L	0.00188	0.0219 mg/L	0.00188	8.55%
Ba 233.527†	22313.0	0.0982 mg/L	0.00074	0.0982 mg/L	0.00074	0.75%
Be 234.861†	161.1	0.00018 mg/L	0.000018	0.00018 mg/L	0.000018	10.07%
B 249.677†	75938.3	0.515 mg/L	0.0069	0.515 mg/L	0.0069	1.35%
Ca 227.546†	23460.0	41.5 mg/L	0.55	41.5 mg/L	0.55	1.33%
Cd 228.802†	5.6	-0.00002 mg/L	0.000038	-0.00002 mg/L	0.000038	231.51%
Co 228.616†	-1.6	-0.00004 mg/L	0.000167	-0.00004 mg/L	0.000167	444.58%
Cr 267.716†	456.4	0.00223 mg/L	0.000121	0.00223 mg/L	0.000121	5.44%
Cu 327.393†	765.8	0.00298 mg/L	0.000325	0.00298 mg/L	0.000325	10.89%
Fe 239.562†	1079.3	0.0597 mg/L	0.00086	0.0597 mg/L	0.00086	1.44%
Mg 279.077†	53025.0	12.5 mg/L	0.20	12.5 mg/L	0.20	1.56%
Mn 257.610†	18669.8	0.0172 mg/L	0.00009	0.0172 mg/L	0.00009	0.52%
Mo 202.031†	2033.7	0.0412 mg/L	0.00024	0.0412 mg/L	0.00024	0.59%
Ni 231.604†	321.6	0.00057 mg/L	0.000170	0.00057 mg/L	0.000170	30.00%
Pb 220.353†	33.3	0.00201 mg/L	0.000510	0.00201 mg/L	0.000510	25.37%
Sb 206.836†	-1.0	0.00123 mg/L	0.000929	0.00123 mg/L	0.000929	75.34%
Se 196.026†	6.8	0.00284 mg/L	0.001608	0.00284 mg/L	0.001608	56.64%
Si 251.611†	107585.8	1.57 mg/L	0.024	1.57 mg/L	0.024	1.55%
Sn 189.927†	-296.2	-0.0171 mg/L	0.00111	-0.0171 mg/L	0.00111	6.50%
Ti 334.940†	-7572.2	0.00122 mg/L	0.000453	0.00122 mg/L	0.000453	37.10%
Tl 190.801†	-14.0	-0.00581 mg/L	0.001721	-0.00581 mg/L	0.001721	29.61%
V 290.880†	2100.4	0.00551 mg/L	0.001869	0.00551 mg/L	0.001869	33.92%
Zn 206.200†	354.3	0.00337 mg/L	0.000189	0.00337 mg/L	0.000189	5.61%
K 766.490†	15622.9	4.71 mg/L	0.102	4.71 mg/L	0.102	2.16%
Na 589.592†	895192.8	38.8 mg/L	0.77	38.8 mg/L	0.77	1.98%
Sr 407.771†	1032919.3	0.363 mg/L	0.0165	0.363 mg/L	0.0165	4.54%
Li 670.784†	9473.6	0.0567 mg/L	0.00140	0.0567 mg/L	0.00140	2.48%

Sequence No.: 12
 Sample ID: L1207072801PS WG404452-01
 Analyst: KHR
 Initial Sample Wt:
 Dilution:

u&osampler Location: 51
 a&e Collected: 7/25/2012 4:28:30 PM
 a&a Type: Original
 n&ital Sample Vol:
 a&le Prep Vol:

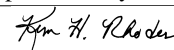
Nebulizer Parameters: L1207072801PS WG404452-01

Analyte	Back Pressure	Flow
All	177.0 kPa	0.50 L/min

Mean Data: L1207072801PS WG404452-01

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 371.029	2797012.1				5025.06	0.18%
YRADIAL	328116.4				12091.55	3.69%
Ga 417.206	1570892.2				42310.79	2.69%
GaRADIAL	89961.4				3677.27	4.09%
Ag 328.068†	77658.5	0.192 mg/L	0.0050	0.192 mg/L	0.0050	2.58%
Al 396.153†	37559.9	5.10 mg/L	0.197	5.10 mg/L	0.197	3.85%
As 188.979†	1084.7	0.211 mg/L	0.0078	0.211 mg/L	0.0078	3.71%

Approved: July 26, 2012



Ba 233.527†	131956.1	0.586 mg/L	0.0012	0.586 mg/L	0.0012	0.20%
Be 234.861†	39979.8	0.0238 mg/L	0.00057	0.0238 mg/L	0.00057	2.38%
B 249.677†	209698.5	1.42 mg/L	0.042	1.42 mg/L	0.042	2.96%
Ca 227.546†	25486.2	45.3 mg/L	1.44	45.3 mg/L	1.44	3.17%
Cd 228.802†	1786.7	0.0222 mg/L	0.00104	0.0222 mg/L	0.00104	4.68%
Co 228.616†	5880.3	0.0992 mg/L	0.00039	0.0992 mg/L	0.00039	0.40%
Cr 267.716†	41652.3	0.247 mg/L	0.0005	0.247 mg/L	0.0005	0.19%
Cu 327.393†	73561.0	0.238 mg/L	0.0061	0.238 mg/L	0.0061	2.56%
Fe 239.562†	37798.3	2.05 mg/L	0.080	2.05 mg/L	0.080	3.90%
Mg 279.077†	69421.6	16.4 mg/L	0.68	16.4 mg/L	0.68	4.14%
Mn 257.610†	285244.3	0.269 mg/L	0.0012	0.269 mg/L	0.0012	0.46%
Mo 202.031†	27119.2	0.556 mg/L	0.0017	0.556 mg/L	0.0017	0.30%
Ni 231.604†	24211.3	0.254 mg/L	0.0014	0.254 mg/L	0.0014	0.54%
Pb 220.353†	4746.3	0.251 mg/L	0.0015	0.251 mg/L	0.0015	0.61%
Sb 206.836†	3716.5	0.583 mg/L	0.0179	0.583 mg/L	0.0179	3.07%
Se 196.026†	586.7	0.199 mg/L	0.0063	0.199 mg/L	0.0063	3.16%
Si 251.611†	271859.5	3.95 mg/L	0.085	3.95 mg/L	0.085	2.16%
Sn 189.927†	-277.4	-0.0160 mg/L	0.00030	-0.0160 mg/L	0.00030	1.90%
Ti 334.940†	647520.6	0.501 mg/L	0.0018	0.501 mg/L	0.0018	0.35%
Tl 190.801†	1339.5	0.260 mg/L	0.0047	0.260 mg/L	0.0047	1.80%
V 290.880†	163582.5	0.509 mg/L	0.0047	0.509 mg/L	0.0047	0.93%
Zn 206.200†	44748.6	0.509 mg/L	0.0029	0.509 mg/L	0.0029	0.56%
K 766.490†	96317.2	29.6 mg/L	1.02	29.6 mg/L	1.02	3.43%
Na 589.592†	1424716.6	62.1 mg/L	2.97	62.1 mg/L	2.97	4.78%
Sr 407.771†	2398543.8	0.844 mg/L	0.0366	0.844 mg/L	0.0366	4.34%
Li 670.784†	90082.2	0.576 mg/L	0.0184	0.576 mg/L	0.0184	3.20%

Sequence No.: 13
Sample ID: CCV
Analyst:
Initial Sample Wt:
Dilution:

Sampler Location: 6
Date Collected: 7/25/2012 4:34:27 PM
Sample Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: CCV

Analyte	Back Pressure	Flow
All	177.0 kPa	0.50 L/min

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 371.029	2818701.6				11736.62	0.42%
YRADIAL	327616.0				5242.73	1.60%
Ga 417.206	1512880.0				37587.60	2.48%
GarADIAL	88065.5				1802.13	2.05%
Ag 328.068†	160040.8	0.395 mg/L	0.0088	0.395 mg/L	0.0088	2.24%
QC value within limits for Ag 328.068		Recovery = 98.87%				
Al 396.153†	73385.6	9.98 mg/L	0.071	9.98 mg/L	0.071	0.71%
QC value within limits for Al 396.153		Recovery = 99.75%				
As 188.979†	2020.4	0.393 mg/L	0.0100	0.393 mg/L	0.0100	2.55%
QC value within limits for As 188.979		Recovery = 98.28%				
Ba 233.527†	227262.0	1.01 mg/L	0.004	1.01 mg/L	0.004	0.41%
QC value within limits for Ba 233.527		Recovery = 101.04%				
Be 234.861†	81729.4	0.0486 mg/L	0.00148	0.0486 mg/L	0.00148	3.05%
QC value within limits for Be 234.861		Recovery = 97.23%				
B 249.677†	72565.8	0.488 mg/L	0.0149	0.488 mg/L	0.0149	3.05%
QC value within limits for B 249.677		Recovery = 97.62%				
Ca 227.546†	5520.4	10.3 mg/L	0.30	10.3 mg/L	0.30	2.95%
QC value within limits for Ca 227.546		Recovery = 102.82%				
Cd 228.802†	3763.8	0.0471 mg/L	0.00206	0.0471 mg/L	0.00206	4.37%
QC value within limits for Cd 228.802		Recovery = 94.15%				
Co 228.616†	12019.3	0.203 mg/L	0.0006	0.203 mg/L	0.0006	0.30%
QC value within limits for Co 228.616		Recovery = 101.34%				
Cr 267.716†	84027.2	0.500 mg/L	0.0012	0.500 mg/L	0.0012	0.24%
QC value within limits for Cr 267.716		Recovery = 99.95%				
Cu 327.393†	154329.1	0.498 mg/L	0.0132	0.498 mg/L	0.0132	2.65%
QC value within limits for Cu 327.393		Recovery = 99.60%				
Fe 239.562†	73899.6	4.00 mg/L	0.037	4.00 mg/L	0.037	0.92%
QC value within limits for Fe 239.562		Recovery = 100.03%				
Mg 279.077†	42561.0	10.1 mg/L	0.04	10.1 mg/L	0.04	0.43%

Approved: July 26, 2012

Ann H. Rhodes

Mn	257.610†	538016.2	0.508 mg/L	0.0035	0.508 mg/L	0.0035	0.69%
Mo	202.031†	49818.6	1.02 mg/L	0.005	1.02 mg/L	0.005	0.49%
Ni	231.604†	49497.2	0.522 mg/L	0.0012	0.522 mg/L	0.0012	0.24%
Pb	220.353†	9657.5	0.511 mg/L	0.0009	0.511 mg/L	0.0009	0.19%
Sb	206.836†	7599.9	1.19 mg/L	0.035	1.19 mg/L	0.035	2.97%
Se	196.026†	1194.5	0.405 mg/L	0.0143	0.405 mg/L	0.0143	3.53%
Si	251.611†	339151.0	4.92 mg/L	0.085	4.92 mg/L	0.085	1.72%
Sn	189.927†	17699.9	1.02 mg/L	0.003	1.02 mg/L	0.003	0.33%
Ti	334.940†	1323995.3	1.01 mg/L	0.001	1.01 mg/L	0.001	0.07%
Tl	190.801†	2740.7	0.536 mg/L	0.0018	0.536 mg/L	0.0018	0.33%
V	290.880†	322614.0	1.01 mg/L	0.007	1.01 mg/L	0.007	0.68%
Zn	206.200†	88718.1	1.01 mg/L	0.007	1.01 mg/L	0.007	0.69%
K	766.490†	163105.2	50.4 mg/L	0.20	50.4 mg/L	0.20	0.40%
Na	589.592†	1152614.7	50.1 mg/L	0.97	50.1 mg/L	0.97	1.94%
Sr	407.771†	2896766.5	1.02 mg/L	0.012	1.02 mg/L	0.012	1.18%
Li	670.784†	159302.9	1.02 mg/L	0.004	1.02 mg/L	0.004	0.35%

QC value within limits for Mg 279.077 Recovery = 100.63%
 QC value within limits for Mn 257.610 Recovery = 101.54%
 QC value within limits for Mo 202.031 Recovery = 102.16%
 QC value within limits for Ni 231.604 Recovery = 104.36%
 QC value within limits for Pb 220.353 Recovery = 102.16%
 QC value within limits for Sb 206.836 Recovery = 99.28%
 QC value within limits for Se 196.026 Recovery = 101.29%
 QC value within limits for Si 251.611 Recovery = 98.39%
 QC value within limits for Sn 189.927 Recovery = 102.12%
 QC value within limits for Ti 334.940 Recovery = 101.05%
 QC value within limits for Tl 190.801 Recovery = 107.15%
 QC value within limits for V 290.880 Recovery = 100.53%
 QC value within limits for Zn 206.200 Recovery = 101.02%
 QC value within limits for K 766.490 Recovery = 100.79%
 QC value within limits for Na 589.592 Recovery = 100.23%
 QC value within limits for Sr 407.771 Recovery = 102.03%
 QC value within limits for Li 670.784 Recovery = 102.24%

All analyte(s) passed QC.

Sequence No.: 14
 Sample ID: CCB
 Analyst:
 Initial Sample Wt:
 Dilution:

u&osampler Location: 1
 a&e Collected: 7/25/2012 4:40:27 PM
 a&e Type: Original
 nitial Sample Vol:
 a&e Sample Prep Vol:

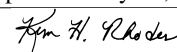
Nebulizer Parameters: CCB

Analyte	Back Pressure	Flow
All	177.0 kPa	0.50 L/min

Mean Data: CCB

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 371.029	2950433.8				15787.82	0.54%
YRADIAL	335190.5				4067.07	1.21%
Ga 417.206	1584249.7				13415.18	0.85%
GarADIAL	91193.7				1916.10	2.10%
Ag 328.068†	-63.4	0.00039 mg/L	0.000250	0.00039 mg/L	0.000250	64.10%
QC value within limits for Ag 328.068						Recovery = Not calculated
Al 396.153†	-1.1	-0.00850 mg/L	0.001222	-0.00850 mg/L	0.001222	14.38%
QC value within limits for Al 396.153						Recovery = Not calculated
As 188.979†	-9.4	-0.00092 mg/L	0.000543	-0.00092 mg/L	0.000543	59.27%
QC value within limits for As 188.979						Recovery = Not calculated
Ba 233.527†	-41.0	-0.00127 mg/L	0.000128	-0.00127 mg/L	0.000128	10.04%
QC value within limits for Ba 233.527						Recovery = Not calculated
Be 234.861†	-30.4	0.00006 mg/L	0.000010	0.00006 mg/L	0.000010	15.90%
QC value within limits for Be 234.861						Recovery = Not calculated
B 249.677†	832.3	0.00716 mg/L	0.000526	0.00716 mg/L	0.000526	7.35%
QC value within limits for B 249.677						Recovery = Not calculated
Ca 227.546†	8.1	0.0595 mg/L	0.03860	0.0595 mg/L	0.03860	64.89%
QC value within limits for Ca 227.546						Recovery = Not calculated
Cd 228.802†	4.0	0.00008 mg/L	0.000022	0.00008 mg/L	0.000022	26.72%
QC value within limits for Cd 228.802						Recovery = Not calculated
Co 228.616†	-9.3	-0.00022 mg/L	0.000220	-0.00022 mg/L	0.000220	100.46%

Approved: July 26, 2012



Cr	QC value within limits for Cr	267.716†	11.0	-0.00042 mg/L	0.000116	-0.00042 mg/L	0.000116	27.71%
Cu	QC value within limits for Cu	327.393†	13.6	0.00057 mg/L	0.000462	0.00057 mg/L	0.000462	80.46%
Fe	QC value within limits for Fe	239.562†	-2.4	0.00140 mg/L	0.000339	0.00140 mg/L	0.000339	24.15%
Mg	QC value within limits for Mg	279.077†	-12.7	0.0107 mg/L	0.00082	0.0107 mg/L	0.00082	7.71%
Mn	QC value within limits for Mn	257.610†	-41.0	-0.00042 mg/L	0.000010	-0.00042 mg/L	0.000010	2.34%
Mo	QC value within limits for Mo	202.031†	13.8	-0.00027 mg/L	0.000108	-0.00027 mg/L	0.000108	40.59%
Ni	QC value within limits for Ni	231.604†	-22.9	-0.00309 mg/L	0.000236	-0.00309 mg/L	0.000236	7.64%
Pb	QC value within limits for Pb	220.353†	-5.3	-0.00038 mg/L	0.000520	-0.00038 mg/L	0.000520	137.53%
Sb	QC value within limits for Sb	206.836†	1.6	0.00158 mg/L	0.000888	0.00158 mg/L	0.000888	56.35%
Se	QC value within limits for Se	196.026†	9.3	0.00368 mg/L	0.000621	0.00368 mg/L	0.000621	16.87%
Si	QC value within limits for Si	251.611†	-239.4	0.00240 mg/L	0.001087	0.00240 mg/L	0.001087	45.38%
Sn	QC value within limits for Sn	189.927†	-0.3	-0.00003 mg/L	0.000341	-0.00003 mg/L	0.000341	>999.9%
Ti	QC value within limits for Ti	334.940†	-41.0	0.00074 mg/L	0.000078	0.00074 mg/L	0.000078	10.51%
Tl	QC value within limits for Tl	190.801†	-4.4	-0.00390 mg/L	0.000729	-0.00390 mg/L	0.000729	18.67%
V	QC value within limits for V	290.880†	303.8	0.00025 mg/L	0.000377	0.00025 mg/L	0.000377	150.63%
Zn	QC value within limits for Zn	206.200†	43.8	-0.00018 mg/L	0.000021	-0.00018 mg/L	0.000021	11.87%
K	QC value within limits for K	766.490†	28.0	-0.0683 mg/L	0.02124	-0.0683 mg/L	0.02124	31.09%
Na	QC value within limits for Na	589.592†	176.2	-0.0198 mg/L	0.00547	-0.0198 mg/L	0.00547	27.60%
Sr	QC value within limits for Sr	407.771†	-141.0	0.00027 mg/L	0.000019	0.00027 mg/L	0.000019	7.15%
Li	QC value within limits for Li	670.784†	55.1	-0.00400 mg/L	0.000626	-0.00400 mg/L	0.000626	15.64%

All analyte(s) passed QC.

Sequence No.: 15

Sample ID: L1207072801DL WG404452-02

Analyst: KHR

Initial Sample Wt:

Dilution:

u&osampler Location: 52

a&e Collected: 7/25/2012 4:47:21 PM

a&a Type: Original

n&itial Sample Vol:

a&mple Prep Vol:

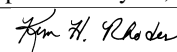
Nebulizer Parameters: L1207072801DL WG404452-02

Analyte	Back Pressure	Flow
All	177.0 kPa	0.50 L/min

Mean Data: L1207072801DL WG404452-02

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 371.029	2893700.4				11119.26	0.38%
YRADIAL	326267.1				4857.17	1.49%
Ga 417.206	1622285.3				18188.27	1.12%
GaRADIAL	90816.9				2422.22	2.67%
Ag 328.068†	52.0	0.00067 mg/L	0.000148	0.00067 mg/L	0.000148	22.23%
Al 396.153†	130.6	0.00898 mg/L	0.000732	0.00898 mg/L	0.000732	8.15%
As 188.979†	20.0	0.00482 mg/L	0.000872	0.00482 mg/L	0.000872	18.08%
Ba 233.527†	4575.2	0.0193 mg/L	0.00013	0.0193 mg/L	0.00013	0.67%
Be 234.861†	17.1	0.00009 mg/L	0.000008	0.00009 mg/L	0.000008	8.70%
B 249.677†	15770.8	0.108 mg/L	0.0008	0.108 mg/L	0.0008	0.77%
Ca 227.546†	4770.6	8.48 mg/L	0.101	8.48 mg/L	0.101	1.19%
Cd 228.802†	-2.7	-0.00003 mg/L	0.000055	-0.00003 mg/L	0.000055	157.43%
Co 228.616†	-9.9	-0.00023 mg/L	0.000210	-0.00023 mg/L	0.000210	92.76%

Approved: July 26, 2012



Cr 267.716†	103.0	0.00013	mg/L	0.000047	0.00013	mg/L	0.000047	36.24%
Cu 327.393†	56.0	0.00071	mg/L	0.000477	0.00071	mg/L	0.000477	66.90%
Fe 239.562†	215.5	0.0132	mg/L	0.00054	0.0132	mg/L	0.00054	4.14%
Mg 279.077†	11113.3	2.63	mg/L	0.041	2.63	mg/L	0.041	1.55%
Mn 257.610†	4244.2	0.00363	mg/L	0.000013	0.00363	mg/L	0.000013	0.36%
Mo 202.031†	414.6	0.00795	mg/L	0.000247	0.00795	mg/L	0.000247	3.10%
Ni 231.604†	45.9	-0.00236	mg/L	0.000154	-0.00236	mg/L	0.000154	6.55%
Pb 220.353†	11.3	0.00057	mg/L	0.001234	0.00057	mg/L	0.001234	216.65%
Sb 206.836†	3.4	0.00187	mg/L	0.000264	0.00187	mg/L	0.000264	14.09%
Se 196.026†	4.4	0.00204	mg/L	0.000437	0.00204	mg/L	0.000437	21.41%
Si 251.611†	22164.3	0.328	mg/L	0.0049	0.328	mg/L	0.0049	1.49%
Sn 189.927†	-114.1	-0.00659	mg/L	0.000202	-0.00659	mg/L	0.000202	3.07%
Ti 334.940†	2781.9	0.00415	mg/L	0.005820	0.00415	mg/L	0.005820	140.20%
Tl 190.801†	-1.3	-0.00329	mg/L	0.001599	-0.00329	mg/L	0.001599	48.62%
V 290.880†	818.2	0.00178	mg/L	0.000469	0.00178	mg/L	0.000469	26.32%
Zn 206.200†	214.9	0.00177	mg/L	0.000113	0.00177	mg/L	0.000113	6.37%
K 766.490†	3348.4	0.948	mg/L	0.0133	0.948	mg/L	0.0133	1.40%
Na 589.592†	182205.3	7.84	mg/L	0.179	7.84	mg/L	0.179	2.28%
Sr 407.771†	205654.9	0.0726	mg/L	0.00171	0.0726	mg/L	0.00171	2.36%
Li 670.784†	1883.3	0.00778	mg/L	0.000480	0.00778	mg/L	0.000480	6.17%

Sequence No.: 16

Sample ID: L1207072904

Analyst: KHR

Initial Sample Wt:

Dilution:

u&osampler Location: 53

a&e Collected: 7/25/2012 4:54:16 PM

a&a Type: Original

n&itial Sample Vol:

a&ample Prep Vol:

Nebulizer Parameters: L1207072904

Analyte	Back Pressure	Flow
All	177.0 kPa	0.50 L/min

Mean Data: L1207072904

Analyte	Mean Corrected Intensity	Conc. Units	Calib. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD	
Y 371.029	2535182.0					37908.88	1.50%	
YRADIAL	315126.1					5842.51	1.85%	
Ga 417.206	1484463.4					19285.45	1.30%	
GaRADIAL	90376.6					2479.07	2.74%	
Ag 328.068†	335.7	0.00133	mg/L	0.000483	0.00133	mg/L	0.000483	36.28%
Al 396.153†	449.3	0.0479	mg/L	0.00235	0.0479	mg/L	0.00235	4.91%
As 188.979†	17.5	0.00395	mg/L	0.000677	0.00395	mg/L	0.000677	17.14%
Ba 233.527†	3110.9	0.0128	mg/L	0.00030	0.0128	mg/L	0.00030	2.38%
Be 234.861†	-90.9	0.00005	mg/L	0.000008	0.00005	mg/L	0.000008	16.04%
B 249.677†	38645.9	0.263	mg/L	0.0098	0.263	mg/L	0.0098	3.75%
Ca 227.546†	23085.7	40.9	mg/L	1.43	40.9	mg/L	1.43	3.50%
Cd 228.802†	-3.9	0.00002	mg/L	0.000080	0.00002	mg/L	0.000080	480.91%
Co 228.616†	1083.2	0.0184	mg/L	0.00049	0.0184	mg/L	0.00049	2.68%
Cr 267.716†	227.8	0.00086	mg/L	0.000046	0.00086	mg/L	0.000046	5.29%
Cu 327.393†	-103.9	-0.00115	mg/L	0.000544	-0.00115	mg/L	0.000544	47.32%
Fe 239.562†	204.6	0.0123	mg/L	0.00098	0.0123	mg/L	0.00098	7.96%
Mg 279.077†	53458.2	12.6	mg/L	0.26	12.6	mg/L	0.26	2.07%
Mn 257.610†	1609.7	0.00116	mg/L	0.000063	0.00116	mg/L	0.000063	5.46%
Mo 202.031†	3746.7	0.0763	mg/L	0.00161	0.0763	mg/L	0.00161	2.11%
Ni 231.604†	2018.9	0.0186	mg/L	0.00048	0.0186	mg/L	0.00048	2.57%
Pb 220.353†	12.5	0.00093	mg/L	0.000823	0.00093	mg/L	0.000823	88.33%
Sb 206.836†	0.7	0.00155	mg/L	0.001778	0.00155	mg/L	0.001778	114.68%
Se 196.026†	-0.2	0.00048	mg/L	0.001197	0.00048	mg/L	0.001197	251.07%
Si 251.611†	111720.7	1.63	mg/L	0.057	1.63	mg/L	0.057	3.48%
Sn 189.927†	-283.0	-0.0163	mg/L	0.00003	-0.0163	mg/L	0.00003	0.21%
Ti 334.940†	-9561.9	-0.00039	mg/L	0.000420	-0.00039	mg/L	0.000420	106.55%
Tl 190.801†	-44.0	-0.0116	mg/L	0.00134	-0.0116	mg/L	0.00134	11.61%
V 290.880†	2246.9	0.00597	mg/L	0.001978	0.00597	mg/L	0.001978	33.13%
Zn 206.200†	409.1	0.00398	mg/L	0.000064	0.00398	mg/L	0.000064	1.60%
K 766.490†	19769.4	6.03	mg/L	0.143	6.03	mg/L	0.143	2.37%
Na 589.592†	Saturated2							
Sr 407.771†	731123.0	0.257	mg/L	0.0122	0.257	mg/L	0.0122	4.74%
Li 670.784†	1349709.2	8.69	mg/L	0.018	8.69	mg/L	0.018	0.21%

Approved: July 26, 2012

Ken H. Rhodes

Sequence No.: 17
 Sample ID: L1207073201
 Analyst: KHR
 Initial Sample Wt:
 Dilution:

u&osampler Location: 54
 a&e Collected: 7/25/2012 5:01:12 PM
 a&a Type: Original
 nitial Sample Vol:
 a&ple Prep Vol:

Nebulizer Parameters: L1207073201

Analyte Back Pressure Flow
 All 177.0 kPa 0.50 L/min

Mean Data: L1207073201

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc. Units	Sample Std.Dev.	RSD
Y 371.029	2827207.7					21861.19	0.77%
YRADIAL	329272.2					672.13	0.20%
Ga 417.206	1581065.4					53660.94	3.39%
GaRADIAL	90859.4					444.81	0.49%
Ag 328.068†	453.4	0.00172	mg/L	0.000484	0.00172	0.000484	28.16%
Al 396.153†	22.5	-0.00533	mg/L	0.006031	-0.00533	0.006031	113.21%
As 188.979†	2.2	0.00140	mg/L	0.000971	0.00140	0.000971	69.27%
Ba 233.527†	5665.2	0.0241	mg/L	0.00018	0.0241	0.00018	0.74%
Be 234.861†	173.7	0.00013	mg/L	0.000001	0.00013	0.000001	0.69%
B 249.677†	6064.4	0.0424	mg/L	0.00256	0.0424	0.00256	6.03%
Ca 227.546†	18625.3	33.0	mg/L	1.39	33.0	1.39	4.20%
Cd 228.802†	9.6	0.00014	mg/L	0.000148	0.00014	0.000148	104.96%
Co 228.616†	8.7	0.00008	mg/L	0.000214	0.00008	0.000214	262.66%
Cr 267.716†	145.9	0.00038	mg/L	0.000207	0.00038	0.000207	54.54%
Cu 327.393†	2339.2	0.00806	mg/L	0.000299	0.00806	0.000299	3.71%
Fe 239.562†	4293.4	0.234	mg/L	0.0042	0.234	0.0042	1.79%
Mg 279.077†	31674.8	7.48	mg/L	0.059	7.48	0.059	0.79%
Mn 257.610†	19090.5	0.0176	mg/L	0.00031	0.0176	0.00031	1.78%
Mo 202.031†	76.9	0.00105	mg/L	0.000056	0.00105	0.000056	5.31%
Ni 231.604†	226.4	-0.00044	mg/L	0.000287	-0.00044	0.000287	64.64%
Pb 220.353†	-6.7	-0.00023	mg/L	0.000993	-0.00023	0.000993	439.48%
Sb 206.836†	-0.5	0.00125	mg/L	0.001646	0.00125	0.001646	132.20%
Se 196.026†	4.5	0.00209	mg/L	0.000565	0.00209	0.000565	27.03%
Si 251.611†	202801.7	2.95	mg/L	0.107	2.95	0.107	3.62%
Sn 189.927†	-249.6	-0.0144	mg/L	0.00052	-0.0144	0.00052	3.58%
Ti 334.940†	-5672.7	0.00139	mg/L	0.000430	0.00139	0.000430	31.06%
Tl 190.801†	-9.7	-0.00499	mg/L	0.000932	-0.00499	0.000932	18.69%
V 290.880†	1716.1	0.00443	mg/L	0.001562	0.00443	0.001562	35.24%
Zn 206.200†	2482.7	0.0275	mg/L	0.00021	0.0275	0.00021	0.75%
K 766.490†	30588.2	9.33	mg/L	0.106	9.33	0.106	1.14%
Na 589.592†	989890.9	43.0	mg/L	0.14	43.0	0.14	0.34%
Sr 407.771†	536147.3	0.188	mg/L	0.0005	0.188	0.0005	0.25%
Li 670.784†	1175.0	0.00322	mg/L	0.000754	0.00322	0.000754	23.45%

Sequence No.: 18
 Sample ID: L1207073606
 Analyst: KHR
 Initial Sample Wt:
 Dilution:

u&osampler Location: 55
 a&e Collected: 7/25/2012 5:07:11 PM
 a&a Type: Original
 nitial Sample Vol:
 a&ple Prep Vol:

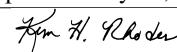
Nebulizer Parameters: L1207073606

Analyte Back Pressure Flow
 All 177.0 kPa 0.50 L/min

Mean Data: L1207073606

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc. Units	Sample Std.Dev.	RSD
Y 371.029	2965252.8					18921.02	0.64%
YRADIAL	334572.4					6572.35	1.96%
Ga 417.206	1680505.7					19257.84	1.15%
GaRADIAL	93476.3					2208.72	2.36%
Ag 328.068†	-125.1	0.00024	mg/L	0.000329	0.00024	0.000329	135.33%
Al 396.153†	-32.1	-0.0127	mg/L	0.00274	-0.0127	0.00274	21.52%
As 188.979†	-1.2	0.00069	mg/L	0.000526	0.00069	0.000526	76.47%

Approved: July 26, 2012



Ba 233.527†	1169.3	0.00411	mg/L	0.000093	0.00411	mg/L	0.000093	2.27%
Be 234.861†	307.7	0.00026	mg/L	0.000015	0.00026	mg/L	0.000015	5.84%
B 249.677†	863.5	0.00737	mg/L	0.000258	0.00737	mg/L	0.000258	3.50%
Ca 227.546†	1464.2	2.63	mg/L	0.053	2.63	mg/L	0.053	2.01%
Cd 228.802†	-5.5	-0.00005	mg/L	0.000045	-0.00005	mg/L	0.000045	92.40%
Co 228.616†	-9.5	-0.00022	mg/L	0.000100	-0.00022	mg/L	0.000100	44.57%
Cr 267.716†	41.5	-0.00024	mg/L	0.000071	-0.00024	mg/L	0.000071	30.00%
Cu 327.393†	3157.3	0.0107	mg/L	0.00022	0.0107	mg/L	0.00022	2.06%
Fe 239.562†	209.8	0.0129	mg/L	0.00029	0.0129	mg/L	0.00029	2.27%
Mg 279.077†	1225.2	0.302	mg/L	0.0070	0.302	mg/L	0.0070	2.30%
Mn 257.610†	1333.3	0.00088	mg/L	0.000016	0.00088	mg/L	0.000016	1.81%
Mo 202.031†	7.4	-0.00039	mg/L	0.000036	-0.00039	mg/L	0.000036	9.20%
Ni 231.604†	22.3	-0.00261	mg/L	0.000034	-0.00261	mg/L	0.000034	1.29%
Pb 220.353†	16.9	0.00080	mg/L	0.000358	0.00080	mg/L	0.000358	44.68%
Sb 206.836†	-7.5	0.00014	mg/L	0.000773	0.00014	mg/L	0.000773	553.08%
Se 196.026†	-1.2	0.00013	mg/L	0.001228	0.00013	mg/L	0.001228	970.27%
Si 251.611†	294866.9	4.29	mg/L	0.083	4.29	mg/L	0.083	1.92%
Sn 189.927†	8.1	0.00046	mg/L	0.005612	0.00046	mg/L	0.005612	>999.9%
Ti 334.940†	-635.5	0.00067	mg/L	0.000052	0.00067	mg/L	0.000052	7.68%
Tl 190.801†	8.6	-0.00142	mg/L	0.000457	-0.00142	mg/L	0.000457	32.05%
V 290.880†	452.4	0.00070	mg/L	0.000927	0.00070	mg/L	0.000927	131.61%
Zn 206.200†	1916.2	0.0211	mg/L	0.00008	0.0211	mg/L	0.00008	0.39%
K 766.490†	1645.2	0.429	mg/L	0.0128	0.429	mg/L	0.0128	2.98%
Na 589.592†	47500.3	2.02	mg/L	0.032	2.02	mg/L	0.032	1.57%
Sr 407.771†	15769.2	0.00582	mg/L	0.000200	0.00582	mg/L	0.000200	3.44%
Li 670.784†	960.1	0.00183	mg/L	0.000471	0.00183	mg/L	0.000471	25.67%

Sequence No.: 19
Sample ID: L1207073607
Analyst: KHR
Initial Sample Wt:
Dilution:

u&osampler Location: 56
a&e Collected: 7/25/2012 5:14:07 PM
a&a Type: Original
n&itial Sample Vol:
a&mple Prep Vol:

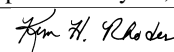
Nebulizer Parameters: L1207073607

Analyte Back Pressure Flow
All 177.0 kPa 0.50 L/min

Mean Data: L1207073607

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD		
Y 371.029	2928307.4				19794.01	0.68%		
YRADIAL	338554.0				344.69	0.10%		
Ga 417.206	1612447.4				50242.41	3.12%		
GaRADIAL	92535.4				364.91	0.39%		
Ag 328.068†	-404.9	0.00095	mg/L	0.000576	0.00095	mg/L	0.000576	60.41%
Al 396.153†	293.4	0.0322	mg/L	0.00419	0.0322	mg/L	0.00419	12.99%
As 188.979†	-2.8	0.00118	mg/L	0.000417	0.00118	mg/L	0.000417	35.32%
Ba 233.527†	2799.0	0.0112	mg/L	0.00018	0.0112	mg/L	0.00018	1.58%
Be 234.861†	1383.4	0.00012	mg/L	0.000025	0.00012	mg/L	0.000025	20.77%
B 249.677†	14972.1	0.101	mg/L	0.0034	0.101	mg/L	0.0034	3.41%
Ca 227.546†	1269.2	2.37	mg/L	0.086	2.37	mg/L	0.086	3.62%
Cd 228.802†	5.4	0.00009	mg/L	0.000145	0.00009	mg/L	0.000145	162.86%
Co 228.616†	3.8	-0.00009	mg/L	0.000174	-0.00009	mg/L	0.000174	192.37%
Cr 267.716†	96.3	0.00003	mg/L	0.000064	0.00003	mg/L	0.000064	241.50%
Cu 327.393†	4302.7	0.0146	mg/L	0.00105	0.0146	mg/L	0.00105	7.21%
Fe 239.562†	62733.6	3.40	mg/L	0.022	3.40	mg/L	0.022	0.65%
Mg 279.077†	4874.6	1.16	mg/L	0.014	1.16	mg/L	0.014	1.20%
Mn 257.610†	19683.5	0.0183	mg/L	0.00029	0.0183	mg/L	0.00029	1.58%
Mo 202.031†	25.6	0.00015	mg/L	0.000079	0.00015	mg/L	0.000079	52.75%
Ni 231.604†	111.4	-0.00166	mg/L	0.000281	-0.00166	mg/L	0.000281	16.86%
Pb 220.353†	124.2	0.00616	mg/L	0.000325	0.00616	mg/L	0.000325	5.27%
Sb 206.836†	-5.2	0.00064	mg/L	0.000417	0.00064	mg/L	0.000417	65.50%
Se 196.026†	2.3	0.00185	mg/L	0.001543	0.00185	mg/L	0.001543	83.31%
Si 251.611†	211642.8	3.08	mg/L	0.073	3.08	mg/L	0.073	2.37%
Sn 189.927†	-45.0	-0.00261	mg/L	0.000355	-0.00261	mg/L	0.000355	13.60%
Ti 334.940†	-165.4	0.00098	mg/L	0.000096	0.00098	mg/L	0.000096	9.81%
Tl 190.801†	-1.6	-0.00338	mg/L	0.000648	-0.00338	mg/L	0.000648	19.16%
V 290.880†	1401.6	0.00320	mg/L	0.000631	0.00320	mg/L	0.000631	19.73%
Zn 206.200†	129963.4	1.47	mg/L	0.025	1.47	mg/L	0.025	1.68%

Approved: July 26, 2012



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K 766.490†	5307.6	1.55 mg/L	0.017	1.55 mg/L	0.017	1.10%
Na 589.592†	201239.2	8.66 mg/L	0.045	8.66 mg/L	0.045	0.52%
Sr 407.771†	65325.0	0.0233 mg/L	0.00013	0.0233 mg/L	0.00013	0.57%
Li 670.784†	278.1	-0.00256 mg/L	0.000581	-0.00256 mg/L	0.000581	22.65%

Sequence No.: 20
 Sample ID: L1207060915
 Analyst: KHR
 Initial Sample Wt:
 Dilution:

u&osampler Location: 67
 ame Collected: 7/25/2012 5:20:05 PM
 a&a Type: Original
 nitial Sample Vol:
 ample Prep Vol:

Nebulizer Parameters: L1207060915

Analyte	Back Pressure	Flow
All	177.0 kPa	0.50 L/min

Mean Data: L1207060915

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 371.029	2887457.9				8142.74	0.28%
YRADIAL	335362.7				1336.75	0.40%
Ga 417.206	1559060.9				31566.04	2.02%
GaRADIAL	91307.6				329.84	0.36%
Ag 328.068†	-176.1	0.00066 mg/L	0.000495	0.00066 mg/L	0.000495	74.43%
Al 396.153†	8989.5	1.22 mg/L	0.013	1.22 mg/L	0.013	1.05%
As 188.979†	-14.8	-0.00176 mg/L	0.001262	-0.00176 mg/L	0.001262	71.82%
Ba 233.527†	4315.5	0.0180 mg/L	0.00014	0.0180 mg/L	0.00014	0.80%
Be 234.861†	479.2	0.00006 mg/L	0.000061	0.00006 mg/L	0.000061	100.51%
B 249.677†	2956.6	0.0209 mg/L	0.00072	0.0209 mg/L	0.00072	3.45%
Ca 227.546†	4824.9	8.61 mg/L	0.184	8.61 mg/L	0.184	2.14%
Cd 228.802†	31.6	0.00044 mg/L	0.000127	0.00044 mg/L	0.000127	28.73%
Co 228.616†	38.6	0.00052 mg/L	0.000168	0.00052 mg/L	0.000168	31.95%
Cr 267.716†	983.5	0.00534 mg/L	0.000042	0.00534 mg/L	0.000042	0.79%
Cu 327.393†	4266.6	0.0143 mg/L	0.00052	0.0143 mg/L	0.00052	3.60%
Fe 239.562†	24858.6	1.35 mg/L	0.007	1.35 mg/L	0.007	0.50%
Mg 279.077†	8397.5	1.99 mg/L	0.026	1.99 mg/L	0.026	1.30%
Mn 257.610†	50496.7	0.0473 mg/L	0.00067	0.0473 mg/L	0.00067	1.41%
Mo 202.031†	212.1	0.00388 mg/L	0.000459	0.00388 mg/L	0.000459	11.84%
Ni 231.604†	343.0	0.00079 mg/L	0.000532	0.00079 mg/L	0.000532	67.05%
Pb 220.353†	40.0	0.00215 mg/L	0.001398	0.00215 mg/L	0.001398	64.95%
Sb 206.836†	-8.4	0.00002 mg/L	0.000885	0.00002 mg/L	0.000885	>999.9%
Se 196.026†	5.6	0.00267 mg/L	0.001900	0.00267 mg/L	0.001900	71.24%
Si 251.611†	225564.7	3.28 mg/L	0.039	3.28 mg/L	0.039	1.20%
Sn 189.927†	-98.9	-0.00572 mg/L	0.000389	-0.00572 mg/L	0.000389	6.80%
Ti 334.940†	19167.8	0.0166 mg/L	0.00005	0.0166 mg/L	0.00005	0.31%
Tl 190.801†	-24.1	-0.00750 mg/L	0.003045	-0.00750 mg/L	0.003045	40.60%
V 290.880†	2415.8	0.00661 mg/L	0.000718	0.00661 mg/L	0.000718	10.86%
Zn 206.200†	6041.2	0.0679 mg/L	0.00011	0.0679 mg/L	0.00011	0.16%
K 766.490†	3373.8	0.848 mg/L	0.0125	0.848 mg/L	0.0125	1.47%
Na 589.592†	2648560.3	117 mg/L	0.5	117 mg/L	0.5	0.47%
Sr 407.771†	153298.1	0.0541 mg/L	0.00030	0.0541 mg/L	0.00030	0.55%
Li 670.784†	492.5	-0.00118 mg/L	0.000466	-0.00118 mg/L	0.000466	39.44%

Sequence No.: 21
 Sample ID: L1207066622
 Analyst: KHR
 Initial Sample Wt:
 Dilution:

u&osampler Location: 68
 ame Collected: 7/25/2012 5:26:05 PM
 a&a Type: Original
 nitial Sample Vol:
 ample Prep Vol:

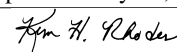
Nebulizer Parameters: L1207066622

Analyte	Back Pressure	Flow
All	177.0 kPa	0.50 L/min

Mean Data: L1207066622

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 371.029	2789981.5				17787.41	0.64%

Approved: July 26, 2012



YRADIAL	317955.7					3130.11	0.98%
Ga 417.206	1531732.5					38900.08	2.54%
GaRADIAL	87107.5					1193.49	1.37%
Ag 328.068†	-43.0	0.00086 mg/L	0.000452	0.00086 mg/L	0.000452	52.34%	
Al 396.153†	9675.3	1.32 mg/L	0.018	1.32 mg/L	0.018	1.33%	
As 188.979†	-16.6	-0.00220 mg/L	0.001232	-0.00220 mg/L	0.001232	56.13%	
Ba 233.527†	2895.1	0.0117 mg/L	0.00022	0.0117 mg/L	0.00022	1.89%	
Be 234.861†	352.0	0.00006 mg/L	0.000038	0.00006 mg/L	0.000038	67.20%	
B 249.677†	3447.1	0.0244 mg/L	0.00079	0.0244 mg/L	0.00079	3.25%	
Ca 227.546†	5968.3	10.6 mg/L	0.26	10.6 mg/L	0.26	2.40%	
Cd 228.802†	28.5	0.00040 mg/L	0.000115	0.00040 mg/L	0.000115	28.33%	
Co 228.616†	34.9	0.00041 mg/L	0.000247	0.00041 mg/L	0.000247	60.13%	
Cr 267.716†	1104.4	0.00607 mg/L	0.000113	0.00607 mg/L	0.000113	1.87%	
Cu 327.393†	5210.5	0.0174 mg/L	0.00079	0.0174 mg/L	0.00079	4.52%	
Fe 239.562†	18961.1	1.03 mg/L	0.019	1.03 mg/L	0.019	1.81%	
Mg 279.077†	10314.0	2.44 mg/L	0.040	2.44 mg/L	0.040	1.63%	
Mn 257.610†	20228.7	0.0187 mg/L	0.00015	0.0187 mg/L	0.00015	0.81%	
Mo 202.031†	190.6	0.00342 mg/L	0.000377	0.00342 mg/L	0.000377	11.03%	
Ni 231.604†	227.1	-0.00044 mg/L	0.000454	-0.00044 mg/L	0.000454	104.23%	
Pb 220.353†	15.4	0.00093 mg/L	0.000415	0.00093 mg/L	0.000415	44.66%	
Sb 206.836†	-0.0	0.00131 mg/L	0.000396	0.00131 mg/L	0.000396	30.16%	
Se 196.026†	18.4	0.00698 mg/L	0.000771	0.00698 mg/L	0.000771	11.05%	
Si 251.611†	311495.9	4.53 mg/L	0.109	4.53 mg/L	0.109	2.41%	
Sn 189.927†	-112.9	-0.00652 mg/L	0.000578	-0.00652 mg/L	0.000578	8.86%	
Ti 334.940†	55261.1	0.0444 mg/L	0.00110	0.0444 mg/L	0.00110	2.48%	
Tl 190.801†	-27.2	-0.00774 mg/L	0.003448	-0.00774 mg/L	0.003448	44.57%	
V 290.880†	2816.8	0.00789 mg/L	0.001893	0.00789 mg/L	0.001893	23.98%	
Zn 206.200†	5299.4	0.0595 mg/L	0.00048	0.0595 mg/L	0.00048	0.80%	
K 766.490†	3421.3	0.863 mg/L	0.0368	0.863 mg/L	0.0368	4.26%	
Na 589.592†	2638423.2	116 mg/L	1.6	116 mg/L	1.6	1.35%	
Sr 407.771†	169842.4	0.0599 mg/L	0.00061	0.0599 mg/L	0.00061	1.01%	
Li 670.784†	645.0	-0.00020 mg/L	0.000554	-0.00020 mg/L	0.000554	278.75%	

Sequence No.: 22
Sample ID: L1207067501
Analyst: KHR
Initial Sample Wt:
Dilution:

u\osampler Location: 69
a\ne Collected: 7/25/2012 5:32:06 PM
a\ne Type: Original
n\itial Sample Vol:
a\mple Prep Vol:

Nebulizer Parameters: L1207067501

Analyte	Back Pressure	Flow
All	177.0 kPa	0.50 L/min

Mean Data: L1207067501

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 371.029	2747229.6				11762.15	0.43%
YRADIAL	327936.1				3829.08	1.17%
Ga 417.206	1566257.7				27472.72	1.75%
GaRADIAL	89747.4				2309.49	2.57%
Ag 328.068†	642.3	0.00125 mg/L	0.000175	0.00125 mg/L	0.000175	14.01%
Al 396.153†	124.1	0.00746 mg/L	0.002163	0.00746 mg/L	0.002163	28.99%
As 188.979†	-30.5	-0.00517 mg/L	0.001033	-0.00517 mg/L	0.001033	19.99%
Ba 233.527†	3020.3	0.0124 mg/L	0.00008	0.0124 mg/L	0.00008	0.67%
Be 234.861†	-810.1	0.00027 mg/L	0.000033	0.00027 mg/L	0.000033	12.29%
B 249.677†	22324.7	0.152 mg/L	0.0028	0.152 mg/L	0.0028	1.82%
Ca 227.546†	21159.4	37.5 mg/L	0.55	37.5 mg/L	0.55	1.48%
Cd 228.802†	6.2	0.00014 mg/L	0.000108	0.00014 mg/L	0.000108	78.49%
Co 228.616†	94.2	0.00156 mg/L	0.000041	0.00156 mg/L	0.000041	2.62%
Cr 267.716†	240.4	0.00095 mg/L	0.000123	0.00095 mg/L	0.000123	13.05%
Cu 327.393†	-152.5	0.00002 mg/L	0.000471	0.00002 mg/L	0.000471	>999.9%
Fe 239.562†	403.7	0.0232 mg/L	0.00029	0.0232 mg/L	0.00029	1.27%
Mg 279.077†	49317.0	11.6 mg/L	0.08	11.6 mg/L	0.08	0.73%
Mn 257.610†	7138242.6	6.73 mg/L	0.022	6.73 mg/L	0.022	0.33%
Mo 202.031†	860.6	0.0185 mg/L	0.00025	0.0185 mg/L	0.00025	1.33%
Ni 231.604†	5935.0	0.0601 mg/L	0.00056	0.0601 mg/L	0.00056	0.94%
Pb 220.353†	20.3	-0.00275 mg/L	0.000816	-0.00275 mg/L	0.000816	29.69%
Sb 206.836†	-1.1	0.00121 mg/L	0.000767	0.00121 mg/L	0.000767	63.51%
Se 196.026†	24.9	0.00696 mg/L	0.000748	0.00696 mg/L	0.000748	10.74%

Approved: July 26, 2012

Ken H. Rhodes

Method: 200.7-6010 PE-ICP2.1

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Si 251.611†	287308.7	4.18 mg/L	0.070	4.18 mg/L	0.070	1.68%
Sn 189.927†	-273.4	-0.0158 mg/L	0.00090	-0.0158 mg/L	0.00090	5.71%
Ti 334.940†	-7156.6	0.00093 mg/L	0.000200	0.00093 mg/L	0.000200	21.61%
Tl 190.801†	-27.1	-0.0151 mg/L	0.00077	-0.0151 mg/L	0.00077	5.14%
V 290.880†	1116.9	0.00248 mg/L	0.000452	0.00248 mg/L	0.000452	18.23%
Zn 206.200†	212.6	0.00176 mg/L	0.000101	0.00176 mg/L	0.000101	5.75%
K 766.490†	2977.0	0.686 mg/L	0.0169	0.686 mg/L	0.0169	2.47%
Na 589.592†	3502522.4	155 mg/L	5.4	155 mg/L	5.4	3.47%
Sr 407.771†	121968.6	0.0425 mg/L	0.00136	0.0425 mg/L	0.00136	3.20%
Li 670.784†	10830.5	0.0655 mg/L	0.00195	0.0655 mg/L	0.00195	2.98%

Sequence No.: 23
 Sample ID: L1207067502
 Analyst: KHR
 Initial Sample Wt:
 Dilution:

u\osampler Location: 70
 a\ne Collected: 7/25/2012 5:39:08 PM
 a\da Type: Original
 n\itial Sample Vol:
 a\mple Prep Vol:

Nebulizer Parameters: L1207067502

Analyte	Back Pressure	Flow
All	177.0 kPa	0.50 L/min

Mean Data: L1207067502

Analyte	Mean Corrected Intensity	Conc. Units	Calib. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 371.029	2769957.3					9841.84	0.36%
YRADIAL	338803.4					1242.70	0.37%
Ga 417.206	1539248.2					34018.58	2.21%
GaRADIAL	89790.3					619.24	0.69%
Ag 328.068†	738.7	0.00168 mg/L	0.000495	0.00168 mg/L	0.000495	29.38%	
Al 396.153†	1001.7	0.128 mg/L	0.0089	0.128 mg/L	0.0089	6.96%	
As 188.979†	-13.6	-0.00177 mg/L	0.000712	-0.00177 mg/L	0.000712	40.36%	
Ba 233.527†	2643.1	0.0107 mg/L	0.00016	0.0107 mg/L	0.00016	1.48%	
Be 234.861†	-548.4	0.00030 mg/L	0.000024	0.00030 mg/L	0.000024	8.14%	
B 249.677†	26146.5	0.178 mg/L	0.0053	0.178 mg/L	0.0053	3.00%	
Ca 227.546†	21660.3	38.4 mg/L	1.03	38.4 mg/L	1.03	2.69%	
Cd 228.802†	23.2	0.00034 mg/L	0.000072	0.00034 mg/L	0.000072	21.52%	
Co 228.616†	49.3	0.00078 mg/L	0.000225	0.00078 mg/L	0.000225	28.73%	
Cr 267.716†	298.2	0.00128 mg/L	0.000168	0.00128 mg/L	0.000168	13.12%	
Cu 327.393†	-17.9	0.00047 mg/L	0.000228	0.00047 mg/L	0.000228	48.14%	
Fe 239.562†	4841.4	0.263 mg/L	0.0017	0.263 mg/L	0.0017	0.64%	
Mg 279.077†	44869.4	10.6 mg/L	0.09	10.6 mg/L	0.09	0.89%	
Mn 257.610†	6362898.8	6.00 mg/L	0.022	6.00 mg/L	0.022	0.36%	
Mo 202.031†	700.2	0.0151 mg/L	0.00009	0.0151 mg/L	0.00009	0.57%	
Ni 231.604†	3546.3	0.0348 mg/L	0.00020	0.0348 mg/L	0.00020	0.58%	
Pb 220.353†	6.4	-0.00304 mg/L	0.001094	-0.00304 mg/L	0.001094	35.99%	
Sb 206.836†	-7.2	0.00023 mg/L	0.000459	0.00023 mg/L	0.000459	197.71%	
Se 196.026†	22.6	0.00643 mg/L	0.000915	0.00643 mg/L	0.000915	14.23%	
Si 251.611†	315098.9	4.58 mg/L	0.092	4.58 mg/L	0.092	2.00%	
Sn 189.927†	-270.6	-0.0156 mg/L	0.00007	-0.0156 mg/L	0.00007	0.43%	
Ti 334.940†	-180.7	0.00637 mg/L	0.000474	0.00637 mg/L	0.000474	7.43%	
Tl 190.801†	-45.5	-0.0178 mg/L	0.00100	-0.0178 mg/L	0.00100	5.62%	
V 290.880†	2018.5	0.00529 mg/L	0.002259	0.00529 mg/L	0.002259	42.70%	
Zn 206.200†	359.0	0.00341 mg/L	0.000106	0.00341 mg/L	0.000106	3.09%	
K 766.490†	1958.6	0.375 mg/L	0.0237	0.375 mg/L	0.0237	6.33%	
Na 589.592†	3447903.1	153 mg/L	2.0	153 mg/L	2.0	1.32%	
Sr 407.771†	117140.0	0.0407 mg/L	0.00022	0.0407 mg/L	0.00022	0.55%	
Li 670.784†	10864.5	0.0657 mg/L	0.00079	0.0657 mg/L	0.00079	1.20%	

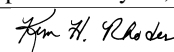
Sequence No.: 24
 Sample ID: L1207067503
 Analyst: KHR
 Initial Sample Wt:
 Dilution:

u\osampler Location: 71
 a\ne Collected: 7/25/2012 5:45:13 PM
 a\da Type: Original
 n\itial Sample Vol:
 a\mple Prep Vol:

Nebulizer Parameters: L1207067503

Analyte	Back Pressure	Flow
All	177.0 kPa	0.50 L/min

Approved: July 26, 2012



Mean Data: L1207067503

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 371.029	2807079.4				38585.15	1.37%
YRADIAL	333312.7				5077.30	1.52%
Ga 417.206	1544633.3				42917.07	2.78%
GaRADIAL	90742.2				1351.22	1.49%
Ag 328.068†	1217.8	0.00250 mg/L	0.000230	0.00250 mg/L	0.000230	9.22%
Al 396.153†	6868.7	0.932 mg/L	0.0243	0.932 mg/L	0.0243	2.61%
As 188.979†	-12.0	-0.00149 mg/L	0.000647	-0.00149 mg/L	0.000647	43.54%
Ba 233.527†	4590.1	0.0193 mg/L	0.00035	0.0193 mg/L	0.00035	1.82%
Be 234.861†	-239.0	0.00075 mg/L	0.000020	0.00075 mg/L	0.000020	2.71%
B 249.677†	27594.8	0.188 mg/L	0.0063	0.188 mg/L	0.0063	3.36%
Ca 227.546†	22869.5	40.5 mg/L	1.45	40.5 mg/L	1.45	3.57%
Cd 228.802†	27.1	0.00038 mg/L	0.000098	0.00038 mg/L	0.000098	25.83%
Co 228.616†	-6.3	-0.00020 mg/L	0.000415	-0.00020 mg/L	0.000415	212.42%
Cr 267.716†	6526.1	0.0383 mg/L	0.00060	0.0383 mg/L	0.00060	1.57%
Cu 327.393†	39.2	0.00067 mg/L	0.000251	0.00067 mg/L	0.000251	37.35%
Fe 239.562†	3751.8	0.204 mg/L	0.0014	0.204 mg/L	0.0014	0.68%
Mg 279.077†	47053.9	11.1 mg/L	0.26	11.1 mg/L	0.26	2.32%
Mn 257.610†	9107580.3	8.59 mg/L	0.023	8.59 mg/L	0.023	0.27%
Mo 202.031†	519.5	0.0119 mg/L	0.00034	0.0119 mg/L	0.00034	2.86%
Ni 231.604†	612.6	0.00366 mg/L	0.000400	0.00366 mg/L	0.000400	10.96%
Pb 220.353†	46.0	-0.00234 mg/L	0.000323	-0.00234 mg/L	0.000323	13.81%
Sb 206.836†	-8.5	-0.00031 mg/L	0.000063	-0.00031 mg/L	0.000063	20.15%
Se 196.026†	32.8	0.00912 mg/L	0.003117	0.00912 mg/L	0.003117	34.20%
Si 251.611†	609287.4	8.85 mg/L	0.139	8.85 mg/L	0.139	1.57%
Sn 189.927†	-284.1	-0.0164 mg/L	0.00052	-0.0164 mg/L	0.00052	3.18%
Ti 334.940†	23719.3	0.0249 mg/L	0.00067	0.0249 mg/L	0.00067	2.70%
Tl 190.801†	-29.3	-0.0170 mg/L	0.00079	-0.0170 mg/L	0.00079	4.61%
V 290.880†	2511.9	0.00682 mg/L	0.002055	0.00682 mg/L	0.002055	30.11%
Zn 206.200†	285.5	0.00288 mg/L	0.000119	0.00288 mg/L	0.000119	4.14%
K 766.490†	2120.7	0.427 mg/L	0.0244	0.427 mg/L	0.0244	5.71%
Na 589.592†	3401134.9	151 mg/L	0.2	151 mg/L	0.2	0.16%
Sr 407.771†	140360.4	0.0489 mg/L	0.00015	0.0489 mg/L	0.00015	0.30%
Li 670.784†	17402.0	0.108 mg/L	0.0005	0.108 mg/L	0.0005	0.50%

=====

Sequence No.: 25
Sample ID: CCV
Analyst:
Initial Sample Wt:
Dilution:

uAsampler Location: 6
aAs Collected: 7/25/2012 5:51:13 PM
aAs Type: Original
nitial Sample Vol:
aAsple Prep Vol:

Nebulizer Parameters: CCV

Analyte	Back Pressure	Flow
All	177.0 kPa	0.50 L/min

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 371.029	2765142.8				17838.35	0.65%
YRADIAL	325217.9				5874.78	1.81%
Ga 417.206	1481985.6				33625.43	2.27%
GaRADIAL	88263.1				1056.73	1.20%
Ag 328.068†	162470.2	0.401 mg/L	0.0101	0.401 mg/L	0.0101	2.52%
QC value within limits for Ag 328.068		Recovery = 100.36%				
Al 396.153†	73716.8	10.0 mg/L	0.04	10.0 mg/L	0.04	0.36%
QC value within limits for Al 396.153		Recovery = 100.20%				
As 188.979†	2058.7	0.401 mg/L	0.0101	0.401 mg/L	0.0101	2.51%
QC value within limits for As 188.979		Recovery = 100.14%				
Ba 233.527†	230909.2	1.03 mg/L	0.002	1.03 mg/L	0.002	0.20%
QC value within limits for Ba 233.527		Recovery = 102.66%				
Be 234.861†	83146.6	0.0495 mg/L	0.00133	0.0495 mg/L	0.00133	2.69%
QC value within limits for Be 234.861		Recovery = 98.93%				
B 249.677†	72059.3	0.485 mg/L	0.0135	0.485 mg/L	0.0135	2.78%
QC value within limits for B 249.677		Recovery = 96.93%				
Ca 227.546†	5623.9	10.5 mg/L	0.28	10.5 mg/L	0.28	2.63%

Approved: July 26, 2012

Ann H. Rhodes

Cd	QC value within limits for Cd	228.802†	3834.5	0.0480 mg/L	0.00218	0.0480 mg/L	0.00218	4.54%
	QC value within limits for Cd	228.802			95.91%			
Co	QC value within limits for Co	228.616†	12245.3	0.206 mg/L	0.0011	0.206 mg/L	0.0011	0.55%
	QC value within limits for Co	228.616			103.25%			
Cr	QC value within limits for Cr	267.716†	85037.2	0.506 mg/L	0.0023	0.506 mg/L	0.0023	0.46%
	QC value within limits for Cr	267.716			101.15%			
Cu	QC value within limits for Cu	327.393†	156217.1	0.504 mg/L	0.0117	0.504 mg/L	0.0117	2.33%
	QC value within limits for Cu	327.393			100.82%			
Fe	QC value within limits for Fe	239.562†	74436.5	4.03 mg/L	0.026	4.03 mg/L	0.026	0.64%
	QC value within limits for Fe	239.562			100.76%			
Mg	QC value within limits for Mg	279.077†	43089.0	10.2 mg/L	0.16	10.2 mg/L	0.16	1.56%
	QC value within limits for Mg	279.077			101.88%			
Mn	QC value within limits for Mn	257.610†	549226.8	0.518 mg/L	0.0022	0.518 mg/L	0.0022	0.43%
	QC value within limits for Mn	257.610			103.65%			
Mo	QC value within limits for Mo	202.031†	50672.5	1.04 mg/L	0.005	1.04 mg/L	0.005	0.46%
	QC value within limits for Mo	202.031			103.91%			
Ni	QC value within limits for Ni	231.604†	50394.0	0.531 mg/L	0.0026	0.531 mg/L	0.0026	0.49%
	QC value within limits for Ni	231.604			106.26%			
Pb	QC value within limits for Pb	220.353†	9818.1	0.519 mg/L	0.0033	0.519 mg/L	0.0033	0.63%
	QC value within limits for Pb	220.353			103.85%			
Sb	QC value within limits for Sb	206.836†	7724.3	1.21 mg/L	0.035	1.21 mg/L	0.035	2.86%
	QC value within limits for Sb	206.836			100.91%			
Se	QC value within limits for Se	196.026†	1207.6	0.410 mg/L	0.0121	0.410 mg/L	0.0121	2.96%
	QC value within limits for Se	196.026			102.40%			
Si	QC value within limits for Si	251.611†	346222.3	5.02 mg/L	0.087	5.02 mg/L	0.087	1.73%
	QC value within limits for Si	251.611			100.44%			
Sn	QC value within limits for Sn	189.927†	18046.4	1.04 mg/L	0.004	1.04 mg/L	0.004	0.39%
	QC value within limits for Sn	189.927			104.12%			
Ti	QC value within limits for Ti	334.940†	1343396.0	1.03 mg/L	0.005	1.03 mg/L	0.005	0.54%
	QC value within limits for Ti	334.940			102.53%			
Tl	QC value within limits for Tl	190.801†	2769.4	0.541 mg/L	0.0051	0.541 mg/L	0.0051	0.95%
	QC value within limits for Tl	190.801			108.28%			
V	QC value within limits for V	290.880†	326612.6	1.02 mg/L	0.009	1.02 mg/L	0.009	0.85%
	QC value within limits for V	290.880			101.77%			
Zn	QC value within limits for Zn	206.200†	89897.0	1.02 mg/L	0.010	1.02 mg/L	0.010	0.93%
	QC value within limits for Zn	206.200			102.37%			
K	QC value within limits for K	766.490†	164334.6	50.8 mg/L	0.38	50.8 mg/L	0.38	0.76%
	QC value within limits for K	766.490			101.56%			
Na	QC value within limits for Na	589.592†	1153786.7	50.2 mg/L	1.09	50.2 mg/L	1.09	2.17%
	QC value within limits for Na	589.592			100.33%			
Sr	QC value within limits for Sr	407.771†	2937723.6	1.03 mg/L	0.029	1.03 mg/L	0.029	2.80%
	QC value within limits for Sr	407.771			103.47%			
Li	QC value within limits for Li	670.784†	160176.5	1.03 mg/L	0.008	1.03 mg/L	0.008	0.76%
	QC value within limits for Li	670.784			102.80%			

All analyte(s) passed QC.

Sequence No.: 26

Sample ID: CCB

Analyst:

Initial Sample Wt:

Dilution:

u&osampler Location: 1

a&e Collected: 7/25/2012 5:57:12 PM

a&a Type: Original

nitial Sample Vol:

a&ple Prep Vol:

Nebulizer Parameters: CCB

Analyte	Back Pressure	Flow
All	177.0 kPa	0.50 L/min

Mean Data: CCB

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 371.029	2918933.3				7304.11	0.25%
YRADIAL	332873.2				7153.33	2.15%
Ga 417.206	1573033.3				25442.64	1.62%
GaRADIAL	90351.5				782.84	0.87%
Ag 328.068†	-26.2	0.00048 mg/L	0.000252	0.00048 mg/L	0.000252	52.25%
	QC value within limits for Ag	328.068	Recovery = Not calculated			
Al 396.153†	7.4	-0.00734 mg/L	0.001706	-0.00734 mg/L	0.001706	23.24%
	QC value within limits for Al	396.153	Recovery = Not calculated			
As 188.979†	-0.7	0.00078 mg/L	0.000719	0.00078 mg/L	0.000719	92.24%

Approved: July 26, 2012

Ann H. Rhodes

Ba	233.527†	QC value within limits for Ba	233.527	Recovery = Not calculated				
			-47.2	-0.00130 mg/L	0.000121	-0.00130 mg/L	0.000121	9.28%
Be	234.861†	QC value within limits for Be	234.861	Recovery = Not calculated				
			-26.3	0.00006 mg/L	0.000036	0.00006 mg/L	0.000036	55.97%
B	249.677†	QC value within limits for B	249.677	Recovery = Not calculated				
			422.0	0.00439 mg/L	0.000261	0.00439 mg/L	0.000261	5.95%
Ca	227.546†	QC value within limits for Ca	227.546	Recovery = Not calculated				
			8.8	0.0609 mg/L	0.02169	0.0609 mg/L	0.02169	35.63%
Cd	228.802†	QC value within limits for Cd	228.802	Recovery = Not calculated				
			-4.8	-0.00004 mg/L	0.000070	-0.00004 mg/L	0.000070	167.45%
Co	228.616†	QC value within limits for Co	228.616	Recovery = Not calculated				
			-18.5	-0.00038 mg/L	0.000061	-0.00038 mg/L	0.000061	16.32%
Cr	267.716†	QC value within limits for Cr	267.716	Recovery = Not calculated				
			-2.0	-0.00049 mg/L	0.000039	-0.00049 mg/L	0.000039	7.89%
Cu	327.393†	QC value within limits for Cu	327.393	Recovery = Not calculated				
			-67.4	0.00031 mg/L	0.000515	0.00031 mg/L	0.000515	163.89%
Fe	239.562†	QC value within limits for Fe	239.562	Recovery = Not calculated				
			0.2	0.00155 mg/L	0.000769	0.00155 mg/L	0.000769	49.75%
Mg	279.077†	QC value within limits for Mg	279.077	Recovery = Not calculated				
			-18.7	0.00924 mg/L	0.002912	0.00924 mg/L	0.002912	31.51%
Mn	257.610†	QC value within limits for Mn	257.610	Recovery = Not calculated				
			711.9	0.00029 mg/L	0.000006	0.00029 mg/L	0.000006	2.16%
Mo	202.031†	QC value within limits for Mo	202.031	Recovery = Not calculated				
			18.0	-0.00018 mg/L	0.000162	-0.00018 mg/L	0.000162	90.38%
Ni	231.604†	QC value within limits for Ni	231.604	Recovery = Not calculated				
			-19.3	-0.00305 mg/L	0.000103	-0.00305 mg/L	0.000103	3.39%
Pb	220.353†	QC value within limits for Pb	220.353	Recovery = Not calculated				
			16.2	0.00076 mg/L	0.000461	0.00076 mg/L	0.000461	60.83%
Sb	206.836†	QC value within limits for Sb	206.836	Recovery = Not calculated				
			1.7	0.00159 mg/L	0.000125	0.00159 mg/L	0.000125	7.84%
Se	196.026†	QC value within limits for Se	196.026	Recovery = Not calculated				
			6.0	0.00257 mg/L	0.001040	0.00257 mg/L	0.001040	40.39%
Si	251.611†	QC value within limits for Si	251.611	Recovery = Not calculated				
			-367.3	0.00054 mg/L	0.000147	0.00054 mg/L	0.000147	27.35%
Sn	189.927†	QC value within limits for Sn	189.927	Recovery = Not calculated				
			10.4	0.00059 mg/L	0.000233	0.00059 mg/L	0.000233	39.55%
Ti	334.940†	QC value within limits for Ti	334.940	Recovery = Not calculated				
			-22.9	0.00075 mg/L	0.000014	0.00075 mg/L	0.000014	1.91%
Tl	190.801†	QC value within limits for Tl	190.801	Recovery = Not calculated				
			2.9	-0.00252 mg/L	0.001777	-0.00252 mg/L	0.001777	70.45%
V	290.880†	QC value within limits for V	290.880	Recovery = Not calculated				
			323.7	0.00031 mg/L	0.001178	0.00031 mg/L	0.001178	377.63%
Zn	206.200†	QC value within limits for Zn	206.200	Recovery = Not calculated				
			-16.7	-0.00086 mg/L	0.000022	-0.00086 mg/L	0.000022	2.58%
K	766.490†	QC value within limits for K	766.490	Recovery = Not calculated				
			-15.4	-0.0818 mg/L	0.01938	-0.0818 mg/L	0.01938	23.71%
Na	589.592†	QC value within limits for Na	589.592	Recovery = Not calculated				
			235.6	-0.0173 mg/L	0.00318	-0.0173 mg/L	0.00318	18.45%
Sr	407.771†	QC value within limits for Sr	407.771	Recovery = Not calculated				
			-94.9	0.00029 mg/L	0.000017	0.00029 mg/L	0.000017	5.96%
Li	670.784†	QC value within limits for Li	670.784	Recovery = Not calculated				
			101.1	-0.00370 mg/L	0.000403	-0.00370 mg/L	0.000403	10.87%

All analyte(s) passed QC.

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Sequence No.: 27                               uAosampler Location: 72
Sample ID: L1207067504                       aMe Collected: 7/25/2012 6:04:05 PM
Analyst: KHR                                  aMa Type: Original
Initial Sample Wt:                             nitial Sample Vol:
Dilution:                                     aMple Prep Vol:
=====

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Nebulizer Parameters: L1207067504

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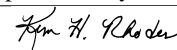
-----
Analyte      Back Pressure  Flow
All          177.0 kPa    0.50 L/min
-----

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Mean Data: L1207067504

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 371.029	2714363.0				19077.81	0.70%

Approved: July 26, 2012



YRADIAL	323917.1					4028.30	1.24%
Ga 417.206	1512026.1					20623.54	1.36%
GaRADIAL	88986.0					2294.58	2.58%
Ag 328.068†	666.4	0.00151 mg/L	0.000184	0.00151 mg/L	0.000184	12.18%	
Al 396.153†	412.9	0.0469 mg/L	0.00283	0.0469 mg/L	0.00283	6.02%	
As 188.979†	-27.0	-0.00449 mg/L	0.000974	-0.00449 mg/L	0.000974	21.71%	
Ba 233.527†	3530.5	0.0146 mg/L	0.00013	0.0146 mg/L	0.00013	0.88%	
Be 234.861†	-741.3	0.00016 mg/L	0.000010	0.00016 mg/L	0.000010	6.54%	
B 249.677†	17733.9	0.121 mg/L	0.0027	0.121 mg/L	0.0027	2.18%	
Ca 227.546†	22927.9	40.6 mg/L	0.94	40.6 mg/L	0.94	2.32%	
Cd 228.802†	9.5	0.00017 mg/L	0.000040	0.00017 mg/L	0.000040	23.41%	
Co 228.616†	28.3	0.00045 mg/L	0.000238	0.00045 mg/L	0.000238	53.06%	
Cr 267.716†	219.7	0.00082 mg/L	0.000047	0.00082 mg/L	0.000047	5.74%	
Cu 327.393†	-131.0	0.00009 mg/L	0.000325	0.00009 mg/L	0.000325	344.37%	
Fe 239.562†	477.0	0.0271 mg/L	0.00018	0.0271 mg/L	0.00018	0.68%	
Mg 279.077†	44388.1	10.5 mg/L	0.02	10.5 mg/L	0.02	0.24%	
Mn 257.610†	5512082.6	5.20 mg/L	0.009	5.20 mg/L	0.009	0.18%	
Mo 202.031†	933.5	0.0197 mg/L	0.00041	0.0197 mg/L	0.00041	2.06%	
Ni 231.604†	4300.1	0.0428 mg/L	0.00044	0.0428 mg/L	0.00044	1.02%	
Pb 220.353†	33.4	-0.00111 mg/L	0.000690	-0.00111 mg/L	0.000690	62.33%	
Sb 206.836†	-2.4	0.00099 mg/L	0.000338	0.00099 mg/L	0.000338	34.13%	
Se 196.026†	27.0	0.00811 mg/L	0.000637	0.00811 mg/L	0.000637	7.86%	
Si 251.611†	270306.7	3.93 mg/L	0.082	3.93 mg/L	0.082	2.09%	
Sn 189.927†	-290.3	-0.0168 mg/L	0.00061	-0.0168 mg/L	0.00061	3.63%	
Ti 334.940†	-5535.9	0.00263 mg/L	0.000134	0.00263 mg/L	0.000134	5.09%	
Tl 190.801†	-46.1	-0.0171 mg/L	0.00202	-0.0171 mg/L	0.00202	11.81%	
V 290.880†	1280.6	0.00302 mg/L	0.000943	0.00302 mg/L	0.000943	31.22%	
Zn 206.200†	336.1	0.00316 mg/L	0.000236	0.00316 mg/L	0.000236	7.47%	
K 766.490†	1800.4	0.330 mg/L	0.0098	0.330 mg/L	0.0098	2.98%	
Na 589.592†	3350810.1	148 mg/L	6.7	148 mg/L	6.7	4.52%	
Sr 407.771†	128748.1	0.0448 mg/L	0.00178	0.0448 mg/L	0.00178	3.97%	
Li 670.784†	7881.2	0.0464 mg/L	0.00079	0.0464 mg/L	0.00079	1.71%	

Sequence No.: 28

Sample ID: L1207071201

Analyst: KHR

Initial Sample Wt:

Dilution:

Sampler Location: 73

Date Collected: 7/25/2012 6:11:05 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Nebulizer Parameters: L1207071201

Analyte	Back Pressure	Flow
All	177.0 kPa	0.50 L/min

Mean Data: L1207071201

Analyte	Mean Corrected Intensity	Conc. Units	Calib. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 371.029	2804400.4					28986.91	1.03%
YRADIAL	323371.7					3117.26	0.96%
Ga 417.206	1564211.2					22353.55	1.43%
GaRADIAL	91159.8					1848.01	2.03%
Ag 328.068†	860.1	0.00254 mg/L	0.000277	0.00254 mg/L	0.000277	10.90%	
Al 396.153†	121.9	0.00814 mg/L	0.001782	0.00814 mg/L	0.001782	21.88%	
As 188.979†	-30.1	-0.00501 mg/L	0.001330	-0.00501 mg/L	0.001330	26.53%	
Ba 233.527†	12619.5	0.0551 mg/L	0.00080	0.0551 mg/L	0.00080	1.45%	
Be 234.861†	-295.1	-0.00002 mg/L	0.000030	-0.00002 mg/L	0.000030	129.84%	
B 249.677†	21192.8	0.145 mg/L	0.0020	0.145 mg/L	0.0020	1.40%	
Ca 227.546†	47035.8	83.2 mg/L	0.97	83.2 mg/L	0.97	1.16%	
Cd 228.802†	103.2	0.00138 mg/L	0.000022	0.00138 mg/L	0.000022	1.60%	
Co 228.616†	110.1	0.00181 mg/L	0.000290	0.00181 mg/L	0.000290	16.02%	
Cr 267.716†	190.4	0.00065 mg/L	0.000074	0.00065 mg/L	0.000074	11.39%	
Cu 327.393†	6731.5	0.0222 mg/L	0.00047	0.0222 mg/L	0.00047	2.13%	
Fe 239.562†	600.3	0.0340 mg/L	0.00018	0.0340 mg/L	0.00018	0.53%	
Mg 279.077†	6516.3	1.55 mg/L	0.016	1.55 mg/L	0.016	1.02%	
Mn 257.610†	841398.0	0.793 mg/L	0.0038	0.793 mg/L	0.0038	0.48%	
Mo 202.031†	164.6	0.00300 mg/L	0.000307	0.00300 mg/L	0.000307	10.23%	
Ni 231.604†	95.8	-0.00183 mg/L	0.000113	-0.00183 mg/L	0.000113	6.19%	
Pb 220.353†	132.8	0.00707 mg/L	0.000482	0.00707 mg/L	0.000482	6.81%	
Sb 206.836†	7.8	0.00253 mg/L	0.001428	0.00253 mg/L	0.001428	56.44%	
Se 196.026†	24.3	0.00850 mg/L	0.001867	0.00850 mg/L	0.001867	21.97%	

Approved: July 26, 2012

Ken H. Rhodes

Method: 200.7-6010 PE-ICP2.1

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Date: 7/25/2012 6:27:20 PM

Si 251.611†	109344.6	1.59 mg/L	0.029	1.59 mg/L	0.029	1.84%
Sn 189.927†	-348.6	-0.0201 mg/L	0.00051	-0.0201 mg/L	0.00051	2.55%
Ti 334.940†	-13472.2	0.00298 mg/L	0.000401	0.00298 mg/L	0.000401	13.46%
Tl 190.801†	-59.6	-0.0154 mg/L	0.00075	-0.0154 mg/L	0.00075	4.84%
V 290.880†	596.7	0.00112 mg/L	0.000757	0.00112 mg/L	0.000757	67.74%
Zn 206.200†	10791.5	0.122 mg/L	0.0015	0.122 mg/L	0.0015	1.26%
K 766.490†	3979.2	1.01 mg/L	0.003	1.01 mg/L	0.003	0.32%
Na 589.592†	3127797.2	138 mg/L	3.4	138 mg/L	3.4	2.46%
Sr 407.771†	304866.7	0.106 mg/L	0.0027	0.106 mg/L	0.0027	2.59%
Li 670.784†	163.9	-0.00330 mg/L	0.000069	-0.00330 mg/L	0.000069	2.08%

Sequence No.: 29
 Sample ID: L1207071301
 Analyst: KHR
 Initial Sample Wt:
 Dilution:

u&osampler Location: 74
 a&e Collected: 7/25/2012 6:18:04 PM
 a&a Type: Original
 nitial Sample Vol:
 a&ple Prep Vol:

Nebulizer Parameters: L1207071301

Analyte	Back Pressure	Flow
All	177.0 kPa	0.50 L/min

Mean Data: L1207071301

Analyte	Mean Corrected Intensity	Conc. Units	Calib. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 371.029	2774532.4					32809.62	1.18%
YRADIAL	326002.4					6335.77	1.94%
Ga 417.206	1519493.3					12182.40	0.80%
GaRADIAL	89381.1					1165.84	1.30%
Ag 328.068†	711.0	0.00232 mg/L	0.000124	0.000124	0.00232 mg/L	0.000124	5.34%
Al 396.153†	407.2	0.0473 mg/L	0.00276	0.00276	0.0473 mg/L	0.00276	5.82%
As 188.979†	-28.7	-0.00470 mg/L	0.000944	0.000944	-0.00470 mg/L	0.000944	20.09%
Ba 233.527†	10016.1	0.0435 mg/L	0.00079	0.00079	0.0435 mg/L	0.00079	1.82%
Be 234.861†	-302.5	-0.00012 mg/L	0.000007	0.000007	-0.00012 mg/L	0.000007	5.61%
B 249.677†	11416.6	0.0786 mg/L	0.00048	0.00048	0.0786 mg/L	0.00048	0.61%
Ca 227.546†	37381.1	66.1 mg/L	0.53	0.53	66.1 mg/L	0.53	0.81%
Cd 228.802†	23.9	0.00035 mg/L	0.000042	0.000042	0.00035 mg/L	0.000042	11.75%
Co 228.616†	-24.4	-0.00047 mg/L	0.000327	0.000327	-0.00047 mg/L	0.000327	69.13%
Cr 267.716†	204.5	0.00073 mg/L	0.000098	0.000098	0.00073 mg/L	0.000098	13.37%
Cu 327.393†	236.9	0.00129 mg/L	0.000580	0.000580	0.00129 mg/L	0.000580	44.91%
Fe 239.562†	1936.1	0.106 mg/L	0.0014	0.0014	0.106 mg/L	0.0014	1.36%
Mg 279.077†	4317.2	1.03 mg/L	0.020	0.020	1.03 mg/L	0.020	1.96%
Mn 257.610†	6151.9	0.00543 mg/L	0.000119	0.000119	0.00543 mg/L	0.000119	2.19%
Mo 202.031†	95.7	0.00142 mg/L	0.000024	0.000024	0.00142 mg/L	0.000024	1.67%
Ni 231.604†	-42.7	-0.00329 mg/L	0.000236	0.000236	-0.00329 mg/L	0.000236	7.17%
Pb 220.353†	41.5	0.00262 mg/L	0.001207	0.001207	0.00262 mg/L	0.001207	46.16%
Sb 206.836†	-2.9	0.00087 mg/L	0.001213	0.00087 mg/L	0.00087 mg/L	0.001213	139.78%
Se 196.026†	21.3	0.00774 mg/L	0.001908	0.001908	0.00774 mg/L	0.001908	24.66%
Si 251.611†	45053.3	0.660 mg/L	0.0047	0.0047	0.660 mg/L	0.0047	0.71%
Sn 189.927†	-338.4	-0.0195 mg/L	0.00027	0.00027	-0.0195 mg/L	0.00027	1.40%
Ti 334.940†	-10058.4	0.00302 mg/L	0.000250	0.000250	0.00302 mg/L	0.000250	8.29%
Tl 190.801†	-59.5	-0.0145 mg/L	0.00070	0.00070	-0.0145 mg/L	0.00070	4.79%
V 290.880†	940.9	0.00220 mg/L	0.001469	0.001469	0.00220 mg/L	0.001469	66.88%
Zn 206.200†	826.6	0.00871 mg/L	0.000099	0.000099	0.00871 mg/L	0.000099	1.14%
K 766.490†	3699.2	0.921 mg/L	0.0235	0.0235	0.921 mg/L	0.0235	2.55%
Na 589.592†	3253618.0	144 mg/L	1.9	1.9	144 mg/L	1.9	1.30%
Sr 407.771†	219467.9	0.0762 mg/L	0.00211	0.00211	0.0762 mg/L	0.00211	2.77%
Li 670.784†	148.1	-0.00340 mg/L	0.000055	0.000055	-0.00340 mg/L	0.000055	1.61%

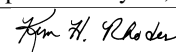
Sequence No.: 30
 Sample ID: L1207073501
 Analyst: KHR
 Initial Sample Wt:
 Dilution:

u&osampler Location: 75
 a&e Collected: 7/25/2012 6:25:03 PM
 a&a Type: Original
 nitial Sample Vol:
 a&ple Prep Vol:

Nebulizer Parameters: L1207073501

Analyte	Back Pressure	Flow
All	177.0 kPa	0.50 L/min

Approved: July 26, 2012



Mean Data: L1207073501

Analyte	Mean Corrected		Calib.		Sample		Std.Dev.	RSD
	Intensity	Conc.	Units	Std.Dev.	Conc.	Units		
Y 371.029	2734811.7						15803.29	0.58%
YRADIAL	319486.4						8469.70	2.65%
Ga 417.206	1512606.3						4933.31	0.33%
GaRADIAL	90581.2						769.48	0.85%
Ag 328.068†	5049.4	0.0128	mg/L	0.00070	0.0128	mg/L	0.00070	5.47%
Al 396.153†	27.8	-0.00501	mg/L	0.001353	-0.00501	mg/L	0.001353	27.04%
As 188.979†	-55.0	-0.00992	mg/L	0.002969	-0.00992	mg/L	0.002969	29.94%
Ba 233.527†	4582.4	0.0193	mg/L	0.00013	0.0193	mg/L	0.00013	0.69%
Be 234.861†	-271.2	-0.00008	mg/L	0.000017	-0.00008	mg/L	0.000017	19.80%
B 249.677†	2158.0	0.0161	mg/L	0.00006	0.0161	mg/L	0.00006	0.38%
Ca 227.546†	271712.0	480	mg/L	3.2	480	mg/L	3.2	0.67%
Cd 228.802†	4.0	0.00012	mg/L	0.000141	0.00012	mg/L	0.000141	113.41%
Co 228.616†	-23.0	-0.00029	mg/L	0.000226	-0.00029	mg/L	0.000226	77.88%
Cr 267.716†	187.3	0.00065	mg/L	0.000047	0.00065	mg/L	0.000047	7.35%
Cu 327.393†	-1394.6	-0.00401	mg/L	0.000400	-0.00401	mg/L	0.000400	9.96%
Fe 239.562†	461.4	0.0265	mg/L	0.00049	0.0265	mg/L	0.00049	1.84%
Mg 279.077†	196.9	0.0602	mg/L	0.00391	0.0602	mg/L	0.00391	6.50%
Mn 257.610†	2474.8	0.00198	mg/L	0.000253	0.00198	mg/L	0.000253	12.80%
Mo 202.031†	341.5	0.00646	mg/L	0.000279	0.00646	mg/L	0.000279	4.32%
Ni 231.604†	-94.5	-0.00384	mg/L	0.000070	-0.00384	mg/L	0.000070	1.82%
Pb 220.353†	-27.3	0.00231	mg/L	0.000215	0.00231	mg/L	0.000215	9.33%
Sb 206.836†	-4.4	0.00063	mg/L	0.000817	0.00063	mg/L	0.000817	130.50%
Se 196.026†	62.4	0.0216	mg/L	0.00435	0.0216	mg/L	0.00435	20.16%
Si 251.611†	11730.9	0.176	mg/L	0.0027	0.176	mg/L	0.0027	1.53%
Sn 189.927†	-528.4	-0.0305	mg/L	0.00020	-0.0305	mg/L	0.00020	0.66%
Ti 334.940†	-93510.6	0.00159	mg/L	0.002323	0.00159	mg/L	0.002323	145.69%
Tl 190.801†	-125.3	-0.0279	mg/L	0.00073	-0.0279	mg/L	0.00073	2.63%
V 290.880†	895.6	0.00209	mg/L	0.000395	0.00209	mg/L	0.000395	18.88%
Zn 206.200†	35141.5	0.398	mg/L	0.0070	0.398	mg/L	0.0070	1.77%
K 766.490†	1826.7	0.485	mg/L	0.0043	0.485	mg/L	0.0043	0.90%
Na 589.592†	37896.8	1.61	mg/L	0.032	1.61	mg/L	0.032	2.02%
Sr 407.771†	1377482.2	0.475	mg/L	0.0197	0.475	mg/L	0.0197	4.16%
Li 670.784†	11593.4	0.0704	mg/L	0.00092	0.0704	mg/L	0.00092	1.30%

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Sequence No.: 31
 Sample ID: L1207073502
 Analyst: KHR
 Initial Sample Wt:
 Dilution:

uAosampler Location: 76
 aAe Collected: 7/25/2012 6:31:59 PM
 aAa Type: Original
 nitial Sample Vol:
 aAple Prep Vol:

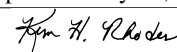
Nebulizer Parameters: L1207073502

Analyte	Back Pressure	Flow
All	177.0 kPa	0.50 L/min

Mean Data: L1207073502

Analyte	Mean Corrected		Calib.		Sample		Std.Dev.	RSD
	Intensity	Conc.	Units	Std.Dev.	Conc.	Units		
Y 371.029	2828710.3						15188.14	0.54%
YRADIAL	333603.3						5212.39	1.56%
Ga 417.206	1533043.7						25434.70	1.66%
GaRADIAL	90683.4						761.14	0.84%
Ag 328.068†	-93.0	0.00060	mg/L	0.000214	0.00060	mg/L	0.000214	35.86%
Al 396.153†	3444.0	0.463	mg/L	0.0143	0.463	mg/L	0.0143	3.09%
As 188.979†	-11.2	-0.00115	mg/L	0.000437	-0.00115	mg/L	0.000437	37.95%
Ba 233.527†	1422.0	0.00520	mg/L	0.000226	0.00520	mg/L	0.000226	4.35%
Be 234.861†	233.4	0.00006	mg/L	0.000040	0.00006	mg/L	0.000040	61.66%
B 249.677†	22164.8	0.151	mg/L	0.0045	0.151	mg/L	0.0045	2.98%
Ca 227.546†	1658.2	3.00	mg/L	0.041	3.00	mg/L	0.041	1.35%
Cd 228.802†	103.6	0.00137	mg/L	0.000163	0.00137	mg/L	0.000163	11.96%
Co 228.616†	34.6	0.00049	mg/L	0.000111	0.00049	mg/L	0.000111	22.76%
Cr 267.716†	229.5	0.00090	mg/L	0.000084	0.00090	mg/L	0.000084	9.33%
Cu 327.393†	39026.1	0.126	mg/L	0.0021	0.126	mg/L	0.0021	1.70%
Fe 239.562†	12882.4	0.699	mg/L	0.0085	0.699	mg/L	0.0085	1.21%
Mg 279.077†	7617.4	1.81	mg/L	0.030	1.81	mg/L	0.030	1.66%

Approved: July 26, 2012



Mn 257.610†	51338.3	0.0481 mg/L	0.00013	0.0481 mg/L	0.00013	0.27%
Mo 202.031†	179.6	0.00318 mg/L	0.000215	0.00318 mg/L	0.000215	6.77%
Ni 231.604†	706.9	0.00465 mg/L	0.000139	0.00465 mg/L	0.000139	2.99%
Pb 220.353†	47.1	0.00228 mg/L	0.002072	0.00228 mg/L	0.002072	90.75%
Sb 206.836†	9.4	0.00283 mg/L	0.000420	0.00283 mg/L	0.000420	14.88%
Se 196.026†	20.1	0.00746 mg/L	0.000868	0.00746 mg/L	0.000868	11.64%
Si 251.611†	52993.1	0.775 mg/L	0.0128	0.775 mg/L	0.0128	1.66%
Sn 189.927†	-35.3	-0.00204 mg/L	0.000415	-0.00204 mg/L	0.000415	20.30%
Ti 334.940†	13631.8	0.0116 mg/L	0.00009	0.0116 mg/L	0.00009	0.76%
Tl 190.801†	-18.5	-0.00650 mg/L	0.002415	-0.00650 mg/L	0.002415	37.14%
V 290.880†	1653.3	0.00432 mg/L	0.000970	0.00432 mg/L	0.000970	22.43%
Zn 206.200†	90351.2	1.02 mg/L	0.005	1.02 mg/L	0.005	0.46%
K 766.490†	2240.8	0.481 mg/L	0.0452	0.481 mg/L	0.0452	9.41%
Na 589.592†	3029164.3	134 mg/L	1.1	134 mg/L	1.1	0.84%
Sr 407.771†	21665.4	0.00789 mg/L	0.000023	0.00789 mg/L	0.000023	0.30%
Li 670.784†	2831.7	0.0139 mg/L	0.00049	0.0139 mg/L	0.00049	3.54%

Sequence No.: 32
Sample ID: L1207073503
Analyst: KHR
Initial Sample Wt:
Dilution:

u&osampler Location: 77
a&e Collected: 7/25/2012 6:37:58 PM
a&a Type: Original
nitial Sample Vol:
a&ple Prep Vol:

Nebulizer Parameters: L1207073503

Analyte	Back Pressure	Flow
All	177.0 kPa	0.50 L/min

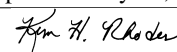
Mean Data: L1207073503

Analyte	Mean Corrected Intensity	Conc. Units	Calib. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 371.029	2824930.7					22637.52	0.80%
YRADIAL	326876.4					3119.00	0.95%
Ga 417.206	1544310.7					10789.64	0.70%
GaRADIAL	89135.4					2470.90	2.77%
Ag 328.068†	-84.9	0.00038 mg/L	0.000185	0.00038 mg/L	0.000185	48.43%	
Al 396.153†	1209.6	0.157 mg/L	0.0030	0.157 mg/L	0.0030	1.89%	
As 188.979†	-21.4	-0.00328 mg/L	0.001886	-0.00328 mg/L	0.001886	57.46%	
Ba 233.527†	8427.7	0.0364 mg/L	0.00037	0.0364 mg/L	0.00037	1.03%	
Be 234.861†	351.2	0.00027 mg/L	0.000016	0.00027 mg/L	0.000016	6.07%	
B 249.677†	2046.9	0.0153 mg/L	0.00024	0.0153 mg/L	0.00024	1.59%	
Ca 227.546†	1548.3	2.79 mg/L	0.046	2.79 mg/L	0.046	1.65%	
Cd 228.802†	45.9	0.00064 mg/L	0.000127	0.00064 mg/L	0.000127	19.96%	
Co 228.616†	84.6	0.00136 mg/L	0.000272	0.00136 mg/L	0.000272	20.10%	
Cr 267.716†	672.1	0.00351 mg/L	0.000172	0.00351 mg/L	0.000172	4.88%	
Cu 327.393†	1833.1	0.00643 mg/L	0.000624	0.00643 mg/L	0.000624	9.70%	
Fe 239.562†	2020.8	0.111 mg/L	0.0011	0.111 mg/L	0.0011	0.99%	
Mg 279.077†	8495.6	2.02 mg/L	0.017	2.02 mg/L	0.017	0.86%	
Mn 257.610†	26472.6	0.0246 mg/L	0.00035	0.0246 mg/L	0.00035	1.42%	
Mo 202.031†	229.0	0.00416 mg/L	0.000031	0.00416 mg/L	0.000031	0.74%	
Ni 231.604†	297.9	0.00032 mg/L	0.000111	0.00032 mg/L	0.000111	35.04%	
Pb 220.353†	17.1	0.00083 mg/L	0.000959	0.00083 mg/L	0.000959	115.57%	
Sb 206.836†	1.2	0.00149 mg/L	0.000637	0.00149 mg/L	0.000637	42.71%	
Se 196.026†	14.6	0.00550 mg/L	0.000552	0.00550 mg/L	0.000552	10.03%	
Si 251.611†	44566.9	0.653 mg/L	0.0084	0.653 mg/L	0.0084	1.28%	
Sn 189.927†	-33.6	-0.00195 mg/L	0.000314	-0.00195 mg/L	0.000314	16.11%	
Ti 334.940†	5241.3	0.00517 mg/L	0.000051	0.00517 mg/L	0.000051	0.99%	
Tl 190.801†	-30.6	-0.00888 mg/L	0.001657	-0.00888 mg/L	0.001657	18.65%	
V 290.880†	1169.8	0.00288 mg/L	0.000328	0.00288 mg/L	0.000328	11.38%	
Zn 206.200†	1334.4	0.0145 mg/L	0.00025	0.0145 mg/L	0.00025	1.72%	
K 766.490†	2040.1	0.413 mg/L	0.0082	0.413 mg/L	0.0082	1.98%	
Na 589.592†	3163788.3	140 mg/L	3.2	140 mg/L	3.2	2.27%	
Sr 407.771†	45255.1	0.0162 mg/L	0.000063	0.0162 mg/L	0.000063	3.86%	
Li 670.784†	2179.8	0.00969 mg/L	0.000267	0.00969 mg/L	0.000267	2.75%	

Sequence No.: 33
Sample ID: L1207073504
Analyst: KHR
Initial Sample Wt:

u&osampler Location: 78
a&e Collected: 7/25/2012 6:44:57 PM
a&a Type: Original
nitial Sample Vol:

Approved: July 26, 2012



Dilution:

sample Prep Vol:

Nebulizer Parameters: L1207073504

Analyte	Back Pressure	Flow
All	177.0 kPa	0.50 L/min

Mean Data: L1207073504

Analyte	Mean Corrected Intensity	Conc. Units	Calib. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 371.029	2836693.9					20439.96	0.72%
YRADIAL	330306.7					1577.35	0.48%
Ga 417.206	1488231.4					32169.76	2.16%
GaRADIAL	88613.6					435.19	0.49%
Ag 328.068†	-15355.9	-0.00538	mg/L	0.000627	-0.00538	0.000627	11.64%
Al 396.153†	2278.0	0.313	mg/L	0.0124	0.313	0.0124	3.97%
As 188.979†	-50.3	0.00955	mg/L	0.000840	0.00955	0.000840	8.80%
Ba 233.527†	1610.9	0.00154	mg/L	0.000225	0.00154	0.000225	14.64%
Be 234.861†	29467.8	-0.00011	mg/L	0.000239	-0.00011	0.000239	223.16%
B 249.677†	5226.1	0.00367	mg/L	0.002616	0.00367	0.002616	71.35%
Ca 227.546†	-206.9	1.66	mg/L	0.265	1.66	0.265	15.95%
Cd 228.802†	5.9	0.00012	mg/L	0.000122	0.00012	0.000122	105.38%
Co 228.616†	823.0	0.0118	mg/L	0.00016	0.0118	0.00016	1.38%
Cr 267.716†	2148.8	0.00949	mg/L	0.000023	0.00949	0.000023	0.24%
Cu 327.393†	-986.9	0.00110	mg/L	0.000424	0.00110	0.000424	38.44%
Fe 239.562†	1421317.9	76.9	mg/L	0.26	76.9	0.26	0.34%
Mg 279.077†	1105.3	0.233	mg/L	0.0118	0.233	0.0118	5.05%
Mn 257.610†	675449.7	0.637	mg/L	0.0050	0.637	0.0050	0.79%
Mo 202.031†	171.9	0.00688	mg/L	0.000272	0.00688	0.000272	3.96%
Ni 231.604†	15866.0	0.165	mg/L	0.0031	0.165	0.0031	1.90%
Pb 220.353†	115.0	-0.00100	mg/L	0.000577	-0.00100	0.000577	57.60%
Sb 206.836†	-19.2	0.00114	mg/L	0.001045	0.00114	0.001045	91.69%
Se 196.026†	-45.1	-0.00263	mg/L	0.002017	-0.00263	0.002017	76.66%
Si 251.611†	34585.4	0.508	mg/L	0.0149	0.508	0.0149	2.93%
Sn 189.927†	-35.2	-0.00204	mg/L	0.000302	-0.00204	0.000302	14.79%
Ti 334.940†	5436.4	0.00485	mg/L	0.000303	0.00485	0.000303	6.25%
Tl 190.801†	-24.6	-0.00835	mg/L	0.000565	-0.00835	0.000565	6.77%
V 290.880†	3435.0	-0.00014	mg/L	0.001648	-0.00014	0.001648	>999.9%
Zn 206.200†	1360.7	0.0134	mg/L	0.00033	0.0134	0.00033	2.42%
K 766.490†	645.5	-0.0203	mg/L	0.02318	-0.0203	0.02318	114.18%
Na 589.592†	3220828.2	142	mg/L	0.6	142	0.6	0.41%
Sr 407.771†	9519.8	0.00368	mg/L	0.000100	0.00368	0.000100	2.72%
Li 670.784†	299.2	-0.00243	mg/L	0.000483	-0.00243	0.000483	19.92%

Sequence No.: 34

Sample ID: CCV

Analyst:

Initial Sample Wt:

Dilution:

u&osampler Location: 6

a&e Collected: 7/25/2012 6:50:57 PM

a&a Type: Original

nitial Sample Vol:

a&ple Prep Vol:

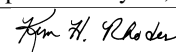
Nebulizer Parameters: CCV

Analyte	Back Pressure	Flow
All	178.0 kPa	0.50 L/min

Mean Data: CCV

Analyte	Mean Corrected Intensity	Conc. Units	Calib. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 371.029	2768831.2					30940.60	1.12%
YRADIAL	322231.5					3941.34	1.22%
Ga 417.206	1537673.5					55546.82	3.61%
GaRADIAL	88638.6					946.17	1.07%
Ag 328.068†	155859.2	0.385	mg/L	0.0163	0.385	0.0163	4.23%
QC value within limits for Ag 328.068							Recovery = 96.31%
Al 396.153†	73449.5	9.98	mg/L	0.020	9.98	0.020	0.20%
QC value within limits for Al 396.153							Recovery = 99.84%
As 188.979†	1963.9	0.382	mg/L	0.0143	0.382	0.0143	3.74%
QC value within limits for As 188.979							Recovery = 95.50%
Ba 233.527†	225270.4	1.00	mg/L	0.009	1.00	0.009	0.94%

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Be	234.861†	78645.5	0.0468 mg/L	0.00203	4.35%
QC value within limits for Be 234.861 Recovery = 93.52%					
B	249.677†	68695.0	0.462 mg/L	0.0191	4.13%
QC value within limits for B 249.677 Recovery = 92.40%					
Ca	227.546†	5460.6	10.2 mg/L	0.43	4.20%
QC value within limits for Ca 227.546 Recovery = 101.77%					
Cd	228.802†	3638.6	0.0455 mg/L	0.00259	5.69%
QC value within limits for Cd 228.802 Recovery = 91.04%					
Co	228.616†	12032.0	0.203 mg/L	0.0053	2.62%
QC value within limits for Co 228.616 Recovery = 101.44%					
Cr	267.716†	83133.2	0.494 mg/L	0.0039	0.79%
QC value within limits for Cr 267.716 Recovery = 98.88%					
Cu	327.393†	151913.2	0.490 mg/L	0.0194	3.96%
QC value within limits for Cu 327.393 Recovery = 98.05%					
Fe	239.562†	74196.4	4.02 mg/L	0.021	0.52%
QC value within limits for Fe 239.562 Recovery = 100.43%					
Mg	279.077†	42830.5	10.1 mg/L	0.07	0.69%
QC value within limits for Mg 279.077 Recovery = 101.26%					
Mn	257.610†	539470.9	0.509 mg/L	0.0036	0.70%
QC value within limits for Mn 257.610 Recovery = 101.81%					
Mo	202.031†	49654.6	1.02 mg/L	0.008	0.74%
QC value within limits for Mo 202.031 Recovery = 101.83%					
Ni	231.604†	49443.8	0.521 mg/L	0.0159	3.05%
QC value within limits for Ni 231.604 Recovery = 104.25%					
Pb	220.353†	9664.3	0.511 mg/L	0.0133	2.61%
QC value within limits for Pb 220.353 Recovery = 102.23%					
Sb	206.836†	7402.7	1.16 mg/L	0.048	4.17%
QC value within limits for Sb 206.836 Recovery = 96.71%					
Se	196.026†	1163.0	0.395 mg/L	0.0172	4.36%
QC value within limits for Se 196.026 Recovery = 98.63%					
Si	251.611†	331921.7	4.81 mg/L	0.153	3.18%
QC value within limits for Si 251.611 Recovery = 96.29%					
Sn	189.927†	17675.1	1.02 mg/L	0.032	3.11%
QC value within limits for Sn 189.927 Recovery = 101.97%					
Ti	334.940†	1325995.5	1.01 mg/L	0.006	0.61%
QC value within limits for Ti 334.940 Recovery = 101.20%					
Tl	190.801†	2735.3	0.535 mg/L	0.0097	1.82%
QC value within limits for Tl 190.801 Recovery = 106.94%					
V	290.880†	321240.7	1.00 mg/L	0.010	1.04%
QC value within limits for V 290.880 Recovery = 100.10%					
Zn	206.200†	86274.8	0.982 mg/L	0.0140	1.42%
QC value within limits for Zn 206.200 Recovery = 98.25%					
K	766.490†	163980.3	50.7 mg/L	0.23	0.46%
QC value within limits for K 766.490 Recovery = 101.34%					
Na	589.592†	1152914.9	50.1 mg/L	0.93	1.86%
QC value within limits for Na 589.592 Recovery = 100.26%					
Sr	407.771†	3043971.3	1.07 mg/L	0.010	0.95%
QC value within limits for Sr 407.771 Recovery = 107.21%					
Li	670.784†	159475.0	1.02 mg/L	0.007	0.66%
QC value within limits for Li 670.784 Recovery = 102.35%					
All analyte(s) passed QC.					

Sequence No.: 35

Sample ID: CCB

Analyst:

Initial Sample Wt:

Dilution:

u&osampler Location: 1

a&e Collected: 7/25/2012 6:57:01 PM

a&a Type: Original

n&itial Sample Vol:

a&ample Prep Vol:

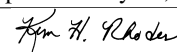
Nebulizer Parameters: CCB

Analyte	Back Pressure	Flow
All	177.0 kPa	0.50 L/min

Mean Data: CCB

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 371.029	2881538.4				30495.47	1.06%
YRADIAL	338307.8				8492.57	2.51%
Ga 417.206	1510965.1				44919.60	2.97%

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Ga	RADIAL	89938.8				1298.23	1.44%
Ag	328.068†	-195.5	0.00007 mg/L	0.000535	0.00007 mg/L	0.000535	751.98%
	QC value within limits for Ag	328.068	Recovery =	Not calculated			
Al	396.153†	-10.4	-0.00979 mg/L	0.001051	-0.00979 mg/L	0.001051	10.74%
	QC value within limits for Al	396.153	Recovery =	Not calculated			
As	188.979†	-0.8	0.00077 mg/L	0.001197	0.00077 mg/L	0.001197	155.31%
	QC value within limits for As	188.979	Recovery =	Not calculated			
Ba	233.527†	-35.4	-0.00125 mg/L	0.000044	-0.00125 mg/L	0.000044	3.53%
	QC value within limits for Ba	233.527	Recovery =	Not calculated			
Be	234.861†	-147.9	-0.00001 mg/L	0.000019	-0.00001 mg/L	0.000019	241.37%
	QC value within limits for Be	234.861	Recovery =	Not calculated			
B	249.677†	3613.1	0.0260 mg/L	0.00017	0.0260 mg/L	0.00017	0.66%
	QC value within limits for B	249.677	Recovery =	Not calculated			
Ca	227.546†	-1.4	0.0428 mg/L	0.00652	0.0428 mg/L	0.00652	15.23%
	QC value within limits for Ca	227.546	Recovery =	Not calculated			
Cd	228.802†	-0.6	0.00001 mg/L	0.000011	0.00001 mg/L	0.000011	92.60%
	QC value within limits for Cd	228.802	Recovery =	Not calculated			
Co	228.616†	-25.0	-0.00049 mg/L	0.000075	-0.00049 mg/L	0.000075	15.54%
	QC value within limits for Co	228.616	Recovery =	Not calculated			
Cr	267.716†	12.9	-0.00041 mg/L	0.000067	-0.00041 mg/L	0.000067	16.54%
	QC value within limits for Cr	267.716	Recovery =	Not calculated			
Cu	327.393†	-249.3	-0.00027 mg/L	0.000594	-0.00027 mg/L	0.000594	220.22%
	QC value within limits for Cu	327.393	Recovery =	Not calculated			
Fe	239.562†	13.1	0.00224 mg/L	0.000431	0.00224 mg/L	0.000431	19.20%
	QC value within limits for Fe	239.562	Recovery =	Not calculated			
Mg	279.077†	-21.4	0.00860 mg/L	0.003932	0.00860 mg/L	0.003932	45.72%
	QC value within limits for Mg	279.077	Recovery =	Not calculated			
Mn	257.610†	692.2	0.00028 mg/L	0.000034	0.00028 mg/L	0.000034	12.34%
	QC value within limits for Mn	257.610	Recovery =	Not calculated			
Mo	202.031†	22.1	-0.00009 mg/L	0.000324	-0.00009 mg/L	0.000324	350.01%
	QC value within limits for Mo	202.031	Recovery =	Not calculated			
Ni	231.604†	-23.4	-0.00309 mg/L	0.000150	-0.00309 mg/L	0.000150	4.87%
	QC value within limits for Ni	231.604	Recovery =	Not calculated			
Pb	220.353†	-15.6	-0.00092 mg/L	0.000601	-0.00092 mg/L	0.000601	65.39%
	QC value within limits for Pb	220.353	Recovery =	Not calculated			
Sb	206.836†	0.0	0.00133 mg/L	0.001301	0.00133 mg/L	0.001301	97.92%
	QC value within limits for Sb	206.836	Recovery =	Not calculated			
Se	196.026†	9.2	0.00365 mg/L	0.001660	0.00365 mg/L	0.001660	45.47%
	QC value within limits for Se	196.026	Recovery =	Not calculated			
Si	251.611†	65.8	0.00683 mg/L	0.000921	0.00683 mg/L	0.000921	13.48%
	QC value within limits for Si	251.611	Recovery =	Not calculated			
Sn	189.927†	21.4	0.00123 mg/L	0.000163	0.00123 mg/L	0.000163	13.30%
	QC value within limits for Sn	189.927	Recovery =	Not calculated			
Ti	334.940†	143.3	0.00088 mg/L	0.000021	0.00088 mg/L	0.000021	2.41%
	QC value within limits for Ti	334.940	Recovery =	Not calculated			
Tl	190.801†	-11.9	-0.00535 mg/L	0.000941	-0.00535 mg/L	0.000941	17.60%
	QC value within limits for Tl	190.801	Recovery =	Not calculated			
V	290.880†	877.0	0.00204 mg/L	0.001283	0.00204 mg/L	0.001283	62.93%
	QC value within limits for V	290.880	Recovery =	Not calculated			
Zn	206.200†	-70.4	-0.00147 mg/L	0.000210	-0.00147 mg/L	0.000210	14.29%
	QC value within limits for Zn	206.200	Recovery =	Not calculated			
K	766.490†	49.8	-0.0616 mg/L	0.03402	-0.0616 mg/L	0.03402	55.22%
	QC value within limits for K	766.490	Recovery =	Not calculated			
Na	589.592†	243.5	-0.0169 mg/L	0.00558	-0.0169 mg/L	0.00558	32.98%
	QC value within limits for Na	589.592	Recovery =	Not calculated			
Sr	407.771†	179.6	0.00039 mg/L	0.000041	0.00039 mg/L	0.000041	10.72%
	QC value within limits for Sr	407.771	Recovery =	Not calculated			
Li	670.784†	95.8	-0.00374 mg/L	0.000243	-0.00374 mg/L	0.000243	6.49%
	QC value within limits for Li	670.784	Recovery =	Not calculated			

All analyte(s) passed QC.

Sequence No.: 36

Sample ID: PBW 25 WG404235-02

Analyst: KHR

Initial Sample Wt:

Dilution:

Sampler Location: 79

Date Collected: 7/25/2012 7:03:55 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Nebulizer Parameters: PBW 25 WG404235-02

Analyte	Back Pressure	Flow
All	177.0 kPa	0.50 L/min

Approved: July 26, 2012

Ken H. Rhodes

Mean Data: PBW 25 WG404235-02

Analyte	Mean Corrected		Calib.		Sample		RSD
	Intensity	Conc.	Units	Std.Dev.	Conc.	Units	
Y 371.029	2897315.6						0.55%
YRADIAL	333636.9						1.37%
Ga 417.206	1588282.1						1.97%
GaRADIAL	91831.6						2.03%
Ag 328.068†	58.6	0.00069	mg/L	0.000335	0.00069	mg/L	48.50%
Al 396.153†	-67.5	-0.0176	mg/L	0.00106	-0.0176	mg/L	6.00%
As 188.979†	0.6	0.00103	mg/L	0.000655	0.00103	mg/L	63.34%
Ba 233.527†	-30.5	-0.00123	mg/L	0.000088	-0.00123	mg/L	7.20%
Be 234.861†	-45.2	0.00005	mg/L	0.000009	0.00005	mg/L	16.14%
B 249.677†	6410.2	0.0449	mg/L	0.01099	0.0449	mg/L	24.50%
Ca 227.546†	-6.6	0.0336	mg/L	0.01152	0.0336	mg/L	34.26%
Cd 228.802†	0.6	0.00003	mg/L	0.000158	0.00003	mg/L	616.94%
Co 228.616†	-25.9	-0.00050	mg/L	0.000030	-0.00050	mg/L	6.05%
Cr 267.716†	0.3	-0.00048	mg/L	0.000138	-0.00048	mg/L	28.67%
Cu 327.393†	-55.5	0.00035	mg/L	0.000411	0.00035	mg/L	116.47%
Fe 239.562†	27.3	0.00302	mg/L	0.000883	0.00302	mg/L	29.26%
Mg 279.077†	-39.3	0.00438	mg/L	0.001671	0.00438	mg/L	38.18%
Mn 257.610†	958.3	0.00053	mg/L	0.000198	0.00053	mg/L	37.53%
Mo 202.031†	17.2	-0.00019	mg/L	0.000435	-0.00019	mg/L	224.35%
Ni 231.604†	-23.0	-0.00309	mg/L	0.000077	-0.00309	mg/L	2.50%
Pb 220.353†	-7.7	-0.00051	mg/L	0.000695	-0.00051	mg/L	137.63%
Sb 206.836†	-4.9	0.00056	mg/L	0.000614	0.00056	mg/L	110.49%
Se 196.026†	1.5	0.00103	mg/L	0.003383	0.00103	mg/L	327.24%
Si 251.611†	123.8	0.00767	mg/L	0.001353	0.00767	mg/L	17.64%
Sn 189.927†	11.6	0.00066	mg/L	0.000532	0.00066	mg/L	80.60%
Ti 334.940†	14.0	0.00078	mg/L	0.000213	0.00078	mg/L	27.36%
Tl 190.801†	-6.5	-0.00431	mg/L	0.000482	-0.00431	mg/L	11.19%
V 290.880†	563.9	0.00106	mg/L	0.000665	0.00106	mg/L	62.62%
Zn 206.200†	41.3	-0.00021	mg/L	0.000105	-0.00021	mg/L	50.67%
K 766.490†	-1.6	-0.0775	mg/L	0.01385	-0.0775	mg/L	17.88%
Na 589.592†	-257.7	-0.0385	mg/L	0.00664	-0.0385	mg/L	17.24%
Sr 407.771†	-656.6	0.00009	mg/L	0.000065	0.00009	mg/L	71.09%
Li 670.784†	87.6	-0.00379	mg/L	0.000070	-0.00379	mg/L	1.86%

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Sequence No.: 37
Sample ID: LCSW 25 WG404235-03
Analyst: KHR
Initial Sample Wt:
Dilution:

u\osampler Location: 80
a\e Collected: 7/25/2012 7:10:50 PM
a\da Type: Original
n\itial Sample Vol:
a\mple Prep Vol:

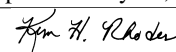
Nebulizer Parameters: LCSW 25 WG404235-03

Analyte	Back Pressure	Flow
All	177.0 kPa	0.50 L/min

Mean Data: LCSW 25 WG404235-03

Analyte	Mean Corrected		Calib.		Sample		RSD
	Intensity	Conc.	Units	Std.Dev.	Conc.	Units	
Y 371.029	2826176.3						0.79%
YRADIAL	329914.7						1.44%
Ga 417.206	1548429.4						2.10%
GaRADIAL	88209.4						2.55%
Ag 328.068†	80950.2	0.200	mg/L	0.0047	0.200	mg/L	2.33%
Al 396.153†	38179.6	5.19	mg/L	0.188	5.19	mg/L	3.62%
As 188.979†	985.4	0.192	mg/L	0.0048	0.192	mg/L	2.50%
Ba 233.527†	114899.1	0.510	mg/L	0.0071	0.510	mg/L	1.40%
Be 234.861†	39921.0	0.0238	mg/L	0.00059	0.0238	mg/L	2.47%
B 249.677†	142180.0	0.960	mg/L	0.0286	0.960	mg/L	2.98%
Ca 227.546†	2740.5	5.12	mg/L	0.124	5.12	mg/L	2.41%
Cd 228.802†	1853.7	0.0232	mg/L	0.00081	0.0232	mg/L	3.49%
Co 228.616†	6144.0	0.104	mg/L	0.0015	0.104	mg/L	1.49%
Cr 267.716†	42269.4	0.251	mg/L	0.0020	0.251	mg/L	0.80%
Cu 327.393†	77963.8	0.252	mg/L	0.0069	0.252	mg/L	2.74%
Fe 239.562†	37407.6	2.03	mg/L	0.073	2.03	mg/L	3.62%
Mg 279.077†	21987.8	5.20	mg/L	0.197	5.20	mg/L	3.79%

Approved: July 26, 2012



Mn 257.610†	276264.8	0.260 mg/L	0.0039	0.260 mg/L	0.0039	1.51%
Mo 202.031†	24858.1	0.509 mg/L	0.0027	0.509 mg/L	0.0027	0.53%
Ni 231.604†	24242.9	0.254 mg/L	0.0033	0.254 mg/L	0.0033	1.30%
Pb 220.353†	4924.4	0.260 mg/L	0.0036	0.260 mg/L	0.0036	1.38%
Sb 206.836†	3773.9	0.592 mg/L	0.0145	0.592 mg/L	0.0145	2.44%
Se 196.026†	596.9	0.203 mg/L	0.0063	0.203 mg/L	0.0063	3.09%
Si 251.611†	175390.8	2.55 mg/L	0.037	2.55 mg/L	0.037	1.44%
Sn 189.927†	9146.4	0.528 mg/L	0.0069	0.528 mg/L	0.0069	1.30%
Ti 334.940†	663703.0	0.507 mg/L	0.0048	0.507 mg/L	0.0048	0.94%
Tl 190.801†	1410.6	0.274 mg/L	0.0003	0.274 mg/L	0.0003	0.13%
V 290.880†	165362.7	0.515 mg/L	0.0016	0.515 mg/L	0.0016	0.31%
Zn 206.200†	44693.0	0.509 mg/L	0.0064	0.509 mg/L	0.0064	1.26%
K 766.490†	84949.3	26.2 mg/L	0.97	26.2 mg/L	0.97	3.70%
Na 589.592†	595645.1	25.8 mg/L	0.91	25.8 mg/L	0.91	3.54%
Sr 407.771†	1475382.9	0.520 mg/L	0.0129	0.520 mg/L	0.0129	2.49%
Li 670.784†	84839.0	0.542 mg/L	0.0216	0.542 mg/L	0.0216	3.98%

Sequence No.: 38
 Sample ID: L1207065827
 Analyst: KHR
 Initial Sample Wt:
 Dilution:

u\osampler Location: 81
 a\ne Collected: 7/25/2012 7:16:50 PM
 a\nd Type: Original
 n\ntial Sample Vol:
 a\mple Prep Vol:

Nebulizer Parameters: L1207065827

Analyte	Back Pressure	Flow
All	177.0 kPa	0.50 L/min

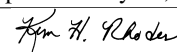
Mean Data: L1207065827

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 371.029	2864153.4				17309.02	0.60%
YRADIAL	345292.3				3082.03	0.89%
Ga 417.206	1644669.4				41331.08	2.51%
GaRADIAL	93286.3				1146.17	1.23%
Ag 328.068†	-397.6	0.00063 mg/L	0.000671	0.00063 mg/L	0.000671	106.23%
Al 396.153†	12276.2	1.67 mg/L	0.017	1.67 mg/L	0.017	1.04%
As 188.979†	3.4	0.00212 mg/L	0.002963	0.00212 mg/L	0.002963	139.74%
Ba 233.527†	17466.0	0.0765 mg/L	0.00042	0.0765 mg/L	0.00042	0.55%
Be 234.861†	1456.0	0.00033 mg/L	0.000033	0.00033 mg/L	0.000033	9.98%
B 249.677†	4687.2	0.0320 mg/L	0.00098	0.0320 mg/L	0.00098	3.04%
Ca 227.546†	5202.9	9.31 mg/L	0.294	9.31 mg/L	0.294	3.16%
Cd 228.802†	30.8	0.00041 mg/L	0.000113	0.00041 mg/L	0.000113	27.14%
Co 228.616†	75.3	0.00106 mg/L	0.000119	0.00106 mg/L	0.000119	11.25%
Cr 267.716†	604.3	0.00303 mg/L	0.000107	0.00303 mg/L	0.000107	3.52%
Cu 327.393†	322.6	0.00172 mg/L	0.000269	0.00172 mg/L	0.000269	15.62%
Fe 239.562†	49382.3	2.67 mg/L	0.019	2.67 mg/L	0.019	0.71%
Mg 279.077†	20341.2	4.81 mg/L	0.012	4.81 mg/L	0.012	0.25%
Mn 257.610†	11268.9	0.0103 mg/L	0.00005	0.0103 mg/L	0.00005	0.51%
Mo 202.031†	57.6	0.00077 mg/L	0.000280	0.00077 mg/L	0.000280	36.29%
Ni 231.604†	323.6	0.00059 mg/L	0.000338	0.00059 mg/L	0.000338	57.62%
Pb 220.353†	2.8	0.00020 mg/L	0.001463	0.00020 mg/L	0.001463	741.91%
Sb 206.836†	-6.9	0.00031 mg/L	0.000145	0.00031 mg/L	0.000145	46.08%
Se 196.026†	-0.5	0.00085 mg/L	0.001329	0.00085 mg/L	0.001329	156.66%
Si 251.611†	1833811.7	26.6 mg/L	0.38	26.6 mg/L	0.38	1.42%
Sn 189.927†	-123.0	-0.00710 mg/L	0.000651	-0.00710 mg/L	0.000651	9.17%
Ti 334.940†	34201.2	0.0282 mg/L	0.00022	0.0282 mg/L	0.00022	0.78%
Tl 190.801†	-3.9	-0.00344 mg/L	0.001275	-0.00344 mg/L	0.001275	37.12%
V 290.880†	3438.2	0.00955 mg/L	0.001674	0.00955 mg/L	0.001674	17.52%
Zn 206.200†	1255.7	0.0135 mg/L	0.00020	0.0135 mg/L	0.00020	1.51%
K 766.490†	3381.7	0.900 mg/L	0.0220	0.900 mg/L	0.0220	2.45%
Na 589.592†	1530480.4	66.8 mg/L	2.40	66.8 mg/L	2.40	3.59%
Sr 407.771†	866452.6	0.305 mg/L	0.0092	0.305 mg/L	0.0092	3.01%
Li 670.784†	6972.6	0.0406 mg/L	0.00066	0.0406 mg/L	0.00066	1.62%

Sequence No.: 39
 Sample ID: L1207065828
 Analyst: KHR
 Initial Sample Wt:

u\osampler Location: 82
 a\ne Collected: 7/25/2012 7:22:50 PM
 a\nd Type: Original
 n\ntial Sample Vol:

Approved: July 26, 2012



Dilution:

sample Prep Vol:

Nebulizer Parameters: L1207065828

Analyte Back Pressure Flow
All 177.0 kPa 0.50 L/min

Mean Data: L1207065828

Analyte	Mean Corrected Intensity	Conc. Units	Calib. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 371.029	2912640.4					9573.22	0.33%
YRADIAL	339494.9					3559.75	1.05%
Ga 417.206	1629040.7					28986.88	1.78%
GaRADIAL	92316.3					676.54	0.73%
Ag 328.068†	-425.1	0.00057 mg/L		0.000351	0.00057 mg/L	0.000351	61.05%
Al 396.153†	21699.9	2.96 mg/L		0.059	2.96 mg/L	0.059	1.98%
As 188.979†	6.2	0.00258 mg/L		0.000347	0.00258 mg/L	0.000347	13.47%
Ba 233.527†	13464.9	0.0587 mg/L		0.00043	0.0587 mg/L	0.00043	0.73%
Be 234.861†	1387.4	0.00031 mg/L		0.000009	0.00031 mg/L	0.000009	2.90%
B 249.677†	4916.9	0.0336 mg/L		0.00099	0.0336 mg/L	0.00099	2.96%
Ca 227.546†	3106.5	5.60 mg/L		0.139	5.60 mg/L	0.139	2.49%
Cd 228.802†	10.4	0.00015 mg/L		0.000110	0.00015 mg/L	0.000110	74.22%
Co 228.616†	62.8	0.00086 mg/L		0.000273	0.00086 mg/L	0.000273	31.73%
Cr 267.716†	482.2	0.00232 mg/L		0.000082	0.00232 mg/L	0.000082	3.52%
Cu 327.393†	1251.0	0.00471 mg/L		0.000329	0.00471 mg/L	0.000329	6.99%
Fe 239.562†	48326.5	2.62 mg/L		0.049	2.62 mg/L	0.049	1.87%
Mg 279.077†	8009.2	1.90 mg/L		0.044	1.90 mg/L	0.044	2.30%
Mn 257.610†	101630.7	0.0955 mg/L		0.00049	0.0955 mg/L	0.00049	0.52%
Mo 202.031†	35.3	0.00033 mg/L		0.000143	0.00033 mg/L	0.000143	43.25%
Ni 231.604†	471.8	0.00216 mg/L		0.000272	0.00216 mg/L	0.000272	12.60%
Pb 220.353†	55.5	0.00313 mg/L		0.001515	0.00313 mg/L	0.001515	48.37%
Sb 206.836†	-3.3	0.00089 mg/L		0.000492	0.00089 mg/L	0.000492	55.13%
Se 196.026†	-3.0	0.00002 mg/L		0.002245	0.00002 mg/L	0.002245	>999.9%
Si 251.611†	482299.8	7.01 mg/L		0.083	7.01 mg/L	0.083	1.18%
Sn 189.927†	-77.2	-0.00446 mg/L		0.000795	-0.00446 mg/L	0.000795	17.83%
Ti 334.940†	32140.2	0.0261 mg/L		0.00027	0.0261 mg/L	0.00027	1.02%
Tl 190.801†	-4.7	-0.00367 mg/L		0.001837	-0.00367 mg/L	0.001837	50.00%
V 290.880†	3266.5	0.00910 mg/L		0.000613	0.00910 mg/L	0.000613	6.74%
Zn 206.200†	2981.7	0.0331 mg/L		0.00035	0.0331 mg/L	0.00035	1.07%
K 766.490†	14773.3	4.48 mg/L		0.108	4.48 mg/L	0.108	2.41%
Na 589.592†	143194.1	6.15 mg/L		0.036	6.15 mg/L	0.036	0.58%
Sr 407.771†	209032.2	0.0738 mg/L		0.00037	0.0738 mg/L	0.00037	0.50%
Li 670.784†	679.9	0.00003 mg/L		0.001278	0.00003 mg/L	0.001278	>999.9%

Sequence No.: 40

Sample ID: L1207065829

Analyst: KHR

Initial Sample Wt:

Dilution:

u&osampler Location: 83

a&e Collected: 7/25/2012 7:28:50 PM

a&a Type: Original

n&ital Sample Vol:

a&ple Prep Vol:

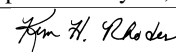
Nebulizer Parameters: L1207065829

Analyte Back Pressure Flow
All 177.0 kPa 0.50 L/min

Mean Data: L1207065829

Analyte	Mean Corrected Intensity	Conc. Units	Calib. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 371.029	2903944.4					28679.54	0.99%
YRADIAL	341898.9					4074.96	1.19%
Ga 417.206	1648922.3					25087.28	1.52%
GaRADIAL	92520.5					868.30	0.94%
Ag 328.068†	-647.3	0.00058 mg/L		0.000236	0.00058 mg/L	0.000236	40.46%
Al 396.153†	26954.3	3.68 mg/L		0.038	3.68 mg/L	0.038	1.04%
As 188.979†	7.8	0.00321 mg/L		0.000467	0.00321 mg/L	0.000467	14.56%
Ba 233.527†	21556.5	0.0946 mg/L		0.00151	0.0946 mg/L	0.00151	1.59%
Be 234.861†	1971.0	0.00037 mg/L		0.000047	0.00037 mg/L	0.000047	12.89%
B 249.677†	4681.8	0.0313 mg/L		0.00124	0.0313 mg/L	0.00124	3.95%
Ca 227.546†	4079.2	7.36 mg/L		0.140	7.36 mg/L	0.140	1.90%

Approved: July 26, 2012



Cd 228.802†	15.8	0.00023 mg/L	0.000046	0.00023 mg/L	0.000046	20.13%
Co 228.616†	326.0	0.00524 mg/L	0.000085	0.00524 mg/L	0.000085	1.62%
Cr 267.716†	624.9	0.00312 mg/L	0.000062	0.00312 mg/L	0.000062	2.00%
Cu 327.393†	1235.0	0.00474 mg/L	0.000773	0.00474 mg/L	0.000773	16.31%
Fe 239.562†	76792.1	4.16 mg/L	0.046	4.16 mg/L	0.046	1.11%
Mg 279.077†	10182.2	2.41 mg/L	0.037	2.41 mg/L	0.037	1.54%
Mn 257.610†	777390.4	0.733 mg/L	0.0082	0.733 mg/L	0.0082	1.12%
Mo 202.031†	34.0	0.00051 mg/L	0.000206	0.00051 mg/L	0.000206	40.15%
Ni 231.604†	601.7	0.00353 mg/L	0.000298	0.00353 mg/L	0.000298	8.43%
Pb 220.353†	30.0	0.00142 mg/L	0.001322	0.00142 mg/L	0.001322	93.17%
Sb 206.836†	-8.9	0.00005 mg/L	0.001040	0.00005 mg/L	0.001040	>999.9%
Se 196.026†	2.1	0.00184 mg/L	0.002183	0.00184 mg/L	0.002183	118.59%
Si 251.611†	595018.7	8.65 mg/L	0.082	8.65 mg/L	0.082	0.95%
Sn 189.927†	-100.6	-0.00581 mg/L	0.000427	-0.00581 mg/L	0.000427	7.35%
Ti 334.940†	45506.1	0.0365 mg/L	0.00082	0.0365 mg/L	0.00082	2.25%
Tl 190.801†	-1.7	-0.00358 mg/L	0.001069	-0.00358 mg/L	0.001069	29.86%
V 290.880†	3758.4	0.0104 mg/L	0.00145	0.0104 mg/L	0.00145	13.89%
Zn 206.200†	1330.5	0.0144 mg/L	0.00009	0.0144 mg/L	0.00009	0.65%
K 766.490†	14921.2	4.52 mg/L	0.067	4.52 mg/L	0.067	1.47%
Na 589.592†	138314.5	5.94 mg/L	0.042	5.94 mg/L	0.042	0.70%
Sr 407.771†	269314.9	0.0950 mg/L	0.00104	0.0950 mg/L	0.00104	1.09%
Li 670.784†	649.1	-0.00017 mg/L	0.000762	-0.00017 mg/L	0.000762	443.14%

Sequence No.: 41
 Sample ID: L1207065830
 Analyst: KHR
 Initial Sample Wt:
 Dilution:

autosampler Location: 84
 Date Collected: 7/25/2012 7:34:48 PM
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol:

Nebulizer Parameters: L1207065830

Analyte Back Pressure Flow
 All 178.0 kPa 0.50 L/min

Mean Data: L1207065830

Analyte	Mean Corrected Intensity	Conc. Units	Calib. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 371.029	2726840.7					4015.14	0.15%
YRADIAL	338125.8					7792.31	2.30%
Ga 417.206	1625342.4					49694.61	3.06%
GarADIAL	93134.4					1615.58	1.73%
Ag 328.068†	-1623.0	0.00142 mg/L	0.000550	0.00142 mg/L	0.000550	38.69%	
Al 396.153†	5592.7	0.759 mg/L	0.0073	0.759 mg/L	0.0073	0.96%	
As 188.979†	55.8	0.0150 mg/L	0.00218	0.0150 mg/L	0.00218	14.56%	
Ba 233.527†	28079.2	0.123 mg/L	0.0015	0.123 mg/L	0.0015	1.22%	
Be 234.861†	4865.7	0.00003 mg/L	0.000112	0.00003 mg/L	0.000112	383.02%	
B 249.677†	16596.4	0.108 mg/L	0.0042	0.108 mg/L	0.0042	3.86%	
Ca 227.546†	40275.7	71.6 mg/L	1.81	71.6 mg/L	1.81	2.53%	
Cd 228.802†	51.3	0.00065 mg/L	0.000105	0.00065 mg/L	0.000105	16.02%	
Co 228.616†	711.5	0.0116 mg/L	0.00026	0.0116 mg/L	0.00026	2.25%	
Cr 267.716†	646.6	0.00291 mg/L	0.000064	0.00291 mg/L	0.000064	2.21%	
Cu 327.393†	337.0	0.00224 mg/L	0.000506	0.00224 mg/L	0.000506	22.57%	
Fe 239.562†	238341.3	12.9 mg/L	0.11	12.9 mg/L	0.11	0.85%	
Mg 279.077†	190421.9	44.9 mg/L	0.54	44.9 mg/L	0.54	1.20%	
Mn 257.610†	383078.4	0.361 mg/L	0.0037	0.361 mg/L	0.0037	1.01%	
Mo 202.031†	54.5	0.00128 mg/L	0.000121	0.00128 mg/L	0.000121	9.44%	
Ni 231.604†	1695.1	0.0151 mg/L	0.00027	0.0151 mg/L	0.00027	1.81%	
Pb 220.353†	30.6	0.00089 mg/L	0.000580	0.00089 mg/L	0.000580	65.39%	
Sb 206.836†	-12.5	-0.00018 mg/L	0.000682	-0.00018 mg/L	0.000682	378.90%	
Se 196.026†	-2.9	0.00152 mg/L	0.003310	0.00152 mg/L	0.003310	217.87%	
Si 251.611†	1512030.4	22.0 mg/L	0.45	22.0 mg/L	0.45	2.07%	
Sn 189.927†	-321.3	-0.0185 mg/L	0.00046	-0.0185 mg/L	0.00046	2.48%	
Ti 334.940†	16474.8	0.0240 mg/L	0.00072	0.0240 mg/L	0.00072	3.02%	
Tl 190.801†	-18.7	-0.00681 mg/L	0.001219	-0.00681 mg/L	0.001219	17.89%	
V 290.880†	3783.6	0.00823 mg/L	0.002289	0.00823 mg/L	0.002289	27.79%	
Zn 206.200†	3495.7	0.0388 mg/L	0.00047	0.0388 mg/L	0.00047	1.20%	
K 766.490†	10314.8	2.92 mg/L	0.031	2.92 mg/L	0.031	1.07%	
Na 589.592†	4216860.5	188 mg/L	6.1	188 mg/L	6.1	3.24%	
Sr 407.771†	6308063.9	2.22 mg/L	0.086	2.22 mg/L	0.086	3.87%	
Li 670.784†	18122.2	0.112 mg/L	0.0024	0.112 mg/L	0.0024	2.09%	

Approved: July 26, 2012

Ken H. Rhodes

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Sequence No.: 42                               u&osampler Location: 85
Sample ID: L1207065832                       a&e Collected: 7/25/2012 7:40:51 PM
Analyst: KHR                                  a&a Type: Original
Initial Sample Wt:                             nitial Sample Vol:
Dilution:                                     a&ple Prep Vol:
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Nebulizer Parameters: L1207065832

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Analyte      Back Pressure  Flow
All          178.0 kPa    0.50 L/min
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Mean Data: L1207065832

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 371.029	2934062.0				21082.57	0.72%
YRADIAL	339138.5				1192.34	0.35%
Ga 417.206	1698321.5				9484.07	0.56%
GaRADIAL	93105.2				2377.35	2.55%
Ag 328.068†	-123.5	0.00025 mg/L	0.000173	0.00025 mg/L	0.000173	70.21%
Al 396.153†	-65.4	-0.0173 mg/L	0.00164	-0.0173 mg/L	0.00164	9.50%
As 188.979†	4.9	0.00188 mg/L	0.000622	0.00188 mg/L	0.000622	33.02%
Ba 233.527†	-7.6	-0.00113 mg/L	0.000086	-0.00113 mg/L	0.000086	7.67%
Be 234.861†	124.5	0.00015 mg/L	0.000019	0.00015 mg/L	0.000019	12.19%
B 249.677†	80.9	0.00208 mg/L	0.000088	0.00208 mg/L	0.000088	4.24%
Cd 227.546†	6.4	0.0572 mg/L	0.03344	0.0572 mg/L	0.03344	58.41%
Cd 228.802†	-1.6	-0.00001 mg/L	0.000040	-0.00001 mg/L	0.000040	605.76%
Co 228.616†	-26.3	-0.00051 mg/L	0.000166	-0.00051 mg/L	0.000166	32.75%
Cr 267.716†	116.4	0.00021 mg/L	0.000074	0.00021 mg/L	0.000074	35.40%
Cu 327.393†	-0.1	0.00053 mg/L	0.000489	0.00053 mg/L	0.000489	91.96%
Fe 239.562†	32.4	0.00329 mg/L	0.000853	0.00329 mg/L	0.000853	25.92%
Mg 279.077†	-28.2	0.00700 mg/L	0.003113	0.00700 mg/L	0.003113	44.46%
Mn 257.610†	218.6	-0.00017 mg/L	0.000003	-0.00017 mg/L	0.000003	1.54%
Mo 202.031†	-1.7	-0.00058 mg/L	0.000133	-0.00058 mg/L	0.000133	22.85%
Ni 231.604†	47.3	-0.00234 mg/L	0.000287	-0.00234 mg/L	0.000287	12.24%
Pb 220.353†	-0.9	-0.00015 mg/L	0.000555	-0.00015 mg/L	0.000555	379.13%
Sb 206.836†	-2.4	0.00094 mg/L	0.000358	0.00094 mg/L	0.000358	38.09%
Se 196.026†	-0.3	0.00044 mg/L	0.000519	0.00044 mg/L	0.000519	117.40%
Si 251.611†	35365.6	0.519 mg/L	0.0057	0.519 mg/L	0.0057	1.09%
Sn 189.927†	-0.2	-0.00002 mg/L	0.000638	-0.00002 mg/L	0.000638	>999.9%
Ti 334.940†	-58.6	0.00072 mg/L	0.000012	0.00072 mg/L	0.000012	1.67%
Tl 190.801†	-6.2	-0.00426 mg/L	0.001031	-0.00426 mg/L	0.001031	24.18%
V 290.880†	591.6	0.00115 mg/L	0.000944	0.00115 mg/L	0.000944	82.26%
Zn 206.200†	551.1	0.00558 mg/L	0.000053	0.00558 mg/L	0.000053	0.96%
K 766.490†	83.2	-0.0513 mg/L	0.01854	-0.0513 mg/L	0.01854	36.12%
Na 589.592†	610.4	-0.00110 mg/L	0.002655	-0.00110 mg/L	0.002655	242.22%
Sr 407.771†	-648.0	0.00009 mg/L	0.000016	0.00009 mg/L	0.000016	17.35%
Li 670.784†	59.5	-0.00397 mg/L	0.000031	-0.00397 mg/L	0.000031	0.77%

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Sequence No.: 43                               u&osampler Location: 86
Sample ID: L1207065833                       a&e Collected: 7/25/2012 7:47:46 PM
Analyst: KHR                                  a&a Type: Original
Initial Sample Wt:                             nitial Sample Vol:
Dilution:                                     a&ple Prep Vol:
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Nebulizer Parameters: L1207065833

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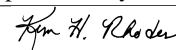
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Analyte      Back Pressure  Flow
All          179.0 kPa    0.50 L/min
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Mean Data: L1207065833

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 371.029	2756556.1				34836.54	1.26%
YRADIAL	329820.1				6640.12	2.01%
Ga 417.206	1585963.1				42895.84	2.70%
GaRADIAL	90640.8				1349.38	1.49%
Ag 328.068†	-284.5	0.00136 mg/L	0.000271	0.00136 mg/L	0.000271	19.87%

Approved: July 26, 2012



Al 396.153†	28144.6	3.85 mg/L	0.015	3.85 mg/L	0.015	0.38%
As 188.979†	0.3	0.00190 mg/L	0.001142	0.00190 mg/L	0.001142	60.19%
Ba 233.527†	33742.0	0.149 mg/L	0.0006	0.149 mg/L	0.0006	0.41%
Be 234.861†	2342.3	0.00043 mg/L	0.000036	0.00043 mg/L	0.000036	8.34%
B 249.677†	8268.8	0.0552 mg/L	0.00176	0.0552 mg/L	0.00176	3.19%
Ca 227.546†	32310.0	57.3 mg/L	1.69	57.3 mg/L	1.69	2.96%
Cd 228.802†	32.8	0.00047 mg/L	0.000021	0.00047 mg/L	0.000021	4.49%
Co 228.616†	618.2	0.0101 mg/L	0.00028	0.0101 mg/L	0.00028	2.80%
Cr 267.716†	1401.4	0.00772 mg/L	0.000213	0.00772 mg/L	0.000213	2.75%
Cu 327.393†	915.0	0.00376 mg/L	0.000145	0.00376 mg/L	0.000145	3.84%
Fe 239.562†	89919.2	4.87 mg/L	0.056	4.87 mg/L	0.056	1.14%
Mg 279.077†	106327.0	25.1 mg/L	0.33	25.1 mg/L	0.33	1.32%
Mn 257.610†	865886.1	0.816 mg/L	0.0105	0.816 mg/L	0.0105	1.29%
Mo 202.031†	61.9	0.00114 mg/L	0.000304	0.00114 mg/L	0.000304	26.67%
Ni 231.604†	859.2	0.00626 mg/L	0.000273	0.00626 mg/L	0.000273	4.36%
Pb 220.353†	65.3	0.00360 mg/L	0.001613	0.00360 mg/L	0.001613	44.80%
Sb 206.836†	-10.4	-0.00019 mg/L	0.000527	-0.00019 mg/L	0.000527	284.27%
Se 196.026†	-7.5	-0.00130 mg/L	0.001080	-0.00130 mg/L	0.001080	83.04%
Si 251.611†	1602669.5	23.3 mg/L	0.30	23.3 mg/L	0.30	1.27%
Sn 189.927†	-296.0	-0.0171 mg/L	0.00050	-0.0171 mg/L	0.00050	2.95%
Ti 334.940†	69913.9	0.0626 mg/L	0.00189	0.0626 mg/L	0.00189	3.02%
Tl 190.801†	-21.0	-0.00714 mg/L	0.002303	-0.00714 mg/L	0.002303	32.27%
V 290.880†	5501.3	0.0152 mg/L	0.00276	0.0152 mg/L	0.00276	18.16%
Zn 206.200†	2080.8	0.0229 mg/L	0.00031	0.0229 mg/L	0.00031	1.35%
K 766.490†	19151.1	5.67 mg/L	0.060	5.67 mg/L	0.060	1.06%
Na 589.592†	3638349.6	162 mg/L	1.6	162 mg/L	1.6	1.02%
Sr 407.771†	5926878.5	2.09 mg/L	0.030	2.09 mg/L	0.030	1.42%
Li 670.784†	10101.7	0.0608 mg/L	0.00152	0.0608 mg/L	0.00152	2.51%

Sequence No.: 44

Sample ID: L1207065833PS WG404492-01

Analyst: KHR

Initial Sample Wt:

Dilution:

u\osampler Location: 87

a\ne Collected: 7/25/2012 7:53:46 PM

a\nd Type: Original

n\ntial Sample Vol:

a\mple Prep Vol:

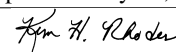
Nebulizer Parameters: L1207065833PS WG404492-01

Analyte	Back Pressure	Flow
All	179.0 kPa	0.50 L/min

Mean Data: L1207065833PS WG404492-01

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc. Units	Sample Std.Dev.	RSD
Y 371.029	2771888.2					10890.58	0.39%
YRADIAL	333795.1					1108.84	0.33%
Ga 417.206	1591348.3					16963.55	1.07%
GaRADIAL	92632.9					951.67	1.03%
Ag 328.068†	75488.2	0.188 mg/L	0.0030	0.188 mg/L	0.0030	0.0030	1.61%
Al 396.153†	61428.7	8.37 mg/L	0.020	8.37 mg/L	0.020	0.020	0.24%
As 188.979†	959.1	0.188 mg/L	0.0016	0.188 mg/L	0.0016	0.0016	0.83%
Ba 233.527†	140492.4	0.624 mg/L	0.0031	0.624 mg/L	0.0031	0.0031	0.50%
Be 234.861†	41190.3	0.0236 mg/L	0.00034	0.0236 mg/L	0.00034	0.00034	1.45%
B 249.677†	144076.7	0.971 mg/L	0.0186	0.971 mg/L	0.0186	0.0186	1.91%
Ca 227.546†	31880.1	56.7 mg/L	0.98	56.7 mg/L	0.98	0.98	1.72%
Cd 228.802†	1742.8	0.0218 mg/L	0.00070	0.0218 mg/L	0.00070	0.00070	3.21%
Co 228.616†	6361.2	0.107 mg/L	0.0011	0.107 mg/L	0.0011	0.0011	1.01%
Cr 267.716†	41718.9	0.248 mg/L	0.0003	0.248 mg/L	0.0003	0.0003	0.13%
Cu 327.393†	73802.6	0.239 mg/L	0.0033	0.239 mg/L	0.0033	0.0033	1.40%
Fe 239.562†	115587.4	6.26 mg/L	0.024	6.26 mg/L	0.024	0.024	0.38%
Mg 279.077†	115599.0	27.3 mg/L	0.08	27.3 mg/L	0.08	0.08	0.29%
Mn 257.610†	1028299.2	0.970 mg/L	0.0077	0.970 mg/L	0.0077	0.0077	0.79%
Mo 202.031†	25008.1	0.513 mg/L	0.0030	0.513 mg/L	0.0030	0.0030	0.59%
Ni 231.604†	24377.2	0.256 mg/L	0.0022	0.256 mg/L	0.0022	0.0022	0.85%
Pb 220.353†	4698.1	0.249 mg/L	0.0016	0.249 mg/L	0.0016	0.0016	0.63%
Sb 206.836†	3640.6	0.572 mg/L	0.0106	0.572 mg/L	0.0106	0.0106	1.85%
Se 196.026†	564.7	0.192 mg/L	0.0028	0.192 mg/L	0.0028	0.0028	1.47%
Si 251.611†	1600518.4	23.2 mg/L	0.22	23.2 mg/L	0.22	0.22	0.96%
Sn 189.927†	-302.5	-0.0175 mg/L	0.00044	-0.0175 mg/L	0.00044	0.00044	2.51%
Ti 334.940†	716652.2	0.555 mg/L	0.0043	0.555 mg/L	0.0043	0.0043	0.77%
Tl 190.801†	1285.0	0.250 mg/L	0.0018	0.250 mg/L	0.0018	0.0018	0.73%

Approved: July 26, 2012



Method: 200.7-6010 PE-ICP2.1

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Date: 7/25/2012 8:08:19 PM

V 290.880†	164387.1	0.511 mg/L	0.0030	0.511 mg/L	0.0030	0.58%
Zn 206.200†	44664.0	0.508 mg/L	0.0021	0.508 mg/L	0.0021	0.42%
K 766.490†	98560.4	30.2 mg/L	0.32	30.2 mg/L	0.32	1.07%
Na 589.592†	3750148.2	167 mg/L	2.2	167 mg/L	2.2	1.35%
Sr 407.771†	6708132.4	2.36 mg/L	0.011	2.36 mg/L	0.011	0.47%
Li 670.784†	88673.9	0.567 mg/L	0.0051	0.567 mg/L	0.0051	0.90%

Sequence No.: 45

Sample ID: L1207065833DL WG404492-02

Analyst: KHR

Initial Sample Wt:

Dilution:

u&osampler Location: 88

a&e Collected: 7/25/2012 7:59:48 PM

a&a Type: Original

n&itial Sample Vol:

a&mple Prep Vol:

Nebulizer Parameters: L1207065833DL WG404492-02

Analyte	Back Pressure	Flow
All	179.0 kPa	0.50 L/min

Mean Data: L1207065833DL WG404492-02

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc. Units	Sample Std.Dev.	RSD
Y 371.029	2866391.6					31984.43	1.12%
YRADIAL	340312.7					5783.87	1.70%
Ga 417.206	1596073.0					53299.18	3.34%
GaRADIAL	92740.4					1123.11	1.21%
Ag 328.068†	-81.8	0.00065 mg/L		0.000168	0.00065 mg/L	0.000168	25.87%
Al 396.153†	5527.6	0.749 mg/L		0.0021	0.749 mg/L	0.0021	0.28%
As 188.979†	7.2	0.00252 mg/L		0.001878	0.00252 mg/L	0.001878	74.41%
Ba 233.527†	6898.6	0.0295 mg/L		0.00046	0.0295 mg/L	0.00046	1.55%
Be 234.861†	658.5	0.00027 mg/L		0.000036	0.00027 mg/L	0.000036	13.48%
B 249.677†	2165.8	0.0157 mg/L		0.00090	0.0157 mg/L	0.00090	5.70%
Ca 227.546†	6398.1	11.4 mg/L		0.43	11.4 mg/L	0.43	3.74%
Cd 228.802†	18.2	0.00025 mg/L		0.000095	0.00025 mg/L	0.000095	37.54%
Co 228.616†	131.5	0.00211 mg/L		0.000274	0.00211 mg/L	0.000274	13.04%
Cr 267.716†	281.7	0.00117 mg/L		0.000112	0.00117 mg/L	0.000112	9.61%
Cu 327.393†	130.0	0.00101 mg/L		0.000167	0.00101 mg/L	0.000167	16.60%
Fe 239.562†	17853.0	0.968 mg/L		0.0155	0.968 mg/L	0.0155	1.60%
Mg 279.077†	20774.7	4.91 mg/L		0.084	4.91 mg/L	0.084	1.71%
Mn 257.610†	180464.8	0.170 mg/L		0.0013	0.170 mg/L	0.0013	0.74%
Mo 202.031†	34.7	0.00025 mg/L		0.000179	0.00025 mg/L	0.000179	72.11%
Ni 231.604†	181.1	-0.00093 mg/L		0.000234	-0.00093 mg/L	0.000234	25.22%
Pb 220.353†	-13.2	-0.00075 mg/L		0.001192	-0.00075 mg/L	0.001192	158.30%
Sb 206.836†	-2.7	0.00092 mg/L		0.001036	0.00092 mg/L	0.001036	112.68%
Se 196.026†	-6.2	-0.00141 mg/L		0.001216	-0.00141 mg/L	0.001216	86.15%
Si 251.611†	331994.9	4.83 mg/L		0.101	4.83 mg/L	0.101	2.10%
Sn 189.927†	-130.3	-0.00753 mg/L		0.000200	-0.00753 mg/L	0.000200	2.66%
Ti 334.940†	14005.4	0.0131 mg/L		0.00077	0.0131 mg/L	0.00077	5.84%
Tl 190.801†	-5.8	-0.00419 mg/L		0.000632	-0.00419 mg/L	0.000632	15.08%
V 290.880†	1676.1	0.00428 mg/L		0.001545	0.00428 mg/L	0.001545	36.13%
Zn 206.200†	570.8	0.00580 mg/L		0.000198	0.00580 mg/L	0.000198	3.42%
K 766.490†	3758.2	1.05 mg/L		0.004	1.05 mg/L	0.004	0.41%
Na 589.592†	713609.7	30.9 mg/L		0.55	30.9 mg/L	0.55	1.77%
Sr 407.771†	1160827.2	0.409 mg/L		0.0104	0.409 mg/L	0.0104	2.55%
Li 670.784†	2098.1	0.00917 mg/L		0.000194	0.00917 mg/L	0.000194	2.11%

Sequence No.: 46

Sample ID: CCV

Analyst:

Initial Sample Wt:

Dilution:

u&osampler Location: 6

a&e Collected: 7/25/2012 8:05:46 PM

a&a Type: Original

n&itial Sample Vol:

a&mple Prep Vol:

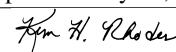
Nebulizer Parameters: CCV

Analyte	Back Pressure	Flow
All	179.0 kPa	0.50 L/min

Mean Data: CCV

Mean Corrected	Calib.	Sample
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Approved: July 26, 2012



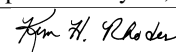
Analyte	Intensity	Conc. Units	Std.Dev.	Conc. Units	Std.Dev.	RSD
Y 371.029	2784198.3				14128.56	0.51%
YRADIAL	323410.3				2033.64	0.63%
Ga 417.206	1477391.3				18112.64	1.23%
GaRADIAL	88467.2				1028.01	1.16%
Ag 328.068†	162893.9	0.402 mg/L	0.0081	0.402 mg/L	0.0081	2.02%
QC value within limits for Ag		328.068 Recovery = 100.62%				
Al 396.153†	73935.3	10.0 mg/L	0.05	10.0 mg/L	0.05	0.46%
QC value within limits for Al		396.153 Recovery = 100.50%				
As 188.979†	2062.4	0.401 mg/L	0.0053	0.401 mg/L	0.0053	1.33%
QC value within limits for As		188.979 Recovery = 100.32%				
Ba 233.527†	230229.1	1.02 mg/L	0.004	1.02 mg/L	0.004	0.41%
QC value within limits for Ba		233.527 Recovery = 102.36%				
Be 234.861†	83379.5	0.0496 mg/L	0.00103	0.0496 mg/L	0.00103	2.08%
QC value within limits for Be		234.861 Recovery = 99.22%				
B 249.677†	72548.2	0.488 mg/L	0.0154	0.488 mg/L	0.0154	3.15%
QC value within limits for B		249.677 Recovery = 97.59%				
Ca 227.546†	5643.8	10.5 mg/L	0.18	10.5 mg/L	0.18	1.71%
QC value within limits for Ca		227.546 Recovery = 105.05%				
Cd 228.802†	3825.0	0.0478 mg/L	0.00174	0.0478 mg/L	0.00174	3.63%
QC value within limits for Cd		228.802 Recovery = 95.65%				
Co 228.616†	12165.8	0.205 mg/L	0.0018	0.205 mg/L	0.0018	0.90%
QC value within limits for Co		228.616 Recovery = 102.58%				
Cr 267.716†	84955.1	0.505 mg/L	0.0044	0.505 mg/L	0.0044	0.87%
QC value within limits for Cr		267.716 Recovery = 101.05%				
Cu 327.393†	155693.4	0.502 mg/L	0.0115	0.502 mg/L	0.0115	2.29%
QC value within limits for Cu		327.393 Recovery = 100.48%				
Fe 239.562†	74232.3	4.02 mg/L	0.012	4.02 mg/L	0.012	0.31%
QC value within limits for Fe		239.562 Recovery = 100.48%				
Mg 279.077†	43034.9	10.2 mg/L	0.05	10.2 mg/L	0.05	0.52%
QC value within limits for Mg		279.077 Recovery = 101.75%				
Mn 257.610†	546903.7	0.516 mg/L	0.0036	0.516 mg/L	0.0036	0.69%
QC value within limits for Mn		257.610 Recovery = 103.21%				
Mo 202.031†	50569.3	1.04 mg/L	0.003	1.04 mg/L	0.003	0.27%
QC value within limits for Mo		202.031 Recovery = 103.70%				
Ni 231.604†	50051.7	0.528 mg/L	0.0049	0.528 mg/L	0.0049	0.94%
QC value within limits for Ni		231.604 Recovery = 105.54%				
Pb 220.353†	9750.9	0.516 mg/L	0.0039	0.516 mg/L	0.0039	0.76%
QC value within limits for Pb		220.353 Recovery = 103.14%				
Sb 206.836†	7735.9	1.21 mg/L	0.024	1.21 mg/L	0.024	1.94%
QC value within limits for Sb		206.836 Recovery = 101.06%				
Se 196.026†	1208.5	0.410 mg/L	0.0098	0.410 mg/L	0.0098	2.38%
QC value within limits for Se		196.026 Recovery = 102.48%				
Si 251.611†	346142.2	5.02 mg/L	0.070	5.02 mg/L	0.070	1.40%
QC value within limits for Si		251.611 Recovery = 100.42%				
Sn 189.927†	17965.2	1.04 mg/L	0.007	1.04 mg/L	0.007	0.71%
QC value within limits for Sn		189.927 Recovery = 103.65%				
Ti 334.940†	1336342.7	1.02 mg/L	0.002	1.02 mg/L	0.002	0.21%
QC value within limits for Ti		334.940 Recovery = 101.99%				
Tl 190.801†	2752.0	0.538 mg/L	0.0019	0.538 mg/L	0.0019	0.34%
QC value within limits for Tl		190.801 Recovery = 107.61%				
V 290.880†	325118.7	1.01 mg/L	0.007	1.01 mg/L	0.007	0.66%
QC value within limits for V		290.880 Recovery = 101.31%				
Zn 206.200†	89953.8	1.02 mg/L	0.002	1.02 mg/L	0.002	0.19%
QC value within limits for Zn		206.200 Recovery = 102.43%				
K 766.490†	165320.5	51.1 mg/L	0.11	51.1 mg/L	0.11	0.21%
QC value within limits for K		766.490 Recovery = 102.17%				
Na 589.592†	1152070.3	50.1 mg/L	0.29	50.1 mg/L	0.29	0.57%
QC value within limits for Na		589.592 Recovery = 100.18%				
Sr 407.771†	2991499.0	1.05 mg/L	0.022	1.05 mg/L	0.022	2.06%
QC value within limits for Sr		407.771 Recovery = 105.36%				
Li 670.784†	158542.9	1.02 mg/L	0.003	1.02 mg/L	0.003	0.31%
QC value within limits for Li		670.784 Recovery = 101.75%				

All analyte(s) passed QC.

Sequence No.: 47
Sample ID: CCB
Analyst:
Initial Sample Wt:
Dilution:

Sampler Location: 1
Date Collected: 7/25/2012 8:11:49 PM
Sample Type: Original
Initial Sample Vol:
Sample Prep Vol:

Approved: July 26, 2012



Nebulizer Parameters: CCB

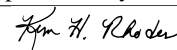
Analyte	Back Pressure	Flow
All	179.0 kPa	0.50 L/min

Mean Data: CCB

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 371.029	2879731.6				23660.87	0.82%
YRADIAL	329399.0				2364.67	0.72%
Ga 417.206	1538248.2				31331.18	2.04%
GaRADIAL	89770.4				2405.43	2.68%
Ag 328.068†	-154.1	0.00017 mg/L	0.000042	0.00017 mg/L	0.000042	24.61%
QC value within limits for Ag						
Al 396.153†	-2.6	-0.00871 mg/L	0.000527	-0.00871 mg/L	0.000527	6.05%
QC value within limits for Al						
As 188.979†	-1.1	0.00071 mg/L	0.002140	0.00071 mg/L	0.002140	300.41%
QC value within limits for As						
Ba 233.527†	-36.6	-0.00125 mg/L	0.000060	-0.00125 mg/L	0.000060	4.81%
QC value within limits for Ba						
Be 234.861†	-42.8	0.00005 mg/L	0.000020	0.00005 mg/L	0.000020	35.88%
QC value within limits for Be						
B 249.677†	399.8	0.00424 mg/L	0.000365	0.00424 mg/L	0.000365	8.61%
QC value within limits for B						
Ca 227.546†	15.7	0.0730 mg/L	0.00923	0.0730 mg/L	0.00923	12.64%
QC value within limits for Ca						
Cd 228.802†	-2.1	-0.00001 mg/L	0.000094	-0.00001 mg/L	0.000094	>999.9%
QC value within limits for Cd						
Co 228.616†	-8.5	-0.00021 mg/L	0.000275	-0.00021 mg/L	0.000275	132.79%
QC value within limits for Co						
Cr 267.716†	17.4	-0.00038 mg/L	0.000057	-0.00038 mg/L	0.000057	15.13%
QC value within limits for Cr						
Cu 327.393†	-98.0	0.00022 mg/L	0.000236	0.00022 mg/L	0.000236	109.07%
QC value within limits for Cu						
Fe 239.562†	11.5	0.00216 mg/L	0.000290	0.00216 mg/L	0.000290	13.44%
QC value within limits for Fe						
Mg 279.077†	-3.9	0.0127 mg/L	0.00225	0.0127 mg/L	0.00225	17.68%
QC value within limits for Mg						
Mn 257.610†	118.6	-0.00027 mg/L	0.000016	-0.00027 mg/L	0.000016	6.21%
QC value within limits for Mn						
Mo 202.031†	17.2	-0.00019 mg/L	0.000127	-0.00019 mg/L	0.000127	65.37%
QC value within limits for Mo						
Ni 231.604†	-7.2	-0.00292 mg/L	0.000085	-0.00292 mg/L	0.000085	2.92%
QC value within limits for Ni						
Pb 220.353†	-0.1	-0.00010 mg/L	0.000303	-0.00010 mg/L	0.000303	295.51%
QC value within limits for Pb						
Sb 206.836†	-3.3	0.00080 mg/L	0.000426	0.00080 mg/L	0.000426	53.22%
QC value within limits for Sb						
Se 196.026†	2.4	0.00136 mg/L	0.001049	0.00136 mg/L	0.001049	77.28%
QC value within limits for Se						
Si 251.611†	-74.1	0.00480 mg/L	0.000481	0.00480 mg/L	0.000481	10.03%
QC value within limits for Si						
Sn 189.927†	13.3	0.00076 mg/L	0.000351	0.00076 mg/L	0.000351	46.44%
QC value within limits for Sn						
Ti 334.940†	43.8	0.00081 mg/L	0.000043	0.00081 mg/L	0.000043	5.38%
QC value within limits for Ti						
Tl 190.801†	-1.8	-0.00341 mg/L	0.001078	-0.00341 mg/L	0.001078	31.63%
QC value within limits for Tl						
V 290.880†	299.7	0.00024 mg/L	0.001133	0.00024 mg/L	0.001133	478.38%
QC value within limits for V						
Zn 206.200†	-62.6	-0.00138 mg/L	0.000080	-0.00138 mg/L	0.000080	5.82%
QC value within limits for Zn						
K 766.490†	63.0	-0.0575 mg/L	0.01347	-0.0575 mg/L	0.01347	23.41%
QC value within limits for K						
Na 589.592†	127.7	-0.0219 mg/L	0.00451	-0.0219 mg/L	0.00451	20.57%
QC value within limits for Na						
Sr 407.771†	211.9	0.00040 mg/L	0.000030	0.00040 mg/L	0.000030	7.58%
QC value within limits for Sr						
Li 670.784†	159.3	-0.00333 mg/L	0.000138	-0.00333 mg/L	0.000138	4.16%
QC value within limits for Li						

All analyte(s) passed QC.

Approved: July 26, 2012



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Sequence No.: 48                               u&osampler Location: 89
Sample ID: L1207065834                       a&e Collected: 7/25/2012 8:18:42 PM
Analyst: KHR                                  a&a Type: Original
Initial Sample Wt:                             nitial Sample Vol:
Dilution:                                     a&ple Prep Vol:
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Nebulizer Parameters: L1207065834

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Analyte      Back Pressure  Flow
All          179.0 kPa      0.50 L/min
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Mean Data: L1207065834

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 371.029	2798040.4				23152.00	0.83%
YRADIAL	337840.2				8748.93	2.59%
Ga 417.206	1627828.5				40803.27	2.51%
GaRADIAL	91909.5				2703.74	2.94%
Ag 328.068†	-200.0	0.00082 mg/L	0.000184	0.00082 mg/L	0.000184	22.47%
Al 396.153†	9842.2	1.34 mg/L	0.005	1.34 mg/L	0.005	0.36%
As 188.979†	18.6	0.00498 mg/L	0.000363	0.00498 mg/L	0.000363	7.29%
Ba 233.527†	12686.3	0.0552 mg/L	0.00071	0.0552 mg/L	0.00071	1.29%
Be 234.861†	1134.5	0.00030 mg/L	0.000057	0.00030 mg/L	0.000057	18.84%
B 249.677†	1687.0	0.0120 mg/L	0.00041	0.0120 mg/L	0.00041	3.45%
Ca 227.546†	6848.3	12.2 mg/L	0.39	12.2 mg/L	0.39	3.20%
Cd 228.802†	19.1	0.00026 mg/L	0.000187	0.00026 mg/L	0.000187	70.87%
Co 228.616†	288.8	0.00471 mg/L	0.000123	0.00471 mg/L	0.000123	2.61%
Cr 267.716†	731.2	0.00381 mg/L	0.000031	0.00381 mg/L	0.000031	0.80%
Cu 327.393†	204.3	0.00131 mg/L	0.000278	0.00131 mg/L	0.000278	21.26%
Fe 239.562†	37552.5	2.03 mg/L	0.028	2.03 mg/L	0.028	1.39%
Mg 279.077†	26558.4	6.27 mg/L	0.118	6.27 mg/L	0.118	1.89%
Mn 257.610†	165158.2	0.155 mg/L	0.0010	0.155 mg/L	0.0010	0.65%
Mo 202.031†	112.5	0.00189 mg/L	0.000050	0.00189 mg/L	0.000050	2.66%
Ni 231.604†	1287.7	0.0108 mg/L	0.00034	0.0108 mg/L	0.00034	3.13%
Pb 220.353†	-6.0	-0.00034 mg/L	0.000961	-0.00034 mg/L	0.000961	282.72%
Sb 206.836†	-5.9	0.00046 mg/L	0.000590	0.00046 mg/L	0.000590	128.13%
Se 196.026†	0.3	0.00098 mg/L	0.002715	0.00098 mg/L	0.002715	276.80%
Si 251.611†	1581927.7	23.0 mg/L	0.42	23.0 mg/L	0.42	1.84%
Sn 189.927†	-143.1	-0.00826 mg/L	0.000661	-0.00826 mg/L	0.000661	8.00%
Ti 334.940†	29341.0	0.0249 mg/L	0.00050	0.0249 mg/L	0.00050	1.99%
Tl 190.801†	-5.7	-0.00399 mg/L	0.001347	-0.00399 mg/L	0.001347	33.80%
V 290.880†	2965.1	0.00812 mg/L	0.001798	0.00812 mg/L	0.001798	22.14%
Zn 206.200†	1435.3	0.0156 mg/L	0.00039	0.0156 mg/L	0.00039	2.49%
K 766.490†	4465.8	1.22 mg/L	0.016	1.22 mg/L	0.016	1.28%
Na 589.592†	1865161.8	81.6 mg/L	3.38	81.6 mg/L	3.38	4.15%
Sr 407.771†	1041526.7	0.367 mg/L	0.0141	0.367 mg/L	0.0141	3.83%
Li 670.784†	5648.2	0.0320 mg/L	0.00032	0.0320 mg/L	0.00032	1.01%

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Sequence No.: 49                               u&osampler Location: 90
Sample ID: L1207068835                       a&e Collected: 7/25/2012 8:24:42 PM
Analyst: KHR                                  a&a Type: Original
Initial Sample Wt:                             nitial Sample Vol:
Dilution:                                     a&ple Prep Vol:
=====

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Nebulizer Parameters: L1207068835

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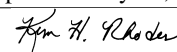
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Analyte      Back Pressure  Flow
All          179.0 kPa      0.50 L/min
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Mean Data: L1207068835

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 371.029	2840178.0				17827.71	0.63%
YRADIAL	332032.9				4346.24	1.31%
Ga 417.206	1624331.3				57178.14	3.52%
GaRADIAL	92374.3				1287.53	1.39%
Ag 328.068†	-420.6	0.00059 mg/L	0.000239	0.00059 mg/L	0.000239	40.81%

Approved: July 26, 2012



Al 396.153†	16027.7	2.19 mg/L	0.054	2.19 mg/L	0.054	2.45%
As 188.979†	20.3	0.00540 mg/L	0.000973	0.00540 mg/L	0.000973	18.01%
Ba 233.527†	20289.4	0.0890 mg/L	0.00118	0.0890 mg/L	0.00118	1.32%
Be 234.861†	1495.1	0.00038 mg/L	0.000024	0.00038 mg/L	0.000024	6.41%
B 249.677†	2118.1	0.0147 mg/L	0.00059	0.0147 mg/L	0.00059	3.99%
Ca 227.546†	4078.1	7.32 mg/L	0.329	7.32 mg/L	0.329	4.49%
Cd 228.802†	16.9	0.00024 mg/L	0.000129	0.00024 mg/L	0.000129	53.60%
Co 228.616†	419.8	0.00688 mg/L	0.000273	0.00688 mg/L	0.000273	3.96%
Cr 267.716†	570.6	0.00284 mg/L	0.000067	0.00284 mg/L	0.000067	2.37%
Cu 327.393†	284.6	0.00160 mg/L	0.000305	0.00160 mg/L	0.000305	18.99%
Fe 239.562†	49270.5	2.67 mg/L	0.066	2.67 mg/L	0.066	2.48%
Mg 279.077†	9781.7	2.32 mg/L	0.059	2.32 mg/L	0.059	2.54%
Mn 257.610†	207062.9	0.195 mg/L	0.0017	0.195 mg/L	0.0017	0.86%
Mo 202.031†	53.2	0.00072 mg/L	0.000217	0.00072 mg/L	0.000217	30.11%
Ni 231.604†	636.3	0.00390 mg/L	0.000264	0.00390 mg/L	0.000264	6.79%
Pb 220.353†	1.1	0.00007 mg/L	0.000702	0.00007 mg/L	0.000702	953.44%
Sb 206.836†	-0.8	0.00128 mg/L	0.000950	0.00128 mg/L	0.000950	73.91%
Se 196.026†	7.6	0.00356 mg/L	0.001333	0.00356 mg/L	0.001333	37.44%
Si 251.611†	1942349.1	28.2 mg/L	0.92	28.2 mg/L	0.92	3.27%
Sn 189.927†	-111.2	-0.00642 mg/L	0.000394	-0.00642 mg/L	0.000394	6.14%
Ti 334.940†	38434.3	0.0311 mg/L	0.00037	0.0311 mg/L	0.00037	1.18%
Tl 190.801†	-2.3	-0.00327 mg/L	0.002350	-0.00327 mg/L	0.002350	71.78%
V 290.880†	3556.0	0.00999 mg/L	0.001194	0.00999 mg/L	0.001194	11.96%
Zn 206.200†	1312.9	0.0142 mg/L	0.00023	0.0142 mg/L	0.00023	1.61%
K 766.490†	4020.2	1.08 mg/L	0.015	1.08 mg/L	0.015	1.35%
Na 589.592†	1909899.5	83.6 mg/L	0.18	83.6 mg/L	0.18	0.21%
Sr 407.771†	347351.6	0.122 mg/L	0.0003	0.122 mg/L	0.0003	0.23%
Li 670.784†	4854.3	0.0269 mg/L	0.00075	0.0269 mg/L	0.00075	2.77%

Sequence No.: 50

Sample ID: L1207065836 WG404235-01

Analyst: KHR

Initial Sample Wt:

Dilution:

u*sampler Location: 91

a**e Collected: 7/25/2012 8:30:42 PM

a**a Type: Original

n**tial Sample Vol:

a**mple Prep Vol:

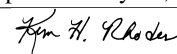
Nebulizer Parameters: L1207065836 WG404235-01

Analyte	Back Pressure	Flow
All	179.0 kPa	0.50 L/min

Mean Data: L1207065836 WG404235-01

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc. Units	Sample Std.Dev.	RSD
Y 371.029	2781693.2					9370.21	0.34%
YRADIAL	327292.4					2832.62	0.87%
Ga 417.206	1563871.9					20850.21	1.33%
GaRADIAL	90760.6					432.65	0.48%
Ag 328.068†	285.4	0.00121 mg/L		0.000356	0.00121 mg/L	0.000356	29.56%
Al 396.153†	300.6	0.0328 mg/L		0.00827	0.0328 mg/L	0.00827	25.23%
As 188.979†	16.4	0.00419 mg/L		0.000373	0.00419 mg/L	0.000373	8.91%
Ba 233.527†	10144.6	0.0440 mg/L		0.00011	0.0440 mg/L	0.00011	0.24%
Be 234.861†	252.0	0.00020 mg/L		0.000034	0.00020 mg/L	0.000034	16.88%
B 249.677†	4159.0	0.0296 mg/L		0.00012	0.0296 mg/L	0.00012	0.39%
Ca 227.546†	9061.6	16.1 mg/L		0.25	16.1 mg/L	0.25	1.53%
Cd 228.802†	19.6	0.00026 mg/L		0.000114	0.00026 mg/L	0.000114	43.89%
Co 228.616†	44.9	0.00068 mg/L		0.000163	0.00068 mg/L	0.000163	23.82%
Cr 267.716†	91.4	0.00006 mg/L		0.000100	0.00006 mg/L	0.000100	170.49%
Cu 327.393†	-38.7	0.00041 mg/L		0.000305	0.00041 mg/L	0.000305	74.98%
Fe 239.562†	3048.0	0.166 mg/L		0.0030	0.166 mg/L	0.0030	1.78%
Mg 279.077†	33736.7	7.97 mg/L		0.035	7.97 mg/L	0.035	0.43%
Mn 257.610†	68192.0	0.0640 mg/L		0.00085	0.0640 mg/L	0.00085	1.33%
Mo 202.031†	56.7	0.00064 mg/L		0.000132	0.00064 mg/L	0.000132	20.66%
Ni 231.604†	125.5	-0.00151 mg/L		0.000134	-0.00151 mg/L	0.000134	8.82%
Pb 220.353†	-39.0	-0.00207 mg/L		0.001239	-0.00207 mg/L	0.001239	59.76%
Sb 206.836†	-5.5	0.00046 mg/L		0.000479	0.00046 mg/L	0.000479	103.25%
Se 196.026†	3.6	0.00176 mg/L		0.003108	0.00176 mg/L	0.003108	176.55%
Si 251.611†	1289735.0	18.7 mg/L		0.24	18.7 mg/L	0.24	1.29%
Sn 189.927†	-174.9	-0.0101 mg/L		0.00024	-0.0101 mg/L	0.00024	2.42%
Ti 334.940†	-2332.0	0.00139 mg/L		0.000197	0.00139 mg/L	0.000197	14.15%
Tl 190.801†	-0.8	-0.00329 mg/L		0.001186	-0.00329 mg/L	0.001186	36.00%

Approved: July 26, 2012



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V 290.880†	2104.1	0.00564 mg/L	0.001401	0.00564 mg/L	0.001401	24.84%
Zn 206.200†	252.7	0.00219 mg/L	0.000154	0.00219 mg/L	0.000154	7.02%
K 766.490†	4420.5	1.19 mg/L	0.031	1.19 mg/L	0.031	2.63%
Na 589.592†	2208396.4	96.9 mg/L	0.49	96.9 mg/L	0.49	0.51%
Sr 407.771†	1557462.2	0.548 mg/L	0.0012	0.548 mg/L	0.0012	0.21%
Li 670.784†	8086.5	0.0478 mg/L	0.00152	0.0478 mg/L	0.00152	3.18%

Sequence No.: 51

Sample ID: L1207065836S WG404235-04

Analyst: KHR

Initial Sample Wt:

Dilution:

u&osampler Location: 92

a&e Collected: 7/25/2012 8:36:42 PM

a&a Type: Original

n&itial Sample Vol:

a&mple Prep Vol:

Nebulizer Parameters: L1207065836S WG404235-04

Analyte	Back Pressure	Flow
All	179.0 kPa	0.50 L/min

Mean Data: L1207065836S WG404235-04

Analyte	Mean Corrected Intensity	Conc. Units	Calib. Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 371.029	2748647.2				21627.45	0.79%
YRADIAL	326854.2				4885.43	1.49%
Ga 417.206	1540140.5				30733.25	2.00%
GaRADIAL	90101.3				194.46	0.22%
Ag 328.068†	78756.6	0.195 mg/L	0.0048	0.195 mg/L	0.0048	2.45%
Al 396.153†	37031.1	5.03 mg/L	0.012	5.03 mg/L	0.012	0.25%
As 188.979†	997.3	0.194 mg/L	0.0020	0.194 mg/L	0.0020	1.01%
Ba 233.527†	124303.5	0.552 mg/L	0.0061	0.552 mg/L	0.0061	1.11%
Be 234.861†	40432.8	0.0241 mg/L	0.00069	0.0241 mg/L	0.00069	2.85%
B 249.677†	144398.2	0.975 mg/L	0.0363	0.975 mg/L	0.0363	3.72%
Ca 227.546†	12083.4	21.6 mg/L	0.55	21.6 mg/L	0.55	2.52%
Cd 228.802†	1820.2	0.0228 mg/L	0.00087	0.0228 mg/L	0.00087	3.84%
Co 228.616†	6048.5	0.102 mg/L	0.0014	0.102 mg/L	0.0014	1.42%
Cr 267.716†	41483.3	0.246 mg/L	0.0010	0.246 mg/L	0.0010	0.41%
Cu 327.393†	75760.2	0.245 mg/L	0.0078	0.245 mg/L	0.0078	3.18%
Fe 239.562†	40135.7	2.17 mg/L	0.018	2.17 mg/L	0.018	0.84%
Mg 279.077†	55886.5	13.2 mg/L	0.12	13.2 mg/L	0.12	0.94%
Mn 257.610†	340289.6	0.321 mg/L	0.0034	0.321 mg/L	0.0034	1.07%
Mo 202.031†	25421.7	0.521 mg/L	0.0047	0.521 mg/L	0.0047	0.90%
Ni 231.604†	24465.3	0.256 mg/L	0.0031	0.256 mg/L	0.0031	1.20%
Pb 220.353†	4772.2	0.252 mg/L	0.0029	0.252 mg/L	0.0029	1.16%
Sb 206.836†	3702.5	0.581 mg/L	0.0167	0.581 mg/L	0.0167	2.88%
Se 196.026†	580.7	0.197 mg/L	0.0058	0.197 mg/L	0.0058	2.93%
Si 251.611†	1528870.2	22.2 mg/L	0.41	22.2 mg/L	0.41	1.83%
Sn 189.927†	8253.3	0.476 mg/L	0.0060	0.476 mg/L	0.0060	1.25%
Ti 334.940†	661313.2	0.508 mg/L	0.0023	0.508 mg/L	0.0023	0.44%
Tl 190.801†	1346.6	0.262 mg/L	0.0011	0.262 mg/L	0.0011	0.44%
V 290.880†	163665.1	0.509 mg/L	0.0033	0.509 mg/L	0.0033	0.65%
Zn 206.200†	44186.9	0.503 mg/L	0.0017	0.503 mg/L	0.0017	0.35%
K 766.490†	85653.7	26.3 mg/L	0.12	26.3 mg/L	0.12	0.45%
Na 589.592†	2834636.0	125 mg/L	1.3	125 mg/L	1.3	1.01%
Sr 407.771†	3056277.2	1.08 mg/L	0.005	1.08 mg/L	0.005	0.49%
Li 670.784†	88617.9	0.567 mg/L	0.0028	0.567 mg/L	0.0028	0.50%

Sequence No.: 52

Sample ID: L1207065836SD WG404235-05

Analyst: KHR

Initial Sample Wt:

Dilution:

u&osampler Location: 93

a&e Collected: 7/25/2012 8:42:41 PM

a&a Type: Original

n&itial Sample Vol:

a&mple Prep Vol:

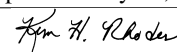
Nebulizer Parameters: L1207065836SD WG404235-05

Analyte	Back Pressure	Flow
All	179.0 kPa	0.50 L/min

Mean Data: L1207065836SD WG404235-05

Analyte	Mean Corrected	Calib.	Sample
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Approved: July 26, 2012



Analyte	Intensity	Conc. Units	Std.Dev.	Conc. Units	Std.Dev.	RSD
Y 371.029	2733906.3				13393.06	0.49%
YRADIAL	324354.7				1503.26	0.46%
Ga 417.206	1527977.2				31804.39	2.08%
GaRADIAL	88908.1				782.01	0.88%
Ag 328.068†	79629.7	0.197 mg/L	0.0049	0.197 mg/L	0.0049	2.50%
Al 396.153†	36957.8	5.02 mg/L	0.014	5.02 mg/L	0.014	0.28%
As 188.979†	1011.3	0.197 mg/L	0.0041	0.197 mg/L	0.0041	2.08%
Ba 233.527†	124747.7	0.554 mg/L	0.0050	0.554 mg/L	0.0050	0.90%
Be 234.861†	40306.2	0.0240 mg/L	0.00074	0.0240 mg/L	0.00074	3.09%
B 249.677†	146199.4	0.988 mg/L	0.0332	0.988 mg/L	0.0332	3.37%
Ca 227.546†	12062.7	21.6 mg/L	0.53	21.6 mg/L	0.53	2.46%
Cd 228.802†	1827.2	0.0228 mg/L	0.00102	0.0228 mg/L	0.00102	4.47%
Co 228.616†	6100.7	0.103 mg/L	0.0002	0.103 mg/L	0.0002	0.16%
Cr 267.716†	42050.3	0.250 mg/L	0.0038	0.250 mg/L	0.0038	1.53%
Cu 327.393†	76177.4	0.246 mg/L	0.0059	0.246 mg/L	0.0059	2.38%
Fe 239.562†	39665.2	2.15 mg/L	0.025	2.15 mg/L	0.025	1.15%
Mg 279.077†	54910.1	13.0 mg/L	0.09	13.0 mg/L	0.09	0.71%
Mn 257.610†	345550.6	0.326 mg/L	0.0042	0.326 mg/L	0.0042	1.29%
Mo 202.031†	24965.0	0.512 mg/L	0.0069	0.512 mg/L	0.0069	1.35%
Ni 231.604†	23833.9	0.250 mg/L	0.0035	0.250 mg/L	0.0035	1.42%
Pb 220.353†	4826.3	0.255 mg/L	0.0025	0.255 mg/L	0.0025	0.97%
Sb 206.836†	3738.1	0.587 mg/L	0.0170	0.587 mg/L	0.0170	2.90%
Se 196.026†	592.2	0.201 mg/L	0.0030	0.201 mg/L	0.0030	1.48%
Si 251.611†	1501374.1	21.8 mg/L	0.37	21.8 mg/L	0.37	1.70%
Sn 189.927†	9334.3	0.539 mg/L	0.0034	0.539 mg/L	0.0034	0.63%
Ti 334.940†	665595.7	0.511 mg/L	0.0008	0.511 mg/L	0.0008	0.16%
Tl 190.801†	1346.7	0.262 mg/L	0.0019	0.262 mg/L	0.0019	0.74%
V 290.880†	166350.6	0.518 mg/L	0.0090	0.518 mg/L	0.0090	1.73%
Zn 206.200†	44944.7	0.511 mg/L	0.0094	0.511 mg/L	0.0094	1.83%
K 766.490†	85665.0	26.3 mg/L	0.13	26.3 mg/L	0.13	0.48%
Na 589.592†	2815781.9	124 mg/L	1.7	124 mg/L	1.7	1.40%
Sr 407.771†	3041407.2	1.07 mg/L	0.012	1.07 mg/L	0.012	1.08%
Li 670.784†	88887.1	0.569 mg/L	0.0072	0.569 mg/L	0.0072	1.26%

Sequence No.: 53
Sample ID: L1207065837
Analyst: KHR
Initial Sample Wt:
Dilution:

u&osampler Location: 94
a&e Collected: 7/25/2012 8:48:43 PM
a&e Type: Original
n&ital Sample Vol:
a∓le Prep Vol:

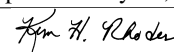
Nebulizer Parameters: L1207065837

Analyte	Back Pressure	Flow
All	179.0 kPa	0.50 L/min

Mean Data: L1207065837

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Conc. Units	Sample Std.Dev.	RSD
Y 371.029	2758572.7					12065.70	0.44%
YRADIAL	337351.6					1042.27	0.31%
Ga 417.206	1559981.5					50659.09	3.25%
GaRADIAL	92161.5					1118.55	1.21%
Ag 328.068†	-2600.8	0.00065 mg/L	0.000338	0.00065 mg/L	0.000338	51.93%	
Al 396.153†	114390.0	15.7 mg/L	0.03	15.7 mg/L	0.03	0.22%	
As 188.979†	5.6	0.00483 mg/L	0.000941	0.00483 mg/L	0.000941	19.48%	
Ba 233.527†	53384.7	0.235 mg/L	0.0015	0.235 mg/L	0.0015	0.64%	
Be 234.861†	8028.3	0.00117 mg/L	0.000123	0.00117 mg/L	0.000123	10.58%	
B 249.677†	5966.8	0.0348 mg/L	0.00191	0.0348 mg/L	0.00191	5.50%	
Ca 227.546†	25686.6	45.9 mg/L	1.75	45.9 mg/L	1.75	3.83%	
Cd 228.802†	86.6	0.00113 mg/L	0.000180	0.00113 mg/L	0.000180	15.95%	
Co 228.616†	358.7	0.00496 mg/L	0.000212	0.00496 mg/L	0.000212	4.27%	
Cr 267.716†	4044.2	0.0232 mg/L	0.00009	0.0232 mg/L	0.00009	0.37%	
Cu 327.393†	3738.3	0.0136 mg/L	0.00083	0.0136 mg/L	0.00083	6.09%	
Fe 239.562†	297510.9	16.1 mg/L	0.03	16.1 mg/L	0.03	0.21%	
Mg 279.077†	119199.9	28.1 mg/L	0.14	28.1 mg/L	0.14	0.49%	
Mn 257.610†	238252.4	0.224 mg/L	0.0014	0.224 mg/L	0.0014	0.62%	
Mo 202.031†	104.3	0.00245 mg/L	0.000056	0.00245 mg/L	0.000056	2.30%	
Ni 231.604†	2300.3	0.0216 mg/L	0.00023	0.0216 mg/L	0.00023	1.08%	
Pb 220.353†	115.7	0.00772 mg/L	0.001171	0.00772 mg/L	0.001171	15.17%	

Approved: July 26, 2012



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Date: 7/25/2012 9:03:01 PM

Sb 206.836†	-12.0	-0.00012 mg/L	0.000700	-0.00012 mg/L	0.000700	575.67%
Se 196.026†	3.2	0.00473 mg/L	0.000744	0.00473 mg/L	0.000744	15.74%
Si 251.611†	3132881.2	45.5 mg/L	1.17	45.5 mg/L	1.17	2.57%
Sn 189.927†	-274.5	-0.0158 mg/L	0.00080	-0.0158 mg/L	0.00080	5.04%
Ti 334.940†	328100.1	0.257 mg/L	0.0006	0.257 mg/L	0.0006	0.25%
Tl 190.801†	-48.7	-0.00909 mg/L	0.001968	-0.00909 mg/L	0.001968	21.63%
V 290.880†	12934.5	0.0368 mg/L	0.00170	0.0368 mg/L	0.00170	4.61%
Zn 206.200†	6012.0	0.0674 mg/L	0.00009	0.0674 mg/L	0.00009	0.14%
K 766.490†	13206.2	3.87 mg/L	0.071	3.87 mg/L	0.071	1.84%
Na 589.592†	3017567.3	133 mg/L	3.6	133 mg/L	3.6	2.66%
Sr 407.771†	3095590.8	1.09 mg/L	0.019	1.09 mg/L	0.019	1.70%
Li 670.784†	13253.6	0.0811 mg/L	0.00034	0.0811 mg/L	0.00034	0.42%

Sequence No.: 54
 Sample ID: L1207067301
 Analyst: KHR
 Initial Sample Wt:
 Dilution:

u\osampler Location: 95
 a\ne Collected: 7/25/2012 8:54:44 PM
 a\na Type: Original
 n\itial Sample Vol:
 a\mple Prep Vol:

Nebulizer Parameters: L1207067301

Analyte	Back Pressure	Flow
All	180.0 kPa	0.50 L/min

Mean Data: L1207067301

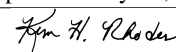
Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	2854008.0						27876.65	0.98%
YRADIAL	325013.5						4970.33	1.53%
Ga 417.206	1637564.6						8590.73	0.52%
GaRADIAL	93463.9						2029.67	2.17%
Ag 328.068†	303.4	0.00124 mg/L	0.000513	0.00124 mg/L	0.000513	41.28%		
Al 396.153†	117.1	0.00740 mg/L	0.001597	0.00740 mg/L	0.001597	21.57%		
As 188.979†	3.2	0.00155 mg/L	0.000809	0.00155 mg/L	0.000809	52.37%		
Ba 233.527†	19246.1	0.0845 mg/L	0.00193	0.0845 mg/L	0.00193	2.28%		
Be 234.861†	118.9	0.00015 mg/L	0.000011	0.00015 mg/L	0.000011	7.33%		
B 249.677†	3767.2	0.0270 mg/L	0.00178	0.0270 mg/L	0.00178	6.61%		
Ca 227.546†	19040.5	33.7 mg/L	0.29	33.7 mg/L	0.29	0.85%		
Cd 228.802†	-1.1	0.00000 mg/L	0.000073	0.00000 mg/L	0.000073	>999.9%		
Co 228.616†	-33.1	-0.00063 mg/L	0.000225	-0.00063 mg/L	0.000225	35.57%		
Cr 267.716†	675.5	0.00354 mg/L	0.000081	0.00354 mg/L	0.000081	2.29%		
Cu 327.393†	-190.8	-0.00008 mg/L	0.000105	-0.00008 mg/L	0.000105	125.84%		
Fe 239.562†	584.8	0.0331 mg/L	0.00076	0.0331 mg/L	0.00076	2.30%		
Mg 279.077†	26002.4	6.14 mg/L	0.083	6.14 mg/L	0.083	1.35%		
Mn 257.610†	1967.8	0.00148 mg/L	0.000038	0.00148 mg/L	0.000038	2.59%		
Mo 202.031†	221.6	0.00400 mg/L	0.000312	0.00400 mg/L	0.000312	7.80%		
Ni 231.604†	-11.5	-0.00297 mg/L	0.000274	-0.00297 mg/L	0.000274	9.25%		
Pb 220.353†	16.7	0.00105 mg/L	0.000487	0.00105 mg/L	0.000487	46.27%		
Sb 206.836†	-2.5	0.00091 mg/L	0.000608	0.00091 mg/L	0.000608	67.03%		
Se 196.026†	7.5	0.00309 mg/L	0.001025	0.00309 mg/L	0.001025	33.18%		
Si 251.611†	972977.4	14.1 mg/L	0.14	14.1 mg/L	0.14	0.99%		
Sn 189.927†	-271.2	-0.0157 mg/L	0.00046	-0.0157 mg/L	0.00046	2.94%		
Ti 334.940†	-6665.4	0.00074 mg/L	0.000145	0.00074 mg/L	0.000145	19.61%		
Tl 190.801†	-23.8	-0.00767 mg/L	0.000702	-0.00767 mg/L	0.000702	9.16%		
V 290.880†	2409.2	0.00665 mg/L	0.001229	0.00665 mg/L	0.001229	18.47%		
Zn 206.200†	846.2	0.00896 mg/L	0.000260	0.00896 mg/L	0.000260	2.90%		
K 766.490†	7084.6	2.09 mg/L	0.021	2.09 mg/L	0.021	0.98%		
Na 589.592†	474419.2	20.5 mg/L	0.44	20.5 mg/L	0.44	2.13%		
Sr 407.771†	1028764.5	0.362 mg/L	0.0118	0.362 mg/L	0.0118	3.27%		
Li 670.784†	1841.5	0.00751 mg/L	0.000394	0.00751 mg/L	0.000394	5.25%		

Sequence No.: 55
 Sample ID: L1207067303
 Analyst: KHR
 Initial Sample Wt:
 Dilution:

u\osampler Location: 96
 a\ne Collected: 7/25/2012 9:01:40 PM
 a\na Type: Original
 n\itial Sample Vol:
 a\mple Prep Vol:

Nebulizer Parameters: L1207067303

Approved: July 26, 2012



Analyte Back Pressure Flow
All 180.0 kPa 0.50 L/min

Mean Data: L1207067303

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc. Units	Sample Std.Dev.	RSD
Y 371.029	2817037.1					18861.46	0.67%
YRADIAL	325001.2					2815.97	0.87%
Ga 417.206	1586778.9					20480.09	1.29%
GaRADIAL	92010.4					471.73	0.51%
Ag 328.068†	761.7	0.00238	mg/L	0.000309	0.00238	0.000309	12.99%
Al 396.153†	-53.0	-0.0157	mg/L	0.00609	-0.0157	0.00609	38.68%
As 188.979†	-3.3	0.00031	mg/L	0.001280	0.00031	0.001280	417.62%
Ba 233.527†	16253.8	0.0712	mg/L	0.00040	0.0712	0.00040	0.56%
Be 234.861†	225.8	0.00017	mg/L	0.000020	0.00017	0.000020	11.66%
B 249.677†	2604.0	0.0190	mg/L	0.00054	0.0190	0.00054	2.82%
Ca 227.546†	40258.1	71.2	mg/L	1.28	71.2	1.28	1.79%
Cd 228.802†	12.5	0.00018	mg/L	0.000044	0.00018	0.000044	23.89%
Co 228.616†	-15.6	-0.00033	mg/L	0.000227	-0.00033	0.000227	69.34%
Cr 267.716†	732.1	0.00387	mg/L	0.000080	0.00387	0.000080	2.07%
Cu 327.393†	-49.4	0.00037	mg/L	0.000165	0.00037	0.000165	44.27%
Fe 239.562†	3360.1	0.183	mg/L	0.0017	0.183	0.0017	0.94%
Mg 279.077†	54725.4	12.9	mg/L	0.17	12.9	0.17	1.31%
Mn 257.610†	792.9	0.00037	mg/L	0.000027	0.00037	0.000027	7.27%
Mo 202.031†	120.3	0.00193	mg/L	0.000138	0.00193	0.000138	7.15%
Ni 231.604†	158.3	-0.00116	mg/L	0.000377	-0.00116	0.000377	32.35%
Pb 220.353†	13.7	0.00118	mg/L	0.000744	0.00118	0.000744	63.14%
Sb 206.836†	-3.0	0.00082	mg/L	0.000764	0.00082	0.000764	92.59%
Se 196.026†	5.8	0.00252	mg/L	0.001733	0.00252	0.001733	68.70%
Si 251.611†	1137733.2	16.5	mg/L	0.31	16.5	0.31	1.86%
Sn 189.927†	-333.9	-0.0193	mg/L	0.00025	-0.0193	0.00025	1.31%
Ti 334.940†	-13977.6	0.00080	mg/L	0.000846	0.00080	0.000846	106.36%
Tl 190.801†	-20.5	-0.00710	mg/L	0.001096	-0.00710	0.001096	15.44%
V 290.880†	2438.0	0.00655	mg/L	0.001464	0.00655	0.001464	22.36%
Zn 206.200†	875.0	0.00928	mg/L	0.000116	0.00928	0.000116	1.25%
K 766.490†	8817.8	2.61	mg/L	0.012	2.61	0.012	0.48%
Na 589.592†	756262.1	32.8	mg/L	0.16	32.8	0.16	0.48%
Sr 407.771†	1699786.6	0.597	mg/L	0.0012	0.597	0.0012	0.19%
Li 670.784†	1800.8	0.00725	mg/L	0.000240	0.00725	0.000240	3.30%

Sequence No.: 56

Sample ID: L1207067301 0.1

Analyst: KHR

Initial Sample Wt:

Dilution:

u&osampler Location: 97

a&e Collected: 7/25/2012 9:07:40 PM

a&a Type: Original

nitial Sample Vol:

a&ple Prep Vol:

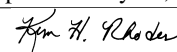
Nebulizer Parameters: L1207067301 0.1

Analyte Back Pressure Flow
All 180.0 kPa 0.50 L/min

Mean Data: L1207067301 0.1

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc. Units	Sample Std.Dev.	RSD
Y 371.029	2871209.6					15507.86	0.54%
YRADIAL	330727.3					5895.48	1.78%
Ga 417.206	1583358.5					15251.83	0.96%
GaRADIAL	92462.9					1890.83	2.04%
Ag 328.068†	-91.6	0.00032	mg/L	0.000521	0.00032	0.000521	163.27%
Al 396.153†	-58.9	-0.0164	mg/L	0.00648	-0.0164	0.00648	39.50%
As 188.979†	3.7	0.00166	mg/L	0.001015	0.00166	0.001015	61.22%
Ba 233.527†	1903.2	0.00738	mg/L	0.000161	0.00738	0.000161	2.18%
Be 234.861†	153.1	0.00017	mg/L	0.000010	0.00017	0.000010	6.01%
B 249.677†	412.7	0.00432	mg/L	0.000103	0.00432	0.000103	2.38%
Ca 227.546†	1940.2	3.48	mg/L	0.044	3.48	0.044	1.27%
Cd 228.802†	-3.8	-0.00003	mg/L	0.000122	-0.00003	0.000122	364.26%
Co 228.616†	-18.8	-0.00038	mg/L	0.000058	-0.00038	0.000058	15.02%
Cr 267.716†	59.8	-0.00013	mg/L	0.000040	-0.00013	0.000040	31.24%
Cu 327.393†	-177.1	-0.00004	mg/L	0.000592	-0.00004	0.000592	>999.9%

Approved: July 26, 2012



Method: 200.7-6010 PE-ICP2.1

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Date: 7/25/2012 9:21:30 PM

Fe 239.562†	154.8	0.00991 mg/L	0.000490	0.00991 mg/L	0.000490	4.94%
Mg 279.077†	2632.6	0.634 mg/L	0.0148	0.634 mg/L	0.0148	2.34%
Mn 257.610†	907.8	0.00048 mg/L	0.000060	0.00048 mg/L	0.000060	12.58%
Mo 202.031†	11.6	-0.00031 mg/L	0.000190	-0.00031 mg/L	0.000190	61.68%
Ni 231.604†	14.7	-0.00269 mg/L	0.000205	-0.00269 mg/L	0.000205	7.63%
Pb 220.353†	3.5	0.00011 mg/L	0.000872	0.00011 mg/L	0.000872	777.23%
Sb 206.836†	-4.2	0.00066 mg/L	0.000384	0.00066 mg/L	0.000384	57.68%
Se 196.026†	-3.0	-0.00047 mg/L	0.001234	-0.00047 mg/L	0.001234	263.63%
Si 251.611†	101265.7	1.48 mg/L	0.020	1.48 mg/L	0.020	1.34%
Sn 189.927†	-63.3	-0.00366 mg/L	0.000253	-0.00366 mg/L	0.000253	6.92%
Ti 334.940†	-930.7	0.00057 mg/L	0.000016	0.00057 mg/L	0.000016	2.77%
Tl 190.801†	3.8	-0.00236 mg/L	0.000892	-0.00236 mg/L	0.000892	37.83%
V 290.880†	530.5	0.00094 mg/L	0.001384	0.00094 mg/L	0.001384	147.34%
Zn 206.200†	54.1	-0.00006 mg/L	0.000098	-0.00006 mg/L	0.000098	168.63%
K 766.490†	810.7	0.171 mg/L	0.0194	0.171 mg/L	0.0194	11.35%
Na 589.592†	50095.3	2.13 mg/L	0.133	2.13 mg/L	0.133	6.24%
Sr 407.771†	103865.4	0.0368 mg/L	0.00029	0.0368 mg/L	0.00029	0.78%
Li 670.784†	149.9	-0.00339 mg/L	0.000720	-0.00339 mg/L	0.000720	21.24%

Sequence No.: 57

Sample ID: L1207067303 0.1

Analyst: KHR

Initial Sample Wt:

Dilution:

uSampler Location: 98

Date Collected: 7/25/2012 9:14:35 PM

Sample Type: Original

Initial Sample Vol:

Sample Prep Vol:

Nebulizer Parameters: L1207067303 0.1

Analyte	Back Pressure	Flow
All	180.0 kPa	0.50 L/min

Mean Data: L1207067303 0.1

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Sample Conc.	Std.Dev.	RSD
Y 371.029	2904927.4					21777.32	0.75%
YRADIAL	322721.9					4186.13	1.30%
Ga 417.206	1628837.5					27503.06	1.69%
GaRADIAL	91759.5					1628.03	1.77%
Ag 328.068†	-115.1	0.00026 mg/L	0.000160	0.00026 mg/L	0.000160	61.30%	
Al 396.153†	-118.1	-0.0245 mg/L	0.00269	-0.0245 mg/L	0.00269	10.97%	
As 188.979†	1.4	0.00121 mg/L	0.000847	0.00121 mg/L	0.000847	69.83%	
Ba 233.527†	1500.3	0.00558 mg/L	0.000153	0.00558 mg/L	0.000153	2.74%	
Be 234.861†	169.2	0.00018 mg/L	0.000021	0.00018 mg/L	0.000021	11.96%	
B 249.677†	200.4	0.00288 mg/L	0.000166	0.00288 mg/L	0.000166	5.75%	
Ca 227.546†	3655.8	6.51 mg/L	0.170	6.51 mg/L	0.170	2.61%	
Cd 228.802†	-10.4	-0.00012 mg/L	0.000047	-0.00012 mg/L	0.000047	40.95%	
Co 228.616†	-20.3	-0.00041 mg/L	0.000236	-0.00041 mg/L	0.000236	58.09%	
Cr 267.716†	45.3	-0.00021 mg/L	0.000087	-0.00021 mg/L	0.000087	40.58%	
Cu 327.393†	-199.4	-0.00011 mg/L	0.000446	-0.00011 mg/L	0.000446	405.78%	
Fe 239.562†	411.7	0.0238 mg/L	0.00201	0.0238 mg/L	0.00201	8.44%	
Mg 279.077†	5990.3	1.43 mg/L	0.085	1.43 mg/L	0.085	5.95%	
Mn 257.610†	738.6	0.00032 mg/L	0.000053	0.00032 mg/L	0.000053	16.70%	
Mo 202.031†	0.5	-0.00054 mg/L	0.000118	-0.00054 mg/L	0.000118	22.08%	
Ni 231.604†	26.7	-0.00256 mg/L	0.000142	-0.00256 mg/L	0.000142	5.55%	
Pb 220.353†	8.0	0.00037 mg/L	0.000827	0.00037 mg/L	0.000827	224.17%	
Sb 206.836†	-3.0	0.00085 mg/L	0.000619	0.00085 mg/L	0.000619	72.53%	
Se 196.026†	-3.1	-0.00051 mg/L	0.001869	-0.00051 mg/L	0.001869	369.04%	
Si 251.611†	110627.0	1.61 mg/L	0.062	1.61 mg/L	0.062	3.85%	
Sn 189.927†	-97.2	-0.00562 mg/L	0.000483	-0.00562 mg/L	0.000483	8.60%	
Ti 334.940†	-1688.1	0.00045 mg/L	0.000092	0.00045 mg/L	0.000092	20.32%	
Tl 190.801†	-1.7	-0.00342 mg/L	0.003070	-0.00342 mg/L	0.003070	89.83%	
V 290.880†	509.5	0.00085 mg/L	0.000562	0.00085 mg/L	0.000562	66.02%	
Zn 206.200†	73.1	0.00016 mg/L	0.000234	0.00016 mg/L	0.000234	150.24%	
K 766.490†	1299.9	0.321 mg/L	0.0209	0.321 mg/L	0.0209	6.51%	
Na 589.592†	83008.0	3.55 mg/L	0.298	3.55 mg/L	0.298	8.39%	
Sr 407.771†	190063.9	0.0671 mg/L	0.00239	0.0671 mg/L	0.00239	3.56%	
Li 670.784†	235.8	-0.00284 mg/L	0.000173	-0.00284 mg/L	0.000173	6.09%	

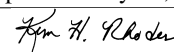
Sequence No.: 58

Sample ID: CCV

uSampler Location: 6

Date Collected: 7/25/2012 9:21:30 PM

Approved: July 26, 2012



Analyst: aha Type: Original
 Initial Sample Wt: nitial Sample Vol:
 Dilution: ample Prep Vol:

Nebulizer Parameters: CCV

Analyte	Back Pressure	Flow
All	180.0 kPa	0.50 L/min

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 371.029	2715734.1				31178.34	1.15%
YRADIAL	329687.9				1187.47	0.36%
Ga 417.206	1411903.7				19744.73	1.40%
GaRADIAL	86828.7				688.08	0.79%
Ag 328.068†	160052.2	0.395 mg/L	0.0050	0.395 mg/L	0.0050	1.26%
QC value within limits for Ag	328.068	Recovery = 98.87%				
Al 396.153†	73647.3	10.0 mg/L	0.04	10.0 mg/L	0.04	0.35%
QC value within limits for Al	396.153	Recovery = 100.11%				
As 188.979†	2211.3	0.431 mg/L	0.0080	0.431 mg/L	0.0080	1.87%
QC value within limits for As	188.979	Recovery = 107.65%				
Ba 233.527†	228386.0	1.02 mg/L	0.012	1.02 mg/L	0.012	1.18%
QC value within limits for Ba	233.527	Recovery = 101.54%				
Be 234.861†	85163.2	0.0507 mg/L	0.00093	0.0507 mg/L	0.00093	1.84%
QC value within limits for Be	234.861	Recovery = 101.37%				
B 249.677†	74810.1	0.503 mg/L	0.0057	0.503 mg/L	0.0057	1.13%
QC value within limits for B	249.677	Recovery = 100.65%				
Ca 227.546†	5571.3	10.4 mg/L	0.15	10.4 mg/L	0.15	1.44%
QC value within limits for Ca	227.546	Recovery = 103.82%				
Cd 228.802†	3815.5	0.0476 mg/L	0.00140	0.0476 mg/L	0.00140	2.95%
QC value within limits for Cd	228.802	Recovery = 95.13%				
Co 228.616†	12253.1	0.207 mg/L	0.0031	0.207 mg/L	0.0031	1.52%
QC value within limits for Co	228.616	Recovery = 103.32%				
Cr 267.716†	84371.2	0.502 mg/L	0.0031	0.502 mg/L	0.0031	0.62%
QC value within limits for Cr	267.716	Recovery = 100.36%				
Cu 327.393†	153924.0	0.497 mg/L	0.0066	0.497 mg/L	0.0066	1.33%
QC value within limits for Cu	327.393	Recovery = 99.34%				
Fe 239.562†	73389.5	3.97 mg/L	0.025	3.97 mg/L	0.025	0.63%
QC value within limits for Fe	239.562	Recovery = 99.34%				
Mg 279.077†	42454.8	10.0 mg/L	0.13	10.0 mg/L	0.13	1.25%
QC value within limits for Mg	279.077	Recovery = 100.38%				
Mn 257.610†	540982.9	0.510 mg/L	0.0050	0.510 mg/L	0.0050	0.99%
QC value within limits for Mn	257.610	Recovery = 102.10%				
Mo 202.031†	50041.7	1.03 mg/L	0.008	1.03 mg/L	0.008	0.82%
QC value within limits for Mo	202.031	Recovery = 102.62%				
Ni 231.604†	50762.1	0.535 mg/L	0.0070	0.535 mg/L	0.0070	1.30%
QC value within limits for Ni	231.604	Recovery = 107.04%				
Pb 220.353†	9852.4	0.521 mg/L	0.0065	0.521 mg/L	0.0065	1.24%
QC value within limits for Pb	220.353	Recovery = 104.21%				
Sb 206.836†	7979.1	1.25 mg/L	0.023	1.25 mg/L	0.023	1.86%
QC value within limits for Sb	206.836	Recovery = 104.24%				
Se 196.026†	1331.1	0.451 mg/L	0.0082	0.451 mg/L	0.0082	1.81%
QC value greater than the upper limit for Se	196.026	Recovery = 112.82%				
Si 251.611†	355859.2	5.16 mg/L	0.043	5.16 mg/L	0.043	0.83%
QC value within limits for Si	251.611	Recovery = 103.24%				
Sn 189.927†	18458.8	1.06 mg/L	0.015	1.06 mg/L	0.015	1.37%
QC value within limits for Sn	189.927	Recovery = 106.49%				
Ti 334.940†	1321530.8	1.01 mg/L	0.005	1.01 mg/L	0.005	0.52%
QC value within limits for Ti	334.940	Recovery = 100.86%				
Tl 190.801†	2740.5	0.536 mg/L	0.0071	0.536 mg/L	0.0071	1.33%
QC value within limits for Tl	190.801	Recovery = 107.13%				
V 290.880†	322177.3	1.00 mg/L	0.007	1.00 mg/L	0.007	0.74%
QC value within limits for V	290.880	Recovery = 100.39%				
Zn 206.200†	92061.1	1.05 mg/L	0.012	1.05 mg/L	0.012	1.15%
QC value within limits for Zn	206.200	Recovery = 104.82%				
K 766.490†	164162.8	50.7 mg/L	0.15	50.7 mg/L	0.15	0.30%
QC value within limits for K	766.490	Recovery = 101.45%				
Na 589.592†	1143255.7	49.7 mg/L	1.77	49.7 mg/L	1.77	3.55%
QC value within limits for Na	589.592	Recovery = 99.41%				
Sr 407.771†	2930316.7	1.03 mg/L	0.020	1.03 mg/L	0.020	1.95%

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QC value within limits for Sr 407.771 Recovery = 103.21%
 Li 670.784† 159747.8 1.03 mg/L 0.017 1.03 mg/L 0.017 1.63%
 QC value within limits for Li 670.784 Recovery = 102.53%
 QC Failed. Continue with analysis.

=====

Sequence No.: 59	u&osampler Location: 1
Sample ID: CCB	ate Collected: 7/25/2012 9:27:34 PM
Analyst:	ata Type: Original
Initial Sample Wt:	nitial Sample Vol:
Dilution:	ample Prep Vol:

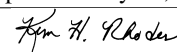
Nebulizer Parameters: CCB

Analyte	Back Pressure	Flow
All	180.0 kPa	0.50 L/min

Mean Data: CCB

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 371.029	2870392.9				26511.43	0.92%
YRADIAL	328964.2				5701.66	1.73%
Ga 417.206	1497942.1				23998.53	1.60%
GaRADIAL	88482.8				2650.01	2.99%
Ag 328.068†	-63.4	0.00040 mg/L	0.000181	0.00040 mg/L	0.000181	45.79%
QC value within limits for Ag 328.068		Recovery =	Not calculated			
Al 396.153†	-9.2	-0.00965 mg/L	0.001203	-0.00965 mg/L	0.001203	12.47%
QC value within limits for Al 396.153		Recovery =	Not calculated			
As 188.979†	0.5	0.00103 mg/L	0.001138	0.00103 mg/L	0.001138	110.67%
QC value within limits for As 188.979		Recovery =	Not calculated			
Ba 233.527†	-25.8	-0.00121 mg/L	0.000092	-0.00121 mg/L	0.000092	7.62%
QC value within limits for Ba 233.527		Recovery =	Not calculated			
Be 234.861†	-157.7	-0.00001 mg/L	0.000016	-0.00001 mg/L	0.000016	116.11%
QC value within limits for Be 234.861		Recovery =	Not calculated			
B 249.677†	3833.6	0.0274 mg/L	0.00120	0.0274 mg/L	0.00120	4.37%
QC value within limits for B 249.677		Recovery =	Not calculated			
Ca 227.546†	2.8	0.0501 mg/L	0.01266	0.0501 mg/L	0.01266	25.25%
QC value within limits for Ca 227.546		Recovery =	Not calculated			
Cd 228.802†	9.6	0.00014 mg/L	0.000124	0.00014 mg/L	0.000124	87.02%
QC value within limits for Cd 228.802		Recovery =	Not calculated			
Co 228.616†	-16.4	-0.00034 mg/L	0.000096	-0.00034 mg/L	0.000096	28.31%
QC value within limits for Co 228.616		Recovery =	Not calculated			
Cr 267.716†	22.2	-0.00035 mg/L	0.000068	-0.00035 mg/L	0.000068	19.38%
QC value within limits for Cr 267.716		Recovery =	Not calculated			
Cu 327.393†	-214.0	-0.00016 mg/L	0.000617	-0.00016 mg/L	0.000617	396.73%
QC value within limits for Cu 327.393		Recovery =	Not calculated			
Fe 239.562†	23.1	0.00279 mg/L	0.000417	0.00279 mg/L	0.000417	14.94%
QC value within limits for Fe 239.562		Recovery =	Not calculated			
Mg 279.077†	0.1	0.0137 mg/L	0.00315	0.0137 mg/L	0.00315	23.05%
QC value within limits for Mg 279.077		Recovery =	Not calculated			
Mn 257.610†	166.0	-0.00022 mg/L	0.000016	-0.00022 mg/L	0.000016	7.16%
QC value within limits for Mn 257.610		Recovery =	Not calculated			
Mo 202.031†	38.9	0.00025 mg/L	0.000091	0.00025 mg/L	0.000091	36.27%
QC value within limits for Mo 202.031		Recovery =	Not calculated			
Ni 231.604†	-29.0	-0.00315 mg/L	0.000340	-0.00315 mg/L	0.000340	10.80%
QC value within limits for Ni 231.604		Recovery =	Not calculated			
Pb 220.353†	-9.9	-0.00062 mg/L	0.000430	-0.00062 mg/L	0.000430	69.36%
QC value within limits for Pb 220.353		Recovery =	Not calculated			
Sb 206.836†	1.4	0.00154 mg/L	0.001411	0.00154 mg/L	0.001411	91.39%
QC value within limits for Sb 206.836		Recovery =	Not calculated			
Se 196.026†	7.8	0.00316 mg/L	0.001472	0.00316 mg/L	0.001472	46.61%
QC value within limits for Se 196.026		Recovery =	Not calculated			
Si 251.611†	612.8	0.0148 mg/L	0.00143	0.0148 mg/L	0.00143	9.72%
QC value within limits for Si 251.611		Recovery =	Not calculated			
Sn 189.927†	18.8	0.00108 mg/L	0.000497	0.00108 mg/L	0.000497	46.10%
QC value within limits for Sn 189.927		Recovery =	Not calculated			
Ti 334.940†	189.5	0.00091 mg/L	0.000028	0.00091 mg/L	0.000028	3.09%
QC value within limits for Ti 334.940		Recovery =	Not calculated			
Tl 190.801†	-10.7	-0.00511 mg/L	0.001738	-0.00511 mg/L	0.001738	34.01%
QC value within limits for Tl 190.801		Recovery =	Not calculated			
V 290.880†	1088.7	0.00270 mg/L	0.000905	0.00270 mg/L	0.000905	33.53%

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	QC value within limits for V 290.880	Recovery = Not calculated				
Zn 206.200†	-86.7	-0.00166 mg/L	0.000044	-0.00166 mg/L	0.000044	2.66%
	QC value within limits for Zn 206.200	Recovery = Not calculated				
K 766.490†	46.1	-0.0628 mg/L	0.04007	-0.0628 mg/L	0.04007	63.86%
	QC value within limits for K 766.490	Recovery = Not calculated				
Na 589.592†	-47.2	-0.0294 mg/L	0.00712	-0.0294 mg/L	0.00712	24.19%
	QC value within limits for Na 589.592	Recovery = Not calculated				
Sr 407.771†	353.2	0.00045 mg/L	0.000027	0.00045 mg/L	0.000027	6.05%
	QC value within limits for Sr 407.771	Recovery = Not calculated				
Li 670.784†	46.8	-0.00405 mg/L	0.000055	-0.00405 mg/L	0.000055	1.35%
	QC value within limits for Li 670.784	Recovery = Not calculated				

All analyte(s) passed QC.

Approved: July 26, 2012

Ken H. Rhodes

Reprocessing Begun

Logged In Analyst: peicp2

Technique: ICP Continuous

Results Data Set (original): 072612H2

Results Library (original): C:\pe\peicp2\Results\Results.mdb

Results Data Set (reprocessed): 072612H2R

Results Library (reprocessed): C:\pe\peicp2\Results\Results.mdb

Sequence No.: 1

Sampler Location: 1

Sample ID: S0

Date Collected: 7/26/2012 12:07:39 PM

Analyst:

Data Type: Reprocessed on 7/26/2012 1:45:25 PM

Logged In Analyst (Original) : peicp2

Initial Sample Wt:

Initial Sample Vol:

Dilution:

Sample Prep Vol:

Nebulizer Parameters: S0

Analyte	Back Pressure	Flow
All	157.0 kPa	0.50 L/min

Mean Data: S0

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Calib Conc. Units
Y 371.029	2397594.5	21155.26	0.88%	
YRADIAL	297454.3	3904.40	1.31%	
Ga 417.206	1300912.2	25848.44	1.99%	
GaRADIAL	83853.2	1952.63	2.33%	
Ag 328.068†	-1.5	154.60	>999.9%	[0.00] mg/L
Al 396.153†	15.9	20.86	131.38%	[0.00] mg/L
As 188.979†	-25.3	2.24	8.84%	[0.00] mg/L
Ba 233.527†	-195.6	4.06	2.08%	[0.00] mg/L
Be 234.861†	-1612.7	31.23	1.94%	[0.00] mg/L
B 249.677†	300.7	14.92	4.96%	[0.00] mg/L
Ca 227.546†	-33.9	17.39	51.34%	[0.00] mg/L
Cd 228.802†	34.8	5.38	15.44%	[0.00] mg/L
Co 228.616†	-15.8	11.43	72.21%	[0.00] mg/L
Cr 267.716†	172.4	18.06	10.47%	[0.00] mg/L
Cu 327.393†	-669.2	134.06	20.03%	[0.00] mg/L
Fe 239.562†	-0.5	8.23	>999.9%	[0.00] mg/L
Mg 279.077†	64.7	7.27	11.24%	[0.00] mg/L
Mn 257.610†	324.7	11.37	3.50%	[0.00] mg/L
Mo 202.031†	73.9	11.34	15.33%	[0.00] mg/L
Ni 231.604†	-220.4	7.43	3.37%	[0.00] mg/L
Pb 220.353†	-55.0	10.40	18.90%	[0.00] mg/L
Sb 206.836†	13.4	2.90	21.58%	[0.00] mg/L
Se 196.026†	23.3	6.17	26.46%	[0.00] mg/L
Si 251.611†	798.0	39.16	4.91%	[0.00] mg/L
Sn 189.927†	16.8	4.42	26.23%	[0.00] mg/L
Ti 334.940†	632.5	60.00	9.49%	[0.00] mg/L
Tl 190.801†	-76.2	6.99	9.18%	[0.00] mg/L
V 290.880†	8837.8	256.40	2.90%	[0.00] mg/L
Zn 206.200†	3.0	3.20	106.32%	[0.00] mg/L
K 766.490†	-156.5	78.13	49.93%	[0.00] mg/L
Na 589.592†	946.9	70.71	7.47%	[0.00] mg/L
Sr 407.771†	-399.3	38.24	9.58%	[0.00] mg/L
Li 670.784†	-97.3	35.55	36.54%	[0.00] mg/L

Sequence No.: 2

Sampler Location: 2

Sample ID: S1

Date Collected: 7/26/2012 12:14:43 PM

Analyst:

Data Type: Reprocessed on 7/26/2012 1:45:27 PM

Logged In Analyst (Original) : peicp2

Initial Sample Wt:

Initial Sample Vol:

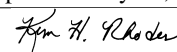
Dilution:

Sample Prep Vol:

Nebulizer Parameters: S1

Analyte	Back Pressure	Flow
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Approved: July 27, 2012



All 157.0 kPa 0.50 L/min

Mean Data: S1

Analyte	Mean Corrected			RSD	Calib Conc. Units
	Intensity	Std.Dev.			
Y 371.029	2408677.4	24756.17	1.03%		
YRADIAL	298981.2	3326.88	1.11%		
Ga 417.206	1295116.3	20060.97	1.55%		
GaRADIAL	84013.6	1853.38	2.21%		
Ag 328.068†	1206.7	72.11	5.98%	[0.0040]	mg/L
Al 396.153†	694.0	9.52	1.37%	[0.10]	mg/L
Ba 233.527†	1708.3	12.89	0.75%	[0.010]	mg/L
Be 234.861†	562.1	24.34	4.33%	[0.0005]	mg/L
Cd 228.802†	27.0	8.95	33.18%	[0.00050]	mg/L
Co 228.616†	75.5	5.74	7.59%	[0.0020]	mg/L
Cr 267.716†	640.3	19.90	3.11%	[0.0050]	mg/L
Cu 327.393†	1235.0	47.03	3.81%	[0.0050]	mg/L
Fe 239.562†	579.0	4.81	0.83%	[0.040]	mg/L
Mg 279.077†	310.3	6.48	2.09%	[0.10]	mg/L
Mn 257.610†	4293.9	33.50	0.78%	[0.0050]	mg/L
Mo 202.031†	366.4	12.57	3.43%	[0.010]	mg/L
Ni 231.604†	364.1	15.42	4.23%	[0.0050]	mg/L
Pb 220.353†	62.3	18.50	29.71%	[0.0050]	mg/L
Sb 206.836†	54.5	1.30	2.39%	[0.012]	mg/L
Si 251.611†	3326.1	1256.69	37.78%	[0.050]	mg/L
Sn 189.927†	133.5	9.28	6.95%	[0.010]	mg/L
Ti 334.940†	10481.4	150.99	1.44%	[0.010]	mg/L
V 290.880†	2386.9	91.88	3.85%	[0.010]	mg/L
Zn 206.200†	585.5	10.43	1.78%	[0.010]	mg/L
K 766.490†	1776.5	24.77	1.39%	[0.50]	mg/L
Na 589.592†	10199.7	302.60	2.97%	[0.50]	mg/L
Sr 407.771†	26590.7	845.67	3.18%	[0.010]	mg/L
Li 670.784†	1656.0	79.86	4.82%	[0.010]	mg/L

=====

Sequence No.: 3

u&osampler Location: 3

Sample ID: S2

a&e Collected: 7/26/2012 12:21:50 PM

Analyst:

a&a Type: Reprocessed on 7/26/2012 1:45:28 PM

Logged In Analyst (Original) : peicp2

Initial Sample Wt:

nitial Sample Vol:

Dilution:

a&ple Prep Vol:

Nebulizer Parameters: S2

Analyte	Back Pressure	Flow
All	157.0 kPa	0.50 L/min

Mean Data: S2

Analyte	Mean Corrected			RSD	Calib Conc. Units
	Intensity	Std.Dev.			
Y 371.029	2430965.8	17583.05	0.72%		
YRADIAL	297193.0	3182.25	1.07%		
Ga 417.206	1328969.6	4280.30	0.32%		
GaRADIAL	84086.7	2119.33	2.52%		
Ag 328.068†	2399.1	139.35	5.81%	[0.0080]	mg/L
Al 396.153†	1377.4	11.48	0.83%	[0.20]	mg/L
As 188.979†	32.9	1.90	5.76%	[0.0080]	mg/L
Ba 233.527†	3429.8	28.14	0.82%	[0.020]	mg/L
Be 234.861†	1156.7	13.14	1.14%	[0.0010]	mg/L
B 249.677†	1117.8	229.64	20.54%	[0.010]	mg/L
Ca 227.546†	82.2	8.51	10.34%	[0.20]	mg/L
Cd 228.802†	55.9	1.64	2.93%	[0.0010]	mg/L
Co 228.616†	168.9	4.59	2.72%	[0.0040]	mg/L
Cr 267.716†	1290.6	19.01	1.47%	[0.010]	mg/L
Cu 327.393†	2562.4	54.62	2.13%	[0.010]	mg/L
Fe 239.562†	1163.2	8.41	0.72%	[0.080]	mg/L
Mg 279.077†	659.5	16.31	2.47%	[0.20]	mg/L
Mn 257.610†	8286.2	108.63	1.31%	[0.010]	mg/L
Mo 202.031†	742.8	7.60	1.02%	[0.020]	mg/L
Ni 231.604†	721.9	17.31	2.40%	[0.010]	mg/L

Approved: July 27, 2012

Ann H. Rhodes

Method: 200.7-6010 PE-ICP2.1

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Date: 7/26/2012 1:45:30 PM

Pb 220.353†	126.3	14.02	11.10%	[0.010]	mg/L
Sb 206.836†	111.2	3.26	2.93%	[0.024]	mg/L
Se 196.026†	12.8	4.96	38.65%	[0.0080]	mg/L
Si 251.611†	5072.2	119.98	2.37%	[0.10]	mg/L
Sn 189.927†	251.8	12.99	5.16%	[0.020]	mg/L
Ti 334.940†	20645.1	244.29	1.18%	[0.020]	mg/L
Tl 190.801†	35.1	8.78	25.02%	[0.010]	mg/L
V 290.880†	4893.4	45.61	0.93%	[0.020]	mg/L
Zn 206.200†	1163.5	12.23	1.05%	[0.020]	mg/L
K 766.490†	3324.1	17.48	0.53%	[1.00]	mg/L
Na 589.592†	20202.7	521.46	2.58%	[1.00]	mg/L
Sr 407.771†	53495.5	1719.69	3.21%	[0.020]	mg/L
Li 670.784†	3194.6	85.32	2.67%	[0.020]	mg/L

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Sequence No.: 4                               uosampler Location: 4
Sample ID: S3                                 ahe Collected: 7/26/2012 12:28:56 PM
Analyst:                                       aha Type: Reprocessed on 7/26/2012 1:45:29 PM
Logged In Analyst (Original) : peicp2
Initial Sample Wt:                             nitial Sample Vol:
Dilution:                                     aample Prep Vol:
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Nebulizer Parameters: S3

Analyte	Back Pressure	Flow
All	157.0 kPa	0.50 L/min

Mean Data: S3

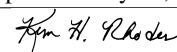
Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Calib Conc. Units
Y 371.029	2331486.4	2532.21	0.11%	
YRADIAL	298966.2	2198.59	0.74%	
Ga 417.206	1281951.8	26474.54	2.07%	
GaRADIAL	84141.9	525.77	0.62%	
Ag 328.068†	124322.4	2498.34	2.01%	[0.40] mg/L
Al 396.153†	67126.8	161.53	0.24%	[10.00] mg/L
As 188.979†	1392.5	36.35	2.61%	[0.40] mg/L
Ba 233.527†	167339.9	204.20	0.12%	[1.00] mg/L
Be 234.861†	58407.2	933.31	1.60%	[0.05] mg/L
B 249.677†	53741.9	1043.27	1.94%	[0.50] mg/L
Ca 227.546†	4386.5	136.65	3.12%	[10.00] mg/L
Cd 228.802†	2703.0	117.67	4.35%	[0.05] mg/L
Co 228.616†	8818.4	30.17	0.34%	[0.20] mg/L
Cr 267.716†	61917.0	190.61	0.31%	[0.50] mg/L
Cu 327.393†	126007.1	2474.59	1.96%	[0.50] mg/L
Fe 239.562†	58070.4	327.19	0.56%	[4.00] mg/L
Mg 279.077†	32716.1	18.10	0.06%	[10.00] mg/L
Mn 257.610†	407207.3	2344.21	0.58%	[0.50] mg/L
Mo 202.031†	37308.7	221.26	0.59%	[1.00] mg/L
Ni 231.604†	35670.5	92.59	0.26%	[0.50] mg/L
Pb 220.353†	6871.9	17.54	0.26%	[0.50] mg/L
Sb 206.836†	5555.5	164.52	2.96%	[1.20] mg/L
Se 196.026†	810.4	18.04	2.23%	[0.40] mg/L
Si 251.611†	252295.9	3307.85	1.31%	[5.00] mg/L
Sn 189.927†	12325.1	13.96	0.11%	[1.00] mg/L
Ti 334.940†	1036381.7	2011.70	0.19%	[1.00] mg/L
Tl 190.801†	2015.0	22.03	1.09%	[0.50] mg/L
V 290.880†	246144.0	982.53	0.40%	[1.00] mg/L
Zn 206.200†	57523.1	239.78	0.42%	[1.00] mg/L
K 766.490†	150272.6	919.71	0.61%	[50.00] mg/L
Na 589.592†	994974.4	2537.89	0.26%	[50.00] mg/L
Sr 407.771†	2586137.4	3890.62	0.15%	[1.00] mg/L
Li 670.784†	152127.8	482.61	0.32%	[1.00] mg/L

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Sequence No.: 5                               uosampler Location: 5
Sample ID: S4                                 ahe Collected: 7/26/2012 12:35:06 PM
Analyst:                                       aha Type: Reprocessed on 7/26/2012 1:45:30 PM
Logged In Analyst (Original) : peicp2
Initial Sample Wt:                             nitial Sample Vol:
Dilution:                                     aample Prep Vol:
=====

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Approved: July 27, 2012



Nebulizer Parameters: S4

Analyte	Back Pressure	Flow
All	157.0 kPa	0.50 L/min

Mean Data: S4

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Calib Conc. Units
Y 371.029	2298802.2	17416.04	0.76%	
YRADIAL	291884.4	2432.90	0.83%	
Ga 417.206	1259966.5	14053.69	1.12%	
GaRADIAL	83802.0	265.32	0.32%	
Ag 328.068†	250395.1	3223.76	1.29%	[0.80] mg/L
Al 396.153†	134359.4	394.73	0.29%	[20.00] mg/L
As 188.979†	2816.4	33.35	1.18%	[0.80] mg/L
Ba 233.527†	330766.5	2719.60	0.82%	[2.00] mg/L
Be 234.861†	117544.7	1611.33	1.37%	[0.10] mg/L
B 249.677†	108817.5	1641.87	1.51%	[1.00] mg/L
Ca 227.546†	8965.1	149.11	1.66%	[20.00] mg/L
Cd 228.802†	5404.1	170.38	3.15%	[0.10] mg/L
Co 228.616†	17422.6	124.13	0.71%	[0.40] mg/L
Cr 267.716†	123198.5	644.71	0.52%	[1.00] mg/L
Cu 327.393†	253665.1	3241.69	1.28%	[1.00] mg/L
Fe 239.562†	117180.6	1281.12	1.09%	[8.00] mg/L
Mg 279.077†	66841.4	384.24	0.57%	[20.00] mg/L
Mn 257.610†	806301.2	8088.65	1.00%	[1.00] mg/L
Mo 202.031†	74090.1	303.10	0.41%	[2.00] mg/L
Ni 231.604†	68345.6	457.58	0.67%	[1.00] mg/L
Pb 220.353†	13577.7	38.71	0.29%	[1.00] mg/L
Sb 206.836†	11165.6	215.00	1.93%	[2.40] mg/L
Se 196.026†	1640.5	21.87	1.33%	[0.80] mg/L
Si 251.611†	506168.9	3921.62	0.77%	[10.00] mg/L
Sn 189.927†	24454.2	153.77	0.63%	[2.00] mg/L
Ti 334.940†	2074117.3	13478.81	0.65%	[2.00] mg/L
Tl 190.801†	3908.2	37.02	0.95%	[1.00] mg/L
V 290.880†	488855.5	3706.98	0.76%	[2.00] mg/L
Zn 206.200†	114044.7	719.74	0.63%	[2.00] mg/L
K 766.490†	300278.5	931.22	0.31%	[100.00] mg/L
Na 589.592†	1944078.0	19695.99	1.01%	[100.00] mg/L
Sr 407.771†	5167505.3	18325.82	0.35%	[2.00] mg/L
Li 670.784†	297790.1	2736.68	0.92%	[2.00] mg/L

Calibration Summary

Analyte	Stds.	Equation	Intercept	Slope	Curvature	Corr. Coef.	Reslope
Ag 328.068	4	Lin, Calc Int	-156.0	312800	0.00000	0.999994	
Al 396.153	4	Lin, Calc Int	10.9	6716	0.00000	1.000000	
As 188.979	3	Wt. Lin	5.0	3492	0.00000	0.999978	
Ba 233.527	4	Lin, Calc Int	298.9	165600	0.00000	0.999984	
Be 234.861	4	Lin, Calc Int	-59.4	1175000	0.00000	0.999996	
B 249.677	3	Lin, Calc Int	-107.9	108700	0.00000	0.999979	
Ca 227.546	3	Lin, Calc Int	-20.9	447.6	0.00000	0.999940	
Cd 228.802	4	Lin, Calc Int	0.7	54040	0.00000	1.000000	
Co 228.616	4	Lin, Calc Int	8.1	43640	0.00000	0.999981	
Cr 267.716	4	Lin, Calc Int	65.5	123200	0.00000	0.999997	
Cu 327.393	4	Lin, Calc Int	-105.2	253500	0.00000	0.999995	
Fe 239.562	4	Lin, Calc Int	-69.6	14630	0.00000	0.999991	
Mg 279.077	4	Lin, Calc Int	-98.1	3334	0.00000	0.999948	
Mn 257.610	4	Lin, Calc Int	657.3	807100	0.00000	0.999988	
Mo 202.031	4	Lin, Calc Int	32.1	37080	0.00000	0.999994	
Ni 231.604	4	Lin, Calc Int	205.6	68700	0.00000	0.999777	
Pb 220.353	4	Lin, Calc Int	5.6	13600	0.00000	0.999981	
Sb 206.836	4	Lin, Calc Int	-4.0	4650	0.00000	0.999997	
Se 196.026	3	Wt. Lin	-3.5	2045	0.00000	0.999987	
Si 251.611	4	Lin, Calc Int	154.9	50570	0.00000	0.999997	
Sn 189.927	4	Lin, Calc Int	18.0	12240	0.00000	0.999993	
Ti 334.940	4	Lin, Calc Int	-79.5	1037000	0.00000	1.000000	
Tl 190.801	3	Lin, Calc Int	9.3	3921	0.00000	0.999866	
V 290.880	4	Lin, Calc Int	197.3	244700	0.00000	0.999994	

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Zn 206.200	4	Lin, Calc Int	74.3	57080	0.00000	0.999991
K 766.490	4	Non Lin, Calc Int	197.3	3002	-0.01678	1.000000
Na 589.592	4	Non Lin, Calc Int	-41.0	20360	-9.18103	1.000000
Sr 407.771	4	Lin, Calc Int	1102.0	2584000	0.00000	1.000000
Li 670.784	4	Lin, Calc Int	522.7	149200	0.00000	0.999946

Sequence No.: 6

Sampler Location: 11

Sample ID: ICV 2nd Vendor

Date Collected: 7/26/2012 12:41:18 PM

Analyst:

Date Type: Reprocessed on 7/26/2012 1:45:31 PM

Logged In Analyst (Original) : peicp2

Initial Sample Wt:

Initial Sample Vol:

Dilution:

Sample Prep Vol:

Nebulizer Parameters: ICV 2nd Vendor

Analyte	Back Pressure	Flow
All	157.0 kPa	0.50 L/min

Mean Data: ICV 2nd Vendor

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 371.029	2332586.5				32305.05	1.38%
YRADIAL	303322.6				3481.72	1.15%
Ga 417.206	1297999.7				23898.23	1.84%
GaRADIAL	84970.4				1301.26	1.53%
Ag 328.068†	120853.1	0.390 mg/L	0.0068	0.390 mg/L	0.0068	1.74%
QC value within limits for Ag 328.068						Recovery = 97.57%
Al 396.153†	68136.0	10.1 mg/L	0.03	10.1 mg/L	0.03	0.26%
QC value within limits for Al 396.153						Recovery = 100.76%
As 188.979†	1397.4	0.394 mg/L	0.0047	0.394 mg/L	0.0047	1.20%
QC value within limits for As 188.979						Recovery = 98.48%
Ba 233.527†	170159.5	1.03 mg/L	0.009	1.03 mg/L	0.009	0.91%
QC value within limits for Ba 233.527						Recovery = 102.59%
Be 234.861†	58168.7	0.0491 mg/L	0.00090	0.0491 mg/L	0.00090	1.84%
QC value within limits for Be 234.861						Recovery = 98.13%
B 249.677†	53419.3	0.489 mg/L	0.0116	0.489 mg/L	0.0116	2.37%
QC value within limits for B 249.677						Recovery = 97.72%
Ca 227.546†	4402.3	10.4 mg/L	0.25	10.4 mg/L	0.25	2.39%
QC value within limits for Ca 227.546						Recovery = 103.62%
Cd 228.802†	2683.1	0.0483 mg/L	0.00174	0.0483 mg/L	0.00174	3.60%
QC value within limits for Cd 228.802						Recovery = 96.56%
Co 228.616†	8844.4	0.202 mg/L	0.0025	0.202 mg/L	0.0025	1.25%
QC value within limits for Co 228.616						Recovery = 100.80%
Cr 267.716†	62583.8	0.508 mg/L	0.0049	0.508 mg/L	0.0049	0.97%
QC value within limits for Cr 267.716						Recovery = 101.53%
Cu 327.393†	127533.0	0.505 mg/L	0.0080	0.505 mg/L	0.0080	1.59%
QC value within limits for Cu 327.393						Recovery = 101.02%
Fe 239.562†	58946.7	4.03 mg/L	0.023	4.03 mg/L	0.023	0.57%
QC value within limits for Fe 239.562						Recovery = 100.81%
Mg 279.077†	32915.3	9.92 mg/L	0.083	9.92 mg/L	0.083	0.84%
QC value within limits for Mg 279.077						Recovery = 99.18%
Mn 257.610†	413905.0	0.513 mg/L	0.0056	0.513 mg/L	0.0056	1.10%
QC value within limits for Mn 257.610						Recovery = 102.50%
Mo 202.031†	36617.0	0.987 mg/L	0.0058	0.987 mg/L	0.0058	0.59%
QC value within limits for Mo 202.031						Recovery = 98.75%
Ni 231.604†	36250.3	0.524 mg/L	0.0056	0.524 mg/L	0.0056	1.06%
QC value within limits for Ni 231.604						Recovery = 104.87%
Pb 220.353†	6928.9	0.510 mg/L	0.0058	0.510 mg/L	0.0058	1.14%
QC value within limits for Pb 220.353						Recovery = 102.03%
Sb 206.836†	5662.1	1.22 mg/L	0.025	1.22 mg/L	0.025	2.02%
QC value within limits for Sb 206.836						Recovery = 101.44%
Se 196.026†	825.6	0.407 mg/L	0.0060	0.407 mg/L	0.0060	1.47%
QC value within limits for Se 196.026						Recovery = 101.71%
Si 251.611†	250226.3	4.93 mg/L	0.063	4.93 mg/L	0.063	1.28%
QC value within limits for Si 251.611						Recovery = 98.69%
Sn 189.927†	12641.8	1.03 mg/L	0.011	1.03 mg/L	0.011	1.10%
QC value within limits for Sn 189.927						Recovery = 103.17%
Ti 334.940†	1055619.1	1.02 mg/L	0.007	1.02 mg/L	0.007	0.68%
QC value within limits for Ti 334.940						Recovery = 101.94%
Tl 190.801†	2051.5	0.535 mg/L	0.0067	0.535 mg/L	0.0067	1.25%

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QC value greater than the upper limit for Tl 190.801 Recovery = 107.09%
V 290.880† 246174.6 1.00 mg/L 0.013 1.00 mg/L 0.013 1.30%
QC value within limits for V 290.880 Recovery = 100.46%
Zn 206.200† 58509.3 1.03 mg/L 0.012 1.03 mg/L 0.012 1.14%
QC value within limits for Zn 206.200 Recovery = 102.86%
K 766.490† 151741.9 50.4 mg/L 0.09 50.4 mg/L 0.09 0.18%
QC value within limits for K 766.490 Recovery = 100.88%
Na 589.592† 983879.2 49.4 mg/L 0.59 49.4 mg/L 0.59 1.19%
QC value within limits for Na 589.592 Recovery = 98.86%
Sr 407.771† 2552043.4 0.987 mg/L 0.0125 0.987 mg/L 0.0125 1.27%
QC value within limits for Sr 407.771 Recovery = 98.72%
Li 670.784† 154743.0 1.03 mg/L 0.005 1.03 mg/L 0.005 0.44%
QC value within limits for Li 670.784 Recovery = 103.35%
QC Failed. Continue with analysis.

=====

Sequence No.: 7	u&osampler Location: 1
Sample ID: ICB	date Collected: 7/26/2012 12:47:26 PM
Analyst:	data Type: Reprocessed on 7/26/2012 1:45:33 PM
Logged In Analyst (Original) : peicp2	
Initial Sample Wt:	Initial Sample Vol:
Dilution:	Sample Prep Vol:

Nebulizer Parameters: ICB

Analyte	Back Pressure	Flow
All	157.0 kPa	0.50 L/min

Mean Data: ICB

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 371.029	2432868.8				26394.21	1.08%
YRADIAL	298549.6				4744.76	1.59%
Ga 417.206	1319426.0				21391.61	1.62%
GaRADIAL	84124.9				1755.06	2.09%
Ag 328.068†	26.4	0.00058 mg/L	0.000360	0.00058 mg/L	0.000360	62.01%
QC value within limits for Ag 328.068						Recovery = Not calculated
Al 396.153†	-0.4	-0.00163 mg/L	0.001092	-0.00163 mg/L	0.001092	66.93%
QC value within limits for Al 396.153						Recovery = Not calculated
As 188.979†	2.4	-0.00074 mg/L	0.000761	-0.00074 mg/L	0.000761	102.64%
QC value within limits for As 188.979						Recovery = Not calculated
Ba 233.527†	1.0	-0.00180 mg/L	0.000071	-0.00180 mg/L	0.000071	3.96%
QC value within limits for Ba 233.527						Recovery = Not calculated
Be 234.861†	23.8	0.00007 mg/L	0.000044	0.00007 mg/L	0.000044	63.07%
QC value within limits for Be 234.861						Recovery = Not calculated
B 249.677†	115.1	0.00205 mg/L	0.000217	0.00205 mg/L	0.000217	10.54%
QC value within limits for B 249.677						Recovery = Not calculated
Ca 227.546†	4.1	0.0536 mg/L	0.00944	0.0536 mg/L	0.00944	17.62%
QC value within limits for Ca 227.546						Recovery = Not calculated
Cd 228.802†	-4.3	-0.00009 mg/L	0.000034	-0.00009 mg/L	0.000034	37.85%
QC value within limits for Cd 228.802						Recovery = Not calculated
Co 228.616†	-10.3	-0.00042 mg/L	0.000023	-0.00042 mg/L	0.000023	5.54%
QC value within limits for Co 228.616						Recovery = Not calculated
Cr 267.716†	-0.2	-0.00053 mg/L	0.000092	-0.00053 mg/L	0.000092	17.17%
QC value within limits for Cr 267.716						Recovery = Not calculated
Cu 327.393†	-68.8	0.00014 mg/L	0.000525	0.00014 mg/L	0.000525	364.67%
QC value within limits for Cu 327.393						Recovery = Not calculated
Fe 239.562†	0.6	0.00480 mg/L	0.000454	0.00480 mg/L	0.000454	9.47%
QC value within limits for Fe 239.562						Recovery = Not calculated
Mg 279.077†	-18.3	0.0239 mg/L	0.00141	0.0239 mg/L	0.00141	5.88%
QC value within limits for Mg 279.077						Recovery = Not calculated
Mn 257.610†	34.7	-0.00077 mg/L	0.000007	-0.00077 mg/L	0.000007	0.88%
QC value within limits for Mn 257.610						Recovery = Not calculated
Mo 202.031†	1.8	-0.00082 mg/L	0.000056	-0.00082 mg/L	0.000056	6.84%
QC value within limits for Mo 202.031						Recovery = Not calculated
Ni 231.604†	9.0	-0.00286 mg/L	0.000184	-0.00286 mg/L	0.000184	6.45%
QC value within limits for Ni 231.604						Recovery = Not calculated
Pb 220.353†	-5.9	-0.00085 mg/L	0.000530	-0.00085 mg/L	0.000530	62.43%
QC value within limits for Pb 220.353						Recovery = Not calculated
Sb 206.836†	-3.9	0.00001 mg/L	0.001090	0.00001 mg/L	0.001090	>999.9%
QC value within limits for Sb 206.836						Recovery = Not calculated

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Se 196.026†	-3.7	-0.00008 mg/L	0.000653	-0.00008 mg/L	0.000653	869.50%
QC value within limits for Se 196.026 Recovery = Not calculated						
Si 251.611†	134.7	-0.00039 mg/L	0.002800	-0.00039 mg/L	0.002800	718.56%
QC value within limits for Si 251.611 Recovery = Not calculated						
Sn 189.927†	41.1	0.00189 mg/L	0.000039	0.00189 mg/L	0.000039	2.04%
QC value within limits for Sn 189.927 Recovery = Not calculated						
Ti 334.940†	135.1	0.00022 mg/L	0.000166	0.00022 mg/L	0.000166	76.94%
QC value within limits for Ti 334.940 Recovery = Not calculated						
Tl 190.801†	-0.5	-0.00251 mg/L	0.002203	-0.00251 mg/L	0.002203	87.93%
QC value within limits for Tl 190.801 Recovery = Not calculated						
V 290.880†	-368.7	-0.00231 mg/L	0.000671	-0.00231 mg/L	0.000671	28.98%
QC value within limits for V 290.880 Recovery = Not calculated						
Zn 206.200†	1.5	-0.00128 mg/L	0.000233	-0.00128 mg/L	0.000233	18.19%
QC value within limits for Zn 206.200 Recovery = Not calculated						
K 766.490†	93.7	-0.0345 mg/L	0.01703	-0.0345 mg/L	0.01703	49.32%
QC value within limits for K 766.490 Recovery = Not calculated						
Na 589.592†	191.0	0.0114 mg/L	0.00252	0.0114 mg/L	0.00252	22.11%
QC value within limits for Na 589.592 Recovery = Not calculated						
Sr 407.771†	19.1	-0.00042 mg/L	0.000007	-0.00042 mg/L	0.000007	1.65%
QC value within limits for Sr 407.771 Recovery = Not calculated						
Li 670.784†	169.9	-0.00236 mg/L	0.000478	-0.00236 mg/L	0.000478	20.21%
QC value within limits for Li 670.784 Recovery = Not calculated						
All analyte(s) passed QC.						

Sequence No.: 8

Sample ID: LLICV

Analyst: KHR

Logged In Analyst (Original) : peicp2

Initial Sample Wt:

Dilution:

u&osampler Location: 14

a&e Collected: 7/26/2012 12:54:32 PM

a&a Type: Reprocessed on 7/26/2012 1:45:34 PM

nitial Sample Vol:

a&ple Prep Vol:

Nebulizer Parameters: LLICV

Analyte	Back Pressure	Flow
All	157.0 kPa	0.50 L/min

Mean Data: LLICV

Analyte	Mean Corrected		Calib.		Sample		RSD
	Intensity	Conc. Units	Conc. Units	Std.Dev.	Conc. Units	Std.Dev.	
Y 371.029	2423726.1					9546.34	0.39%
YRADIAL	302857.1					9488.70	3.13%
Ga 417.206	1325105.5					11137.87	0.84%
GaRADIAL	85152.7					931.77	1.09%
Ag 328.068†	1128.9	0.00414 mg/L	0.000173	0.000173	0.00414 mg/L	0.000173	4.17%
Al 396.153†	686.3	0.0999 mg/L	0.00106	0.00106	0.0999 mg/L	0.00106	1.06%
As 188.979†	19.0	0.00398 mg/L	0.000927	0.000927	0.00398 mg/L	0.000927	23.30%
Ba 233.527†	1702.1	0.00847 mg/L	0.000106	0.000106	0.00847 mg/L	0.000106	1.25%
Be 234.861†	578.7	0.00054 mg/L	0.000012	0.000012	0.00054 mg/L	0.000012	2.21%
B 249.677†	575.7	0.00625 mg/L	0.000195	0.000195	0.00625 mg/L	0.000195	3.12%
Ca 227.546†	38.9	0.136 mg/L	0.0145	0.0145	0.136 mg/L	0.0145	10.69%
Cd 228.802†	24.0	0.00042 mg/L	0.000038	0.000038	0.00042 mg/L	0.000038	9.13%
Co 228.616†	81.9	0.00168 mg/L	0.000182	0.000182	0.00168 mg/L	0.000182	10.82%
Cr 267.716†	648.5	0.00473 mg/L	0.000203	0.000203	0.00473 mg/L	0.000203	4.29%
Cu 327.393†	1369.9	0.00584 mg/L	0.000239	0.000239	0.00584 mg/L	0.000239	4.09%
Fe 239.562†	573.2	0.0439 mg/L	0.00106	0.00106	0.0439 mg/L	0.00106	2.41%
Mg 279.077†	310.0	0.123 mg/L	0.0028	0.0028	0.123 mg/L	0.0028	2.25%
Mn 257.610†	4397.5	0.00464 mg/L	0.000025	0.000025	0.00464 mg/L	0.000025	0.54%
Mo 202.031†	367.2	0.00904 mg/L	0.000259	0.000259	0.00904 mg/L	0.000259	2.87%
Ni 231.604†	370.5	0.00240 mg/L	0.000191	0.000191	0.00240 mg/L	0.000191	7.98%
Pb 220.353†	67.8	0.00459 mg/L	0.000493	0.000493	0.00459 mg/L	0.000493	10.75%
Sb 206.836†	54.1	0.0125 mg/L	0.00108	0.00108	0.0125 mg/L	0.00108	8.67%
Se 196.026†	6.7	0.00502 mg/L	0.001735	0.001735	0.00502 mg/L	0.001735	34.57%
Si 251.611†	2864.3	0.0535 mg/L	0.00507	0.00507	0.0535 mg/L	0.00507	9.48%
Sn 189.927†	149.0	0.0107 mg/L	0.00034	0.00034	0.0107 mg/L	0.00034	3.14%
Ti 334.940†	10449.9	0.0102 mg/L	0.00008	0.00008	0.0102 mg/L	0.00008	0.78%
Tl 190.801†	16.5	0.00199 mg/L	0.000944	0.000944	0.00199 mg/L	0.000944	47.34%
V 290.880†	2471.9	0.00929 mg/L	0.000689	0.000689	0.00929 mg/L	0.000689	7.42%
Zn 206.200†	667.5	0.0104 mg/L	0.00010	0.00010	0.0104 mg/L	0.00010	0.99%
K 766.490†	1819.9	0.540 mg/L	0.0147	0.0147	0.540 mg/L	0.0147	2.72%
Na 589.592†	10175.5	0.502 mg/L	0.0132	0.0132	0.502 mg/L	0.0132	2.63%

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Sr 407.771†	26710.1	0.00991 mg/L	0.000274	0.00991 mg/L	0.000274	2.76%
Li 670.784†	1702.7	0.00791 mg/L	0.000207	0.00791 mg/L	0.000207	2.61%

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Sequence No.: 9                               u&osampler Location: 15
Sample ID: LLICV                             a&e Collected: 7/26/2012 1:01:39 PM
Analyst: KHR                                 a&a Type: Reprocessed on 7/26/2012 1:45:35 PM
Logged In Analyst (Original) : peicp2
Initial Sample Wt:                             nitial Sample Vol:
Dilution:                                     a&ple Prep Vol:
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Nebulizer Parameters: LLICV

Analyte	Back Pressure	Flow
All	157.0 kPa	0.50 L/min

Mean Data: LLICV

Analyte	Mean Corrected Intensity	Conc. Units	Calib. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 371.029	6369713.3					97253.08	1.53%
YRADIAL	716124.7					14594.87	2.04%
Ga 417.206	2896484.0					32031.20	1.11%
GaRADIAL	198187.8					2826.41	1.43%
Ag 328.068†	0.2	0.00045 mg/L		0.000135	0.00045 mg/L	0.000135	30.14%
Al 396.153†	-53.7	-0.00950 mg/L		0.000359	-0.00950 mg/L	0.000359	3.77%
As 188.979†	8.9	0.00114 mg/L		0.000933	0.00114 mg/L	0.000933	82.06%
Ba 233.527†	95.3	-0.00122 mg/L		0.000052	-0.00122 mg/L	0.000052	4.21%
Be 234.861†	697.3	0.00064 mg/L		0.000008	0.00064 mg/L	0.000008	1.30%
B 249.677†	-236.3	-0.00117 mg/L		0.000108	-0.00117 mg/L	0.000108	9.21%
Ca 227.546†	0.4	0.0466 mg/L		0.00334	0.0466 mg/L	0.00334	7.15%
Cd 228.802†	-15.7	-0.00031 mg/L		0.000027	-0.00031 mg/L	0.000027	8.85%
Co 228.616†	4.5	-0.00008 mg/L		0.000040	-0.00008 mg/L	0.000040	47.88%
Cr 267.716†	-91.6	-0.00129 mg/L		0.000005	-0.00129 mg/L	0.000005	0.38%
Cu 327.393†	522.1	0.00246 mg/L		0.000118	0.00246 mg/L	0.000118	4.78%
Fe 239.562†	-5.7	0.00437 mg/L		0.000145	0.00437 mg/L	0.000145	3.32%
Mg 279.077†	-54.8	0.0129 mg/L		0.00092	0.0129 mg/L	0.00092	7.14%
Mn 257.610†	-181.3	-0.00104 mg/L		0.000009	-0.00104 mg/L	0.000009	0.91%
Mo 202.031†	-34.1	-0.00180 mg/L		0.000005	-0.00180 mg/L	0.000005	0.28%
Ni 231.604†	119.8	-0.00125 mg/L		0.000023	-0.00125 mg/L	0.000023	1.81%
Pb 220.353†	39.3	0.00246 mg/L		0.000125	0.00246 mg/L	0.000125	5.09%
Sb 206.836†	-1.1	0.00060 mg/L		0.000114	0.00060 mg/L	0.000114	19.00%
Se 196.026†	-9.9	-0.00310 mg/L		0.000166	-0.00310 mg/L	0.000166	5.35%
Si 251.611†	-65.1	-0.00433 mg/L		0.003307	-0.00433 mg/L	0.003307	76.34%
Sn 189.927†	0.4	-0.00144 mg/L		0.000250	-0.00144 mg/L	0.000250	17.44%
Ti 334.940†	-226.3	-0.00013 mg/L		0.000006	-0.00013 mg/L	0.000006	4.21%
Tl 190.801†	37.3	0.00708 mg/L		0.001030	0.00708 mg/L	0.001030	14.54%
V 290.880†	-6130.0	-0.0259 mg/L		0.00027	-0.0259 mg/L	0.00027	1.05%
Zn 206.200†	-6.9	-0.00144 mg/L		0.000013	-0.00144 mg/L	0.000013	0.92%
K 766.490†	169.7	-0.00918 mg/L		0.006756	-0.00918 mg/L	0.006756	73.59%
Na 589.592†	-539.0	-0.0245 mg/L		0.00213	-0.0245 mg/L	0.00213	8.71%
Sr 407.771†	-526.7	-0.00063 mg/L		0.000031	-0.00063 mg/L	0.000031	4.93%
Li 670.784†	49.6	-0.00317 mg/L		0.000113	-0.00317 mg/L	0.000113	3.58%

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Sequence No.: 10                               u&osampler Location: 15
Sample ID: LLICV                             a&e Collected: 7/26/2012 1:09:00 PM
Analyst: KHR                                 a&a Type: Reprocessed on 7/26/2012 1:45:36 PM
Logged In Analyst (Original) : peicp2
Initial Sample Wt:                             nitial Sample Vol:
Dilution:                                     a&ple Prep Vol:
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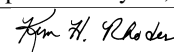
Nebulizer Parameters: LLICV

Analyte	Back Pressure	Flow
All	157.0 kPa	0.50 L/min

Mean Data: LLICV

Analyte	Mean Corrected Intensity	Conc. Units	Calib. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 371.029	2409830.4					11378.32	0.47%

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YRADIAL	304150.3					5534.75	1.82%
Ga 417.206	1321697.3					7649.99	0.58%
GaRADIAL	85830.7					2002.40	2.33%
Ag 328.068†	2485.6	0.00851 mg/L	0.000485	0.00851 mg/L	0.000485	5.69%	
Al 396.153†	1371.7	0.201 mg/L	0.0019	0.201 mg/L	0.0019	0.96%	
As 188.979†	29.4	0.00689 mg/L	0.001037	0.00689 mg/L	0.001037	15.05%	
Ba 233.527†	3460.2	0.0191 mg/L	0.00013	0.0191 mg/L	0.00013	0.69%	
Be 234.861†	1144.7	0.00101 mg/L	0.000021	0.00101 mg/L	0.000021	2.11%	
B 249.677†	1035.0	0.0104 mg/L	0.00131	0.0104 mg/L	0.00131	12.58%	
Ca 227.546†	73.4	0.218 mg/L	0.0020	0.218 mg/L	0.0020	0.90%	
Cd 228.802†	58.5	0.00105 mg/L	0.000116	0.00105 mg/L	0.000116	11.05%	
Co 228.616†	181.7	0.00396 mg/L	0.000039	0.00396 mg/L	0.000039	1.00%	
Cr 267.716†	1301.0	0.0100 mg/L	0.00009	0.0100 mg/L	0.00009	0.94%	
Cu 327.393†	2605.7	0.0107 mg/L	0.00035	0.0107 mg/L	0.00035	3.23%	
Fe 239.562†	1143.2	0.0829 mg/L	0.00042	0.0829 mg/L	0.00042	0.51%	
Mg 279.077†	640.2	0.222 mg/L	0.0034	0.222 mg/L	0.0034	1.55%	
Mn 257.610†	8466.6	0.00969 mg/L	0.000046	0.00969 mg/L	0.000046	0.47%	
Mo 202.031†	751.1	0.0194 mg/L	0.00021	0.0194 mg/L	0.00021	1.10%	
Ni 231.604†	728.0	0.00760 mg/L	0.000095	0.00760 mg/L	0.000095	1.26%	
Pb 220.353†	140.7	0.00995 mg/L	0.000712	0.00995 mg/L	0.000712	7.16%	
Sb 206.836†	107.8	0.0240 mg/L	0.00054	0.0240 mg/L	0.00054	2.27%	
Se 196.026†	21.0	0.0120 mg/L	0.00242	0.0120 mg/L	0.00242	20.12%	
Si 251.611†	5762.9	0.111 mg/L	0.0230	0.111 mg/L	0.0230	20.76%	
Sn 189.927†	269.3	0.0205 mg/L	0.00034	0.0205 mg/L	0.00034	1.68%	
Ti 334.940†	21055.3	0.0204 mg/L	0.00015	0.0204 mg/L	0.00015	0.73%	
Tl 190.801†	33.8	0.00656 mg/L	0.001710	0.00656 mg/L	0.001710	26.08%	
V 290.880†	5079.0	0.0199 mg/L	0.00034	0.0199 mg/L	0.00034	1.72%	
Zn 206.200†	1209.1	0.0200 mg/L	0.00016	0.0200 mg/L	0.00016	0.81%	
K 766.490†	3309.4	1.04 mg/L	0.014	1.04 mg/L	0.014	1.36%	
Na 589.592†	20158.9	0.993 mg/L	0.0236	0.993 mg/L	0.0236	2.38%	
Sr 407.771†	53284.9	0.0202 mg/L	0.00075	0.0202 mg/L	0.00075	3.72%	
Li 670.784†	3210.8	0.0180 mg/L	0.00051	0.0180 mg/L	0.00051	2.81%	

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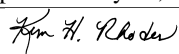
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Sequence No.: 11                               uksampler Location: 12
Sample ID: ICSA                               ame Collected: 7/26/2012 1:16:06 PM
Analyst:                                       ana Type: Reprocessed on 7/26/2012 1:45:37 PM
Logged In Analyst (Original) : peicp2
Initial Sample Wt:                             nitial Sample Vol:
Dilution:                                     ample Prep Vol:
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Nebulizer Parameters: ICSA
Analyte      Back Pressure  Flow
All          157.0 kPa     0.50 L/min
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Mean Data: ICSA

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 371.029	2200968.4				28451.40	1.29%
YRADIAL	289441.1				5318.17	1.84%
Ga 417.206	1275840.4				11721.18	0.92%
GaRADIAL	83213.1				1321.41	1.59%
Ag 328.068†	-13072.9	-0.00326 mg/L	0.001038	-0.00326 mg/L	0.001038	31.89%
QC value within limits for Ag 328.068 Recovery = Not calculated						
Al 396.153†	1665448.4	248 mg/L	6.0	248 mg/L	6.0	2.41%
QC value within limits for Al 396.153 Recovery = 99.19%						
As 188.979†	-18.7	-0.00143 mg/L	0.000410	-0.00143 mg/L	0.000410	28.67%
QC value within limits for As 188.979 Recovery = Not calculated						
Ba 233.527†	782.9	-0.00253 mg/L	0.000234	-0.00253 mg/L	0.000234	9.28%
QC value within limits for Ba 233.527 Recovery = Not calculated						
Be 234.861†	25410.8	0.00018 mg/L	0.000461	0.00018 mg/L	0.000461	254.74%
QC value within limits for Be 234.861 Recovery = Not calculated						
B 249.677†	7551.7	0.0308 mg/L	0.00290	0.0308 mg/L	0.00290	9.40%
QC value within limits for B 249.677 Recovery = Not calculated						
Ca 227.546†	114370.8	258 mg/L	3.6	258 mg/L	3.6	1.41%
QC value within limits for Ca 227.546 Recovery = 103.12%						
Cd 228.802†	0.5	-0.00007 mg/L	0.000129	-0.00007 mg/L	0.000129	175.45%
QC value within limits for Cd 228.802 Recovery = Not calculated						
Co 228.616†	16.2	-0.00215 mg/L	0.000466	-0.00215 mg/L	0.000466	21.70%
QC value within limits for Co 228.616 Recovery = Not calculated						

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Cr	267.716†	-0.2	-0.00167 mg/L	0.000191	-0.00167 mg/L	0.000191	11.41%
	QC value within limits for Cr	267.716	Recovery =	Not calculated			
Cu	327.393†	-1515.7	-0.00109 mg/L	0.000232	-0.00109 mg/L	0.000232	21.33%
	QC value within limits for Cu	327.393	Recovery =	Not calculated			
Fe	239.562†	1350075.6	92.3 mg/L	1.76	92.3 mg/L	1.76	1.91%
	QC value within limits for Fe	239.562	Recovery =	92.27%			
Mg	279.077†	825948.2	248 mg/L	5.1	248 mg/L	5.1	2.05%
	QC value within limits for Mg	279.077	Recovery =	99.09%			
Mn	257.610†	-2586.1	-0.00380 mg/L	0.000513	-0.00380 mg/L	0.000513	13.52%
	QC value within limits for Mn	257.610	Recovery =	Not calculated			
Mo	202.031†	-80.2	0.00150 mg/L	0.000146	0.00150 mg/L	0.000146	9.73%
	QC value within limits for Mo	202.031	Recovery =	Not calculated			
Ni	231.604†	38.9	-0.00242 mg/L	0.000231	-0.00242 mg/L	0.000231	9.53%
	QC value within limits for Ni	231.604	Recovery =	Not calculated			
Pb	220.353†	-443.9	-0.00006 mg/L	0.002998	-0.00006 mg/L	0.002998	>999.9%
	QC value within limits for Pb	220.353	Recovery =	Not calculated			
Sb	206.836†	-18.4	0.00028 mg/L	0.002531	0.00028 mg/L	0.002531	910.88%
	QC value within limits for Sb	206.836	Recovery =	Not calculated			
Se	196.026†	-59.6	-0.00395 mg/L	0.002360	-0.00395 mg/L	0.002360	59.79%
	QC value within limits for Se	196.026	Recovery =	Not calculated			
Si	251.611†	13950.3	0.273 mg/L	0.0052	0.273 mg/L	0.0052	1.89%
	QC value within limits for Si	251.611	Recovery =	Not calculated			
Sn	189.927†	-363.2	-0.0312 mg/L	0.00050	-0.0312 mg/L	0.00050	1.60%
	QC value within limits for Sn	189.927	Recovery =	Not calculated			
Ti	334.940†	-41398.3	-0.00151 mg/L	0.002475	-0.00151 mg/L	0.002475	163.94%
	QC value within limits for Ti	334.940	Recovery =	Not calculated			
Tl	190.801†	-71.4	-0.0143 mg/L	0.00310	-0.0143 mg/L	0.00310	21.66%
	QC value within limits for Tl	190.801	Recovery =	Not calculated			
V	290.880†	3004.8	0.00000 mg/L	0.003300	0.00000 mg/L	0.003300	>999.9%
	QC value within limits for V	290.880	Recovery =	Not calculated			
Zn	206.200†	322.2	0.00258 mg/L	0.000209	0.00258 mg/L	0.000209	8.10%
	QC value within limits for Zn	206.200	Recovery =	Not calculated			
K	766.490†	-185.2	-0.127 mg/L	0.0331	-0.127 mg/L	0.0331	25.98%
	QC value within limits for K	766.490	Recovery =	Not calculated			
Na	589.592†	543.9	0.0287 mg/L	0.00203	0.0287 mg/L	0.00203	7.07%
	QC value within limits for Na	589.592	Recovery =	Not calculated			
Sr	407.771†	2133.9	-0.00522 mg/L	0.000064	-0.00522 mg/L	0.000064	1.23%
	QC value within limits for Sr	407.771	Recovery =	Not calculated			
Li	670.784†	242.3	-0.00188 mg/L	0.000841	-0.00188 mg/L	0.000841	44.76%
	QC value within limits for Li	670.784	Recovery =	Not calculated			

All analyte(s) passed QC.

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Sequence No.: 12                               u&osampler Location: 13
Sample ID: ICSAB                             a&e Collected: 7/26/2012 1:22:14 PM
Analyst:                                     a&a Type: Reprocessed on 7/26/2012 1:45:38 PM
Logged In Analyst (Original) : peicp2
Initial Sample Wt:                            nitial Sample Vol:
Dilution:                                    a&ple Prep Vol:
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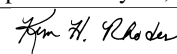
Nebulizer Parameters: ICSAB

Analyte	Back Pressure	Flow
All	157.0 kPa	0.50 L/min

Mean Data: ICSAB

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 371.029	2171333.3				16973.60	0.78%
YRADIAL	288217.0				4266.23	1.48%
Ga 417.206	1255014.3				32113.37	2.56%
GaRADIAL	83021.8				989.70	1.19%
Ag 328.068†	145547.5	0.505 mg/L	0.0136	0.505 mg/L	0.0136	2.69%
	QC value within limits for Ag	328.068	Recovery =	100.91%		
Al 396.153†	1700082.8	253 mg/L	5.6	253 mg/L	5.6	2.22%
	QC value within limits for Al	396.153	Recovery =	101.26%		
As 188.979†	793.8	0.231 mg/L	0.0083	0.231 mg/L	0.0083	3.61%
	QC value within limits for As	188.979	Recovery =	92.46%		
Ba 233.527†	41940.0	0.246 mg/L	0.0024	0.246 mg/L	0.0024	0.99%
	QC value within limits for Ba	233.527	Recovery =	98.37%		
Be 234.861†	313038.1	0.245 mg/L	0.0084	0.245 mg/L	0.0084	3.43%

Approved: July 27, 2012



B	249.677†	QC value within limits for B 249.677	4485.7	-0.0109 mg/L	Recovery = 97.98%	0.00337	-0.0109 mg/L	0.00337	30.93%
Ca	227.546†	QC value within limits for Ca 227.546	114589.9	259 mg/L	Recovery = Not calculated	7.0	259 mg/L	7.0	2.72%
Cd	228.802†	QC value within limits for Cd 228.802	25745.7	0.476 mg/L	Recovery = 103.46%	0.0151	0.476 mg/L	0.0151	3.17%
Co	228.616†	QC value within limits for Co 228.616	10306.3	0.234 mg/L	Recovery = 95.21%	0.0017	0.234 mg/L	0.0017	0.74%
Cr	267.716†	QC value within limits for Cr 267.716	31334.1	0.253 mg/L	Recovery = 93.42%	0.0023	0.253 mg/L	0.0023	0.90%
Cu	327.393†	QC value within limits for Cu 327.393	61298.0	0.247 mg/L	Recovery = 101.10%	0.0058	0.247 mg/L	0.0058	2.36%
Fe	239.562†	QC value within limits for Fe 239.562	1358071.7	92.8 mg/L	Recovery = 98.70%	2.20	92.8 mg/L	2.20	2.37%
Mg	279.077†	QC value within limits for Mg 279.077	831166.8	249 mg/L	Recovery = 92.81%	5.2	249 mg/L	5.2	2.10%
Mn	257.610†	QC value within limits for Mn 257.610	195877.1	0.242 mg/L	Recovery = 99.71%	0.0019	0.242 mg/L	0.0019	0.78%
Mo	202.031†	QC value within limits for Mo 202.031	-90.7	0.00141 mg/L	Recovery = 96.88%	0.000125	0.00141 mg/L	0.000125	8.83%
Ni	231.604†	QC value within limits for Ni 231.604	32900.7	0.476 mg/L	Recovery = Not calculated	0.0040	0.476 mg/L	0.0040	0.83%
Pb	220.353†	QC value within limits for Pb 220.353	6091.8	0.481 mg/L	Recovery = 95.11%	0.0040	0.481 mg/L	0.0040	0.84%
Sb	206.836†	QC value within limits for Sb 206.836	2249.0	0.486 mg/L	Recovery = 96.15%	0.0167	0.486 mg/L	0.0167	3.43%
Se	196.026†	QC value within limits for Se 196.026	424.9	0.233 mg/L	Recovery = 97.27%	0.0096	0.233 mg/L	0.0096	4.11%
Si	251.611†	QC value within limits for Si 251.611	-461.1	-0.0121 mg/L	Recovery = 93.37%	0.00017	-0.0121 mg/L	0.00017	1.44%
Sn	189.927†	QC value within limits for Sn 189.927	-364.9	-0.0313 mg/L	Recovery = Not calculated	0.00013	-0.0313 mg/L	0.00013	0.42%
Ti	334.940†	QC value within limits for Ti 334.940	-41651.3	-0.00176 mg/L	Recovery = Not calculated	0.003443	-0.00176 mg/L	0.003443	196.13%
Tl	190.801†	QC value within limits for Tl 190.801	1870.7	0.481 mg/L	Recovery = Not calculated	0.0012	0.481 mg/L	0.0012	0.26%
V	290.880†	QC value within limits for V 290.880	64378.5	0.251 mg/L	Recovery = 96.26%	0.0027	0.251 mg/L	0.0027	1.06%
Zn	206.200†	QC value within limits for Zn 206.200	27222.1	0.476 mg/L	Recovery = 100.29%	0.0036	0.476 mg/L	0.0036	0.75%
K	766.490†	QC value within limits for K 766.490	15051.3	4.94 mg/L	Recovery = 95.26%	0.048	4.94 mg/L	0.048	0.96%
Na	589.592†	QC value within limits for Na 589.592	102168.4	5.03 mg/L	Recovery = 98.85%	0.011	5.03 mg/L	0.011	0.22%
Sr	407.771†	QC value within limits for Sr 407.771	2264.0	-0.00518 mg/L	Recovery = 100.63%	0.000193	-0.00518 mg/L	0.000193	3.72%
Li	670.784†	QC value within limits for Li 670.784	260.3	-0.00176 mg/L	Recovery = Not calculated	0.000326	-0.00176 mg/L	0.000326	18.54%

All analyte(s) passed QC.

Sequence No.: 13

Sample ID: CCV

Analyst:

Logged In Analyst (Original) : peicp2

Initial Sample Wt:

Dilution:

autosampler Location: 6

date Collected: 7/26/2012 1:28:22 PM

data Type: Reprocessed on 7/26/2012 1:45:40 PM

initial Sample Vol:

sample Prep Vol:

Nebulizer Parameters: CCV

Analyte	Back Pressure	Flow
All	157.0 kPa	0.50 L/min

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 371.029	2327292.7				3961.45	0.17%
YRADIAL	298143.8				4715.78	1.58%
Ga 417.206	1311227.0				16562.06	1.26%
GaRADIAL	84329.5				1520.64	1.80%

Approved: July 27, 2012

Ann H. Rhodes

Method: 200.7-6010 PE-ICP2.1

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Date: 7/26/2012 1:45:41 PM

Ag	328.068†	122872.2	0.397 mg/L	0.0055	0.397 mg/L	0.0055	1.38%
	QC value within limits for Ag 328.068 Recovery = 99.19%						
Al	396.153†	68041.6	10.1 mg/L	0.01	10.1 mg/L	0.01	0.07%
	QC value within limits for Al 396.153 Recovery = 100.60%						
As	188.979†	1366.3	0.385 mg/L	0.0039	0.385 mg/L	0.0039	1.02%
	QC value within limits for As 188.979 Recovery = 96.23%						
Ba	233.527†	167599.1	1.01 mg/L	0.004	1.01 mg/L	0.004	0.36%
	QC value within limits for Ba 233.527 Recovery = 101.05%						
Be	234.861†	57595.6	0.0486 mg/L	0.00060	0.0486 mg/L	0.00060	1.23%
	QC value within limits for Be 234.861 Recovery = 97.19%						
B	249.677†	52905.9	0.484 mg/L	0.0081	0.484 mg/L	0.0081	1.68%
	QC value within limits for B 249.677 Recovery = 96.79%						
Ca	227.546†	4364.8	10.3 mg/L	0.20	10.3 mg/L	0.20	1.97%
	QC value within limits for Ca 227.546 Recovery = 102.71%						
Cd	228.802†	2650.7	0.0477 mg/L	0.00151	0.0477 mg/L	0.00151	3.17%
	QC value within limits for Cd 228.802 Recovery = 95.44%						
Co	228.616†	8853.1	0.202 mg/L	0.0009	0.202 mg/L	0.0009	0.47%
	QC value within limits for Co 228.616 Recovery = 100.92%						
Cr	267.716†	61890.0	0.502 mg/L	0.0020	0.502 mg/L	0.0020	0.41%
	QC value within limits for Cr 267.716 Recovery = 100.40%						
Cu	327.393†	125923.5	0.499 mg/L	0.0080	0.499 mg/L	0.0080	1.61%
	QC value within limits for Cu 327.393 Recovery = 99.75%						
Fe	239.562†	58523.5	4.00 mg/L	0.052	4.00 mg/L	0.052	1.30%
	QC value within limits for Fe 239.562 Recovery = 100.09%						
Mg	279.077†	33202.4	10.0 mg/L	0.12	10.0 mg/L	0.12	1.24%
	QC value within limits for Mg 279.077 Recovery = 100.04%						
Mn	257.610†	409167.3	0.507 mg/L	0.0047	0.507 mg/L	0.0047	0.93%
	QC value within limits for Mn 257.610 Recovery = 101.33%						
Mo	202.031†	37351.2	1.01 mg/L	0.006	1.01 mg/L	0.006	0.59%
	QC value within limits for Mo 202.031 Recovery = 100.73%						
Ni	231.604†	35799.4	0.518 mg/L	0.0023	0.518 mg/L	0.0023	0.45%
	QC value within limits for Ni 231.604 Recovery = 103.56%						
Pb	220.353†	6928.5	0.510 mg/L	0.0008	0.510 mg/L	0.0008	0.16%
	QC value within limits for Pb 220.353 Recovery = 102.02%						
Sb	206.836†	5499.9	1.18 mg/L	0.025	1.18 mg/L	0.025	2.12%
	QC value within limits for Sb 206.836 Recovery = 98.54%						
Se	196.026†	802.6	0.396 mg/L	0.0064	0.396 mg/L	0.0064	1.63%
	QC value within limits for Se 196.026 Recovery = 98.90%						
Si	251.611†	249876.0	4.93 mg/L	0.032	4.93 mg/L	0.032	0.64%
	QC value within limits for Si 251.611 Recovery = 98.55%						
Sn	189.927†	12356.6	1.01 mg/L	0.004	1.01 mg/L	0.004	0.42%
	QC value within limits for Sn 189.927 Recovery = 100.84%						
Ti	334.940†	1050618.0	1.01 mg/L	0.005	1.01 mg/L	0.005	0.46%
	QC value within limits for Ti 334.940 Recovery = 101.46%						
Tl	190.801†	2035.8	0.531 mg/L	0.0041	0.531 mg/L	0.0041	0.77%
	QC value within limits for Tl 190.801 Recovery = 106.29%						
V	290.880†	248664.4	1.01 mg/L	0.001	1.01 mg/L	0.001	0.15%
	QC value within limits for V 290.880 Recovery = 101.48%						
Zn	206.200†	57031.6	1.00 mg/L	0.003	1.00 mg/L	0.003	0.28%
	QC value within limits for Zn 206.200 Recovery = 100.26%						
K	766.490†	152703.4	50.8 mg/L	0.38	50.8 mg/L	0.38	0.74%
	QC value within limits for K 766.490 Recovery = 101.52%						
Na	589.592†	996573.2	50.1 mg/L	0.92	50.1 mg/L	0.92	1.83%
	QC value within limits for Na 589.592 Recovery = 100.17%						
Sr	407.771†	2596881.6	1.00 mg/L	0.018	1.00 mg/L	0.018	1.81%
	QC value within limits for Sr 407.771 Recovery = 100.45%						
Li	670.784†	156027.8	1.04 mg/L	0.016	1.04 mg/L	0.016	1.57%
	QC value within limits for Li 670.784 Recovery = 104.21%						

All analyte(s) passed QC.

Sequence No.: 14

Sample ID: CCB

Analyst:

Logged In Analyst (Original) : peicp2

Initial Sample Wt:

Dilution:

u&osampler Location: 1

a&e Collected: 7/26/2012 1:34:33 PM

a&a Type: Reprocessed on 7/26/2012 1:45:41 PM

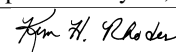
nitial Sample Vol:

a&ple Prep Vol:

Nebulizer Parameters: CCB

Analyte	Back Pressure	Flow
All	157.0 kPa	0.50 L/min

Approved: July 27, 2012



Mean Data: CCB

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 371.029	2411486.1				12532.60	0.52%
YRADIAL	303511.0				2273.04	0.75%
Ga 417.206	1344617.5				12897.57	0.96%
GaRADIAL	85830.5				2747.32	3.20%
Ag 328.068†	-23.8	0.00043 mg/L	0.000052	0.00043 mg/L	0.000052	12.15%
QC value within limits for Ag	328.068	Recovery =	Not calculated			
Al 396.153†	5.9	-0.00070 mg/L	0.000353	-0.00070 mg/L	0.000353	50.10%
QC value within limits for Al	396.153	Recovery =	Not calculated			
As 188.979†	7.5	0.00074 mg/L	0.000624	0.00074 mg/L	0.000624	84.90%
QC value within limits for As	188.979	Recovery =	Not calculated			
Ba 233.527†	4.0	-0.00178 mg/L	0.000156	-0.00178 mg/L	0.000156	8.78%
QC value within limits for Ba	233.527	Recovery =	Not calculated			
Be 234.861†	32.4	0.00008 mg/L	0.000014	0.00008 mg/L	0.000014	18.84%
QC value within limits for Be	234.861	Recovery =	Not calculated			
B 249.677†	70.8	0.00164 mg/L	0.000166	0.00164 mg/L	0.000166	10.13%
QC value within limits for B	249.677	Recovery =	Not calculated			
Ca 227.546†	-10.9	0.0200 mg/L	0.02857	0.0200 mg/L	0.02857	142.53%
QC value within limits for Ca	227.546	Recovery =	Not calculated			
Cd 228.802†	3.9	0.00006 mg/L	0.000149	0.00006 mg/L	0.000149	268.94%
QC value within limits for Cd	228.802	Recovery =	Not calculated			
Co 228.616†	-4.4	-0.00029 mg/L	0.000045	-0.00029 mg/L	0.000045	15.66%
QC value within limits for Co	228.616	Recovery =	Not calculated			
Cr 267.716†	-2.4	-0.00055 mg/L	0.000180	-0.00055 mg/L	0.000180	32.64%
QC value within limits for Cr	267.716	Recovery =	Not calculated			
Cu 327.393†	76.7	0.00072 mg/L	0.000158	0.00072 mg/L	0.000158	21.92%
QC value within limits for Cu	327.393	Recovery =	Not calculated			
Fe 239.562†	86.3	0.0107 mg/L	0.00102	0.0107 mg/L	0.00102	9.58%
QC value within limits for Fe	239.562	Recovery =	Not calculated			
Mg 279.077†	44.5	0.0427 mg/L	0.00104	0.0427 mg/L	0.00104	2.43%
QC value within limits for Mg	279.077	Recovery =	Not calculated			
Mn 257.610†	60.5	-0.00074 mg/L	0.000007	-0.00074 mg/L	0.000007	1.00%
QC value within limits for Mn	257.610	Recovery =	Not calculated			
Mo 202.031†	4.1	-0.00076 mg/L	0.000116	-0.00076 mg/L	0.000116	15.32%
QC value within limits for Mo	202.031	Recovery =	Not calculated			
Ni 231.604†	0.5	-0.00298 mg/L	0.000111	-0.00298 mg/L	0.000111	3.73%
QC value within limits for Ni	231.604	Recovery =	Not calculated			
Pb 220.353†	-11.0	-0.00122 mg/L	0.000396	-0.00122 mg/L	0.000396	32.53%
QC value within limits for Pb	220.353	Recovery =	Not calculated			
Sb 206.836†	0.2	0.00090 mg/L	0.001031	0.00090 mg/L	0.001031	114.74%
QC value within limits for Sb	206.836	Recovery =	Not calculated			
Se 196.026†	-7.2	-0.00181 mg/L	0.001663	-0.00181 mg/L	0.001663	92.08%
QC value within limits for Se	196.026	Recovery =	Not calculated			
Si 251.611†	-39.5	-0.00383 mg/L	0.000185	-0.00383 mg/L	0.000185	4.82%
QC value within limits for Si	251.611	Recovery =	Not calculated			
Sn 189.927†	14.6	-0.00028 mg/L	0.000612	-0.00028 mg/L	0.000612	220.16%
QC value within limits for Sn	189.927	Recovery =	Not calculated			
Ti 334.940†	46.4	0.00012 mg/L	0.000042	0.00012 mg/L	0.000042	33.62%
QC value within limits for Ti	334.940	Recovery =	Not calculated			
Tl 190.801†	-0.6	-0.00252 mg/L	0.000719	-0.00252 mg/L	0.000719	28.49%
QC value within limits for Tl	190.801	Recovery =	Not calculated			
V 290.880†	174.9	-0.00009 mg/L	0.000828	-0.00009 mg/L	0.000828	888.97%
QC value within limits for V	290.880	Recovery =	Not calculated			
Zn 206.200†	-0.3	-0.00131 mg/L	0.000005	-0.00131 mg/L	0.000005	0.36%
QC value within limits for Zn	206.200	Recovery =	Not calculated			
K 766.490†	36.0	-0.0537 mg/L	0.00732	-0.0537 mg/L	0.00732	13.62%
QC value within limits for K	766.490	Recovery =	Not calculated			
Na 589.592†	114.3	0.00763 mg/L	0.005035	0.00763 mg/L	0.005035	66.01%
QC value within limits for Na	589.592	Recovery =	Not calculated			
Sr 407.771†	145.2	-0.00037 mg/L	0.000021	-0.00037 mg/L	0.000021	5.77%
QC value within limits for Sr	407.771	Recovery =	Not calculated			
Li 670.784†	46.2	-0.00319 mg/L	0.000138	-0.00319 mg/L	0.000138	4.32%
QC value within limits for Li	670.784	Recovery =	Not calculated			
All analyte(s) passed QC.						

Approved: July 27, 2012

Ann H. Rhodes

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Analysis Begun

Start Time: 7/26/2012 1:47:43 PM lbsma On Time: 7/26/2012 7:07:35 AM
Logged In Analyst: peicp2 eThnique: ICP Continuous
Spectrometer Model: Optima 4300 DV, S/N 077N40114 Autosampler Model: Cetac

Sample Information File: C:\pe\peicp2\Sample Information\THURSDAY2.sif
Batch ID:
Results Data Set: 072612H2
Results Library: C:\pe\peicp2\Results\Results.mdb

=====
Method Loaded
Method Name: 200.7-6010 PE-ICP2.1 eThnod Last Saved: 7/26/2012 1:45:25 PM
IEC File: CA227_LiBeMOD.iec SM File:
Method Description: STANDARD

=====
Sequence No.: 1 u&osampler Location: 16
Sample ID: PBW 77 WG404092-02 a&e Collected: 7/26/2012 1:47:45 PM
Analyst: KHR a&a Type: Original
Initial Sample Wt: nitial Sample Vol:
Dilution: a&ple Prep Vol:

Nebulizer Parameters: PBW 77 WG404092-02
Analyte Back Pressure Flow
All 157.0 kPa 0.50 L/min

Mean Data: PBW 77 WG404092-02

Analyte	Mean Corrected	Conc.	Calib. Units	Std.Dev.	Conc. Units	Sample	Std.Dev.	RSD
Y 371.029	2433963.8						29577.61	1.22%
YRADIAL	306414.4						7726.99	2.52%
Ga 417.206	1409133.3						9126.52	0.65%
GarADIAL	87687.9						1081.59	1.23%
Ag 328.068†	-115.4	0.00013	mg/L	0.000481	0.00013	mg/L	0.000481	360.86%
Al 396.153†	42.4	0.00475	mg/L	0.003936	0.00475	mg/L	0.003936	82.87%
As 188.979†	2.8	-0.00062	mg/L	0.000461	-0.00062	mg/L	0.000461	74.96%
Ba 233.527†	70.0	-0.00138	mg/L	0.000124	-0.00138	mg/L	0.000124	8.99%
Be 234.861†	155.3	0.00018	mg/L	0.000016	0.00018	mg/L	0.000016	9.00%
B 249.677†	-58.0	0.00046	mg/L	0.000106	0.00046	mg/L	0.000106	23.12%
Ca 227.546†	-0.2	0.0441	mg/L	0.00972	0.0441	mg/L	0.00972	22.06%
Cd 228.802†	1.7	0.00002	mg/L	0.000087	0.00002	mg/L	0.000087	433.17%
Co 228.616†	-5.3	-0.00031	mg/L	0.000176	-0.00031	mg/L	0.000176	57.02%
Cr 267.716†	-16.1	-0.00066	mg/L	0.000078	-0.00066	mg/L	0.000078	11.82%
Cu 327.393†	9.2	0.00045	mg/L	0.000270	0.00045	mg/L	0.000270	59.59%
Fe 239.562†	48.9	0.00810	mg/L	0.001359	0.00810	mg/L	0.001359	16.79%
Mg 279.077†	50.6	0.0446	mg/L	0.00578	0.0446	mg/L	0.00578	12.98%
Mn 257.610†	35.0	-0.00077	mg/L	0.000012	-0.00077	mg/L	0.000012	1.49%
Mo 202.031†	-6.1	-0.00103	mg/L	0.000286	-0.00103	mg/L	0.000286	27.79%
Ni 231.604†	14.4	-0.00278	mg/L	0.000034	-0.00278	mg/L	0.000034	1.22%
Pb 220.353†	-2.2	-0.00057	mg/L	0.001242	-0.00057	mg/L	0.001242	216.08%
Sb 206.836†	-4.4	-0.00010	mg/L	0.000611	-0.00010	mg/L	0.000611	609.98%
Se 196.026†	-5.8	-0.00110	mg/L	0.000691	-0.00110	mg/L	0.000691	62.99%
Si 251.611†	183.1	0.00057	mg/L	0.003256	0.00057	mg/L	0.003256	572.12%
Sn 189.927†	9.7	-0.00068	mg/L	0.000451	-0.00068	mg/L	0.000451	66.78%
Ti 334.940†	71.2	0.00015	mg/L	0.000137	0.00015	mg/L	0.000137	89.73%
Tl 190.801†	0.2	-0.00231	mg/L	0.000324	-0.00231	mg/L	0.000324	14.03%
V 290.880†	236.5	0.00016	mg/L	0.000496	0.00016	mg/L	0.000496	311.56%
Zn 206.200†	95.0	0.00036	mg/L	0.000155	0.00036	mg/L	0.000155	43.50%
K 766.490†	21.0	-0.0587	mg/L	0.02304	-0.0587	mg/L	0.02304	39.23%
Na 589.592†	-0.8	0.00197	mg/L	0.009213	0.00197	mg/L	0.009213	466.60%
Sr 407.771†	135.4	-0.00038	mg/L	0.000021	-0.00038	mg/L	0.000021	5.71%
Li 670.784†	-76.0	-0.00401	mg/L	0.000388	-0.00401	mg/L	0.000388	9.67%

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Sequence No.: 2 u&osampler Location: 17
Sample ID: LCSW 77 WG404092-03 a&e Collected: 7/26/2012 1:54:51 PM

Approved: July 27, 2012
Ann H. Rhodes

Analyst: KHR
Initial Sample Wt:
Dilution:

Sample Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: LCSW 77 WG404092-03

Analyte Back Pressure Flow
All 157.0 kPa 0.50 L/min

Mean Data: LCSW 77 WG404092-03

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 371.029	2392176.2				12679.96	0.53%
YRADIAL	304263.9				3030.50	1.00%
Ga 417.206	1379830.2				18432.61	1.34%
GaRADIAL	86039.9				349.21	0.41%
Ag 328.068†	59613.1	0.193 mg/L	0.0030	0.193 mg/L	0.0030	1.55%
Al 396.153†	32967.2	4.87 mg/L	0.007	4.87 mg/L	0.007	0.15%
As 188.979†	641.4	0.180 mg/L	0.0024	0.180 mg/L	0.0024	1.32%
Ba 233.527†	81413.3	0.490 mg/L	0.0034	0.490 mg/L	0.0034	0.70%
Be 234.861†	27159.7	0.0229 mg/L	0.00031	0.0229 mg/L	0.00031	1.36%
B 249.677†	99839.2	0.918 mg/L	0.0192	0.918 mg/L	0.0192	2.09%
Ca 227.546†	2069.7	4.90 mg/L	0.082	4.90 mg/L	0.082	1.68%
Cd 228.802†	1250.0	0.0225 mg/L	0.00079	0.0225 mg/L	0.00079	3.51%
Co 228.616†	4299.9	0.0980 mg/L	0.00059	0.0980 mg/L	0.00059	0.60%
Cr 267.716†	30214.7	0.245 mg/L	0.0018	0.245 mg/L	0.0018	0.73%
Cu 327.393†	60595.0	0.240 mg/L	0.0049	0.240 mg/L	0.0049	2.04%
Fe 239.562†	27803.8	1.90 mg/L	0.004	1.90 mg/L	0.004	0.21%
Mg 279.077†	16032.4	4.85 mg/L	0.012	4.85 mg/L	0.012	0.25%
Mn 257.610†	200191.3	0.247 mg/L	0.0014	0.247 mg/L	0.0014	0.57%
Mo 202.031†	18086.6	0.487 mg/L	0.0036	0.487 mg/L	0.0036	0.73%
Ni 231.604†	17124.6	0.246 mg/L	0.0017	0.246 mg/L	0.0017	0.71%
Pb 220.353†	3375.2	0.248 mg/L	0.0026	0.248 mg/L	0.0026	1.03%
Sb 206.836†	2596.2	0.559 mg/L	0.0107	0.559 mg/L	0.0107	1.92%
Se 196.026†	386.6	0.191 mg/L	0.0024	0.191 mg/L	0.0024	1.25%
Si 251.611†	122152.4	2.41 mg/L	0.031	2.41 mg/L	0.031	1.29%
Sn 189.927†	6191.7	0.505 mg/L	0.0026	0.505 mg/L	0.0026	0.52%
Ti 334.940†	505567.7	0.488 mg/L	0.0022	0.488 mg/L	0.0022	0.44%
Tl 190.801†	1007.0	0.261 mg/L	0.0027	0.261 mg/L	0.0027	1.04%
V 290.880†	120951.3	0.493 mg/L	0.0057	0.493 mg/L	0.0057	1.16%
Zn 206.200†	28027.0	0.492 mg/L	0.0005	0.492 mg/L	0.0005	0.11%
K 766.490†	74276.5	24.7 mg/L	0.03	24.7 mg/L	0.03	0.13%
Na 589.592†	501345.0	24.9 mg/L	0.30	24.9 mg/L	0.30	1.22%
Sr 407.771†	1279190.7	0.495 mg/L	0.0036	0.495 mg/L	0.0036	0.73%
Li 670.784†	77299.7	0.515 mg/L	0.0020	0.515 mg/L	0.0020	0.39%

Sequence No.: 3
Sample ID: L1207054101
Analyst: KHR
Initial Sample Wt:
Dilution:

Sampler Location: 18
Sample Collected: 7/26/2012 2:01:02 PM
Sample Type: Original
Initial Sample Vol:
Sample Prep Vol:

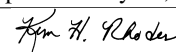
Nebulizer Parameters: L1207054101

Analyte Back Pressure Flow
All 157.0 kPa 0.50 L/min

Mean Data: L1207054101

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 371.029	2096697.8				13808.51	0.66%
YRADIAL	267087.0				1989.31	0.74%
Ga 417.206	1246732.4				15485.45	1.24%
GaRADIAL	78614.5				714.48	0.91%
Ag 328.068†	582.0	0.00255 mg/L	0.000317	0.00255 mg/L	0.000317	12.43%
Al 396.153†	1053.8	0.154 mg/L	0.0042	0.154 mg/L	0.0042	2.74%
As 188.979†	-9.2	-0.00402 mg/L	0.005146	-0.00402 mg/L	0.005146	127.86%
Ba 233.527†	20759.6	0.124 mg/L	0.0016	0.124 mg/L	0.0016	1.32%
Be 234.861†	327.9	0.00021 mg/L	0.000027	0.00021 mg/L	0.000027	13.01%

Approved: July 27, 2012



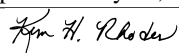
B 249.677†	5982.0	0.0558 mg/L	0.00319	0.0558 mg/L	0.00319	5.71%
Ca 227.546†	33890.1	75.8 mg/L	1.36	75.8 mg/L	1.36	1.80%
Cd 228.802†	12.5	0.00024 mg/L	0.000112	0.00024 mg/L	0.000112	46.85%
Co 228.616†	31.3	0.00053 mg/L	0.000221	0.00053 mg/L	0.000221	41.67%
Cr 267.716†	1247.7	0.00957 mg/L	0.000161	0.00957 mg/L	0.000161	1.69%
Cu 327.393†	5396.3	0.0217 mg/L	0.00050	0.0217 mg/L	0.00050	2.30%
Fe 239.562†	8677.0	0.598 mg/L	0.0112	0.598 mg/L	0.0112	1.88%
Mg 279.077†	18621.5	5.61 mg/L	0.076	5.61 mg/L	0.076	1.36%
Mn 257.610†	84797.6	0.104 mg/L	0.0006	0.104 mg/L	0.0006	0.57%
Mo 202.031†	689.8	0.0178 mg/L	0.00045	0.0178 mg/L	0.00045	2.51%
Ni 231.604†	996.4	0.0115 mg/L	0.00030	0.0115 mg/L	0.00030	2.60%
Pb 220.353†	2.3	0.00026 mg/L	0.000878	0.00026 mg/L	0.000878	334.18%
Sb 206.836†	0.1	0.00084 mg/L	0.000793	0.00084 mg/L	0.000793	94.06%
Se 196.026†	5.4	0.00445 mg/L	0.005029	0.00445 mg/L	0.005029	113.00%
Si 251.611†	167260.1	3.30 mg/L	0.034	3.30 mg/L	0.034	1.04%
Sn 189.927†	-294.8	-0.0256 mg/L	0.00082	-0.0256 mg/L	0.00082	3.22%
Ti 334.940†	-10866.6	0.00096 mg/L	0.000695	0.00096 mg/L	0.000695	72.50%
Tl 190.801†	-28.5	-0.00983 mg/L	0.000886	-0.00983 mg/L	0.000886	9.01%
V 290.880†	2300.3	0.00841 mg/L	0.001427	0.00841 mg/L	0.001427	16.97%
Zn 206.200†	2164.1	0.0367 mg/L	0.00037	0.0367 mg/L	0.00037	1.00%
K 766.490†	73779.2	24.1 mg/L	0.24	24.1 mg/L	0.24	1.01%
Na 589.592†	7414364.2	459 mg/L	4.4	459 mg/L	4.4	0.96%
Sr 407.771†	755351.2	0.290 mg/L	0.0031	0.290 mg/L	0.0031	1.05%
Li 670.784†	7474.4	0.0466 mg/L	0.00028	0.0466 mg/L	0.00028	0.61%

=====
Sequence No.: 4 **u&osampler Location:** 19
Sample ID: L1207054102 **ame Collected:** 7/26/2012 2:07:18 PM
Analyst: KHR **ana Type:** Original
Initial Sample Wt: **nitial Sample Vol:**
Dilution: **ample Prep Vol:**

Nebulizer Parameters: L1207054102
Analyte **Back Pressure** **Flow**
All 157.0 kPa 0.50 L/min

Mean Data: L1207054102

Analyte	Mean Corrected		Calib.		Sample		RSD
	Intensity	Conc.	Units	Std.Dev.	Conc.	Units	
Y 371.029	2094052.8						0.80%
YRADIAL	272679.6						1.61%
Ga 417.206	1240721.7						0.96%
GaRADIAL	78866.8						1.32%
Ag 328.068†	464.1	0.00216 mg/L	0.000078	0.00216 mg/L	0.000078		3.63%
Al 396.153†	990.5	0.145 mg/L	0.0092	0.145 mg/L	0.0092		6.38%
As 188.979†	-8.0	-0.00369 mg/L	0.000713	-0.00369 mg/L	0.000713		19.34%
Ba 233.527†	15998.4	0.0948 mg/L	0.00143	0.0948 mg/L	0.00143		1.51%
Be 234.861†	190.6	0.00010 mg/L	0.000041	0.00010 mg/L	0.000041		40.09%
B 249.677†	6554.6	0.0611 mg/L	0.00055	0.0611 mg/L	0.00055		0.90%
Ca 227.546†	25620.9	57.3 mg/L	0.78	57.3 mg/L	0.78		1.36%
Cd 228.802†	11.2	0.00021 mg/L	0.000074	0.00021 mg/L	0.000074		34.67%
Co 228.616†	28.3	0.00047 mg/L	0.000430	0.00047 mg/L	0.000430		92.25%
Cr 267.716†	1058.4	0.00804 mg/L	0.000169	0.00804 mg/L	0.000169		2.10%
Cu 327.393†	5188.0	0.0209 mg/L	0.00040	0.0209 mg/L	0.00040		1.91%
Fe 239.562†	7756.9	0.535 mg/L	0.0048	0.535 mg/L	0.0048		0.90%
Mg 279.077†	16775.6	5.06 mg/L	0.068	5.06 mg/L	0.068		1.34%
Mn 257.610†	69548.9	0.0854 mg/L	0.00140	0.0854 mg/L	0.00140		1.65%
Mo 202.031†	656.0	0.0169 mg/L	0.00032	0.0169 mg/L	0.00032		1.91%
Ni 231.604†	701.3	0.00722 mg/L	0.000358	0.00722 mg/L	0.000358		4.96%
Pb 220.353†	1.0	0.00004 mg/L	0.000763	0.00004 mg/L	0.000763		>999.9%
Sb 206.836†	-8.1	-0.00091 mg/L	0.001989	-0.00091 mg/L	0.001989		217.44%
Se 196.026†	7.0	0.00523 mg/L	0.003101	0.00523 mg/L	0.003101		59.25%
Si 251.611†	170662.6	3.37 mg/L	0.075	3.37 mg/L	0.075		2.24%
Sn 189.927†	-269.8	-0.0235 mg/L	0.00107	-0.0235 mg/L	0.00107		4.56%
Ti 334.940†	-7920.2	0.00103 mg/L	0.000551	0.00103 mg/L	0.000551		53.49%
Tl 190.801†	-35.4	-0.0115 mg/L	0.00265	-0.0115 mg/L	0.00265		22.95%
V 290.880†	2161.2	0.00786 mg/L	0.000451	0.00786 mg/L	0.000451		5.74%
Zn 206.200†	2230.0	0.0378 mg/L	0.00035	0.0378 mg/L	0.00035		0.94%
K 766.490†	75098.7	24.5 mg/L	0.16	24.5 mg/L	0.16		0.67%
Na 589.592†	7687444.2	483 mg/L	12.2	483 mg/L	12.2		2.52%

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Sr 407.771†	593491.7	0.228 mg/L	0.0017	0.228 mg/L	0.0017	0.74%
Li 670.784†	6250.5	0.0384 mg/L	0.00066	0.0384 mg/L	0.00066	1.73%

Sequence No.: 5
 Sample ID: L1207054103
 Analyst: KHR
 Initial Sample Wt:
 Dilution:

u&osampler Location: 20
 a&e Collected: 7/26/2012 2:13:36 PM
 a&a Type: Original
 nitial Sample Vol:
 a&ple Prep Vol:

Nebulizer Parameters: L1207054103

Analyte	Back Pressure	Flow
All	157.0 kPa	0.50 L/min

Mean Data: L1207054103

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 371.029	2230223.4				16857.81	0.76%
YRADIAL	300099.8				5897.73	1.97%
Ga 417.206	1441324.6				19226.28	1.33%
GaRADIAL	89670.0				1438.45	1.60%
Ag 328.068†	188.5	0.00109 mg/L	0.000128	0.00109 mg/L	0.000128	11.74%
Al 396.153†	754.3	0.108 mg/L	0.0009	0.108 mg/L	0.0009	0.79%
As 188.979†	4.2	-0.00044 mg/L	0.000631	-0.00044 mg/L	0.000631	142.35%
Ba 233.527†	7628.1	0.0443 mg/L	0.00012	0.0443 mg/L	0.00012	0.26%
Be 234.861†	162.0	0.00020 mg/L	0.000015	0.00020 mg/L	0.000015	7.44%
B 249.677†	14720.4	0.136 mg/L	0.0019	0.136 mg/L	0.0019	1.42%
Ca 227.546†	11784.9	26.4 mg/L	0.34	26.4 mg/L	0.34	1.30%
Cd 228.802†	2.1	0.00003 mg/L	0.000021	0.00003 mg/L	0.000021	84.85%
Co 228.616†	4.1	-0.00003 mg/L	0.000085	-0.00003 mg/L	0.000085	311.08%
Cr 267.716†	96.1	0.00025 mg/L	0.000026	0.00025 mg/L	0.000026	10.43%
Cu 327.393†	1084.2	0.00469 mg/L	0.000357	0.00469 mg/L	0.000357	7.61%
Fe 239.562†	309.7	0.0259 mg/L	0.00013	0.0259 mg/L	0.00013	0.51%
Mg 279.077†	8737.5	2.65 mg/L	0.038	2.65 mg/L	0.038	1.43%
Mn 257.610†	20223.9	0.0243 mg/L	0.00024	0.0243 mg/L	0.00024	0.98%
Mo 202.031†	1418.5	0.0374 mg/L	0.00026	0.0374 mg/L	0.00026	0.69%
Ni 231.604†	134.1	-0.00104 mg/L	0.000168	-0.00104 mg/L	0.000168	16.24%
Pb 220.353†	6.8	0.00032 mg/L	0.000225	0.00032 mg/L	0.000225	70.65%
Sb 206.836†	-5.5	-0.00027 mg/L	0.000585	-0.00027 mg/L	0.000585	219.59%
Se 196.026†	-4.2	-0.00032 mg/L	0.001767	-0.00032 mg/L	0.001767	559.57%
Si 251.611†	117791.9	2.33 mg/L	0.014	2.33 mg/L	0.014	0.60%
Sn 189.927†	-195.4	-0.0174 mg/L	0.00054	-0.0174 mg/L	0.00054	3.08%
Ti 334.940†	-5226.6	-0.00101 mg/L	0.000396	-0.00101 mg/L	0.000396	39.34%
Tl 190.801†	-31.0	-0.0103 mg/L	0.00244	-0.0103 mg/L	0.00244	23.59%
V 290.880†	1720.5	0.00615 mg/L	0.000528	0.00615 mg/L	0.000528	8.58%
Zn 206.200†	458.0	0.00672 mg/L	0.000151	0.00672 mg/L	0.000151	2.24%
K 766.490†	155356.8	51.2 mg/L	0.43	51.2 mg/L	0.43	0.83%
Na 589.592†	7303350.9	450 mg/L	8.8	450 mg/L	8.8	1.96%
Sr 407.771†	431013.9	0.166 mg/L	0.0060	0.166 mg/L	0.0060	3.60%
Li 670.784†	4634.5	0.0276 mg/L	0.00057	0.0276 mg/L	0.00057	2.06%

Sequence No.: 6
 Sample ID: L1207054104
 Analyst: KHR
 Initial Sample Wt:
 Dilution:

u&osampler Location: 21
 a&e Collected: 7/26/2012 2:20:50 PM
 a&a Type: Original
 nitial Sample Vol:
 a&ple Prep Vol:

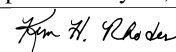
Nebulizer Parameters: L1207054104

Analyte	Back Pressure	Flow
All	157.0 kPa	0.50 L/min

Mean Data: L1207054104

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 371.029	2095492.3				18636.67	0.89%
YRADIAL	270902.0				1699.15	0.63%
Ga 417.206	1208225.8				25168.82	2.08%

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GaRADIAL	77094.3				907.97	1.18%
Ag 328.068†	215.4	0.00147 mg/L	0.000274	0.00147 mg/L	0.000274	18.66%
Al 396.153†	1713.1	0.248 mg/L	0.0067	0.248 mg/L	0.0067	2.70%
As 188.979†	4.3	-0.00050 mg/L	0.001445	-0.00050 mg/L	0.001445	287.56%
Ba 233.527†	6971.4	0.0403 mg/L	0.00046	0.0403 mg/L	0.00046	1.14%
Be 234.861†	233.4	0.00012 mg/L	0.000002	0.00012 mg/L	0.000002	1.54%
B 249.677†	9719.3	0.0902 mg/L	0.00263	0.0902 mg/L	0.00263	2.91%
Ca 227.546†	8330.2	18.7 mg/L	0.57	18.7 mg/L	0.57	3.07%
Cd 228.802†	20.9	0.00037 mg/L	0.000120	0.00037 mg/L	0.000120	32.28%
Co 228.616†	22.7	0.00044 mg/L	0.000355	0.00044 mg/L	0.000355	80.69%
Cr 267.716†	372.1	0.00246 mg/L	0.000104	0.00246 mg/L	0.000104	4.21%
Cu 327.393†	5502.0	0.0222 mg/L	0.00021	0.0222 mg/L	0.00021	0.93%
Fe 239.562†	10170.1	0.700 mg/L	0.0032	0.700 mg/L	0.0032	0.46%
Mg 279.077†	32060.2	9.65 mg/L	0.073	9.65 mg/L	0.073	0.76%
Mn 257.610†	36633.0	0.0446 mg/L	0.00049	0.0446 mg/L	0.00049	1.09%
Mo 202.031†	3087.5	0.0825 mg/L	0.00136	0.0825 mg/L	0.00136	1.65%
Ni 231.604†	452.6	0.00360 mg/L	0.000376	0.00360 mg/L	0.000376	10.46%
Pb 220.353†	-6.2	-0.00074 mg/L	0.001305	-0.00074 mg/L	0.001305	175.35%
Sb 206.836†	-4.7	-0.00003 mg/L	0.000483	-0.00003 mg/L	0.000483	>999.9%
Se 196.026†	12.9	0.00816 mg/L	0.003433	0.00816 mg/L	0.003433	42.08%
Si 251.611†	931440.7	18.4 mg/L	0.19	18.4 mg/L	0.19	1.03%
Sn 189.927†	-139.6	-0.0129 mg/L	0.00085	-0.0129 mg/L	0.00085	6.63%
Ti 334.940†	5641.1	0.00831 mg/L	0.000414	0.00831 mg/L	0.000414	4.98%
Tl 190.801†	-26.8	-0.00913 mg/L	0.005788	-0.00913 mg/L	0.005788	63.40%
V 290.880†	2917.9	0.0108 mg/L	0.00177	0.0108 mg/L	0.00177	16.40%
Zn 206.200†	2118.5	0.0358 mg/L	0.00048	0.0358 mg/L	0.00048	1.33%
K 766.490†	94876.6	31.5 mg/L	0.17	31.5 mg/L	0.17	0.54%
Na 589.592†	Saturated2					
Sr 407.771†	266111.8	0.102 mg/L	0.0005	0.102 mg/L	0.0005	0.53%
Li 670.784†	2948.7	0.0163 mg/L	0.00030	0.0163 mg/L	0.00030	1.84%

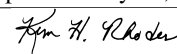
Sequence No.: 7 u&osampler Location: 22
 Sample ID: L1207054104PS WG404481-01 a&e Collected: 7/26/2012 2:27:02 PM
 Analyst: KHR a&a Type: Original
 Initial Sample Wt: nitial Sample Vol:
 Dilution: a&ple Prep Vol:

Nebulizer Parameters: L1207054104PS WG404481-01
 Analyte Back Pressure Flow
 All 157.0 kPa 0.50 L/min

Mean Data: L1207054104PS WG404481-01

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 371.029	2050836.4				28645.10	1.40%
YRADIAL	270588.6				1504.30	0.56%
Ga 417.206	1185772.2				13508.02	1.14%
GaRADIAL	77252.3				828.68	1.07%
Ag 328.068†	65020.7	0.210 mg/L	0.0041	0.210 mg/L	0.0041	1.94%
Al 396.153†	35867.9	5.30 mg/L	0.020	5.30 mg/L	0.020	0.38%
As 188.979†	708.9	0.199 mg/L	0.0015	0.199 mg/L	0.0015	0.76%
Ba 233.527†	93656.4	0.564 mg/L	0.0081	0.564 mg/L	0.0081	1.44%
Be 234.861†	30025.5	0.0253 mg/L	0.00035	0.0253 mg/L	0.00035	1.40%
B 249.677†	117414.5	1.08 mg/L	0.022	1.08 mg/L	0.022	2.01%
Ca 227.546†	10066.5	22.8 mg/L	0.44	22.8 mg/L	0.44	1.93%
Cd 228.802†	1366.3	0.0246 mg/L	0.00076	0.0246 mg/L	0.00076	3.10%
Co 228.616†	4529.6	0.103 mg/L	0.0014	0.103 mg/L	0.0014	1.31%
Cr 267.716†	32424.6	0.263 mg/L	0.0023	0.263 mg/L	0.0023	0.86%
Cu 327.393†	70309.4	0.279 mg/L	0.0061	0.279 mg/L	0.0061	2.17%
Fe 239.562†	38588.4	2.64 mg/L	0.017	2.64 mg/L	0.017	0.64%
Mg 279.077†	46601.1	14.0 mg/L	0.10	14.0 mg/L	0.10	0.71%
Mn 257.610†	248684.9	0.308 mg/L	0.0057	0.308 mg/L	0.0057	1.86%
Mo 202.031†	22259.3	0.600 mg/L	0.0046	0.600 mg/L	0.0046	0.77%
Ni 231.604†	18321.2	0.264 mg/L	0.0035	0.264 mg/L	0.0035	1.32%
Pb 220.353†	3467.2	0.255 mg/L	0.0034	0.255 mg/L	0.0034	1.32%
Sb 206.836†	2784.7	0.599 mg/L	0.0137	0.599 mg/L	0.0137	2.29%
Se 196.026†	429.2	0.212 mg/L	0.0025	0.212 mg/L	0.0025	1.20%
Si 251.611†	1052294.9	20.8 mg/L	0.26	20.8 mg/L	0.26	1.24%
Sn 189.927†	-164.2	-0.0149 mg/L	0.00052	-0.0149 mg/L	0.00052	3.49%

Approved: July 27, 2012



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Ti 334.940†	536642.0	0.521 mg/L	0.0027	0.521 mg/L	0.0027	0.51%
Tl 190.801†	934.0	0.243 mg/L	0.0019	0.243 mg/L	0.0019	0.78%
V 290.880†	132410.2	0.540 mg/L	0.0042	0.540 mg/L	0.0042	0.78%
Zn 206.200†	32952.8	0.578 mg/L	0.0081	0.578 mg/L	0.0081	1.40%
K 766.490†	164101.0	54.0 mg/L	0.25	54.0 mg/L	0.25	0.45%
Na 589.592†	9211250.9	634 mg/L	22.0	634 mg/L	22.0	3.47%
Sr 407.771†	1555066.0	0.601 mg/L	0.0023	0.601 mg/L	0.0023	0.38%
Li 670.784†	79056.2	0.526 mg/L	0.0032	0.526 mg/L	0.0032	0.61%

Sequence No.: 8

u&osampler Location: 23

Sample ID: L1207054104DL WG404481-02

Date Collected: 7/26/2012 2:33:21 PM

Analyst: KHR

Date Type: Original

Initial Sample Wt:

Initial Sample Vol:

Dilution:

Sample Prep Vol:

Nebulizer Parameters: L1207054104DL WG404481-02

Analyte	Back Pressure	Flow
All	157.0 kPa	0.50 L/min

Mean Data: L1207054104DL WG404481-02

Analyte	Mean Corrected		Calib.		Sample		Std.Dev.	RSD
	Intensity	Conc.	Units	Std.Dev.	Conc.	Units		
Y 371.029	2264854.8						41353.32	1.83%
YRADIAL	287789.2						6085.90	2.11%
Ga 417.206	1379793.3						20300.01	1.47%
GaRADIAL	84987.2						1041.47	1.23%
Ag 328.068†	-71.7	0.00033 mg/L	0.000501	0.00033 mg/L	0.000501	151.76%		
Al 396.153†	391.7	0.0556 mg/L	0.00290	0.0556 mg/L	0.00290	5.22%		
As 188.979†	5.4	0.00006 mg/L	0.001372	0.00006 mg/L	0.001372	>999.9%		
Ba 233.527†	1431.4	0.00684 mg/L	0.000026	0.00684 mg/L	0.000026	0.38%		
Be 234.861†	129.9	0.00013 mg/L	0.000023	0.00013 mg/L	0.000023	17.13%		
B 249.677†	1977.3	0.0191 mg/L	0.00086	0.0191 mg/L	0.00086	4.50%		
Ca 227.546†	1609.4	3.64 mg/L	0.047	3.64 mg/L	0.047	1.30%		
Cd 228.802†	3.1	0.00004 mg/L	0.000089	0.00004 mg/L	0.000089	212.42%		
Co 228.616†	-14.8	-0.00050 mg/L	0.000045	-0.00050 mg/L	0.000045	8.95%		
Cr 267.716†	95.5	0.00024 mg/L	0.000056	0.00024 mg/L	0.000056	23.49%		
Cu 327.393†	1065.9	0.00463 mg/L	0.000396	0.00463 mg/L	0.000396	8.54%		
Fe 239.562†	2122.5	0.150 mg/L	0.0020	0.150 mg/L	0.0020	1.33%		
Mg 279.077†	6677.0	2.03 mg/L	0.042	2.03 mg/L	0.042	2.09%		
Mn 257.610†	7924.3	0.00901 mg/L	0.000112	0.00901 mg/L	0.000112	1.25%		
Mo 202.031†	640.3	0.0164 mg/L	0.00034	0.0164 mg/L	0.00034	2.09%		
Ni 231.604†	92.1	-0.00165 mg/L	0.000220	-0.00165 mg/L	0.000220	13.32%		
Pb 220.353†	12.9	0.00056 mg/L	0.000450	0.00056 mg/L	0.000450	80.06%		
Sb 206.836†	0.6	0.00100 mg/L	0.001584	0.00100 mg/L	0.001584	157.87%		
Se 196.026†	-8.0	-0.00218 mg/L	0.002737	-0.00218 mg/L	0.002737	125.45%		
Si 251.611†	188643.7	3.73 mg/L	0.012	3.73 mg/L	0.012	0.33%		
Sn 189.927†	-38.2	-0.00460 mg/L	0.000350	-0.00460 mg/L	0.000350	7.62%		
Ti 334.940†	1253.7	0.00183 mg/L	0.000163	0.00183 mg/L	0.000163	8.88%		
Tl 190.801†	-11.8	-0.00536 mg/L	0.001254	-0.00536 mg/L	0.001254	23.37%		
V 290.880†	807.3	0.00243 mg/L	0.000644	0.00243 mg/L	0.000644	26.51%		
Zn 206.200†	525.7	0.00791 mg/L	0.000139	0.00791 mg/L	0.000139	1.76%		
K 766.490†	19945.0	6.48 mg/L	0.070	6.48 mg/L	0.070	1.08%		
Na 589.592†	1953741.0	101 mg/L	1.7	101 mg/L	1.7	1.66%		
Sr 407.771†	58510.1	0.0221 mg/L	0.00081	0.0221 mg/L	0.00081	3.67%		
Li 670.784†	726.8	0.00137 mg/L	0.000124	0.00137 mg/L	0.000124	9.04%		

Sequence No.: 9

u&osampler Location: 6

Sample ID: CCV

Date Collected: 7/26/2012 2:40:30 PM

Analyst:

Date Type: Original

Initial Sample Wt:

Initial Sample Vol:

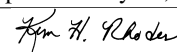
Dilution:

Sample Prep Vol:

Nebulizer Parameters: CCV

Analyte	Back Pressure	Flow
All	157.0 kPa	0.50 L/min

Approved: July 27, 2012



Mean Data: CCV

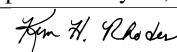
Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 371.029	2343966.0				15886.50	0.68%
YRADIAL	302446.3				1157.75	0.38%
Ga 417.206	1351960.8				31014.75	2.29%
GaRADIAL	85194.1				619.49	0.73%
Ag 328.068†	120665.7	0.390 mg/L	0.0104	0.390 mg/L	0.0104	2.68%
QC value within limits for Ag		328.068 Recovery = 97.42%				
Al 396.153†	68536.7	10.1 mg/L	0.02	10.1 mg/L	0.02	0.16%
QC value within limits for Al		396.153 Recovery = 101.33%				
As 188.979†	1345.2	0.379 mg/L	0.0096	0.379 mg/L	0.0096	2.53%
QC value within limits for As		188.979 Recovery = 94.71%				
Ba 233.527†	167335.4	1.01 mg/L	0.003	1.01 mg/L	0.003	0.27%
QC value within limits for Ba		233.527 Recovery = 100.89%				
Be 234.861†	56909.2	0.0480 mg/L	0.00109	0.0480 mg/L	0.00109	2.27%
QC value within limits for Be		234.861 Recovery = 96.02%				
B 249.677†	52064.4	0.476 mg/L	0.0164	0.476 mg/L	0.0164	3.43%
QC value within limits for B		249.677 Recovery = 95.25%				
Ca 227.546†	4302.6	10.1 mg/L	0.30	10.1 mg/L	0.30	2.91%
QC value within limits for Ca		227.546 Recovery = 101.33%				
Cd 228.802†	2580.5	0.0465 mg/L	0.00195	0.0465 mg/L	0.00195	4.20%
QC value within limits for Cd		228.802 Recovery = 92.91%				
Co 228.616†	8838.2	0.202 mg/L	0.0017	0.202 mg/L	0.0017	0.86%
QC value within limits for Co		228.616 Recovery = 100.76%				
Cr 267.716†	61871.6	0.502 mg/L	0.0039	0.502 mg/L	0.0039	0.78%
QC value within limits for Cr		267.716 Recovery = 100.37%				
Cu 327.393†	123940.4	0.491 mg/L	0.0108	0.491 mg/L	0.0108	2.21%
QC value within limits for Cu		327.393 Recovery = 98.19%				
Fe 239.562†	58732.6	4.02 mg/L	0.020	4.02 mg/L	0.020	0.50%
QC value within limits for Fe		239.562 Recovery = 100.45%				
Mg 279.077†	33382.6	10.1 mg/L	0.08	10.1 mg/L	0.08	0.76%
QC value within limits for Mg		279.077 Recovery = 100.59%				
Mn 257.610†	410351.4	0.508 mg/L	0.0028	0.508 mg/L	0.0028	0.55%
QC value within limits for Mn		257.610 Recovery = 101.62%				
Mo 202.031†	37605.0	1.01 mg/L	0.002	1.01 mg/L	0.002	0.24%
QC value within limits for Mo		202.031 Recovery = 101.41%				
Ni 231.604†	35829.4	0.518 mg/L	0.0041	0.518 mg/L	0.0041	0.80%
QC value within limits for Ni		231.604 Recovery = 103.64%				
Pb 220.353†	6911.8	0.509 mg/L	0.0030	0.509 mg/L	0.0030	0.58%
QC value within limits for Pb		220.353 Recovery = 101.78%				
Sb 206.836†	5361.4	1.15 mg/L	0.038	1.15 mg/L	0.038	3.26%
QC value within limits for Sb		206.836 Recovery = 96.06%				
Se 196.026†	786.8	0.388 mg/L	0.0119	0.388 mg/L	0.0119	3.08%
QC value within limits for Se		196.026 Recovery = 96.97%				
Si 251.611†	248056.0	4.89 mg/L	0.096	4.89 mg/L	0.096	1.97%
QC value within limits for Si		251.611 Recovery = 97.82%				
Sn 189.927†	12603.6	1.03 mg/L	0.008	1.03 mg/L	0.008	0.80%
QC value within limits for Sn		189.927 Recovery = 102.86%				
Ti 334.940†	1053348.1	1.02 mg/L	0.003	1.02 mg/L	0.003	0.32%
QC value within limits for Ti		334.940 Recovery = 101.72%				
Tl 190.801†	2032.1	0.531 mg/L	0.0037	0.531 mg/L	0.0037	0.69%
QC value within limits for Tl		190.801 Recovery = 106.10%				
V 290.880†	247393.0	1.01 mg/L	0.008	1.01 mg/L	0.008	0.83%
QC value within limits for V		290.880 Recovery = 100.96%				
Zn 206.200†	57047.6	1.00 mg/L	0.012	1.00 mg/L	0.012	1.20%
QC value within limits for Zn		206.200 Recovery = 100.29%				
K 766.490†	153692.4	51.1 mg/L	0.22	51.1 mg/L	0.22	0.43%
QC value within limits for K		766.490 Recovery = 102.17%				
Na 589.592†	1016762.9	51.1 mg/L	0.64	51.1 mg/L	0.64	1.25%
QC value within limits for Na		589.592 Recovery = 102.24%				
Sr 407.771†	2649438.5	1.02 mg/L	0.013	1.02 mg/L	0.013	1.28%
QC value within limits for Sr		407.771 Recovery = 102.49%				
Li 670.784†	156289.8	1.04 mg/L	0.004	1.04 mg/L	0.004	0.37%
QC value within limits for Li		670.784 Recovery = 104.38%				

All analyte(s) passed QC.

Sequence No.: 10
Sample ID: CCB
Analyst:
Initial Sample Wt:

Sampler Location: 1
Date Collected: 7/26/2012 2:46:42 PM
Sample Type: Original
Initial Sample Vol:

Approved: July 27, 2012



Dilution:

Sample Prep Vol:

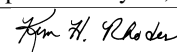
Nebulizer Parameters: CCB

Analyte	Back Pressure	Flow
All	157.0 kPa	0.50 L/min

Mean Data: CCB

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 371.029	2400725.8				14693.93	0.61%
YRADIAL	308501.4				6692.26	2.17%
Ga 417.206	1390649.3				8260.83	0.59%
GaRADIAL	87445.9				930.75	1.06%
Ag 328.068†	-91.0	0.00021 mg/L	0.000229	0.00021 mg/L	0.000229	108.56%
QC value within limits for Ag	328.068	Recovery =	Not calculated			
Al 396.153†	28.2	0.00263 mg/L	0.001768	0.00263 mg/L	0.001768	67.31%
QC value within limits for Al	396.153	Recovery =	Not calculated			
As 188.979†	3.0	-0.00057 mg/L	0.001453	-0.00057 mg/L	0.001453	256.41%
QC value within limits for As	188.979	Recovery =	Not calculated			
Ba 233.527†	4.0	-0.00178 mg/L	0.000069	-0.00178 mg/L	0.000069	3.88%
QC value within limits for Ba	233.527	Recovery =	Not calculated			
Be 234.861†	89.2	0.00012 mg/L	0.000006	0.00012 mg/L	0.000006	4.89%
QC value within limits for Be	234.861	Recovery =	Not calculated			
B 249.677†	69.2	0.00163 mg/L	0.000173	0.00163 mg/L	0.000173	10.60%
QC value within limits for B	249.677	Recovery =	Not calculated			
Ca 227.546†	7.9	0.0623 mg/L	0.01506	0.0623 mg/L	0.01506	24.19%
QC value within limits for Ca	227.546	Recovery =	Not calculated			
Cd 228.802†	-2.2	-0.00005 mg/L	0.000026	-0.00005 mg/L	0.000026	51.07%
QC value within limits for Cd	228.802	Recovery =	Not calculated			
Co 228.616†	-10.8	-0.00043 mg/L	0.000265	-0.00043 mg/L	0.000265	61.06%
QC value within limits for Co	228.616	Recovery =	Not calculated			
Cr 267.716†	9.7	-0.00045 mg/L	0.000107	-0.00045 mg/L	0.000107	23.52%
QC value within limits for Cr	267.716	Recovery =	Not calculated			
Cu 327.393†	-29.8	0.00030 mg/L	0.000240	0.00030 mg/L	0.000240	80.26%
QC value within limits for Cu	327.393	Recovery =	Not calculated			
Fe 239.562†	27.6	0.00664 mg/L	0.001189	0.00664 mg/L	0.001189	17.91%
QC value within limits for Fe	239.562	Recovery =	Not calculated			
Mg 279.077†	-12.6	0.0256 mg/L	0.00305	0.0256 mg/L	0.00305	11.93%
QC value within limits for Mg	279.077	Recovery =	Not calculated			
Mn 257.610†	63.2	-0.00074 mg/L	0.000015	-0.00074 mg/L	0.000015	2.02%
QC value within limits for Mn	257.610	Recovery =	Not calculated			
Mo 202.031†	0.1	-0.00086 mg/L	0.000076	-0.00086 mg/L	0.000076	8.76%
QC value within limits for Mo	202.031	Recovery =	Not calculated			
Ni 231.604†	21.0	-0.00268 mg/L	0.000027	-0.00268 mg/L	0.000027	1.02%
QC value within limits for Ni	231.604	Recovery =	Not calculated			
Pb 220.353†	-23.4	-0.00213 mg/L	0.000744	-0.00213 mg/L	0.000744	34.94%
QC value within limits for Pb	220.353	Recovery =	Not calculated			
Sb 206.836†	-1.3	0.00056 mg/L	0.000318	0.00056 mg/L	0.000318	56.36%
QC value within limits for Sb	206.836	Recovery =	Not calculated			
Se 196.026†	-6.2	-0.00129 mg/L	0.002485	-0.00129 mg/L	0.002485	192.31%
QC value within limits for Se	196.026	Recovery =	Not calculated			
Si 251.611†	517.8	0.00719 mg/L	0.000686	0.00719 mg/L	0.000686	9.55%
QC value within limits for Si	251.611	Recovery =	Not calculated			
Sn 189.927†	15.8	-0.00018 mg/L	0.000735	-0.00018 mg/L	0.000735	406.19%
QC value within limits for Sn	189.927	Recovery =	Not calculated			
Ti 334.940†	94.9	0.00018 mg/L	0.000288	0.00018 mg/L	0.000288	162.02%
QC value within limits for Ti	334.940	Recovery =	Not calculated			
Tl 190.801†	-5.8	-0.00384 mg/L	0.001908	-0.00384 mg/L	0.001908	49.75%
QC value within limits for Tl	190.801	Recovery =	Not calculated			
V 290.880†	255.1	0.00024 mg/L	0.001386	0.00024 mg/L	0.001386	587.78%
QC value within limits for V	290.880	Recovery =	Not calculated			
Zn 206.200†	4.9	-0.00122 mg/L	0.000180	-0.00122 mg/L	0.000180	14.74%
QC value within limits for Zn	206.200	Recovery =	Not calculated			
K 766.490†	105.7	-0.0305 mg/L	0.02823	-0.0305 mg/L	0.02823	92.46%
QC value within limits for K	766.490	Recovery =	Not calculated			
Na 589.592†	526.4	0.0279 mg/L	0.00090	0.0279 mg/L	0.00090	3.22%
QC value within limits for Na	589.592	Recovery =	Not calculated			
Sr 407.771†	206.8	-0.00035 mg/L	0.000010	-0.00035 mg/L	0.000010	2.81%
QC value within limits for Sr	407.771	Recovery =	Not calculated			
Li 670.784†	97.0	-0.00285 mg/L	0.000354	-0.00285 mg/L	0.000354	12.42%

Approved: July 27, 2012



QC value within limits for Li 670.784 Recovery = Not calculated
All analyte(s) passed QC.

Sequence No.: 11 u&osampler Location: 24
Sample ID: L1207064102 WG404092-01 Date Collected: 7/26/2012 2:53:47 PM
Analyst: KHR Data Type: Original
Initial Sample Wt: Initial Sample Vol:
Dilution: Sample Prep Vol:

Nebulizer Parameters: L1207064102 WG404092-01
Analyte Back Pressure Flow
All 157.0 kPa 0.50 L/min

Mean Data: L1207064102 WG404092-01

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 371.029	2294454.5					15112.52	0.66%
YRADIAL	298219.6					434.78	0.15%
Ga 417.206	1442480.2					7107.56	0.49%
GA RADIAL	87588.1					884.80	1.01%
Ag 328.068†	-902.4	0.00266 mg/L		0.000369	0.00266 mg/L	0.000369	13.88%
Al 396.153†	-81.2	-0.0125 mg/L		0.00512	-0.0125 mg/L	0.00512	41.06%
As 188.979†	145.9	0.0434 mg/L		0.00252	0.0434 mg/L	0.00252	5.80%
Ba 233.527†	41244.4	0.247 mg/L		0.0009	0.247 mg/L	0.0009	0.37%
Be 234.861†	3560.7	0.00017 mg/L		0.000051	0.00017 mg/L	0.000051	29.97%
B 249.677†	25462.0	0.230 mg/L		0.0019	0.230 mg/L	0.0019	0.82%
Ca 227.546†	48634.7	109 mg/L		1.3	109 mg/L	1.3	1.18%
Cd 228.802†	2.0	-0.00019 mg/L		0.000124	-0.00019 mg/L	0.000124	64.41%
Co 228.616†	-0.9	-0.00058 mg/L		0.000160	-0.00058 mg/L	0.000160	27.85%
Cr 267.716†	79.7	-0.00035 mg/L		0.000095	-0.00035 mg/L	0.000095	26.95%
Cu 327.393†	261.6	0.00205 mg/L		0.000297	0.00205 mg/L	0.000297	14.48%
Fe 239.562†	187655.1	12.8 mg/L		0.00	12.8 mg/L	0.00	0.03%
Mg 279.077†	67168.3	20.2 mg/L		0.02	20.2 mg/L	0.02	0.11%
Mn 257.610†	629703.0	0.779 mg/L		0.0075	0.779 mg/L	0.0075	0.97%
Mo 202.031†	169.3	0.00449 mg/L		0.000111	0.00449 mg/L	0.000111	2.47%
Ni 231.604†	672.4	0.00680 mg/L		0.000420	0.00680 mg/L	0.000420	6.17%
Pb 220.353†	40.6	0.00186 mg/L		0.000567	0.00186 mg/L	0.000567	30.45%
Sb 206.836†	-9.0	-0.00056 mg/L		0.000181	-0.00056 mg/L	0.000181	32.19%
Se 196.026†	-13.5	-0.00310 mg/L		0.001115	-0.00310 mg/L	0.001115	36.01%
Si 251.611†	583081.4	11.5 mg/L		0.08	11.5 mg/L	0.08	0.72%
Sn 189.927†	-297.9	-0.0258 mg/L		0.00025	-0.0258 mg/L	0.00025	0.98%
Ti 334.940†	-20235.4	-0.00313 mg/L		0.000839	-0.00313 mg/L	0.000839	26.80%
Tl 190.801†	-23.5	-0.00935 mg/L		0.000613	-0.00935 mg/L	0.000613	6.56%
V 290.880†	1516.8	0.00415 mg/L		0.000882	0.00415 mg/L	0.000882	21.25%
Zn 206.200†	751.4	0.0116 mg/L		0.00004	0.0116 mg/L	0.00004	0.35%
K 766.490†	4952.7	1.54 mg/L		0.012	1.54 mg/L	0.012	0.79%
Na 589.592†	843883.5	42.3 mg/L		0.47	42.3 mg/L	0.47	1.12%
Sr 407.771†	1981805.9	0.764 mg/L		0.0047	0.764 mg/L	0.0047	0.62%
Li 670.784†	4419.2	0.0261 mg/L		0.00016	0.0261 mg/L	0.00016	0.60%

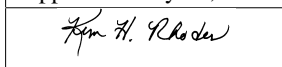
Sequence No.: 12 u&osampler Location: 25
Sample ID: L1207064102S WG404092-04 Date Collected: 7/26/2012 2:59:58 PM
Analyst: KHR Data Type: Original
Initial Sample Wt: Initial Sample Vol:
Dilution: Sample Prep Vol:

Nebulizer Parameters: L1207064102S WG404092-04
Analyte Back Pressure Flow
All 157.0 kPa 0.50 L/min

Mean Data: L1207064102S WG404092-04

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 371.029	2267612.5					10825.95	0.48%
YRADIAL	302193.0					3678.67	1.22%
Ga 417.206	1399418.7					49599.34	3.54%

Approved: July 27, 2012



GaRADIAL	88363.0					347.98	0.39%
Ag 328.068†	57022.4	0.189 mg/L	0.0094	0.189 mg/L	0.0094	0.0094	4.98%
Al 396.153†	33733.6	4.99 mg/L	0.025	4.99 mg/L	0.025	0.025	0.50%
As 188.979†	767.8	0.219 mg/L	0.0076	0.219 mg/L	0.0076	0.0076	3.48%
Ba 233.527†	121846.1	0.733 mg/L	0.0089	0.733 mg/L	0.0089	0.0089	1.22%
Be 234.861†	30056.1	0.0226 mg/L	0.00110	0.0226 mg/L	0.00110	0.00110	4.87%
B 249.677†	125312.4	1.15 mg/L	0.065	1.15 mg/L	0.065	0.065	5.68%
Ca 227.546†	51027.0	115 mg/L	6.5	115 mg/L	6.5	6.5	5.69%
Cd 228.802†	1187.6	0.0212 mg/L	0.00121	0.0212 mg/L	0.00121	0.00121	5.72%
Co 228.616†	4259.5	0.0966 mg/L	0.00104	0.0966 mg/L	0.00104	0.00104	1.08%
Cr 267.716†	30354.8	0.246 mg/L	0.0051	0.246 mg/L	0.0051	0.0051	2.07%
Cu 327.393†	60353.7	0.240 mg/L	0.0130	0.240 mg/L	0.0130	0.0130	5.43%
Fe 239.562†	210098.7	14.4 mg/L	0.11	14.4 mg/L	0.11	0.11	0.77%
Mg 279.077†	80152.5	24.1 mg/L	0.21	24.1 mg/L	0.21	0.21	0.89%
Mn 257.610†	815321.2	1.01 mg/L	0.004	1.01 mg/L	0.004	0.004	0.39%
Mo 202.031†	18521.7	0.500 mg/L	0.0029	0.500 mg/L	0.0029	0.0029	0.59%
Ni 231.604†	17430.0	0.251 mg/L	0.0039	0.251 mg/L	0.0039	0.0039	1.54%
Pb 220.353†	3432.4	0.252 mg/L	0.0023	0.252 mg/L	0.0023	0.0023	0.93%
Sb 206.836†	2534.1	0.546 mg/L	0.0265	0.546 mg/L	0.0265	0.0265	4.86%
Se 196.026†	358.5	0.179 mg/L	0.0084	0.179 mg/L	0.0084	0.0084	4.66%
Si 251.611†	701083.2	13.9 mg/L	0.40	13.9 mg/L	0.40	0.40	2.90%
Sn 189.927†	6096.5	0.497 mg/L	0.0032	0.497 mg/L	0.0032	0.0032	0.65%
Ti 334.940†	502028.0	0.501 mg/L	0.0033	0.501 mg/L	0.0033	0.0033	0.65%
Tl 190.801†	975.4	0.253 mg/L	0.0022	0.253 mg/L	0.0022	0.0022	0.89%
V 290.880†	125565.8	0.511 mg/L	0.0132	0.511 mg/L	0.0132	0.0132	2.59%
Zn 206.200†	27400.2	0.481 mg/L	0.0057	0.481 mg/L	0.0057	0.0057	1.19%
K 766.490†	81096.2	26.9 mg/L	0.09	26.9 mg/L	0.09	0.09	0.33%
Na 589.592†	1307221.8	66.2 mg/L	1.49	66.2 mg/L	1.49	1.49	2.25%
Sr 407.771†	3223509.0	1.24 mg/L	0.006	1.24 mg/L	0.006	0.006	0.50%
Li 670.784†	83885.1	0.559 mg/L	0.0040	0.559 mg/L	0.0040	0.0040	0.72%

Sequence No.: 13

Sample ID: L1207064102SD WG404092-05

Analyst: KHR

Initial Sample Wt:

Dilution:

u&osampler Location: 26

a&e Collected: 7/26/2012 3:06:16 PM

a&a Type: Original

n&ital Sample Vol:

a&ample Prep Vol:

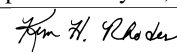
Nebulizer Parameters: L1207064102SD WG404092-05

Analyte	Back Pressure	Flow
All	157.0 kPa	0.50 L/min

Mean Data: L1207064102SD WG404092-05

Analyte	Mean Corrected		Calib. Conc. Units	Std.Dev.	Sample		Std.Dev.	RSD
	Intensity	Conc.			Conc.	Units		
Y 371.029	2260571.0					23863.15	1.06%	
YRADIAL	299595.2					2602.16	0.87%	
Ga 417.206	1411349.1					45242.57	3.21%	
GaRADIAL	87905.6					1357.21	1.54%	
Ag 328.068†	56459.3	0.188 mg/L	0.0073	0.188 mg/L	0.0073	0.0073	3.91%	
Al 396.153†	33721.2	4.99 mg/L	0.033	4.99 mg/L	0.033	0.033	0.65%	
As 188.979†	771.5	0.220 mg/L	0.0081	0.220 mg/L	0.0081	0.0081	3.68%	
Ba 233.527†	122890.8	0.740 mg/L	0.0067	0.740 mg/L	0.0067	0.0067	0.91%	
Be 234.861†	29963.9	0.0224 mg/L	0.00084	0.0224 mg/L	0.00084	0.00084	3.77%	
B 249.677†	124435.2	1.14 mg/L	0.048	1.14 mg/L	0.048	0.048	4.21%	
Ca 227.546†	51383.6	115 mg/L	4.4	115 mg/L	4.4	4.4	3.79%	
Cd 228.802†	1165.4	0.0207 mg/L	0.00096	0.0207 mg/L	0.00096	0.00096	4.64%	
Co 228.616†	4269.0	0.0969 mg/L	0.00122	0.0969 mg/L	0.00122	0.00122	1.26%	
Cr 267.716†	30491.8	0.247 mg/L	0.0041	0.247 mg/L	0.0041	0.0041	1.65%	
Cu 327.393†	59494.9	0.237 mg/L	0.0092	0.237 mg/L	0.0092	0.0092	3.87%	
Fe 239.562†	215257.2	14.7 mg/L	0.04	14.7 mg/L	0.04	0.04	0.28%	
Mg 279.077†	82133.6	24.7 mg/L	0.09	24.7 mg/L	0.09	0.09	0.38%	
Mn 257.610†	831786.7	1.03 mg/L	0.012	1.03 mg/L	0.012	0.012	1.19%	
Mo 202.031†	18753.2	0.506 mg/L	0.0036	0.506 mg/L	0.0036	0.0036	0.72%	
Ni 231.604†	17502.9	0.252 mg/L	0.0036	0.252 mg/L	0.0036	0.0036	1.43%	
Pb 220.353†	3459.2	0.254 mg/L	0.0027	0.254 mg/L	0.0027	0.0027	1.06%	
Sb 206.836†	2514.8	0.542 mg/L	0.0190	0.542 mg/L	0.0190	0.0190	3.50%	
Se 196.026†	353.2	0.177 mg/L	0.0039	0.177 mg/L	0.0039	0.0039	2.21%	
Si 251.611†	708970.4	14.0 mg/L	0.33	14.0 mg/L	0.33	0.33	2.39%	
Sn 189.927†	6139.1	0.500 mg/L	0.0072	0.500 mg/L	0.0072	0.0072	1.44%	

Approved: July 27, 2012



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Date: 7/26/2012 3:21:26 PM

Ti 334.940†	502057.8	0.501 mg/L	0.0023	0.501 mg/L	0.0023	0.46%
Tl 190.801†	968.0	0.251 mg/L	0.0030	0.251 mg/L	0.0030	1.18%
V 290.880†	125652.6	0.511 mg/L	0.0056	0.511 mg/L	0.0056	1.09%
Zn 206.200†	27462.3	0.482 mg/L	0.0090	0.482 mg/L	0.0090	1.87%
K 766.490†	82084.3	27.2 mg/L	0.25	27.2 mg/L	0.25	0.92%
Na 589.592†	1345003.9	68.2 mg/L	0.95	68.2 mg/L	0.95	1.39%
Sr 407.771†	3336936.7	1.29 mg/L	0.002	1.29 mg/L	0.002	0.19%
Li 670.784†	84586.2	0.563 mg/L	0.0035	0.563 mg/L	0.0035	0.62%

Sequence No.: 14
 Sample ID: L1207064103
 Analyst: KHR
 Initial Sample Wt:
 Dilution:

u&osampler Location: 27
 ame Collected: 7/26/2012 3:12:32 PM
 aMa Type: Original
 nitial Sample Vol:
 ample Prep Vol:

Nebulizer Parameters: L1207064103

Analyte Back Pressure Flow
 All 157.0 kPa 0.50 L/min

Mean Data: L1207064103

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 371.029	2292122.1				29679.71	1.29%
YRADIAL	296490.6				2389.02	0.81%
Ga 417.206	1439522.3				32392.66	2.25%
GaRADIAL	86711.5				205.70	0.24%
Ag 328.068†	575.0	0.00301 mg/L	0.000298	0.00301 mg/L	0.000298	9.92%
Al 396.153†	2.9	-0.00114 mg/L	0.004490	-0.00114 mg/L	0.004490	395.18%
As 188.979†	5.0	0.00050 mg/L	0.000694	0.00050 mg/L	0.000694	139.20%
Ba 233.527†	30241.7	0.181 mg/L	0.0038	0.181 mg/L	0.0038	2.09%
Be 234.861†	888.2	0.00038 mg/L	0.000109	0.00038 mg/L	0.000109	28.52%
B 249.677†	22494.5	0.207 mg/L	0.0071	0.207 mg/L	0.0071	3.43%
Ca 227.546†	52018.4	117 mg/L	3.6	117 mg/L	3.6	3.12%
Cd 228.802†	10.1	0.00019 mg/L	0.000199	0.00019 mg/L	0.000199	107.40%
Co 228.616†	42.5	0.00069 mg/L	0.000396	0.00069 mg/L	0.000396	57.64%
Cr 267.716†	126.8	0.00042 mg/L	0.000164	0.00042 mg/L	0.000164	38.77%
Cu 327.393†	3945.6	0.0160 mg/L	0.00029	0.0160 mg/L	0.00029	1.83%
Fe 239.562†	31595.9	2.16 mg/L	0.008	2.16 mg/L	0.008	0.37%
Mg 279.077†	52649.7	15.8 mg/L	0.02	15.8 mg/L	0.02	0.15%
Mn 257.610†	606884.6	0.751 mg/L	0.0037	0.751 mg/L	0.0037	0.49%
Mo 202.031†	138.8	0.00314 mg/L	0.000240	0.00314 mg/L	0.000240	7.64%
Ni 231.604†	19249.0	0.277 mg/L	0.0040	0.277 mg/L	0.0040	1.44%
Pb 220.353†	66.1	0.00478 mg/L	0.001112	0.00478 mg/L	0.001112	23.27%
Sb 206.836†	-11.1	-0.00125 mg/L	0.000530	-0.00125 mg/L	0.000530	42.29%
Se 196.026†	-3.4	0.00028 mg/L	0.003471	0.00028 mg/L	0.003471	>999.9%
Si 251.611†	518676.4	10.3 mg/L	0.22	10.3 mg/L	0.22	2.15%
Sn 189.927†	-317.2	-0.0274 mg/L	0.00054	-0.0274 mg/L	0.00054	1.98%
Ti 334.940†	-21401.3	-0.00312 mg/L	0.001620	-0.00312 mg/L	0.001620	51.90%
Tl 190.801†	-33.7	-0.0119 mg/L	0.00130	-0.0119 mg/L	0.00130	10.87%
V 290.880†	1481.2	0.00471 mg/L	0.002006	0.00471 mg/L	0.002006	42.59%
Zn 206.200†	2328.8	0.0395 mg/L	0.00020	0.0395 mg/L	0.00020	0.50%
K 766.490†	8507.4	2.74 mg/L	0.023	2.74 mg/L	0.023	0.83%
Na 589.592†	618306.6	30.8 mg/L	0.26	30.8 mg/L	0.26	0.83%
Sr 407.771†	1725247.4	0.665 mg/L	0.0100	0.665 mg/L	0.0100	1.50%
Li 670.784†	4218.0	0.0248 mg/L	0.00044	0.0248 mg/L	0.00044	1.77%

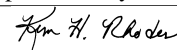
Sequence No.: 15
 Sample ID: L1207064104
 Analyst: KHR
 Initial Sample Wt:
 Dilution:

u&osampler Location: 28
 ame Collected: 7/26/2012 3:18:43 PM
 aMa Type: Original
 nitial Sample Vol:
 ample Prep Vol:

Nebulizer Parameters: L1207064104

Analyte Back Pressure Flow
 All 157.0 kPa 0.50 L/min

Approved: July 27, 2012



Mean Data: L1207064104

Analyte	Mean Corrected		Calib.		Sample		Std.Dev.	RSD
	Intensity	Conc.	Units	Std.Dev.	Conc.	Units		
Y 371.029	2267365.5						12170.79	0.54%
YRADIAL	298017.8						3371.83	1.13%
Ga 417.206	1430512.5						15351.62	1.07%
GaRADIAL	87443.1						1117.60	1.28%
Ag 328.068†	-517.3	0.00375	mg/L	0.000656	0.00375	mg/L	0.000656	17.52%
Al 396.153†	-59.1	-0.00898	mg/L	0.003104	-0.00898	mg/L	0.003104	34.55%
As 188.979†	313.8	0.0915	mg/L	0.00133	0.0915	mg/L	0.00133	1.45%
Ba 233.527†	26683.4	0.159	mg/L	0.0004	0.159	mg/L	0.0004	0.25%
Be 234.861†	3405.7	0.00011	mg/L	0.000107	0.00011	mg/L	0.000107	93.48%
B 249.677†	22030.5	0.198	mg/L	0.0022	0.198	mg/L	0.0022	1.09%
Ca 227.546†	72547.5	162	mg/L	0.7	162	mg/L	0.7	0.42%
Cd 228.802†	6.2	-0.00035	mg/L	0.000068	-0.00035	mg/L	0.000068	19.18%
Co 228.616†	5.1	-0.00038	mg/L	0.000272	-0.00038	mg/L	0.000272	70.74%
Cr 267.716†	1795.3	0.0136	mg/L	0.00012	0.0136	mg/L	0.00012	0.88%
Cu 327.393†	-181.9	0.00028	mg/L	0.000485	0.00028	mg/L	0.000485	172.09%
Fe 239.562†	183756.4	12.6	mg/L	0.09	12.6	mg/L	0.09	0.72%
Mg 279.077†	47193.0	14.2	mg/L	0.30	14.2	mg/L	0.30	2.14%
Mn 257.610†	735875.0	0.911	mg/L	0.0088	0.911	mg/L	0.0088	0.97%
Mo 202.031†	51.1	0.00132	mg/L	0.000403	0.00132	mg/L	0.000403	30.58%
Ni 231.604†	421.3	0.00315	mg/L	0.000456	0.00315	mg/L	0.000456	14.50%
Pb 220.353†	14.0	0.00028	mg/L	0.000904	0.00028	mg/L	0.000904	321.17%
Sb 206.836†	-7.8	-0.00042	mg/L	0.000880	-0.00042	mg/L	0.000880	210.24%
Se 196.026†	-16.5	-0.00462	mg/L	0.002317	-0.00462	mg/L	0.002317	50.18%
Si 251.611†	733791.2	14.5	mg/L	0.13	14.5	mg/L	0.13	0.88%
Sn 189.927†	-334.6	-0.0288	mg/L	0.00065	-0.0288	mg/L	0.00065	2.26%
Ti 334.940†	-29844.2	-0.00439	mg/L	0.001474	-0.00439	mg/L	0.001474	33.58%
Tl 190.801†	-37.1	-0.0131	mg/L	0.00200	-0.0131	mg/L	0.00200	15.31%
V 290.880†	1362.2	0.00368	mg/L	0.000913	0.00368	mg/L	0.000913	24.79%
Zn 206.200†	333.2	0.00441	mg/L	0.000069	0.00441	mg/L	0.000069	1.57%
K 766.490†	12891.1	4.19	mg/L	0.021	4.19	mg/L	0.021	0.49%
Na 589.592†	852888.8	42.7	mg/L	0.96	42.7	mg/L	0.96	2.24%
Sr 407.771†	2160805.2	0.832	mg/L	0.0043	0.832	mg/L	0.0043	0.51%
Li 670.784†	3227.0	0.0181	mg/L	0.00032	0.0181	mg/L	0.00032	1.79%

Sequence No.: 16

Sample ID: L1207064105

Analyst: KHR

Initial Sample Wt:

Dilution:

u&osampler Location: 29

a&e Collected: 7/26/2012 3:24:55 PM

a&a Type: Original

n&ital Sample Vol:

a&ample Prep Vol:

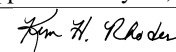
Nebulizer Parameters: L1207064105

Analyte	Back Pressure	Flow
All	157.0 kPa	0.50 L/min

Mean Data: L1207064105

Analyte	Mean Corrected		Calib.		Sample		Std.Dev.	RSD
	Intensity	Conc.	Units	Std.Dev.	Conc.	Units		
Y 371.029	2260765.7						2502.27	0.11%
YRADIAL	300618.0						2148.64	0.71%
Ga 417.206	1413175.8						41162.45	2.91%
GaRADIAL	88582.9						1275.12	1.44%
Ag 328.068†	704.0	0.00305	mg/L	0.000160	0.00305	mg/L	0.000160	5.24%
Al 396.153†	-55.9	-0.00984	mg/L	0.007532	-0.00984	mg/L	0.007532	76.51%
As 188.979†	65.4	0.0177	mg/L	0.00161	0.0177	mg/L	0.00161	9.07%
Ba 233.527†	79284.5	0.477	mg/L	0.0010	0.477	mg/L	0.0010	0.21%
Be 234.861†	706.7	0.00051	mg/L	0.000103	0.00051	mg/L	0.000103	20.30%
B 249.677†	29737.9	0.274	mg/L	0.0092	0.274	mg/L	0.0092	3.36%
Ca 227.546†	50636.4	113	mg/L	4.7	113	mg/L	4.7	4.15%
Cd 228.802†	9.6	0.00008	mg/L	0.000129	0.00008	mg/L	0.000129	155.27%
Co 228.616†	87.2	0.00166	mg/L	0.000100	0.00166	mg/L	0.000100	6.06%
Cr 267.716†	304.2	0.00188	mg/L	0.000144	0.00188	mg/L	0.000144	7.69%
Cu 327.393†	110.5	0.00091	mg/L	0.000718	0.00091	mg/L	0.000718	78.48%
Fe 239.562†	25176.7	1.73	mg/L	0.011	1.73	mg/L	0.011	0.63%
Mg 279.077†	44253.3	13.3	mg/L	0.10	13.3	mg/L	0.10	0.77%
Mn 257.610†	2060056.7	2.55	mg/L	0.010	2.55	mg/L	0.010	0.39%
Mo 202.031†	84.0	0.00202	mg/L	0.000045	0.00202	mg/L	0.000045	2.21%

Approved: July 27, 2012



Ni 231.604†	351.6	0.00213 mg/L	0.000257	0.00213 mg/L	0.000257	12.06%
Pb 220.353†	25.5	0.00068 mg/L	0.000827	0.00068 mg/L	0.000827	120.83%
Sb 206.836†	-4.1	0.00003 mg/L	0.001034	0.00003 mg/L	0.001034	>999.9%
Se 196.026†	0.7	0.00158 mg/L	0.002935	0.00158 mg/L	0.002935	185.60%
Si 251.611†	652950.6	12.9 mg/L	0.25	12.9 mg/L	0.25	1.94%
Sn 189.927†	-318.1	-0.0275 mg/L	0.00053	-0.0275 mg/L	0.00053	1.92%
Ti 334.940†	-20829.3	-0.00303 mg/L	0.001679	-0.00303 mg/L	0.001679	55.34%
Tl 190.801†	-22.9	-0.0110 mg/L	0.00279	-0.0110 mg/L	0.00279	25.38%
V 290.880†	2246.7	0.00791 mg/L	0.001551	0.00791 mg/L	0.001551	19.60%
Zn 206.200†	146.8	0.00125 mg/L	0.000143	0.00125 mg/L	0.000143	11.41%
K 766.490†	7565.2	2.39 mg/L	0.019	2.39 mg/L	0.019	0.81%
Na 589.592†	1327432.5	67.2 mg/L	0.32	67.2 mg/L	0.32	0.47%
Sr 407.771†	1279916.6	0.492 mg/L	0.0029	0.492 mg/L	0.0029	0.58%
Li 670.784†	3160.6	0.0177 mg/L	0.00054	0.0177 mg/L	0.00054	3.03%

Sequence No.: 17
Sample ID: L1207064106
Analyst: KHR
Initial Sample Wt:
Dilution:

u&osampler Location: 30
a&e Collected: 7/26/2012 3:31:06 PM
a&a Type: Original
n&ital Sample Vol:
a&le Prep Vol:

Nebulizer Parameters: L1207064106
Analyte Back Pressure Flow
All 157.0 kPa 0.50 L/min

Mean Data: L1207064106

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc. Units	Sample Std.Dev.	RSD
Y 371.029	2266882.9					13021.66	0.57%
YRADIAL	298441.5					813.52	0.27%
Ga 417.206	1402199.9					46122.68	3.29%
GaRADIAL	87087.7					340.68	0.39%
Ag 328.068†	428.7	0.00263 mg/L	0.000231	0.00263 mg/L	0.000231	8.78%	
Al 396.153†	-84.9	-0.0140 mg/L	0.00943	-0.0140 mg/L	0.00943	67.23%	
As 188.979†	47.8	0.0129 mg/L	0.00025	0.0129 mg/L	0.00025	1.96%	
Ba 233.527†	77670.8	0.467 mg/L	0.0016	0.467 mg/L	0.0016	0.33%	
Be 234.861†	887.7	0.00039 mg/L	0.000120	0.00039 mg/L	0.000120	30.77%	
B 249.677†	32781.6	0.301 mg/L	0.0104	0.301 mg/L	0.0104	3.45%	
Ca 227.546†	47477.0	106 mg/L	3.4	106 mg/L	3.4	3.25%	
Cd 228.802†	0.9	-0.00006 mg/L	0.000118	-0.00006 mg/L	0.000118	208.38%	
Co 228.616†	52.4	0.00083 mg/L	0.000175	0.00083 mg/L	0.000175	21.12%	
Cr 267.716†	134.5	0.00046 mg/L	0.000025	0.00046 mg/L	0.000025	5.33%	
Cu 327.393†	23.5	0.00062 mg/L	0.000271	0.00062 mg/L	0.000271	43.58%	
Fe 239.562†	39935.5	2.73 mg/L	0.013	2.73 mg/L	0.013	0.46%	
Mg 279.077†	42260.6	12.7 mg/L	0.06	12.7 mg/L	0.06	0.47%	
Mn 257.610†	1786176.7	2.21 mg/L	0.020	2.21 mg/L	0.020	0.89%	
Mo 202.031†	74.2	0.00173 mg/L	0.000302	0.00173 mg/L	0.000302	17.39%	
Ni 231.604†	278.8	0.00107 mg/L	0.000321	0.00107 mg/L	0.000321	30.03%	
Pb 220.353†	17.9	0.00019 mg/L	0.000719	0.00019 mg/L	0.000719	387.47%	
Sb 206.836†	-10.5	-0.00129 mg/L	0.000823	-0.00129 mg/L	0.000823	63.83%	
Se 196.026†	-11.3	-0.00406 mg/L	0.002333	-0.00406 mg/L	0.002333	57.50%	
Si 251.611†	647235.2	12.8 mg/L	0.30	12.8 mg/L	0.30	2.32%	
Sn 189.927†	-294.7	-0.0256 mg/L	0.00100	-0.0256 mg/L	0.00100	3.93%	
Ti 334.940†	-19610.2	-0.00292 mg/L	0.001670	-0.00292 mg/L	0.001670	57.26%	
Tl 190.801†	-24.0	-0.0109 mg/L	0.00296	-0.0109 mg/L	0.00296	27.21%	
V 290.880†	1757.4	0.00588 mg/L	0.001242	0.00588 mg/L	0.001242	21.13%	
Zn 206.200†	156.8	0.00140 mg/L	0.000058	0.00140 mg/L	0.000058	4.13%	
K 766.490†	7304.6	2.30 mg/L	0.040	2.30 mg/L	0.040	1.75%	
Na 589.592†	1419159.5	72.0 mg/L	0.21	72.0 mg/L	0.21	0.28%	
Sr 407.771†	1171691.5	0.451 mg/L	0.0091	0.451 mg/L	0.0091	2.02%	
Li 670.784†	3249.8	0.0183 mg/L	0.00018	0.0183 mg/L	0.00018	0.97%	

Sequence No.: 18
Sample ID: L1207064107
Analyst: KHR
Initial Sample Wt:
Dilution:

u&osampler Location: 31
a&e Collected: 7/26/2012 3:37:17 PM
a&a Type: Original
n&ital Sample Vol:
a&le Prep Vol:

Approved: July 27, 2012
Ken H. Rhodes

Nebulizer Parameters: L1207064107

Analyte Back Pressure Flow
All 157.0 kPa 0.50 L/min

Mean Data: L1207064107

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	2262954.2						22223.64	0.98%
YRADIAL	303553.6						1036.76	0.34%
Ga 417.206	1411918.6						22897.18	1.62%
GaRADIAL	87612.8						404.29	0.46%
Ag 328.068†	-1101.7	0.00264	mg/L	0.000303	0.00264	mg/L	0.000303	11.49%
Al 396.153†	9253.1	1.38	mg/L	0.007	1.38	mg/L	0.007	0.52%
As 188.979†	527.6	0.153	mg/L	0.0024	0.153	mg/L	0.0024	1.54%
Ba 233.527†	61879.3	0.371	mg/L	0.0038	0.371	mg/L	0.0038	1.02%
Be 234.861†	3926.8	0.00018	mg/L	0.000070	0.00018	mg/L	0.000070	39.13%
B 249.677†	27212.6	0.245	mg/L	0.0052	0.245	mg/L	0.0052	2.13%
Ca 227.546†	53805.0	121	mg/L	2.0	121	mg/L	2.0	1.69%
Cd 228.802†	3.2	-0.00072	mg/L	0.000372	-0.00072	mg/L	0.000372	51.99%
Co 228.616†	47.8	0.00044	mg/L	0.000320	0.00044	mg/L	0.000320	73.20%
Cr 267.716†	252.4	0.00102	mg/L	0.000078	0.00102	mg/L	0.000078	7.66%
Cu 327.393†	11568.4	0.0467	mg/L	0.00096	0.0467	mg/L	0.00096	2.04%
Fe 239.562†	206948.1	14.1	mg/L	0.06	14.1	mg/L	0.06	0.43%
Mg 279.077†	38039.9	11.4	mg/L	0.06	11.4	mg/L	0.06	0.54%
Mn 257.610†	653503.5	0.809	mg/L	0.0067	0.809	mg/L	0.0067	0.82%
Mo 202.031†	109.7	0.00296	mg/L	0.000253	0.00296	mg/L	0.000253	8.53%
Ni 231.604†	296.1	0.00132	mg/L	0.000391	0.00132	mg/L	0.000391	29.61%
Pb 220.353†	79.7	0.00487	mg/L	0.000679	0.00487	mg/L	0.000679	13.94%
Sb 206.836†	-11.3	-0.00094	mg/L	0.000539	-0.00094	mg/L	0.000539	57.18%
Se 196.026†	-10.7	-0.00144	mg/L	0.003402	-0.00144	mg/L	0.003402	235.80%
Si 251.611†	716049.9	14.2	mg/L	0.23	14.2	mg/L	0.23	1.64%
Sn 189.927†	-323.1	-0.0279	mg/L	0.00047	-0.0279	mg/L	0.00047	1.70%
Ti 334.940†	-9026.3	0.00941	mg/L	0.001278	0.00941	mg/L	0.001278	13.58%
Tl 190.801†	-25.7	-0.00974	mg/L	0.003832	-0.00974	mg/L	0.003832	39.34%
V 290.880†	4114.6	0.0149	mg/L	0.00170	0.0149	mg/L	0.00170	11.39%
Zn 206.200†	2328.1	0.0392	mg/L	0.00003	0.0392	mg/L	0.00003	0.06%
K 766.490†	5822.4	1.83	mg/L	0.030	1.83	mg/L	0.030	1.62%
Na 589.592†	941854.2	47.3	mg/L	0.69	47.3	mg/L	0.69	1.46%
Sr 407.771†	1211497.1	0.466	mg/L	0.0047	0.466	mg/L	0.0047	1.00%
Li 670.784†	2254.0	0.0116	mg/L	0.00025	0.0116	mg/L	0.00025	2.13%

Sequence No.: 19

Sample ID: L1207064108

Analyst: KHR

Initial Sample Wt:

Dilution:

u&osampler Location: 32

a&e Collected: 7/26/2012 3:43:29 PM

a&a Type: Original

nitial Sample Vol:

a&ple Prep Vol:

Nebulizer Parameters: L1207064108

Analyte Back Pressure Flow
All 157.0 kPa 0.50 L/min

Mean Data: L1207064108

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	2262593.3						16910.82	0.75%
YRADIAL	296262.3						1359.93	0.46%
Ga 417.206	1476869.4						42938.07	2.91%
GaRADIAL	89940.9						2138.53	2.38%
Ag 328.068†	662.8	0.00250	mg/L	0.000249	0.00250	mg/L	0.000249	9.98%
Al 396.153†	-43.3	-0.00815	mg/L	0.001045	-0.00815	mg/L	0.001045	12.83%
As 188.979†	4.7	-0.00005	mg/L	0.002013	-0.00005	mg/L	0.002013	>999.9%
Ba 233.527†	42957.6	0.258	mg/L	0.0020	0.258	mg/L	0.0020	0.76%
Be 234.861†	268.3	0.00032	mg/L	0.000028	0.00032	mg/L	0.000028	9.03%
B 249.677†	23826.2	0.220	mg/L	0.0061	0.220	mg/L	0.0061	2.75%
Ca 227.546†	45508.7	102	mg/L	3.0	102	mg/L	3.0	2.98%
Cd 228.802†	-3.0	-0.00007	mg/L	0.000083	-0.00007	mg/L	0.000083	119.36%
Co 228.616†	7.1	-0.00006	mg/L	0.000142	-0.00006	mg/L	0.000142	222.03%

Approved: July 27, 2012

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Cr 267.716†	124.3	0.00047 mg/L	0.000096	0.00047 mg/L	0.000096	20.32%
Cu 327.393†	1668.1	0.00698 mg/L	0.000471	0.00698 mg/L	0.000471	6.75%
Fe 239.562†	2027.3	0.143 mg/L	0.0011	0.143 mg/L	0.0011	0.75%
Mg 279.077†	37426.8	11.3 mg/L	0.04	11.3 mg/L	0.04	0.31%
Mn 257.610†	563058.5	0.697 mg/L	0.0049	0.697 mg/L	0.0049	0.71%
Mo 202.031†	77.6	0.00138 mg/L	0.000190	0.00138 mg/L	0.000190	13.73%
Ni 231.604†	148.7	-0.00082 mg/L	0.000113	-0.00082 mg/L	0.000113	13.75%
Pb 220.353†	39.9	0.00290 mg/L	0.000981	0.00290 mg/L	0.000981	33.85%
Sb 206.836†	-6.9	-0.00063 mg/L	0.001531	-0.00063 mg/L	0.001531	241.97%
Se 196.026†	-0.3	0.00140 mg/L	0.001275	0.00140 mg/L	0.001275	90.97%
Si 251.611†	482865.4	9.55 mg/L	0.216	9.55 mg/L	0.216	2.26%
Sn 189.927†	-309.5	-0.0268 mg/L	0.00082	-0.0268 mg/L	0.00082	3.06%
Ti 334.940†	-21732.4	-0.00562 mg/L	0.000687	-0.00562 mg/L	0.000687	12.23%
Tl 190.801†	-20.9	-0.00862 mg/L	0.004068	-0.00862 mg/L	0.004068	47.21%
V 290.880†	1260.0	0.00403 mg/L	0.000944	0.00403 mg/L	0.000944	23.41%
Zn 206.200†	499.1	0.00744 mg/L	0.000287	0.00744 mg/L	0.000287	3.86%
K 766.490†	5256.1	1.64 mg/L	0.014	1.64 mg/L	0.014	0.86%
Na 589.592†	848359.5	42.5 mg/L	0.90	42.5 mg/L	0.90	2.13%
Sr 407.771†	1245868.9	0.480 mg/L	0.0118	0.480 mg/L	0.0118	2.47%
Li 670.784†	2257.9	0.0116 mg/L	0.00019	0.0116 mg/L	0.00019	1.61%

Sequence No.: 20

Sample ID: CCV

Analyst:

Initial Sample Wt:

Dilution:

Sampler Location: 6

Date Collected: 7/26/2012 3:50:38 PM

Sample Type: Original

Initial Sample Vol:

Sample Prep Vol:

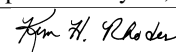
Nebulizer Parameters: CCV

Analyte	Back Pressure	Flow
All	157.0 kPa	0.50 L/min

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 371.029	2307508.4				9808.14	0.43%
YRADIAL	304126.8				5518.09	1.81%
Ga 417.206	1375092.9				12632.88	0.92%
GaRADIAL	86709.6				1730.57	2.00%
Ag 328.068†	116940.1	0.378 mg/L	0.0037	0.378 mg/L	0.0037	0.97%
QC value within limits for Ag	328.068	Recovery = 94.43%				
Al 396.153†	68020.9	10.1 mg/L	0.00	10.1 mg/L	0.00	0.04%
QC value within limits for Al	396.153	Recovery = 100.58%				
As 188.979†	1288.4	0.363 mg/L	0.0027	0.363 mg/L	0.0027	0.73%
QC value within limits for As	188.979	Recovery = 90.66%				
Ba 233.527†	164533.0	0.992 mg/L	0.0056	0.992 mg/L	0.0056	0.56%
QC value within limits for Ba	233.527	Recovery = 99.20%				
Be 234.861†	54219.4	0.0457 mg/L	0.00059	0.0457 mg/L	0.00059	1.29%
QC value within limits for Be	234.861	Recovery = 91.48%				
B 249.677†	50006.1	0.457 mg/L	0.0060	0.457 mg/L	0.0060	1.30%
QC value within limits for B	249.677	Recovery = 91.48%				
Ca 227.546†	4220.9	9.94 mg/L	0.138	9.94 mg/L	0.138	1.39%
QC value within limits for Ca	227.546	Recovery = 99.43%				
Cd 228.802†	2468.7	0.0445 mg/L	0.00137	0.0445 mg/L	0.00137	3.08%
QC value less than the lower limit for Cd	228.802	Recovery = 88.92%				
Co 228.616†	8747.7	0.199 mg/L	0.0012	0.199 mg/L	0.0012	0.62%
QC value within limits for Co	228.616	Recovery = 99.71%				
Cr 267.716†	60716.3	0.492 mg/L	0.0026	0.492 mg/L	0.0026	0.54%
QC value within limits for Cr	267.716	Recovery = 98.50%				
Cu 327.393†	121900.2	0.483 mg/L	0.0049	0.483 mg/L	0.0049	1.01%
QC value within limits for Cu	327.393	Recovery = 96.58%				
Fe 239.562†	56964.0	3.90 mg/L	0.027	3.90 mg/L	0.027	0.69%
QC value within limits for Fe	239.562	Recovery = 97.43%				
Mg 279.077†	32374.0	9.76 mg/L	0.105	9.76 mg/L	0.105	1.08%
QC value within limits for Mg	279.077	Recovery = 97.56%				
Mn 257.610†	405137.8	0.502 mg/L	0.0047	0.502 mg/L	0.0047	0.95%
QC value within limits for Mn	257.610	Recovery = 100.33%				
Mo 202.031†	36963.2	0.997 mg/L	0.0074	0.997 mg/L	0.0074	0.74%
QC value within limits for Mo	202.031	Recovery = 99.68%				
Ni 231.604†	35399.5	0.512 mg/L	0.0021	0.512 mg/L	0.0021	0.42%

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Pb	QC value within limits for Ni 231.604	Recovery = 102.39%					
	220.353†	6856.9	0.505 mg/L	0.0019	0.505 mg/L	0.0019	0.38%
Sb	QC value within limits for Pb 220.353	Recovery = 100.98%					
	206.836†	5184.0	1.11 mg/L	0.020	1.11 mg/L	0.020	1.76%
Se	QC value within limits for Sb 206.836	Recovery = 92.88%					
	196.026†	762.7	0.376 mg/L	0.0055	0.376 mg/L	0.0055	1.47%
Si	QC value within limits for Se 196.026	Recovery = 94.01%					
	251.611†	238680.9	4.71 mg/L	0.023	4.71 mg/L	0.023	0.49%
Sn	QC value within limits for Si 251.611	Recovery = 94.12%					
	189.927†	12383.2	1.01 mg/L	0.005	1.01 mg/L	0.005	0.45%
Ti	QC value within limits for Sn 189.927	Recovery = 101.06%					
	334.940†	1047501.9	1.01 mg/L	0.006	1.01 mg/L	0.006	0.55%
Tl	QC value within limits for Ti 334.940	Recovery = 101.15%					
	190.801†	2021.0	0.528 mg/L	0.0039	0.528 mg/L	0.0039	0.75%
V	QC value within limits for Tl 190.801	Recovery = 105.52%					
	290.880†	245392.7	1.00 mg/L	0.006	1.00 mg/L	0.006	0.64%
Zn	QC value within limits for V 290.880	Recovery = 100.15%					
	206.200†	54643.1	0.961 mg/L	0.0024	0.961 mg/L	0.0024	0.25%
K	QC value within limits for Zn 206.200	Recovery = 96.07%					
	766.490†	153366.6	51.0 mg/L	0.06	51.0 mg/L	0.06	0.12%
Na	QC value within limits for K 766.490	Recovery = 101.96%					
	589.592†	998007.5	50.2 mg/L	1.30	50.2 mg/L	1.30	2.60%
Sr	QC value within limits for Na 589.592	Recovery = 100.31%					
	407.771†	2626209.3	1.02 mg/L	0.032	1.02 mg/L	0.032	3.12%
Li	QC value within limits for Sr 407.771	Recovery = 101.59%					
	670.784†	160210.6	1.07 mg/L	0.016	1.07 mg/L	0.016	1.46%
	QC value within limits for Li 670.784	Recovery = 107.01%					
	QC Failed.	Continue with analysis.					

Sequence No.: 21

Sample ID: CCB

Analyst:

Initial Sample Wt:

Dilution:

u*sampler Location: 1

a*e Collected: 7/26/2012 3:56:50 PM

a*a Type: Original

n*itial Sample Vol:

a*mp*le Prep Vol:

Nebulizer Parameters: CCB

Analyte	Back Pressure	Flow
All	157.0 kPa	0.50 L/min

Mean Data: CCB

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 371.029	2390251.9					25473.40	1.07%
YRADIAL	302820.4					3157.04	1.04%
Ga 417.206	1414393.4					4165.01	0.29%
GaRADIAL	87387.7					1318.92	1.51%
Ag 328.068†	-34.4	0.00039 mg/L	0.000370	0.00039 mg/L	0.000370	94.48%	
	QC value within limits for Ag 328.068	Recovery = Not calculated					
Al 396.153†	12.0	0.00023 mg/L	0.000621	0.00023 mg/L	0.000621	267.86%	
	QC value within limits for Al 396.153	Recovery = Not calculated					
As 188.979†	2.6	-0.00067 mg/L	0.000995	-0.00067 mg/L	0.000995	147.87%	
	QC value within limits for As 188.979	Recovery = Not calculated					
Ba 233.527†	-6.5	-0.00185 mg/L	0.000090	-0.00185 mg/L	0.000090	4.85%	
	QC value within limits for Ba 233.527	Recovery = Not calculated					
Be 234.861†	124.1	0.00015 mg/L	0.000001	0.00015 mg/L	0.000001	0.43%	
	QC value within limits for Be 234.861	Recovery = Not calculated					
B 249.677†	25.7	0.00123 mg/L	0.000207	0.00123 mg/L	0.000207	16.84%	
	QC value within limits for B 249.677	Recovery = Not calculated					
Ca 227.546†	9.0	0.0644 mg/L	0.00971	0.0644 mg/L	0.00971	15.09%	
	QC value within limits for Ca 227.546	Recovery = Not calculated					
Cd 228.802†	2.1	0.00003 mg/L	0.000061	0.00003 mg/L	0.000061	215.76%	
	QC value within limits for Cd 228.802	Recovery = Not calculated					
Co 228.616†	-12.6	-0.00047 mg/L	0.000184	-0.00047 mg/L	0.000184	38.84%	
	QC value within limits for Co 228.616	Recovery = Not calculated					
Cr 267.716†	19.8	-0.00037 mg/L	0.000023	-0.00037 mg/L	0.000023	6.23%	
	QC value within limits for Cr 267.716	Recovery = Not calculated					
Cu 327.393†	66.0	0.00068 mg/L	0.000161	0.00068 mg/L	0.000161	23.82%	
	QC value within limits for Cu 327.393	Recovery = Not calculated					
Fe 239.562†	19.8	0.00611 mg/L	0.000262	0.00611 mg/L	0.000262	4.29%	

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Mg	279.077†	QC value within limits for Mg	279.077	Recovery = Not calculated	0.00419	0.0288 mg/L	0.00419	14.56%
Mn	257.610†	QC value within limits for Mn	257.610	Recovery = Not calculated	0.000001	-0.00070 mg/L	0.000001	0.15%
Mo	202.031†	QC value within limits for Mo	202.031	Recovery = Not calculated	0.000133	-0.00097 mg/L	0.000133	13.75%
Ni	231.604†	QC value within limits for Ni	231.604	Recovery = Not calculated	0.000031	-0.00305 mg/L	0.000031	1.03%
Pb	220.353†	QC value within limits for Pb	220.353	Recovery = Not calculated	0.000126	-0.00035 mg/L	0.000126	36.22%
Sb	206.836†	QC value within limits for Sb	206.836	Recovery = Not calculated	0.000996	0.00011 mg/L	0.000996	896.20%
Se	196.026†	QC value within limits for Se	196.026	Recovery = Not calculated	0.001402	0.00020 mg/L	0.001402	703.64%
Si	251.611†	QC value within limits for Si	251.611	Recovery = Not calculated	0.000615	0.00143 mg/L	0.000615	42.92%
Sn	189.927†	QC value within limits for Sn	189.927	Recovery = Not calculated	0.000238	-0.00039 mg/L	0.000238	60.98%
Ti	334.940†	QC value within limits for Ti	334.940	Recovery = Not calculated	0.000111	0.00013 mg/L	0.000111	83.08%
Tl	190.801†	QC value within limits for Tl	190.801	Recovery = Not calculated	0.001951	-0.00202 mg/L	0.001951	96.79%
V	290.880†	QC value within limits for V	290.880	Recovery = Not calculated	0.001216	0.00031 mg/L	0.001216	393.23%
Zn	206.200†	QC value within limits for Zn	206.200	Recovery = Not calculated	0.000166	-0.00115 mg/L	0.000166	14.37%
K	766.490†	QC value within limits for K	766.490	Recovery = Not calculated	0.04238	-0.0571 mg/L	0.04238	74.23%
Na	589.592†	QC value within limits for Na	589.592	Recovery = Not calculated	0.00488	0.0162 mg/L	0.00488	30.18%
Sr	407.771†	QC value within limits for Sr	407.771	Recovery = Not calculated	0.000018	-0.00034 mg/L	0.000018	5.16%
Li	670.784†	QC value within limits for Li	670.784	Recovery = Not calculated	0.000387	-0.00254 mg/L	0.000387	15.21%

All analyte(s) passed QC.

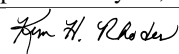
Sequence No.: 22
 Sample ID: L1207064302
 Analyst: KHR
 Initial Sample Wt:
 Dilution:

u\osampler Location: 33
 a\ne Collected: 7/26/2012 4:03:56 PM
 a\ba Type: Original
 n\itial Sample Vol:
 a\mple Prep Vol:

Nebulizer Parameters: L1207064302
 Analyte Back Pressure Flow
 All 157.0 kPa 0.50 L/min

Mean Data: L1207064302

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc. Units	Std.Dev.	RSD
Y 371.029	2082052.8					5673.05	0.27%
YRADIAL	284435.6					4157.44	1.46%
Ga 417.206	1404375.1					14669.87	1.04%
GaRADIAL	89339.4					2551.89	2.86%
Ag 328.068†	3375.0	0.0110	mg/L	0.00016	0.0110 mg/L	0.00016	1.45%
Al 396.153†	-194.7	-0.0342	mg/L	0.00192	-0.0342 mg/L	0.00192	5.61%
As 188.979†	5.7	-0.00007	mg/L	0.001536	-0.00007 mg/L	0.001536	>999.9%
Ba 233.527†	2202.2	0.0115	mg/L	0.00005	0.0115 mg/L	0.00005	0.48%
Be 234.861†	219.4	0.00027	mg/L	0.000024	0.00027 mg/L	0.000024	8.81%
B 249.677†	2362.0	0.0228	mg/L	0.00027	0.0228 mg/L	0.00027	1.20%
Ca 227.546†	230391.9	515	mg/L	8.8	515 mg/L	8.8	1.70%
Cd 228.802†	-2.0	-0.00003	mg/L	0.000051	-0.00003 mg/L	0.000051	154.09%
Co 228.616†	24.0	0.00063	mg/L	0.000154	0.00063 mg/L	0.000154	24.64%
Cr 267.716†	404.8	0.00276	mg/L	0.000304	0.00276 mg/L	0.000304	11.05%
Cu 327.393†	-964.9	-0.00357	mg/L	0.000696	-0.00357 mg/L	0.000696	19.50%
Fe 239.562†	297.4	0.0226	mg/L	0.00032	0.0226 mg/L	0.00032	1.40%
Mg 279.077†	405727.7	122	mg/L	0.9	122 mg/L	0.9	0.74%
Mn 257.610†	109298.5	0.135	mg/L	0.0004	0.135 mg/L	0.0004	0.30%
Mo 202.031†	1974.9	0.0524	mg/L	0.00051	0.0524 mg/L	0.00051	0.96%

Approved: July 27, 2012


Method: 200.7-6010 PE-ICP2.1

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Date: 7/26/2012 4:19:58 PM

Ni 231.604†	33423.5	0.484 mg/L	0.0038	0.484 mg/L	0.0038	0.78%
Pb 220.353†	-29.1	0.00160 mg/L	0.000907	0.00160 mg/L	0.000907	56.60%
Sb 206.836†	-9.1	-0.00069 mg/L	0.001748	-0.00069 mg/L	0.001748	252.59%
Se 196.026†	458.9	0.226 mg/L	0.0031	0.226 mg/L	0.0031	1.38%
Si 251.611†	302782.0	5.98 mg/L	0.087	5.98 mg/L	0.087	1.45%
Sn 189.927†	-462.7	-0.0393 mg/L	0.00106	-0.0393 mg/L	0.00106	2.69%
Ti 334.940†	-110160.8	-0.0289 mg/L	0.00170	-0.0289 mg/L	0.00170	5.86%
Tl 190.801†	-56.2	-0.0181 mg/L	0.00157	-0.0181 mg/L	0.00157	8.71%
V 290.880†	1526.3	0.00226 mg/L	0.001703	0.00226 mg/L	0.001703	75.46%
Zn 206.200†	13091.4	0.228 mg/L	0.0008	0.228 mg/L	0.0008	0.35%
K 766.490†	9851.6	3.20 mg/L	0.033	3.20 mg/L	0.033	1.04%
Na 589.592†	240949.7	11.9 mg/L	0.25	11.9 mg/L	0.25	2.08%
Sr 407.771†	3719268.2	1.43 mg/L	0.029	1.43 mg/L	0.029	2.02%
Li 670.784†	993.3	0.00315 mg/L	0.000346	0.00315 mg/L	0.000346	10.98%

Sequence No.: 23

Sample ID: L1207064304

Analyst: KHR

Initial Sample Wt:

Dilution:

u&osampler Location: 34

a&e Collected: 7/26/2012 4:11:09 PM

a&a Type: Original

nitial Sample Vol:

a&ple Prep Vol:

Nebulizer Parameters: L1207064304

Analyte	Back Pressure	Flow
All	157.0 kPa	0.50 L/min

Mean Data: L1207064304

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc. Units	Std.Dev.	RSD
Y 371.029	2067324.9					21841.88	1.06%
YRADIAL	278382.8					5848.07	2.10%
Ga 417.206	1384556.7					2443.12	0.18%
GaRADIAL	87925.0					1096.02	1.25%
Ag 328.068†	3156.3	0.0103 mg/L		0.00011	0.0103 mg/L	0.00011	1.06%
Al 396.153†	-184.5	-0.0294 mg/L		0.00388	-0.0294 mg/L	0.00388	13.20%
As 188.979†	-1.2	-0.00180 mg/L		0.002414	-0.00180 mg/L	0.002414	134.01%
Ba 233.527†	10305.9	0.0604 mg/L		0.00068	0.0604 mg/L	0.00068	1.13%
Be 234.861†	233.3	0.00026 mg/L		0.000024	0.00026 mg/L	0.000024	9.41%
B 249.677†	3215.9	0.0306 mg/L		0.00038	0.0306 mg/L	0.00038	1.24%
Ca 227.546†	219879.7	491 mg/L		5.6	491 mg/L	5.6	1.13%
Cd 228.802†	-2.8	-0.00005 mg/L		0.000096	-0.00005 mg/L	0.000096	199.41%
Co 228.616†	96.2	0.00223 mg/L		0.000078	0.00223 mg/L	0.000078	3.50%
Cr 267.716†	258.6	0.00157 mg/L		0.000335	0.00157 mg/L	0.000335	21.40%
Cu 327.393†	-915.9	-0.00330 mg/L		0.000884	-0.00330 mg/L	0.000884	26.76%
Fe 239.562†	484.7	0.0352 mg/L		0.00117	0.0352 mg/L	0.00117	3.33%
Mg 279.077†	450815.3	135 mg/L		1.5	135 mg/L	1.5	1.11%
Mn 257.610†	117155.6	0.144 mg/L		0.0010	0.144 mg/L	0.0010	0.67%
Mo 202.031†	208.4	0.00479 mg/L		0.000254	0.00479 mg/L	0.000254	5.31%
Ni 231.604†	371.7	0.00242 mg/L		0.000147	0.00242 mg/L	0.000147	6.08%
Pb 220.353†	-62.3	-0.00115 mg/L		0.001017	-0.00115 mg/L	0.001017	88.69%
Sb 206.836†	-5.5	-0.00034 mg/L		0.000913	-0.00034 mg/L	0.000913	265.38%
Se 196.026†	15.4	0.00920 mg/L		0.001387	0.00920 mg/L	0.001387	15.08%
Si 251.611†	595890.3	11.8 mg/L		0.04	11.8 mg/L	0.04	0.37%
Sn 189.927†	-443.5	-0.0377 mg/L		0.00045	-0.0377 mg/L	0.00045	1.19%
Ti 334.940†	-104172.7	-0.0267 mg/L		0.00298	-0.0267 mg/L	0.00298	11.18%
Tl 190.801†	-50.5	-0.0166 mg/L		0.00168	-0.0166 mg/L	0.00168	10.11%
V 290.880†	1109.9	0.00021 mg/L		0.001674	0.00021 mg/L	0.001674	801.36%
Zn 206.200†	102.1	0.00050 mg/L		0.000124	0.00050 mg/L	0.000124	24.85%
K 766.490†	14170.0	4.64 mg/L		0.060	4.64 mg/L	0.060	1.30%
Na 589.592†	298298.8	14.8 mg/L		0.32	14.8 mg/L	0.32	2.18%
Sr 407.771†	4080278.4	1.57 mg/L		0.058	1.57 mg/L	0.058	3.69%
Li 670.784†	1176.4	0.00438 mg/L		0.000159	0.00438 mg/L	0.000159	3.62%

Sequence No.: 24

Sample ID: L1207064306

Analyst: KHR

Initial Sample Wt:

Dilution:

u&osampler Location: 35

a&e Collected: 7/26/2012 4:18:23 PM

a&a Type: Original

nitial Sample Vol:

a&ple Prep Vol:

Approved: July 27, 2012

Ann H. Rhodes

Nebulizer Parameters: L1207064306

Analyte Back Pressure Flow
All 157.0 kPa 0.50 L/min

Mean Data: L1207064306

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	2107255.2						21692.61	1.03%
YRADIAL	286054.5						5082.79	1.78%
Ga 417.206	1404337.4						35740.02	2.54%
GaRADIAL	87409.1						1032.60	1.18%
Ag 328.068†	3149.5	0.0103	mg/L	0.00061	0.0103	mg/L	0.00061	5.87%
Al 396.153†	-131.2	-0.0213	mg/L	0.00973	-0.0213	mg/L	0.00973	45.71%
As 188.979†	1.9	-0.00086	mg/L	0.001218	-0.00086	mg/L	0.001218	141.66%
Ba 233.527†	18363.4	0.109	mg/L	0.0007	0.109	mg/L	0.0007	0.61%
Be 234.861†	312.7	0.00029	mg/L	0.000012	0.00029	mg/L	0.000012	4.00%
B 249.677†	3240.7	0.0307	mg/L	0.00130	0.0307	mg/L	0.00130	4.24%
Ca 227.546†	215525.0	482	mg/L	20.3	482	mg/L	20.3	4.21%
Cd 228.802†	7.3	0.00013	mg/L	0.000040	0.00013	mg/L	0.000040	30.98%
Co 228.616†	54.3	0.00122	mg/L	0.000147	0.00122	mg/L	0.000147	12.05%
Cr 267.716†	295.9	0.00187	mg/L	0.000130	0.00187	mg/L	0.000130	6.97%
Cu 327.393†	-907.2	-0.00325	mg/L	0.000824	-0.00325	mg/L	0.000824	25.39%
Fe 239.562†	2317.8	0.161	mg/L	0.0047	0.161	mg/L	0.0047	2.94%
Mg 279.077†	436019.5	131	mg/L	1.5	131	mg/L	1.5	1.15%
Mn 257.610†	99772.1	0.123	mg/L	0.0024	0.123	mg/L	0.0024	1.92%
Mo 202.031†	104.9	0.00200	mg/L	0.000358	0.00200	mg/L	0.000358	17.90%
Ni 231.604†	178.1	-0.00040	mg/L	0.000056	-0.00040	mg/L	0.000056	14.10%
Pb 220.353†	-75.7	-0.00221	mg/L	0.000574	-0.00221	mg/L	0.000574	26.02%
Sb 206.836†	-8.7	-0.00102	mg/L	0.000869	-0.00102	mg/L	0.000869	85.38%
Se 196.026†	-2.4	0.00050	mg/L	0.002746	0.00050	mg/L	0.002746	545.02%
Si 251.611†	686146.5	13.6	mg/L	0.34	13.6	mg/L	0.34	2.50%
Sn 189.927†	-449.9	-0.0382	mg/L	0.00056	-0.0382	mg/L	0.00056	1.46%
Ti 334.940†	-92526.0	-0.0169	mg/L	0.00701	-0.0169	mg/L	0.00701	41.44%
Tl 190.801†	-49.6	-0.0162	mg/L	0.00508	-0.0162	mg/L	0.00508	31.42%
V 290.880†	2032.5	0.00409	mg/L	0.001840	0.00409	mg/L	0.001840	45.03%
Zn 206.200†	101.8	0.00049	mg/L	0.000056	0.00049	mg/L	0.000056	11.30%
K 766.490†	13654.2	4.47	mg/L	0.085	4.47	mg/L	0.085	1.91%
Na 589.592†	290330.6	14.4	mg/L	0.09	14.4	mg/L	0.09	0.63%
Sr 407.771†	3809459.4	1.46	mg/L	0.033	1.46	mg/L	0.033	2.24%
Li 670.784†	1123.8	0.00403	mg/L	0.000543	0.00403	mg/L	0.000543	13.48%

Sequence No.: 25

Sample ID: L1207064308

Analyst: KHR

Initial Sample Wt:

Dilution:

u&osampler Location: 36

a&e Collected: 7/26/2012 4:24:36 PM

a&a Type: Original

nitial Sample Vol:

a&ple Prep Vol:

Nebulizer Parameters: L1207064308

Analyte Back Pressure Flow
All 157.0 kPa 0.50 L/min

Mean Data: L1207064308

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	1989095.9						17467.60	0.88%
YRADIAL	272773.6						3779.48	1.39%
Ga 417.206	1302174.3						40700.60	3.13%
GaRADIAL	86267.7						2480.98	2.88%
Ag 328.068†	3169.0	0.0104	mg/L	0.00066	0.0104	mg/L	0.00066	6.32%
Al 396.153†	-166.5	-0.0274	mg/L	0.00145	-0.0274	mg/L	0.00145	5.31%
As 188.979†	-2.6	-0.00221	mg/L	0.001627	-0.00221	mg/L	0.001627	73.60%
Ba 233.527†	16058.2	0.0952	mg/L	0.00073	0.0952	mg/L	0.00073	0.77%
Be 234.861†	182.0	0.00019	mg/L	0.000039	0.00019	mg/L	0.000039	20.39%
B 249.677†	6795.0	0.0634	mg/L	0.00234	0.0634	mg/L	0.00234	3.69%
Ca 227.546†	217452.8	486	mg/L	10.4	486	mg/L	10.4	2.15%
Cd 228.802†	2.5	0.00005	mg/L	0.000015	0.00005	mg/L	0.000015	28.36%
Co 228.616†	151.1	0.00348	mg/L	0.000248	0.00348	mg/L	0.000248	7.11%

Approved: July 27, 2012

Ann H. Rhodes

Cr 267.716†	279.1	0.00173 mg/L	0.000112	0.00173 mg/L	0.000112	6.46%
Cu 327.393†	-1085.0	-0.00396 mg/L	0.000557	-0.00396 mg/L	0.000557	14.07%
Fe 239.562†	2007.0	0.139 mg/L	0.0025	0.139 mg/L	0.0025	1.78%
Mg 279.077†	431511.4	129 mg/L	1.8	129 mg/L	1.8	1.43%
Mn 257.610†	117595.8	0.145 mg/L	0.0003	0.145 mg/L	0.0003	0.20%
Mo 202.031†	543.9	0.0138 mg/L	0.00012	0.0138 mg/L	0.00012	0.88%
Ni 231.604†	615.0	0.00596 mg/L	0.000287	0.00596 mg/L	0.000287	4.82%
Pb 220.353†	-53.5	-0.00055 mg/L	0.001721	-0.00055 mg/L	0.001721	314.05%
Sb 206.836†	-3.0	0.00023 mg/L	0.000431	0.00023 mg/L	0.000431	188.50%
Se 196.026†	-3.0	0.00024 mg/L	0.003174	0.00024 mg/L	0.003174	>999.9%
Si 251.611†	851616.9	16.8 mg/L	0.28	16.8 mg/L	0.28	1.68%
Sn 189.927†	-464.4	-0.0394 mg/L	0.00069	-0.0394 mg/L	0.00069	1.75%
Ti 334.940†	-101221.0	-0.0247 mg/L	0.00335	-0.0247 mg/L	0.00335	13.58%
Tl 190.801†	-57.1	-0.0182 mg/L	0.00373	-0.0182 mg/L	0.00373	20.48%
V 290.880†	3073.5	0.00838 mg/L	0.001501	0.00838 mg/L	0.001501	17.91%
Zn 206.200†	141.8	0.00119 mg/L	0.000292	0.00119 mg/L	0.000292	24.41%
K 766.490†	15133.8	4.96 mg/L	0.058	4.96 mg/L	0.058	1.17%
Na 589.592†	291473.8	14.4 mg/L	0.29	14.4 mg/L	0.29	1.99%
Sr 407.771†	4038597.5	1.55 mg/L	0.070	1.55 mg/L	0.070	4.51%
Li 670.784†	1161.9	0.00428 mg/L	0.000278	0.00428 mg/L	0.000278	6.48%

Sequence No.: 26

Sample ID: L1207064310

Analyst: KHR

Initial Sample Wt:

Dilution:

u\osampler Location: 37

a\ne Collected: 7/26/2012 4:31:47 PM

a\nda Type: Original

n\ntial Sample Vol:

a\msple Prep Vol:

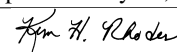
Nebulizer Parameters: L1207064310

Analyte	Back Pressure	Flow
All	157.0 kPa	0.50 L/min

Mean Data: L1207064310

Analyte	Mean Corrected Intensity	Conc. Units	Calib. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 371.029	1983932.4					21428.50	1.08%
YRADIAL	273929.4					1087.45	0.40%
Ga 417.206	1230700.7					14880.57	1.21%
GaRADIAL	84942.7					1852.80	2.18%
Ag 328.068†	3433.0	0.0112 mg/L	0.00024	0.0112 mg/L	0.00024	0.00024	2.15%
Al 396.153†	-182.1	-0.0290 mg/L	0.00170	-0.0290 mg/L	0.00170	0.00170	5.88%
As 188.979†	0.9	-0.00119 mg/L	0.001839	-0.00119 mg/L	0.001839	154.01%	
Ba 233.527†	15512.6	0.0919 mg/L	0.00059	0.0919 mg/L	0.00059	0.00059	0.64%
Be 234.861†	19.2	0.00007 mg/L	0.000024	0.00007 mg/L	0.000024	32.38%	
B 249.677†	5419.9	0.0508 mg/L	0.00325	0.0508 mg/L	0.00325	6.39%	
Ca 227.546†	222033.2	496 mg/L	9.2	496 mg/L	9.2	1.86%	
Cd 228.802†	2.8	0.00005 mg/L	0.000149	0.00005 mg/L	0.000149	308.09%	
Co 228.616†	50.0	0.00114 mg/L	0.000259	0.00114 mg/L	0.000259	22.65%	
Cr 267.716†	308.2	0.00197 mg/L	0.000094	0.00197 mg/L	0.000094	4.75%	
Cu 327.393†	-1313.5	-0.00486 mg/L	0.000403	-0.00486 mg/L	0.000403	8.29%	
Fe 239.562†	466.6	0.0340 mg/L	0.00032	0.0340 mg/L	0.00032	0.94%	
Mg 279.077†	443697.3	133 mg/L	0.4	133 mg/L	0.4	0.32%	
Mn 257.610†	116750.1	0.144 mg/L	0.0012	0.144 mg/L	0.0012	0.83%	
Mo 202.031†	153.6	0.00331 mg/L	0.000273	0.00331 mg/L	0.000273	8.23%	
Ni 231.604†	95.9	-0.00159 mg/L	0.000073	-0.00159 mg/L	0.000073	4.62%	
Pb 220.353†	-55.6	-0.00062 mg/L	0.000400	-0.00062 mg/L	0.000400	64.98%	
Sb 206.836†	-12.0	-0.00174 mg/L	0.002330	-0.00174 mg/L	0.002330	133.59%	
Se 196.026†	12.0	0.00753 mg/L	0.003420	0.00753 mg/L	0.003420	45.44%	
Si 251.611†	746140.4	14.8 mg/L	0.12	14.8 mg/L	0.12	0.79%	
Sn 189.927†	-468.8	-0.0398 mg/L	0.00077	-0.0398 mg/L	0.00077	1.93%	
Ti 334.940†	-97395.8	-0.0194 mg/L	0.00241	-0.0194 mg/L	0.00241	12.38%	
Tl 190.801†	-70.3	-0.0215 mg/L	0.00304	-0.0215 mg/L	0.00304	14.10%	
V 290.880†	1708.7	0.00271 mg/L	0.000710	0.00271 mg/L	0.000710	26.20%	
Zn 206.200†	90.6	0.00030 mg/L	0.000248	0.00030 mg/L	0.000248	83.11%	
K 766.490†	14264.7	4.67 mg/L	0.033	4.67 mg/L	0.033	0.71%	
Na 589.592†	288735.8	14.3 mg/L	0.37	14.3 mg/L	0.37	2.60%	
Sr 407.771†	3983885.1	1.53 mg/L	0.042	1.53 mg/L	0.042	2.76%	
Li 670.784†	1096.1	0.00384 mg/L	0.000183	0.00384 mg/L	0.000183	4.77%	

Approved: July 27, 2012



Sequence No.: 27
 Sample ID: L1207064312
 Analyst: KHR
 Initial Sample Wt:
 Dilution:

u&osampler Location: 38
 a&e Collected: 7/26/2012 4:38:58 PM
 a&a Type: Original
 nitial Sample Vol:
 a&ple Prep Vol:

Nebulizer Parameters: L1207064312

Analyte	Back Pressure	Flow
All	157.0 kPa	0.50 L/min

Mean Data: L1207064312

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc. Units	Sample Std.Dev.	RSD
Y 371.029	2020387.8					5295.69	0.26%
YRADIAL	268922.7					1798.30	0.67%
Ga 417.206	1254293.9					19342.86	1.54%
GaRADIAL	82957.1					1865.21	2.25%
Ag 328.068†	3500.8	0.0114	mg/L	0.00071	0.0114	0.00071	6.23%
Al 396.153†	-179.4	-0.0287	mg/L	0.00199	-0.0287	0.00199	6.92%
As 188.979†	-1.7	-0.00192	mg/L	0.001014	-0.00192	0.001014	52.84%
Ba 233.527†	15525.3	0.0919	mg/L	0.00040	0.0919	0.00040	0.44%
Be 234.861†	82.0	0.00011	mg/L	0.000026	0.00011	0.000026	23.25%
B 249.677†	5843.6	0.0547	mg/L	0.00064	0.0547	0.00064	1.18%
Ca 227.546†	223290.3	499	mg/L	8.4	499	8.4	1.68%
Cd 228.802†	0.6	0.00002	mg/L	0.000131	0.00002	0.000131	688.17%
Co 228.616†	138.7	0.00318	mg/L	0.000145	0.00318	0.000145	4.57%
Cr 267.716†	324.5	0.00210	mg/L	0.000219	0.00210	0.000219	10.43%
Cu 327.393†	-1131.0	-0.00414	mg/L	0.000245	-0.00414	0.000245	5.92%
Fe 239.562†	1548.3	0.108	mg/L	0.0020	0.108	0.0020	1.87%
Mg 279.077†	454949.9	136	mg/L	1.1	136	1.1	0.84%
Mn 257.610†	115531.2	0.142	mg/L	0.0014	0.142	0.0014	0.97%
Mo 202.031†	233.4	0.00546	mg/L	0.000140	0.00546	0.000140	2.56%
Ni 231.604†	358.6	0.00223	mg/L	0.000224	0.00223	0.000224	10.03%
Pb 220.353†	-68.2	-0.00153	mg/L	0.000547	-0.00153	0.000547	35.83%
Sb 206.836†	-5.4	-0.00032	mg/L	0.000956	-0.00032	0.000956	299.50%
Se 196.026†	6.0	0.00460	mg/L	0.002394	0.00460	0.002394	52.09%
Si 251.611†	733628.0	14.5	mg/L	0.12	14.5	0.12	0.85%
Sn 189.927†	-466.3	-0.0396	mg/L	0.00133	-0.0396	0.00133	3.35%
Ti 334.940†	-97032.3	-0.0187	mg/L	0.00167	-0.0187	0.00167	8.96%
Tl 190.801†	-58.3	-0.0185	mg/L	0.00189	-0.0185	0.00189	10.24%
V 290.880†	1066.2	-0.00001	mg/L	0.001064	-0.00001	0.001064	>999.9%
Zn 206.200†	155.8	0.00144	mg/L	0.000230	0.00144	0.000230	15.94%
K 766.490†	14090.4	4.61	mg/L	0.017	4.61	0.017	0.38%
Na 589.592†	289003.8	14.3	mg/L	0.24	14.3	0.24	1.70%
Sr 407.771†	3945394.5	1.52	mg/L	0.049	1.52	0.049	3.26%
Li 670.784†	1091.2	0.00381	mg/L	0.000232	0.00381	0.000232	6.10%

Sequence No.: 28
 Sample ID: L1207066608
 Analyst: KHR
 Initial Sample Wt:
 Dilution:

u&osampler Location: 39
 a&e Collected: 7/26/2012 4:46:10 PM
 a&a Type: Original
 nitial Sample Vol:
 a&ple Prep Vol:

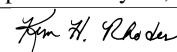
Nebulizer Parameters: L1207066608

Analyte	Back Pressure	Flow
All	157.0 kPa	0.50 L/min

Mean Data: L1207066608

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc. Units	Sample Std.Dev.	RSD
Y 371.029	2329852.2					6734.97	0.29%
YRADIAL	299263.5					5486.67	1.83%
Ga 417.206	1326200.8					8621.24	0.65%
GaRADIAL	85632.6					970.62	1.13%
Ag 328.068†	-69.2	0.00033	mg/L	0.000486	0.00033	0.000486	147.01%
Al 396.153†	587.2	0.0858	mg/L	0.00116	0.0858	0.00116	1.36%
As 188.979†	1.1	-0.00110	mg/L	0.002316	-0.00110	0.002316	211.00%

Approved: July 27, 2012



Ba 233.527†	291.1	-0.00005	mg/L	0.000067	-0.00005	mg/L	0.000067	123.73%
Be 234.861†	88.4	0.00010	mg/L	0.000023	0.00010	mg/L	0.000023	23.88%
B 249.677†	761.0	0.00794	mg/L	0.000317	0.00794	mg/L	0.000317	3.99%
Ca 227.546†	277.2	0.667	mg/L	0.0142	0.667	mg/L	0.0142	2.12%
Cd 228.802†	1.1	0.00001	mg/L	0.000089	0.00001	mg/L	0.000089	822.44%
Co 228.616†	-11.2	-0.00045	mg/L	0.000205	-0.00045	mg/L	0.000205	45.90%
Cr 267.716†	178.8	0.00092	mg/L	0.000121	0.00092	mg/L	0.000121	13.18%
Cu 327.393†	264.3	0.00147	mg/L	0.000437	0.00147	mg/L	0.000437	29.77%
Fe 239.562†	1812.0	0.129	mg/L	0.0016	0.129	mg/L	0.0016	1.26%
Mg 279.077†	233.8	0.0995	mg/L	0.00378	0.0995	mg/L	0.00378	3.80%
Mn 257.610†	2700.0	0.00253	mg/L	0.000013	0.00253	mg/L	0.000013	0.52%
Mo 202.031†	67.8	0.00097	mg/L	0.000205	0.00097	mg/L	0.000205	21.19%
Ni 231.604†	52.7	-0.00222	mg/L	0.000077	-0.00222	mg/L	0.000077	3.47%
Pb 220.353†	-3.6	-0.00067	mg/L	0.000692	-0.00067	mg/L	0.000692	103.11%
Sb 206.836†	-1.2	0.00059	mg/L	0.000881	0.00059	mg/L	0.000881	150.13%
Se 196.026†	-0.3	0.00159	mg/L	0.001167	0.00159	mg/L	0.001167	73.62%
Si 251.611†	9945.6	0.194	mg/L	0.0023	0.194	mg/L	0.0023	1.18%
Sn 189.927†	1.6	-0.00134	mg/L	0.000308	-0.00134	mg/L	0.000308	22.95%
Ti 334.940†	1374.6	0.00150	mg/L	0.000115	0.00150	mg/L	0.000115	7.65%
Tl 190.801†	-2.5	-0.00298	mg/L	0.000613	-0.00298	mg/L	0.000613	20.55%
V 290.880†	350.9	0.00062	mg/L	0.001243	0.00062	mg/L	0.001243	200.97%
Zn 206.200†	322.6	0.00436	mg/L	0.000103	0.00436	mg/L	0.000103	2.37%
K 766.490†	550.2	0.117	mg/L	0.0060	0.117	mg/L	0.0060	5.16%
Na 589.592†	13487.0	0.665	mg/L	0.0281	0.665	mg/L	0.0281	4.23%
Sr 407.771†	5204.1	0.00157	mg/L	0.000070	0.00157	mg/L	0.000070	4.47%
Li 670.784†	96.6	-0.00286	mg/L	0.000101	-0.00286	mg/L	0.000101	3.55%

Sequence No.: 29
Sample ID: L1207066618
Analyst: KHR
Initial Sample Wt:
Dilution:

u&osampler Location: 40
a&e Collected: 7/26/2012 4:53:16 PM
a&a Type: Original
n&itial Sample Vol:
a∓e Prep Vol:

Nebulizer Parameters: L1207066618

Analyte Back Pressure Flow
All 157.0 kPa 0.50 L/min

Mean Data: L1207066618

Analyte	Mean Corrected Intensity	Conc. Units	Calib. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD	
Y 371.029	2370489.9					18010.46	0.76%	
YRADIAL	296807.6					2989.15	1.01%	
Ga 417.206	1332600.3					26475.93	1.99%	
GaRADIAL	85221.4					1812.68	2.13%	
Ag 328.068†	-82.2	0.00025	mg/L	0.000177	0.00025	mg/L	0.000177	71.94%
Al 396.153†	137.6	0.0189	mg/L	0.00143	0.0189	mg/L	0.00143	7.56%
As 188.979†	7.1	0.00062	mg/L	0.001384	0.00062	mg/L	0.001384	224.16%
Ba 233.527†	51.6	-0.00150	mg/L	0.000100	-0.00150	mg/L	0.000100	6.70%
Be 234.861†	60.7	0.00010	mg/L	0.000008	0.00010	mg/L	0.000008	7.93%
B 249.677†	137.6	0.00225	mg/L	0.000307	0.00225	mg/L	0.000307	13.68%
Ca 227.546†	44.3	0.144	mg/L	0.0235	0.144	mg/L	0.0235	16.32%
Cd 228.802†	4.1	0.00006	mg/L	0.000124	0.00006	mg/L	0.000124	206.73%
Co 228.616†	0.2	-0.00018	mg/L	0.000071	-0.00018	mg/L	0.000071	39.02%
Cr 267.716†	65.3	0.00000	mg/L	0.000173	0.00000	mg/L	0.000173	>999.9%
Cu 327.393†	-0.7	0.00042	mg/L	0.000256	0.00042	mg/L	0.000256	61.70%
Fe 239.562†	281.9	0.0240	mg/L	0.00085	0.0240	mg/L	0.00085	3.56%
Mg 279.077†	52.8	0.0452	mg/L	0.00621	0.0452	mg/L	0.00621	13.74%
Mn 257.610†	424.2	-0.00029	mg/L	0.000012	-0.00029	mg/L	0.000012	4.03%
Mo 202.031†	-4.8	-0.00099	mg/L	0.000196	-0.00099	mg/L	0.000196	19.74%
Ni 231.604†	35.3	-0.00248	mg/L	0.000202	-0.00248	mg/L	0.000202	8.15%
Pb 220.353†	-5.9	-0.00084	mg/L	0.000311	-0.00084	mg/L	0.000311	36.83%
Sb 206.836†	-0.1	0.00083	mg/L	0.000349	0.00083	mg/L	0.000349	41.96%
Se 196.026†	-1.6	0.00095	mg/L	0.004032	0.00095	mg/L	0.004032	422.97%
Si 251.611†	2810.2	0.0525	mg/L	0.00557	0.0525	mg/L	0.00557	10.60%
Sn 189.927†	6.4	-0.00094	mg/L	0.000621	-0.00094	mg/L	0.000621	65.74%
Ti 334.940†	634.5	0.00071	mg/L	0.000110	0.00071	mg/L	0.000110	15.48%
Tl 190.801†	-2.1	-0.00289	mg/L	0.001592	-0.00289	mg/L	0.001592	55.10%
V 290.880†	298.5	0.00041	mg/L	0.001426	0.00041	mg/L	0.001426	346.47%
Zn 206.200†	135.2	0.00107	mg/L	0.000170	0.00107	mg/L	0.000170	15.93%

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Ken H. Rhodes

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K 766.490†	3.9	-0.0644 mg/L	0.01425	-0.0644 mg/L	0.01425	22.12%
Na 589.592†	328.2	0.0181 mg/L	0.00256	0.0181 mg/L	0.00256	14.12%
Sr 407.771†	834.4	-0.00011 mg/L	0.000087	-0.00011 mg/L	0.000087	81.41%
Li 670.784†	18.9	-0.00338 mg/L	0.000472	-0.00338 mg/L	0.000472	13.97%

Sequence No.: 30

Sample ID: L1207066608 0.1

Analyst: KHR

Initial Sample Wt:

Dilution:

u&osampler Location: 41

a&e Collected: 7/26/2012 5:00:22 PM

a&a Type: Original

nitial Sample Vol:

a&ple Prep Vol:

Nebulizer Parameters: L1207066608 0.1

Analyte	Back Pressure	Flow
All	157.0 kPa	0.50 L/min

Mean Data: L1207066608 0.1

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 371.029	2336497.4				10467.14	0.45%
YRADIAL	292964.6				310.89	0.11%
Ga 417.206	1309043.0				15480.74	1.18%
GaRADIAL	84697.7				2304.60	2.72%
Ag 328.068†	-195.7	-0.00012 mg/L	0.000139	-0.00012 mg/L	0.000139	116.76%
Al 396.153†	-32.7	-0.00644 mg/L	0.001700	-0.00644 mg/L	0.001700	26.38%
As 188.979†	3.0	-0.00057 mg/L	0.001687	-0.00057 mg/L	0.001687	295.09%
Ba 233.527†	34.9	-0.00160 mg/L	0.000020	-0.00160 mg/L	0.000020	1.24%
Be 234.861†	112.9	0.00014 mg/L	0.000022	0.00014 mg/L	0.000022	15.17%
B 249.677†	-34.8	0.00067 mg/L	0.000248	0.00067 mg/L	0.000248	37.06%
Ca 227.546†	40.4	0.135 mg/L	0.0091	0.135 mg/L	0.0091	6.77%
Cd 228.802†	-2.0	-0.00005 mg/L	0.000041	-0.00005 mg/L	0.000041	84.11%
Co 228.616†	-3.3	-0.00026 mg/L	0.000156	-0.00026 mg/L	0.000156	59.71%
Cr 267.716†	33.1	-0.00026 mg/L	0.000108	-0.00026 mg/L	0.000108	41.15%
Cu 327.393†	-31.8	0.00029 mg/L	0.000266	0.00029 mg/L	0.000266	91.19%
Mg 239.562†	186.0	0.0175 mg/L	0.00014	0.0175 mg/L	0.00014	0.79%
Mg 279.077†	101.8	0.0599 mg/L	0.00238	0.0599 mg/L	0.00238	3.96%
Mn 257.610†	290.6	-0.00045 mg/L	0.000011	-0.00045 mg/L	0.000011	2.46%
Mo 202.031†	2.7	-0.00079 mg/L	0.000305	-0.00079 mg/L	0.000305	38.43%
Ni 231.604†	14.4	-0.00278 mg/L	0.000143	-0.00278 mg/L	0.000143	5.12%
Pb 220.353†	-8.3	-0.00102 mg/L	0.000962	-0.00102 mg/L	0.000962	93.99%
Sb 206.836†	-3.2	0.00016 mg/L	0.001815	0.00016 mg/L	0.001815	>999.9%
Se 196.026†	-8.7	-0.00253 mg/L	0.002296	-0.00253 mg/L	0.002296	90.83%
Si 251.611†	2161.2	0.0397 mg/L	0.01998	0.0397 mg/L	0.01998	50.36%
Sn 189.927†	7.2	-0.00088 mg/L	0.000839	-0.00088 mg/L	0.000839	94.97%
Ti 334.940†	80.5	0.00017 mg/L	0.000187	0.00017 mg/L	0.000187	106.86%
Tl 190.801†	5.9	-0.00086 mg/L	0.001413	-0.00086 mg/L	0.001413	164.10%
V 290.880†	275.0	0.00032 mg/L	0.001434	0.00032 mg/L	0.001434	454.66%
Zn 206.200†	74.9	0.00001 mg/L	0.000187	0.00001 mg/L	0.000187	>999.9%
K 766.490†	13.5	-0.0613 mg/L	0.03687	-0.0613 mg/L	0.03687	60.11%
Na 589.592†	1856.6	0.0932 mg/L	0.01412	0.0932 mg/L	0.01412	15.15%
Sr 407.771†	807.1	-0.00012 mg/L	0.000159	-0.00012 mg/L	0.000159	135.87%
Li 670.784†	-11.1	-0.00358 mg/L	0.000338	-0.00358 mg/L	0.000338	9.45%

Sequence No.: 31

Sample ID: L1207066618 0.1

Analyst: KHR

Initial Sample Wt:

Dilution:

u&osampler Location: 42

a&e Collected: 7/26/2012 5:07:29 PM

a&a Type: Original

nitial Sample Vol:

a&ple Prep Vol:

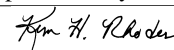
Nebulizer Parameters: L1207066618 0.1

Analyte	Back Pressure	Flow
All	157.0 kPa	0.50 L/min

Mean Data: L1207066618 0.1

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 371.029	2346101.2				11596.57	0.49%

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YRADIAL	294401.7					2597.40	0.88%
Ga 417.206	1305561.8					18204.55	1.39%
GaRADIAL	84960.2					2192.61	2.58%
Ag 328.068†	-78.2	0.00025 mg/L	0.000220	0.00025 mg/L	0.000220	87.03%	
Al 396.153†	-81.0	-0.0136 mg/L	0.00054	-0.0136 mg/L	0.00054	3.96%	
As 188.979†	12.6	0.00219 mg/L	0.000358	0.00219 mg/L	0.000358	16.37%	
Ba 233.527†	9.8	-0.00175 mg/L	0.000097	-0.00175 mg/L	0.000097	5.54%	
Be 234.861†	106.7	0.00014 mg/L	0.000016	0.00014 mg/L	0.000016	11.58%	
B 249.677†	-115.1	-0.00007 mg/L	0.000219	-0.00007 mg/L	0.000219	319.80%	
Ca 227.546†	9.2	0.0650 mg/L	0.01618	0.0650 mg/L	0.01618	24.88%	
Cd 228.802†	3.5	0.00004 mg/L	0.000090	0.00004 mg/L	0.000090	229.81%	
Co 228.616†	-9.0	-0.00039 mg/L	0.000027	-0.00039 mg/L	0.000027	6.80%	
Cr 267.716†	12.2	-0.00043 mg/L	0.000098	-0.00043 mg/L	0.000098	22.67%	
Cu 327.393†	-126.0	-0.00008 mg/L	0.000281	-0.00008 mg/L	0.000281	350.92%	
Fe 239.562†	26.1	0.00654 mg/L	0.000129	0.00654 mg/L	0.000129	1.98%	
Mg 279.077†	62.2	0.0481 mg/L	0.00132	0.0481 mg/L	0.00132	2.74%	
Mn 257.610†	59.0	-0.00074 mg/L	0.000012	-0.00074 mg/L	0.000012	1.61%	
Mo 202.031†	-11.8	-0.00118 mg/L	0.000189	-0.00118 mg/L	0.000189	15.94%	
Ni 231.604†	5.5	-0.00291 mg/L	0.000221	-0.00291 mg/L	0.000221	7.58%	
Pb 220.353†	0.5	-0.00038 mg/L	0.000571	-0.00038 mg/L	0.000571	151.51%	
Sb 206.836†	-3.9	0.00001 mg/L	0.000979	0.00001 mg/L	0.000979	>999.9%	
Se 196.026†	-10.5	-0.00340 mg/L	0.002552	-0.00340 mg/L	0.002552	75.01%	
Si 251.611†	979.0	0.0163 mg/L	0.00295	0.0163 mg/L	0.00295	18.10%	
Sn 189.927†	8.9	-0.00074 mg/L	0.000758	-0.00074 mg/L	0.000758	102.53%	
Ti 334.940†	-102.8	-0.00001 mg/L	0.000032	-0.00001 mg/L	0.000032	259.93%	
Tl 190.801†	5.2	-0.00102 mg/L	0.000694	-0.00102 mg/L	0.000694	67.78%	
V 290.880†	280.6	0.00034 mg/L	0.000948	0.00034 mg/L	0.000948	279.90%	
Zn 206.200†	57.9	-0.00029 mg/L	0.000144	-0.00029 mg/L	0.000144	49.12%	
K 766.490†	4.2	-0.0643 mg/L	0.01821	-0.0643 mg/L	0.01821	28.30%	
Na 589.592†	186.5	0.0112 mg/L	0.00414	0.0112 mg/L	0.00414	37.04%	
Sr 407.771†	-114.9	-0.00047 mg/L	0.000007	-0.00047 mg/L	0.000007	1.42%	
Li 670.784†	-11.0	-0.00358 mg/L	0.000276	-0.00358 mg/L	0.000276	7.73%	

Sequence No.: 32

Sample ID: CCV

Analyst:

Initial Sample Wt:

Dilution:

Sampler Location: 6

Date Collected: 7/26/2012 5:14:36 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

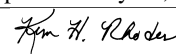
Nebulizer Parameters: CCV

Analyte	Back Pressure	Flow
All	157.0 kPa	0.50 L/min

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 371.029	2252658.8				18806.02	0.83%
YRADIAL	291586.8				2696.78	0.92%
Ga 417.206	1245655.3				12963.75	1.04%
GaRADIAL	81885.8				1014.18	1.24%
Ag 328.068†	126015.2	0.407 mg/L	0.0069	0.407 mg/L	0.0069	1.69%
QC value within limits for Ag 328.068 Recovery = 101.71%						
Al 396.153†	68208.8	10.1 mg/L	0.02	10.1 mg/L	0.02	0.16%
QC value within limits for Al 396.153 Recovery = 100.84%						
As 188.979†	1397.6	0.394 mg/L	0.0040	0.394 mg/L	0.0040	1.01%
QC value within limits for As 188.979 Recovery = 98.46%						
Ba 233.527†	169796.7	1.02 mg/L	0.005	1.02 mg/L	0.005	0.48%
QC value within limits for Ba 233.527 Recovery = 102.38%						
Be 234.861†	59564.1	0.0503 mg/L	0.00098	0.0503 mg/L	0.00098	1.96%
QC value within limits for Be 234.861 Recovery = 100.54%						
B 249.677†	54407.7	0.498 mg/L	0.0092	0.498 mg/L	0.0092	1.84%
QC value within limits for B 249.677 Recovery = 99.54%						
Ca 227.546†	4408.9	10.4 mg/L	0.16	10.4 mg/L	0.16	1.56%
QC value within limits for Ca 227.546 Recovery = 103.76%						
Cd 228.802†	2702.2	0.0486 mg/L	0.00157	0.0486 mg/L	0.00157	3.22%
QC value within limits for Cd 228.802 Recovery = 97.27%						
Co 228.616†	8942.6	0.204 mg/L	0.0018	0.204 mg/L	0.0018	0.87%
QC value within limits for Co 228.616 Recovery = 101.94%						
Cr 267.716†	62969.7	0.511 mg/L	0.0008	0.511 mg/L	0.0008	0.15%

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Cu	327.393†	128159.1	0.508 mg/L	0.0067	0.508 mg/L	0.0067	1.32%
QC value within limits for Cu 327.393 Recovery = 101.52%							
Fe	239.562†	58886.9	4.03 mg/L	0.002	4.03 mg/L	0.002	0.05%
QC value within limits for Fe 239.562 Recovery = 100.71%							
Mg	279.077†	33568.5	10.1 mg/L	0.05	10.1 mg/L	0.05	0.47%
QC value within limits for Mg 279.077 Recovery = 101.14%							
Mn	257.610†	416519.6	0.516 mg/L	0.0040	0.516 mg/L	0.0040	0.78%
QC value within limits for Mn 257.610 Recovery = 103.15%							
Mo	202.031†	37736.2	1.02 mg/L	0.000	1.02 mg/L	0.000	0.01%
QC value within limits for Mo 202.031 Recovery = 101.77%							
Ni	231.604†	36260.0	0.524 mg/L	0.0038	0.524 mg/L	0.0038	0.72%
QC value within limits for Ni 231.604 Recovery = 104.90%							
Pb	220.353†	6951.4	0.512 mg/L	0.0035	0.512 mg/L	0.0035	0.69%
QC value within limits for Pb 220.353 Recovery = 102.36%							
Sb	206.836†	5551.5	1.19 mg/L	0.023	1.19 mg/L	0.023	1.89%
QC value within limits for Sb 206.836 Recovery = 99.47%							
Se	196.026†	822.1	0.405 mg/L	0.0049	0.405 mg/L	0.0049	1.20%
QC value within limits for Se 196.026 Recovery = 101.29%							
Si	251.611†	257778.1	5.08 mg/L	0.061	5.08 mg/L	0.061	1.19%
QC value within limits for Si 251.611 Recovery = 101.67%							
Sn	189.927†	12535.4	1.02 mg/L	0.006	1.02 mg/L	0.006	0.55%
QC value within limits for Sn 189.927 Recovery = 102.30%							
Ti	334.940†	1064472.1	1.03 mg/L	0.004	1.03 mg/L	0.004	0.39%
QC value within limits for Ti 334.940 Recovery = 102.79%							
Tl	190.801†	2029.9	0.530 mg/L	0.0026	0.530 mg/L	0.0026	0.49%
QC value within limits for Tl 190.801 Recovery = 106.02%							
V	290.880†	251116.2	1.02 mg/L	0.003	1.02 mg/L	0.003	0.27%
QC value within limits for V 290.880 Recovery = 102.48%							
Zn	206.200†	57996.1	1.02 mg/L	0.002	1.02 mg/L	0.002	0.21%
QC value within limits for Zn 206.200 Recovery = 101.96%							
K	766.490†	152078.4	50.5 mg/L	0.15	50.5 mg/L	0.15	0.31%
QC value within limits for K 766.490 Recovery = 101.10%							
Na	589.592†	1005809.4	50.6 mg/L	0.58	50.6 mg/L	0.58	1.15%
QC value within limits for Na 589.592 Recovery = 101.12%							
Sr	407.771†	2611154.7	1.01 mg/L	0.015	1.01 mg/L	0.015	1.47%
QC value within limits for Sr 407.771 Recovery = 101.00%							
Li	670.784†	154384.9	1.03 mg/L	0.004	1.03 mg/L	0.004	0.43%
QC value within limits for Li 670.784 Recovery = 103.11%							

All analyte(s) passed QC.

Sequence No.: 33
 Sample ID: CCB
 Analyst:
 Initial Sample Wt:
 Dilution:

uSampler Location: 1
 Date Collected: 7/26/2012 5:20:48 PM
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol:

Nebulizer Parameters: CCB

Analyte	Back Pressure	Flow
All	157.0 kPa	0.50 L/min

Mean Data: CCB

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 371.029	2311087.1				36383.28	1.57%
YRADIAL	288073.5				4271.89	1.48%
Ga 417.206	1251172.6				27874.62	2.23%
GaRADIAL	82644.4				1176.47	1.42%
Ag 328.068†	-113.0	0.00014 mg/L	0.000334	0.00014 mg/L	0.000334	238.31%
QC value within limits for Ag 328.068 Recovery = Not calculated						
Al 396.153†	13.5	0.00044 mg/L	0.000851	0.00044 mg/L	0.000851	195.38%
QC value within limits for Al 396.153 Recovery = Not calculated						
As 188.979†	-1.4	-0.00183 mg/L	0.000712	-0.00183 mg/L	0.000712	39.02%
QC value within limits for As 188.979 Recovery = Not calculated						
Ba 233.527†	-7.0	-0.00185 mg/L	0.000070	-0.00185 mg/L	0.000070	3.79%
QC value within limits for Ba 233.527 Recovery = Not calculated						
Be 234.861†	-77.8	-0.00002 mg/L	0.000041	-0.00002 mg/L	0.000041	233.91%
QC value within limits for Be 234.861 Recovery = Not calculated						
B 249.677†	272.1	0.00350 mg/L	0.000184	0.00350 mg/L	0.000184	5.25%

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Ca	227.546†	QC value within limits for B 249.677	Recovery = Not calculated				
		6.5	0.0587 mg/L	0.00973	0.0587 mg/L	0.00973	16.56%
		QC value within limits for Ca 227.546	Recovery = Not calculated				
Cd	228.802†	0.2	0.00000 mg/L	0.000103	0.00000 mg/L	0.000103	>999.9%
		QC value within limits for Cd 228.802	Recovery = Not calculated				
Co	228.616†	-8.1	-0.00037 mg/L	0.000077	-0.00037 mg/L	0.000077	20.61%
		QC value within limits for Co 228.616	Recovery = Not calculated				
Cr	267.716†	7.0	-0.00047 mg/L	0.000037	-0.00047 mg/L	0.000037	7.88%
		QC value within limits for Cr 267.716	Recovery = Not calculated				
Cu	327.393†	22.3	0.00050 mg/L	0.000772	0.00050 mg/L	0.000772	153.02%
		QC value within limits for Cu 327.393	Recovery = Not calculated				
Fe	239.562†	14.0	0.00572 mg/L	0.000401	0.00572 mg/L	0.000401	7.01%
		QC value within limits for Fe 239.562	Recovery = Not calculated				
Mg	279.077†	3.0	0.0303 mg/L	0.00477	0.0303 mg/L	0.00477	15.76%
		QC value within limits for Mg 279.077	Recovery = Not calculated				
Mn	257.610†	59.1	-0.00074 mg/L	0.000012	-0.00074 mg/L	0.000012	1.60%
		QC value within limits for Mn 257.610	Recovery = Not calculated				
Mo	202.031†	6.0	-0.00071 mg/L	0.000153	-0.00071 mg/L	0.000153	21.63%
		QC value within limits for Mo 202.031	Recovery = Not calculated				
Ni	231.604†	-0.3	-0.00300 mg/L	0.000121	-0.00300 mg/L	0.000121	4.04%
		QC value within limits for Ni 231.604	Recovery = Not calculated				
Pb	220.353†	-8.6	-0.00105 mg/L	0.000863	-0.00105 mg/L	0.000863	82.35%
		QC value within limits for Pb 220.353	Recovery = Not calculated				
Sb	206.836†	-2.5	0.00032 mg/L	0.000400	0.00032 mg/L	0.000400	124.90%
		QC value within limits for Sb 206.836	Recovery = Not calculated				
Se	196.026†	-4.6	-0.00050 mg/L	0.001891	-0.00050 mg/L	0.001891	378.85%
		QC value within limits for Se 196.026	Recovery = Not calculated				
Si	251.611†	476.8	0.00637 mg/L	0.001962	0.00637 mg/L	0.001962	30.78%
		QC value within limits for Si 251.611	Recovery = Not calculated				
Sn	189.927†	21.0	0.00024 mg/L	0.000627	0.00024 mg/L	0.000627	259.33%
		QC value within limits for Sn 189.927	Recovery = Not calculated				
Ti	334.940†	136.9	0.00022 mg/L	0.000095	0.00022 mg/L	0.000095	43.75%
		QC value within limits for Ti 334.940	Recovery = Not calculated				
Tl	190.801†	-4.8	-0.00358 mg/L	0.000477	-0.00358 mg/L	0.000477	13.31%
		QC value within limits for Tl 190.801	Recovery = Not calculated				
V	290.880†	214.4	0.00007 mg/L	0.002565	0.00007 mg/L	0.002565	>999.9%
		QC value within limits for V 290.880	Recovery = Not calculated				
Zn	206.200†	7.5	-0.00118 mg/L	0.000202	-0.00118 mg/L	0.000202	17.17%
		QC value within limits for Zn 206.200	Recovery = Not calculated				
K	766.490†	-20.9	-0.0727 mg/L	0.00616	-0.0727 mg/L	0.00616	8.48%
		QC value within limits for K 766.490	Recovery = Not calculated				
Na	589.592†	249.6	0.0143 mg/L	0.00625	0.0143 mg/L	0.00625	43.78%
		QC value within limits for Na 589.592	Recovery = Not calculated				
Sr	407.771†	229.3	-0.00034 mg/L	0.000022	-0.00034 mg/L	0.000022	6.56%
		QC value within limits for Sr 407.771	Recovery = Not calculated				
Li	670.784†	0.4	-0.00350 mg/L	0.000305	-0.00350 mg/L	0.000305	8.71%
		QC value within limits for Li 670.784	Recovery = Not calculated				
All analyte(s) passed QC.							

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Sequence No.: 34	u&osampler Location: 43
Sample ID: LLCCV	ame Collected: 7/26/2012 5:27:53 PM
Analyst: KHR	ana Type: Original
Initial Sample Wt:	nitial Sample Vol:
Dilution:	ample Prep Vol:

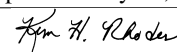
Nebulizer Parameters: LLCCV

Analyte	Back Pressure	Flow
All	157.0 kPa	0.50 L/min

Mean Data: LLCCV

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 371.029	2344124.8				11757.18	0.50%
YRADIAL	293289.5				1365.57	0.47%
Ga 417.206	1275338.5				25682.96	2.01%
GaRADIAL	83415.8				1925.26	2.31%
Ag 328.068†	1108.6	0.00408 mg/L	0.000442	0.00408 mg/L	0.000442	10.83%
Al 396.153†	690.0	0.100 mg/L	0.0003	0.100 mg/L	0.0003	0.30%
As 188.979†	13.9	0.00250 mg/L	0.001030	0.00250 mg/L	0.001030	41.24%

Approved: July 27, 2012



Ba	233.527†	1714.4	0.00855 mg/L	0.000102	0.00855 mg/L	0.000102	1.19%
Be	234.861†	532.1	0.00050 mg/L	0.000023	0.00050 mg/L	0.000023	4.66%
B	249.677†	623.3	0.00669 mg/L	0.000461	0.00669 mg/L	0.000461	6.89%
Ca	227.546†	48.1	0.157 mg/L	0.0189	0.157 mg/L	0.0189	12.05%
Cd	228.802†	27.1	0.00048 mg/L	0.000122	0.00048 mg/L	0.000122	25.33%
Co	228.616†	77.4	0.00158 mg/L	0.000117	0.00158 mg/L	0.000117	7.42%
Cr	267.716†	659.4	0.00482 mg/L	0.000104	0.00482 mg/L	0.000104	2.15%
Cu	327.393†	1273.2	0.00545 mg/L	0.000688	0.00545 mg/L	0.000688	12.62%
Fe	239.562†	577.5	0.0442 mg/L	0.00065	0.0442 mg/L	0.00065	1.47%
Mg	279.077†	331.5	0.129 mg/L	0.0006	0.129 mg/L	0.0006	0.49%
Mn	257.610†	5547.6	0.00606 mg/L	0.000057	0.00606 mg/L	0.000057	0.94%
Mo	202.031†	366.7	0.00903 mg/L	0.000191	0.00903 mg/L	0.000191	2.11%
Ni	231.604†	363.9	0.00230 mg/L	0.000203	0.00230 mg/L	0.000203	8.84%
Pb	220.353†	74.7	0.00509 mg/L	0.000954	0.00509 mg/L	0.000954	18.75%
Sb	206.836†	54.5	0.0126 mg/L	0.00090	0.0126 mg/L	0.00090	7.17%
Se	196.026†	6.6	0.00495 mg/L	0.003871	0.00495 mg/L	0.003871	78.18%
Si	251.611†	3212.5	0.0604 mg/L	0.00305	0.0604 mg/L	0.00305	5.05%
Sn	189.927†	142.2	0.0101 mg/L	0.00041	0.0101 mg/L	0.00041	4.03%
Ti	334.940†	10572.8	0.0103 mg/L	0.00003	0.0103 mg/L	0.00003	0.34%
Tl	190.801†	11.3	0.00067 mg/L	0.001498	0.00067 mg/L	0.001498	224.94%
V	290.880†	2401.0	0.00900 mg/L	0.000719	0.00900 mg/L	0.000719	7.99%
Zn	206.200†	700.0	0.0110 mg/L	0.00013	0.0110 mg/L	0.00013	1.18%
K	766.490†	1779.6	0.526 mg/L	0.0094	0.526 mg/L	0.0094	1.79%
Na	589.592†	10184.1	0.502 mg/L	0.0111	0.502 mg/L	0.0111	2.22%
Sr	407.771†	27251.0	0.0101 mg/L	0.00029	0.0101 mg/L	0.00029	2.91%
Li	670.784†	1651.8	0.00757 mg/L	0.000342	0.00757 mg/L	0.000342	4.53%

Sequence No.: 35
 Sample ID: LLCCV
 Analyst: KHR
 Initial Sample Wt:
 Dilution:

u&osampler Location: 44
 a&e Collected: 7/26/2012 5:35:01 PM
 a&a Type: Original
 n&ital Sample Vol:
 a∓le Prep Vol:

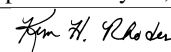
Nebulizer Parameters: LLCCV

Analyte Back Pressure Flow
 All 157.0 kPa 0.50 L/min

Mean Data: LLCCV

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 371.029	2333618.9				5933.30	0.25%
YRADIAL	291040.9				3228.51	1.11%
Ga 417.206	1271931.2				13372.51	1.05%
GarADIAL	83008.5				1716.82	2.07%
Ag 328.068†	2542.8	0.00870 mg/L	0.000305	0.00870 mg/L	0.000305	3.50%
Al 396.153†	1412.5	0.207 mg/L	0.0016	0.207 mg/L	0.0016	0.78%
As 188.979†	32.5	0.00777 mg/L	0.000832	0.00777 mg/L	0.000832	10.71%
Ba 233.527†	3497.8	0.0193 mg/L	0.00006	0.0193 mg/L	0.00006	0.33%
Be 234.861†	1138.0	0.00101 mg/L	0.000017	0.00101 mg/L	0.000017	1.64%
B 249.677†	1146.7	0.0115 mg/L	0.00054	0.0115 mg/L	0.00054	4.72%
Ca 227.546†	88.8	0.253 mg/L	0.0248	0.253 mg/L	0.0248	9.83%
Cd 228.802†	56.5	0.00101 mg/L	0.000120	0.00101 mg/L	0.000120	11.90%
Co 228.616†	173.1	0.00376 mg/L	0.000050	0.00376 mg/L	0.000050	1.33%
Cr 267.716†	1322.8	0.0102 mg/L	0.00011	0.0102 mg/L	0.00011	1.10%
Cu 327.393†	2624.1	0.0108 mg/L	0.00019	0.0108 mg/L	0.00019	1.73%
Fe 239.562†	1187.4	0.0859 mg/L	0.00085	0.0859 mg/L	0.00085	0.99%
Mg 279.077†	682.7	0.234 mg/L	0.0007	0.234 mg/L	0.0007	0.28%
Mn 257.610†	8884.1	0.0102 mg/L	0.00006	0.0102 mg/L	0.00006	0.62%
Mo 202.031†	761.6	0.0197 mg/L	0.00020	0.0197 mg/L	0.00020	1.01%
Ni 231.604†	737.0	0.00773 mg/L	0.000159	0.00773 mg/L	0.000159	2.06%
Pb 220.353†	142.3	0.0101 mg/L	0.00040	0.0101 mg/L	0.00040	3.96%
Sb 206.836†	107.6	0.0240 mg/L	0.00179	0.0240 mg/L	0.00179	7.47%
Se 196.026†	13.3	0.00827 mg/L	0.002543	0.00827 mg/L	0.002543	30.75%
Si 251.611†	5454.9	0.105 mg/L	0.0013	0.105 mg/L	0.0013	1.29%
Sn 189.927†	269.2	0.0205 mg/L	0.00040	0.0205 mg/L	0.00040	1.94%
Ti 334.940†	21298.6	0.0206 mg/L	0.00015	0.0206 mg/L	0.00015	0.74%
Tl 190.801†	31.9	0.00607 mg/L	0.001056	0.00607 mg/L	0.001056	17.40%
V 290.880†	4879.5	0.0191 mg/L	0.00112	0.0191 mg/L	0.00112	5.85%
Zn 206.200†	1303.2	0.0216 mg/L	0.00007	0.0216 mg/L	0.00007	0.33%

Approved: July 27, 2012



K 766.490†	3375.7	1.06 mg/L	0.007	1.06 mg/L	0.007	0.63%
Na 589.592†	20583.2	1.01 mg/L	0.019	1.01 mg/L	0.019	1.85%
Sr 407.771†	55330.7	0.0210 mg/L	0.00074	0.0210 mg/L	0.00074	3.52%
Li 670.784†	3262.1	0.0184 mg/L	0.00057	0.0184 mg/L	0.00057	3.11%

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Sequence No.: 36                                u&osampler Location: 45
Sample ID: L1207000101                          a&e Collected: 7/26/2012 5:42:09 PM
Analyst: KHR                                    a&a Type: Original
Initial Sample Wt:                              nitial Sample Vol:
Dilution:                                       a&ple Prep Vol:
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Nebulizer Parameters: L1207000101
Analyte          Back Pressure    Flow
All              157.0 kPa          0.50 L/min
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Mean Data: L1207000101
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Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 371.029	2364995.8				3208.21	0.14%
YRADIAL	297187.9				13321.34	4.48%
Ga 417.206	1353815.4				12423.78	0.92%
GaRADIAL	86013.2				1265.51	1.47%
Ag 328.068†	994.6	0.00370 mg/L	0.000188	0.00370 mg/L	0.000188	5.09%
Al 396.153†	266.1	0.0377 mg/L	0.00193	0.0377 mg/L	0.00193	5.12%
As 188.979†	18.2	0.00375 mg/L	0.000894	0.00375 mg/L	0.000894	23.81%
Ba 233.527†	418.6	0.00072 mg/L	0.000090	0.00072 mg/L	0.000090	12.46%
Be 234.861†	637.5	0.00059 mg/L	0.000013	0.00059 mg/L	0.000013	2.25%
B 249.677†	4772.3	0.0449 mg/L	0.00079	0.0449 mg/L	0.00079	1.75%
Ca 227.546†	37.5	0.133 mg/L	0.0148	0.133 mg/L	0.0148	11.15%
Cd 228.802†	12.3	0.00020 mg/L	0.000108	0.00020 mg/L	0.000108	52.91%
Co 228.616†	111.5	0.00236 mg/L	0.000113	0.00236 mg/L	0.000113	4.78%
Cr 267.716†	319.0	0.00206 mg/L	0.000061	0.00206 mg/L	0.000061	2.97%
Cu 327.393†	707.6	0.00321 mg/L	0.000281	0.00321 mg/L	0.000281	8.75%
Fe 239.562†	390.6	0.0314 mg/L	0.00121	0.0314 mg/L	0.00121	3.84%
Mg 279.077†	853.8	0.286 mg/L	0.0111	0.286 mg/L	0.0111	3.88%
Mn 257.610†	4102.3	0.00427 mg/L	0.000008	0.00427 mg/L	0.000008	0.19%
Mo 202.031†	180.6	0.00401 mg/L	0.000155	0.00401 mg/L	0.000155	3.87%
Ni 231.604†	397.8	0.00276 mg/L	0.000329	0.00276 mg/L	0.000329	11.95%
Pb 220.353†	30.1	0.00180 mg/L	0.001470	0.00180 mg/L	0.001470	81.65%
Sb 206.836†	219.6	0.0481 mg/L	0.00143	0.0481 mg/L	0.00143	2.98%
Se 196.026†	6.8	0.00506 mg/L	0.003868	0.00506 mg/L	0.003868	76.43%
Si 251.611†	12621.3	0.246 mg/L	0.0056	0.246 mg/L	0.0056	2.29%
Sn 189.927†	658.0	0.0523 mg/L	0.00066	0.0523 mg/L	0.00066	1.27%
Ti 334.940†	5331.7	0.00524 mg/L	0.000133	0.00524 mg/L	0.000133	2.54%
Tl 190.801†	426.2	0.106 mg/L	0.0011	0.106 mg/L	0.0011	1.00%
V 290.880†	1309.1	0.00453 mg/L	0.000412	0.00453 mg/L	0.000412	9.09%
Zn 206.200†	485.6	0.00724 mg/L	0.000111	0.00724 mg/L	0.000111	1.53%
K 766.490†	711.7	0.171 mg/L	0.0022	0.171 mg/L	0.0022	1.30%
Na 589.592†	5191.2	0.257 mg/L	0.0050	0.257 mg/L	0.0050	1.93%
Sr 407.771†	13328.2	0.00473 mg/L	0.000157	0.00473 mg/L	0.000157	3.32%
Li 670.784†	8003.8	0.0501 mg/L	0.00122	0.0501 mg/L	0.00122	2.43%

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Sequence No.: 37                                u&osampler Location: 46
Sample ID: L1207000301                          a&e Collected: 7/26/2012 5:49:18 PM
Analyst: KHR                                    a&a Type: Original
Initial Sample Wt:                              nitial Sample Vol:
Dilution:                                       a&ple Prep Vol:
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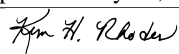
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Nebulizer Parameters: L1207000301
Analyte          Back Pressure    Flow
All              157.0 kPa          0.50 L/min
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Mean Data: L1207000301
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Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 371.029	2350271.0				27420.85	1.17%

Approved: July 27, 2012


YRADIAL	295316.7				2212.68	0.75%
Ga 417.206	1346096.9				24499.66	1.82%
GaRADIAL	85457.9				2063.19	2.41%
Ag 328.068†	1790.0	0.00626 mg/L	0.000357	0.00626 mg/L	0.000357	5.69%
Al 396.153†	613.8	0.0891 mg/L	0.00029	0.0891 mg/L	0.00029	0.32%
As 188.979†	33.4	0.00809 mg/L	0.000782	0.00809 mg/L	0.000782	9.68%
Ba 233.527†	847.0	0.00331 mg/L	0.000093	0.00331 mg/L	0.000093	2.82%
Be 234.861†	1144.1	0.00102 mg/L	0.000018	0.00102 mg/L	0.000018	1.77%
B 249.677†	9920.2	0.0922 mg/L	0.00216	0.0922 mg/L	0.00216	2.34%
Ca 227.546†	70.2	0.210 mg/L	0.0115	0.210 mg/L	0.0115	5.48%
Cd 228.802†	28.3	0.00049 mg/L	0.000063	0.00049 mg/L	0.000063	12.86%
Co 228.616†	214.5	0.00472 mg/L	0.000290	0.00472 mg/L	0.000290	6.15%
Cr 267.716†	678.7	0.00498 mg/L	0.000164	0.00498 mg/L	0.000164	3.29%
Cu 327.393†	1289.7	0.00550 mg/L	0.000182	0.00550 mg/L	0.000182	3.30%
Fe 239.562†	759.9	0.0567 mg/L	0.00039	0.0567 mg/L	0.00039	0.70%
Mg 279.077†	1694.4	0.538 mg/L	0.0046	0.538 mg/L	0.0046	0.85%
Mn 257.610†	5353.0	0.00582 mg/L	0.000298	0.00582 mg/L	0.000298	5.12%
Mo 202.031†	379.4	0.00938 mg/L	0.000041	0.00938 mg/L	0.000041	0.43%
Ni 231.604†	761.3	0.00800 mg/L	0.000067	0.00800 mg/L	0.000067	0.84%
Pb 220.353†	70.1	0.00475 mg/L	0.000671	0.00475 mg/L	0.000671	14.13%
Sb 206.836†	455.4	0.0988 mg/L	0.00143	0.0988 mg/L	0.00143	1.45%
Se 196.026†	18.5	0.0108 mg/L	0.00188	0.0108 mg/L	0.00188	17.49%
Si 251.611†	25846.3	0.508 mg/L	0.0096	0.508 mg/L	0.0096	1.89%
Sn 189.927†	1336.5	0.108 mg/L	0.0018	0.108 mg/L	0.0018	1.69%
Ti 334.940†	11053.8	0.0108 mg/L	0.00022	0.0108 mg/L	0.00022	2.01%
Tl 190.801†	869.1	0.219 mg/L	0.0008	0.219 mg/L	0.0008	0.35%
V 290.880†	2783.4	0.0106 mg/L	0.00145	0.0106 mg/L	0.00145	13.74%
Zn 206.200†	741.2	0.0118 mg/L	0.00016	0.0118 mg/L	0.00016	1.40%
K 766.490†	1785.1	0.528 mg/L	0.0046	0.528 mg/L	0.0046	0.87%
Na 589.592†	10127.9	0.500 mg/L	0.0137	0.500 mg/L	0.0137	2.74%
Sr 407.771†	27273.4	0.0101 mg/L	0.00028	0.0101 mg/L	0.00028	2.75%
Li 670.784†	16178.7	0.105 mg/L	0.0029	0.105 mg/L	0.0029	2.75%

Sequence No.: 38

Sample ID: L1207073501 0.01

Analyst: KHR

Initial Sample Wt:

Dilution:

uAosampler Location: 47

aAe Collected: 7/26/2012 5:56:26 PM

aAa Type: Original

nitial Sample Vol:

aAple Prep Vol:

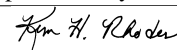
Nebulizer Parameters: L1207073501 0.01

Analyte	Back Pressure	Flow
All	157.0 kPa	0.50 L/min

Mean Data: L1207073501 0.01

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 371.029	2364651.5				36453.45	1.54%
YRADIAL	296400.5				4160.69	1.40%
Ga 417.206	1322152.5				23391.88	1.77%
GaRADIAL	84456.3				1134.68	1.34%
Ag 328.068†	-18.5	0.00044 mg/L	0.000475	0.00044 mg/L	0.000475	107.86%
Al 396.153†	-112.5	-0.0183 mg/L	0.00043	-0.0183 mg/L	0.00043	2.33%
As 188.979†	5.1	0.00002 mg/L	0.001521	0.00002 mg/L	0.001521	>999.9%
Ba 233.527†	43.0	-0.00155 mg/L	0.000105	-0.00155 mg/L	0.000105	6.80%
Be 234.861†	156.8	0.00018 mg/L	0.000015	0.00018 mg/L	0.000015	8.49%
B 249.677†	-104.1	0.00004 mg/L	0.000027	0.00004 mg/L	0.000027	76.80%
Ca 227.546†	2008.6	4.53 mg/L	0.317	4.53 mg/L	0.317	6.99%
Cd 228.802†	-3.1	-0.00007 mg/L	0.000069	-0.00007 mg/L	0.000069	96.02%
Co 228.616†	0.9	-0.00016 mg/L	0.000166	-0.00016 mg/L	0.000166	101.63%
Cr 267.716†	4.2	-0.00050 mg/L	0.000008	-0.00050 mg/L	0.000008	1.53%
Cu 327.393†	-0.6	0.00041 mg/L	0.000459	0.00041 mg/L	0.000459	111.04%
Fe 239.562†	2.0	0.00489 mg/L	0.000665	0.00489 mg/L	0.000665	13.59%
Mg 279.077†	22.3	0.0361 mg/L	0.00131	0.0361 mg/L	0.00131	3.64%
Mn 257.610†	-8.2	-0.00082 mg/L	0.000025	-0.00082 mg/L	0.000025	3.06%
Mo 202.031†	-8.0	-0.00108 mg/L	0.000102	-0.00108 mg/L	0.000102	9.43%
Ni 231.604†	8.2	-0.00287 mg/L	0.000041	-0.00287 mg/L	0.000041	1.42%
Pb 220.353†	3.6	-0.00011 mg/L	0.000782	-0.00011 mg/L	0.000782	685.26%
Sb 206.836†	-6.5	-0.00056 mg/L	0.000597	-0.00056 mg/L	0.000597	107.38%
Se 196.026†	-5.0	-0.00074 mg/L	0.001556	-0.00074 mg/L	0.001556	210.37%

Approved: July 27, 2012



Method: 200.7-6010 PE-ICP2.1

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Date: 7/26/2012 6:13:06 PM

Si 251.611†	168.9	0.00029	mg/L	0.000525	0.00029	mg/L	0.000525	181.55%
Sn 189.927†	-45.4	-0.00518	mg/L	0.000307	-0.00518	mg/L	0.000307	5.92%
Ti 334.940†	-1082.3	-0.00029	mg/L	0.000082	-0.00029	mg/L	0.000082	28.66%
Tl 190.801†	-4.1	-0.00343	mg/L	0.001233	-0.00343	mg/L	0.001233	35.96%
V 290.880†	223.9	0.00011	mg/L	0.001153	0.00011	mg/L	0.001153	>999.9%
Zn 206.200†	294.2	0.00385	mg/L	0.000272	0.00385	mg/L	0.000272	7.08%
K 766.490†	-5.9	-0.0677	mg/L	0.03729	-0.0677	mg/L	0.03729	55.08%
Na 589.592†	408.1	0.0221	mg/L	0.00712	0.0221	mg/L	0.00712	32.27%
Sr 407.771†	14644.4	0.00514	mg/L	0.000207	0.00514	mg/L	0.000207	4.03%
Li 670.784†	64.5	-0.00307	mg/L	0.000274	-0.00307	mg/L	0.000274	8.93%

Sequence No.: 39

Sample ID: L1207065830 0.01

Analyst: KHR

Initial Sample Wt:

Dilution:

uSampler Location: 48

Date Collected: 7/26/2012 6:03:31 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Nebulizer Parameters: L1207065830 0.01

Analyte	Back Pressure	Flow
All	157.0 kPa	0.50 L/min

Mean Data: L1207065830 0.01

Analyte	Mean Corrected Intensity	Conc. Units	Calib. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD	
Y 371.029	2367243.2					9872.50	0.42%	
YRADIAL	296348.3					8522.44	2.88%	
Ga 417.206	1325267.0					5591.48	0.42%	
GaRADIAL	85948.4					247.04	0.29%	
Ag 328.068†	-41.7	0.00042	mg/L	0.000149	0.00042	mg/L	0.000149	35.79%
Al 396.153†	-50.8	-0.00910	mg/L	0.000617	-0.00910	mg/L	0.000617	6.78%
As 188.979†	3.3	-0.00046	mg/L	0.001294	-0.00046	mg/L	0.001294	283.94%
Ba 233.527†	208.9	-0.00055	mg/L	0.000014	-0.00055	mg/L	0.000014	2.57%
Be 234.861†	178.3	0.00017	mg/L	0.000003	0.00017	mg/L	0.000003	1.78%
B 249.677†	-14.0	0.00081	mg/L	0.000178	0.00081	mg/L	0.000178	22.05%
Ca 227.546†	289.2	0.694	mg/L	0.0265	0.694	mg/L	0.0265	3.82%
Cd 228.802†	3.5	0.00005	mg/L	0.000134	0.00005	mg/L	0.000134	252.59%
Co 228.616†	-1.5	-0.00023	mg/L	0.000282	-0.00023	mg/L	0.000282	125.33%
Cr 267.716†	0.2	-0.00054	mg/L	0.000118	-0.00054	mg/L	0.000118	21.96%
Cu 327.393†	-37.5	0.00027	mg/L	0.000505	0.00027	mg/L	0.000505	184.14%
Fe 239.562†	1949.3	0.138	mg/L	0.0070	0.138	mg/L	0.0070	5.08%
Mg 279.077†	1621.2	0.516	mg/L	0.0243	0.516	mg/L	0.0243	4.71%
Mn 257.610†	2783.4	0.00263	mg/L	0.000007	0.00263	mg/L	0.000007	0.25%
Mo 202.031†	-8.8	-0.00110	mg/L	0.000291	-0.00110	mg/L	0.000291	26.53%
Ni 231.604†	18.7	-0.00272	mg/L	0.000108	-0.00272	mg/L	0.000108	3.97%
Pb 220.353†	-5.7	-0.00084	mg/L	0.000690	-0.00084	mg/L	0.000690	81.74%
Sb 206.836†	-6.2	-0.00047	mg/L	0.002371	-0.00047	mg/L	0.002371	500.02%
Se 196.026†	-6.7	-0.00152	mg/L	0.001276	-0.00152	mg/L	0.001276	84.10%
Si 251.611†	11213.5	0.219	mg/L	0.0071	0.219	mg/L	0.0071	3.23%
Sn 189.927†	-8.3	-0.00215	mg/L	0.000361	-0.00215	mg/L	0.000361	16.79%
Ti 334.940†	106.1	0.00028	mg/L	0.000060	0.00028	mg/L	0.000060	21.35%
Tl 190.801†	4.2	-0.00130	mg/L	0.000299	-0.00130	mg/L	0.000299	22.93%
V 290.880†	17.6	-0.00076	mg/L	0.000531	-0.00076	mg/L	0.000531	70.31%
Zn 206.200†	68.0	-0.00012	mg/L	0.000030	-0.00012	mg/L	0.000030	24.97%
K 766.490†	315.3	0.0373	mg/L	0.00584	0.0373	mg/L	0.00584	15.64%
Na 589.592†	39429.9	1.94	mg/L	0.187	1.94	mg/L	0.187	9.63%
Sr 407.771†	61854.7	0.0235	mg/L	0.00119	0.0235	mg/L	0.00119	5.08%
Li 670.784†	202.8	-0.00214	mg/L	0.000234	-0.00214	mg/L	0.000234	10.93%

Sequence No.: 40

Sample ID: L1207067301

Analyst: KHR

Initial Sample Wt:

Dilution:

uSampler Location: 49

Date Collected: 7/26/2012 6:10:37 PM

Data Type: Original

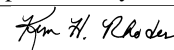
Initial Sample Vol:

Sample Prep Vol:

Nebulizer Parameters: L1207067301

Analyte	Back Pressure	Flow
All	157.0 kPa	0.50 L/min

Approved: July 27, 2012



Mean Data: L1207067301

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 371.029	2314413.3				8527.67	0.37%
YRADIAL	291785.0				2328.38	0.80%
Ga 417.206	1362285.4				17226.94	1.26%
GaRADIAL	86302.6				2398.48	2.78%
Ag 328.068†	279.2	0.00135 mg/L	0.000089	0.00135 mg/L	0.000089	6.58%
Al 396.153†	120.6	0.0161 mg/L	0.00201	0.0161 mg/L	0.00201	12.50%
As 188.979†	4.0	-0.00029 mg/L	0.001248	-0.00029 mg/L	0.001248	434.28%
Ba 233.527†	14739.7	0.0872 mg/L	0.00095	0.0872 mg/L	0.00095	1.09%
Be 234.861†	107.4	0.00014 mg/L	0.000014	0.00014 mg/L	0.000014	10.07%
B 249.677†	2711.3	0.0259 mg/L	0.00053	0.0259 mg/L	0.00053	2.06%
Ca 227.546†	15781.1	35.3 mg/L	0.67	35.3 mg/L	0.67	1.91%
Cd 228.802†	0.0	-0.00001 mg/L	0.000109	-0.00001 mg/L	0.000109	753.76%
Co 228.616†	-18.1	-0.00061 mg/L	0.000265	-0.00061 mg/L	0.000265	43.54%
Cr 267.716†	524.0	0.00372 mg/L	0.000156	0.00372 mg/L	0.000156	4.18%
Cu 327.393†	30.4	0.00053 mg/L	0.000431	0.00053 mg/L	0.000431	80.66%
Fe 239.562†	461.4	0.0362 mg/L	0.00052	0.0362 mg/L	0.00052	1.44%
Mg 279.077†	20556.3	6.20 mg/L	0.035	6.20 mg/L	0.035	0.57%
Mn 257.610†	1528.0	0.00108 mg/L	0.000017	0.00108 mg/L	0.000017	1.57%
Mo 202.031†	169.0	0.00370 mg/L	0.000313	0.00370 mg/L	0.000313	8.47%
Ni 231.604†	18.7	-0.00272 mg/L	0.000103	-0.00272 mg/L	0.000103	3.80%
Pb 220.353†	1.9	0.00001 mg/L	0.000610	0.00001 mg/L	0.000610	>999.9%
Sb 206.836†	0.2	0.00088 mg/L	0.000770	0.00088 mg/L	0.000770	87.39%
Se 196.026†	1.2	0.00233 mg/L	0.001857	0.00233 mg/L	0.001857	79.71%
Si 251.611†	735464.3	14.5 mg/L	0.12	14.5 mg/L	0.12	0.80%
Sn 189.927†	-230.3	-0.0203 mg/L	0.00077	-0.0203 mg/L	0.00077	3.82%
Ti 334.940†	-5806.2	-0.00023 mg/L	0.000197	-0.00023 mg/L	0.000197	86.48%
Tl 190.801†	-15.0	-0.00623 mg/L	0.001879	-0.00623 mg/L	0.001879	30.16%
V 290.880†	2143.4	0.00779 mg/L	0.001658	0.00779 mg/L	0.001658	21.29%
Zn 206.200†	629.6	0.00976 mg/L	0.000048	0.00976 mg/L	0.000048	0.50%
K 766.490†	6498.8	2.08 mg/L	0.017	2.08 mg/L	0.017	0.83%
Na 589.592†	420913.1	20.9 mg/L	0.51	20.9 mg/L	0.51	2.46%
Sr 407.771†	915379.1	0.353 mg/L	0.0108	0.353 mg/L	0.0108	3.05%
Li 670.784†	1765.5	0.00833 mg/L	0.000257	0.00833 mg/L	0.000257	3.08%

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Sequence No.: 41

Sample ID: L1207067301PS WG404492-03

Analyst: KHR

Initial Sample Wt:

Dilution:

uAosampler Location: 50

aAe Collected: 7/26/2012 6:17:44 PM

aAa Type: Original

nitial Sample Vol:

aAple Prep Vol:

Nebulizer Parameters: L1207067301PS WG404492-03

Analyte	Back Pressure	Flow
All	157.0 kPa	0.50 L/min

Mean Data: L1207067301PS WG404492-03

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 371.029	2313231.8				14515.54	0.63%
YRADIAL	294855.3				1960.05	0.66%
Ga 417.206	1312552.5				22176.54	1.69%
GaRADIAL	83394.0				666.35	0.80%
Ag 328.068†	62581.0	0.202 mg/L	0.0041	0.202 mg/L	0.0041	2.04%
Al 396.153†	33778.3	4.99 mg/L	0.005	4.99 mg/L	0.005	0.10%
As 188.979†	688.1	0.193 mg/L	0.0039	0.193 mg/L	0.0039	2.03%
Ba 233.527†	97194.1	0.585 mg/L	0.0020	0.585 mg/L	0.0020	0.33%
Be 234.861†	29029.0	0.0245 mg/L	0.00052	0.0245 mg/L	0.00052	2.12%
B 249.677†	109434.3	1.01 mg/L	0.021	1.01 mg/L	0.021	2.08%
Ca 227.546†	17134.2	38.6 mg/L	0.87	38.6 mg/L	0.87	2.27%
Cd 228.802†	1319.1	0.0237 mg/L	0.00109	0.0237 mg/L	0.00109	4.58%
Co 228.616†	4361.2	0.0993 mg/L	0.00083	0.0993 mg/L	0.00083	0.83%
Cr 267.716†	31755.8	0.257 mg/L	0.0018	0.257 mg/L	0.0018	0.69%
Cu 327.393†	62257.7	0.247 mg/L	0.0053	0.247 mg/L	0.0053	2.17%
Fe 239.562†	29207.3	2.00 mg/L	0.014	2.00 mg/L	0.014	0.69%
Mg 279.077†	34616.2	10.4 mg/L	0.11	10.4 mg/L	0.11	1.08%

Approved: July 27, 2012

Ann H. Rhodes

Mn 257.610†	208557.5	0.258 mg/L	0.0020	0.258 mg/L	0.0020	0.78%
Mo 202.031†	18721.6	0.504 mg/L	0.0019	0.504 mg/L	0.0019	0.38%
Ni 231.604†	17214.0	0.247 mg/L	0.0010	0.247 mg/L	0.0010	0.39%
Pb 220.353†	3462.4	0.255 mg/L	0.0008	0.255 mg/L	0.0008	0.30%
Sb 206.836†	2730.2	0.587 mg/L	0.0150	0.587 mg/L	0.0150	2.55%
Se 196.026†	401.3	0.199 mg/L	0.0036	0.199 mg/L	0.0036	1.81%
Si 251.611†	818367.1	16.2 mg/L	0.16	16.2 mg/L	0.16	0.98%
Sn 189.927†	6183.0	0.504 mg/L	0.0039	0.504 mg/L	0.0039	0.77%
Ti 334.940†	520202.6	0.507 mg/L	0.0019	0.507 mg/L	0.0019	0.38%
Tl 190.801†	1009.5	0.262 mg/L	0.0075	0.262 mg/L	0.0075	2.86%
V 290.880†	128255.3	0.523 mg/L	0.0051	0.523 mg/L	0.0051	0.97%
Zn 206.200†	29391.0	0.516 mg/L	0.0022	0.516 mg/L	0.0022	0.42%
K 766.490†	79839.3	26.5 mg/L	0.29	26.5 mg/L	0.29	1.09%
Na 589.592†	889042.0	44.6 mg/L	0.39	44.6 mg/L	0.39	0.87%
Sr 407.771†	2063392.6	0.797 mg/L	0.0009	0.797 mg/L	0.0009	0.11%
Li 670.784†	78957.0	0.526 mg/L	0.0037	0.526 mg/L	0.0037	0.70%

Sequence No.: 42

Sample ID: L1207057602 0.01

Analyst: KHR

Initial Sample Wt:

Dilution:

u\osampler Location: 51

ame Collected: 7/26/2012 6:23:56 PM

ada Type: Original

nitial Sample Vol:

ample Prep Vol:

Nebulizer Parameters: L1207057602 0.01

Analyte	Back Pressure	Flow
All	157.0 kPa	0.50 L/min

Mean Data: L1207057602 0.01

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 371.029	2384340.6				12348.14	0.52%
YRADIAL	292872.0				4179.97	1.43%
Ga 417.206	1321441.1				17456.30	1.32%
GaRADIAL	84046.7				1506.75	1.79%
Ag 328.068†	-79.5	0.00025 mg/L	0.000197	0.00025 mg/L	0.000197	78.57%
Al 396.153†	-72.0	-0.0123 mg/L	0.00212	-0.0123 mg/L	0.00212	17.25%
As 188.979†	8.1	0.00091 mg/L	0.001057	0.00091 mg/L	0.001057	116.45%
Ba 233.527†	103.8	-0.00118 mg/L	0.000126	-0.00118 mg/L	0.000126	10.65%
Be 234.861†	112.9	0.00014 mg/L	0.000013	0.00014 mg/L	0.000013	9.35%
B 249.677†	293.1	0.00368 mg/L	0.000484	0.00368 mg/L	0.000484	13.14%
Ca 227.546†	309.9	0.737 mg/L	0.0695	0.737 mg/L	0.0695	9.43%
Cd 228.802†	1.1	0.00000 mg/L	0.000086	0.00000 mg/L	0.000086	>999.9%
Co 228.616†	4.1	-0.00009 mg/L	0.000091	-0.00009 mg/L	0.000091	99.65%
Cr 267.716†	2.3	-0.00051 mg/L	0.000153	-0.00051 mg/L	0.000153	29.88%
Cu 327.393†	1.9	0.00042 mg/L	0.000388	0.00042 mg/L	0.000388	91.48%
Fe 239.562†	132.3	0.0138 mg/L	0.00079	0.0138 mg/L	0.00079	5.76%
Mg 279.077†	544.8	0.193 mg/L	0.0106	0.193 mg/L	0.0106	5.48%
Mn 257.610†	2732.2	0.00257 mg/L	0.000270	0.00257 mg/L	0.000270	10.51%
Mo 202.031†	-0.4	-0.00088 mg/L	0.000157	-0.00088 mg/L	0.000157	17.90%
Ni 231.604†	23.9	-0.00264 mg/L	0.000181	-0.00264 mg/L	0.000181	6.86%
Pb 220.353†	-7.5	-0.00097 mg/L	0.000693	-0.00097 mg/L	0.000693	71.75%
Sb 206.836†	-4.7	-0.00015 mg/L	0.000488	-0.00015 mg/L	0.000488	319.80%
Se 196.026†	-3.2	0.00018 mg/L	0.000676	0.00018 mg/L	0.000676	375.85%
Si 251.611†	5642.9	0.109 mg/L	0.0126	0.109 mg/L	0.0126	11.62%
Sn 189.927†	-3.4	-0.00175 mg/L	0.000281	-0.00175 mg/L	0.000281	16.07%
Ti 334.940†	-5.0	0.00018 mg/L	0.000039	0.00018 mg/L	0.000039	21.47%
Tl 190.801†	-0.2	-0.00241 mg/L	0.002537	-0.00241 mg/L	0.002537	105.24%
V 290.880†	420.0	0.00090 mg/L	0.000592	0.00090 mg/L	0.000592	65.43%
Zn 206.200†	58.8	-0.00028 mg/L	0.000129	-0.00028 mg/L	0.000129	46.65%
K 766.490†	124.6	-0.0275 mg/L	0.01788	-0.0275 mg/L	0.01788	65.06%
Na 589.592†	66162.7	3.26 mg/L	0.338	3.26 mg/L	0.338	10.39%
Sr 407.771†	7889.5	0.00261 mg/L	0.000102	0.00261 mg/L	0.000102	3.91%
Li 670.784†	-5.8	-0.00354 mg/L	0.000539	-0.00354 mg/L	0.000539	15.21%

Sequence No.: 43

Sample ID: CCV

Analyst:

Initial Sample Wt:

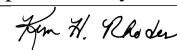
u\osampler Location: 6

ame Collected: 7/26/2012 6:31:02 PM

ada Type: Original

nitial Sample Vol:

Approved: July 27, 2012



Dilution:

Sample Prep Vol:

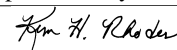
Nebulizer Parameters: CCV

Analyte	Back Pressure	Flow
All	157.0 kPa	0.50 L/min

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 371.029	2302536.6				14477.77	0.63%
YRADIAL	290263.8				5455.20	1.88%
Ga 417.206	1242095.0				13843.24	1.11%
GaRADIAL	80881.2				490.40	0.61%
Ag 328.068†	131134.1	0.423 mg/L	0.0061	0.423 mg/L	0.0061	1.45%
QC value within limits for Ag	328.068	Recovery = 105.82%				
Al 396.153†	69043.3	10.2 mg/L	0.02	10.2 mg/L	0.02	0.23%
QC value within limits for Al	396.153	Recovery = 102.07%				
As 188.979†	1448.7	0.408 mg/L	0.0070	0.408 mg/L	0.0070	1.72%
QC value within limits for As	188.979	Recovery = 102.09%				
Ba 233.527†	174050.4	1.05 mg/L	0.007	1.05 mg/L	0.007	0.70%
QC value within limits for Ba	233.527	Recovery = 104.95%				
Be 234.861†	62186.0	0.0525 mg/L	0.00051	0.0525 mg/L	0.00051	0.98%
QC value within limits for Be	234.861	Recovery = 104.98%				
B 249.677†	56177.5	0.514 mg/L	0.0113	0.514 mg/L	0.0113	2.21%
QC value within limits for B	249.677	Recovery = 102.77%				
Ca 227.546†	4537.4	10.7 mg/L	0.20	10.7 mg/L	0.20	1.90%
QC value within limits for Ca	227.546	Recovery = 106.73%				
Cd 228.802†	2877.5	0.0518 mg/L	0.00166	0.0518 mg/L	0.00166	3.21%
QC value within limits for Cd	228.802	Recovery = 103.64%				
Co 228.616†	9108.9	0.208 mg/L	0.0018	0.208 mg/L	0.0018	0.85%
QC value within limits for Co	228.616	Recovery = 103.86%				
Cr 267.716†	64786.7	0.526 mg/L	0.0027	0.526 mg/L	0.0027	0.51%
QC value within limits for Cr	267.716	Recovery = 105.11%				
Cu 327.393†	131415.2	0.520 mg/L	0.0086	0.520 mg/L	0.0086	1.65%
QC value within limits for Cu	327.393	Recovery = 104.10%				
Fe 239.562†	60131.8	4.11 mg/L	0.065	4.11 mg/L	0.065	1.58%
QC value within limits for Fe	239.562	Recovery = 102.84%				
Mg 279.077†	34096.5	10.3 mg/L	0.20	10.3 mg/L	0.20	1.95%
QC value within limits for Mg	279.077	Recovery = 102.73%				
Mn 257.610†	422313.5	0.523 mg/L	0.0033	0.523 mg/L	0.0033	0.63%
QC value within limits for Mn	257.610	Recovery = 104.59%				
Mo 202.031†	38665.5	1.04 mg/L	0.008	1.04 mg/L	0.008	0.80%
QC value within limits for Mo	202.031	Recovery = 104.28%				
Ni 231.604†	37009.9	0.535 mg/L	0.0036	0.535 mg/L	0.0036	0.67%
QC value within limits for Ni	231.604	Recovery = 107.08%				
Pb 220.353†	7090.6	0.522 mg/L	0.0013	0.522 mg/L	0.0013	0.25%
QC value within limits for Pb	220.353	Recovery = 104.41%				
Sb 206.836†	5781.3	1.24 mg/L	0.025	1.24 mg/L	0.025	2.04%
QC value within limits for Sb	206.836	Recovery = 103.58%				
Se 196.026†	845.7	0.417 mg/L	0.0095	0.417 mg/L	0.0095	2.27%
QC value within limits for Se	196.026	Recovery = 104.17%				
Si 251.611†	264971.1	5.23 mg/L	0.056	5.23 mg/L	0.056	1.08%
QC value within limits for Si	251.611	Recovery = 104.51%				
Sn 189.927†	12821.0	1.05 mg/L	0.007	1.05 mg/L	0.007	0.66%
QC value within limits for Sn	189.927	Recovery = 104.63%				
Ti 334.940†	1071576.4	1.03 mg/L	0.002	1.03 mg/L	0.002	0.15%
QC value within limits for Ti	334.940	Recovery = 103.48%				
Tl 190.801†	2066.9	0.540 mg/L	0.0051	0.540 mg/L	0.0051	0.95%
QC value within limits for Tl	190.801	Recovery = 107.93%				
V 290.880†	255149.6	1.04 mg/L	0.005	1.04 mg/L	0.005	0.46%
QC value within limits for V	290.880	Recovery = 104.13%				
Zn 206.200†	60391.3	1.06 mg/L	0.007	1.06 mg/L	0.007	0.65%
QC value within limits for Zn	206.200	Recovery = 106.17%				
K 766.490†	151641.5	50.4 mg/L	0.55	50.4 mg/L	0.55	1.09%
QC value within limits for K	766.490	Recovery = 100.81%				
Na 589.592†	1007487.3	50.6 mg/L	0.78	50.6 mg/L	0.78	1.53%
QC value within limits for Na	589.592	Recovery = 101.29%				
Sr 407.771†	2569168.7	0.994 mg/L	0.0333	0.994 mg/L	0.0333	3.36%
QC value within limits for Sr	407.771	Recovery = 99.38%				
Li 670.784†	154191.0	1.03 mg/L	0.012	1.03 mg/L	0.012	1.16%

Approved: July 27, 2012



QC value within limits for Li 670.784 Recovery = 102.98%
 All analyte(s) passed QC.

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Sequence No.: 44                               u\osampler Location: 1
Sample ID: CCB                               a\ne Collected: 7/26/2012 6:37:14 PM
Analyst:                                     a\ne Type: Original
Initial Sample Wt:                           nitial Sample Vol:
Dilution:                                   a\ne Sample Prep Vol:
=====
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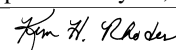
Nebulizer Parameters: CCB

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Analyte      Back Pressure      Flow
All          157.0 kPa          0.50 L/min
-----
```

Mean Data: CCB

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 371.029	2410332.3				25419.46	1.05%
YRADIAL	292296.9				2686.54	0.92%
Ga 417.206	1289158.9				27736.98	2.15%
GaRADIAL	81887.6				1955.36	2.39%
Ag 328.068†	12.5	0.00054 mg/L	0.000142	0.00054 mg/L	0.000142	26.35%
QC value within limits for Ag 328.068		Recovery = Not calculated				
Al 396.153†	18.5	0.00116 mg/L	0.001832	0.00116 mg/L	0.001832	157.67%
QC value within limits for Al 396.153		Recovery = Not calculated				
As 188.979†	0.1	-0.00141 mg/L	0.000606	-0.00141 mg/L	0.000606	43.05%
QC value within limits for As 188.979		Recovery = Not calculated				
Ba 233.527†	22.8	-0.00167 mg/L	0.000060	-0.00167 mg/L	0.000060	3.62%
QC value within limits for Ba 233.527		Recovery = Not calculated				
Be 234.861†	-40.4	0.00001 mg/L	0.000037	0.00001 mg/L	0.000037	255.50%
QC value within limits for Be 234.861		Recovery = Not calculated				
B 249.677†	227.2	0.00308 mg/L	0.000234	0.00308 mg/L	0.000234	7.61%
QC value within limits for B 249.677		Recovery = Not calculated				
Ca 227.546†	-14.1	0.0129 mg/L	0.02177	0.0129 mg/L	0.02177	168.11%
QC value within limits for Ca 227.546		Recovery = Not calculated				
Cd 228.802†	5.4	0.00009 mg/L	0.000015	0.00009 mg/L	0.000015	15.76%
QC value within limits for Cd 228.802		Recovery = Not calculated				
Co 228.616†	3.0	-0.00012 mg/L	0.000202	-0.00012 mg/L	0.000202	173.70%
QC value within limits for Co 228.616		Recovery = Not calculated				
Cr 267.716†	17.1	-0.00039 mg/L	0.000085	-0.00039 mg/L	0.000085	21.69%
QC value within limits for Cr 267.716		Recovery = Not calculated				
Cu 327.393†	140.3	0.00097 mg/L	0.000353	0.00097 mg/L	0.000353	36.37%
QC value within limits for Cu 327.393		Recovery = Not calculated				
Fe 239.562†	6.4	0.00519 mg/L	0.000486	0.00519 mg/L	0.000486	9.35%
QC value within limits for Fe 239.562		Recovery = Not calculated				
Mg 279.077†	-3.8	0.0283 mg/L	0.00379	0.0283 mg/L	0.00379	13.40%
QC value within limits for Mg 279.077		Recovery = Not calculated				
Mn 257.610†	60.8	-0.00074 mg/L	0.000017	-0.00074 mg/L	0.000017	2.25%
QC value within limits for Mn 257.610		Recovery = Not calculated				
Mo 202.031†	11.1	-0.00057 mg/L	0.000204	-0.00057 mg/L	0.000204	35.95%
QC value within limits for Mo 202.031		Recovery = Not calculated				
Ni 231.604†	15.3	-0.00277 mg/L	0.000087	-0.00277 mg/L	0.000087	3.15%
QC value within limits for Ni 231.604		Recovery = Not calculated				
Pb 220.353†	-20.0	-0.00188 mg/L	0.000473	-0.00188 mg/L	0.000473	25.15%
QC value within limits for Pb 220.353		Recovery = Not calculated				
Sb 206.836†	-1.6	0.00051 mg/L	0.000948	0.00051 mg/L	0.000948	187.46%
QC value within limits for Sb 206.836		Recovery = Not calculated				
Se 196.026†	1.6	0.00250 mg/L	0.000430	0.00250 mg/L	0.000430	17.23%
QC value within limits for Se 196.026		Recovery = Not calculated				
Si 251.611†	336.5	0.00360 mg/L	0.000524	0.00360 mg/L	0.000524	14.57%
QC value within limits for Si 251.611		Recovery = Not calculated				
Sn 189.927†	24.8	0.00055 mg/L	0.000190	0.00055 mg/L	0.000190	34.49%
QC value within limits for Sn 189.927		Recovery = Not calculated				
Ti 334.940†	235.2	0.00031 mg/L	0.000168	0.00031 mg/L	0.000168	55.07%
QC value within limits for Ti 334.940		Recovery = Not calculated				
Tl 190.801†	-9.6	-0.00481 mg/L	0.000785	-0.00481 mg/L	0.000785	16.31%
QC value within limits for Tl 190.801		Recovery = Not calculated				
V 290.880†	141.6	-0.00023 mg/L	0.000443	-0.00023 mg/L	0.000443	194.29%
QC value within limits for V 290.880		Recovery = Not calculated				
Zn 206.200†	22.4	-0.00091 mg/L	0.000144	-0.00091 mg/L	0.000144	15.77%

Approved: July 27, 2012



QC value within limits for Zn	206.200	Recovery =	Not calculated			
K 766.490†	0.5	-0.0656 mg/L	0.00120	-0.0656 mg/L	0.00120	1.83%
QC value within limits for K	766.490	Recovery =	Not calculated			
Na 589.592†	241.7	0.0139 mg/L	0.00477	0.0139 mg/L	0.00477	34.39%
QC value within limits for Na	589.592	Recovery =	Not calculated			
Sr 407.771†	309.3	-0.00031 mg/L	0.000030	-0.00031 mg/L	0.000030	9.71%
QC value within limits for Sr	407.771	Recovery =	Not calculated			
Li 670.784†	64.5	-0.00307 mg/L	0.000322	-0.00307 mg/L	0.000322	10.50%
QC value within limits for Li	670.784	Recovery =	Not calculated			

All analyte(s) passed QC.

Approved: July 27, 2012

Ann H. Rhodes

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Analysis Begun

Start Time: 7/26/2012 7:19:37 PM lbsma On Time: 7/26/2012 7:05:13 PM
 Logged In Analyst: peicp2 echnique: ICP Continuous
 Spectrometer Model: Optima 4300 DV, S/N 077N40114 Autosampler Model: Cetac

Sample Information File: C:\pe\peicp2\Sample Information\THURSDAY2.sif
 Batch ID:
 Results Data Set: 072612H2
 Results Library: C:\pe\peicp2\Results\Results.mdb

=====
 Sequence No.: 1 Autosampler Location: 6
 Sample ID: CCV Date Collected: 7/26/2012 7:19:44 PM
 Analyst: Date Type: Original
 Initial Sample Wt: Initial Sample Vol:
 Dilution: Sample Prep Vol:

Nebulizer Parameters: CCV

Analyte	Back Pressure	Flow
All	164.0 kPa	0.00 L/min

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 371.029	2368841.0				17121.54	0.72%
YRADIAL	295130.4				7489.76	2.54%
Ga 417.206	1283175.4				23389.98	1.82%
GaRADIAL	81681.9				1725.70	2.11%
Ag 328.068†	128162.3	0.414 mg/L	0.0082	0.414 mg/L	0.0082	1.98%
QC value within limits for Ag		328.068	Recovery = 103.43%			
Al 396.153†	67551.6	9.99 mg/L	0.023	9.99 mg/L	0.023	0.23%
QC value within limits for Al		396.153	Recovery = 99.87%			
As 188.979†	1419.4	0.400 mg/L	0.0090	0.400 mg/L	0.0090	2.26%
QC value within limits for As		188.979	Recovery = 100.03%			
Ba 233.527†	170018.6	1.03 mg/L	0.005	1.03 mg/L	0.005	0.50%
QC value within limits for Ba		233.527	Recovery = 102.51%			
Be 234.861†	60697.0	0.0512 mg/L	0.00121	0.0512 mg/L	0.00121	2.36%
QC value within limits for Be		234.861	Recovery = 102.44%			
B 249.677†	55066.5	0.504 mg/L	0.0108	0.504 mg/L	0.0108	2.14%
QC value within limits for B		249.677	Recovery = 100.74%			
Ca 227.546†	4462.3	10.5 mg/L	0.26	10.5 mg/L	0.26	2.50%
QC value within limits for Ca		227.546	Recovery = 104.94%			
Cd 228.802†	2836.5	0.0511 mg/L	0.00179	0.0511 mg/L	0.00179	3.50%
QC value within limits for Cd		228.802	Recovery = 102.17%			
Co 228.616†	8894.4	0.203 mg/L	0.0018	0.203 mg/L	0.0018	0.88%
QC value within limits for Co		228.616	Recovery = 101.41%			
Cr 267.716†	63493.6	0.515 mg/L	0.0046	0.515 mg/L	0.0046	0.89%
QC value within limits for Cr		267.716	Recovery = 103.01%			
Cu 327.393†	128586.0	0.509 mg/L	0.0096	0.509 mg/L	0.0096	1.88%
QC value within limits for Cu		327.393	Recovery = 101.86%			
Fe 239.562†	59714.7	4.09 mg/L	0.051	4.09 mg/L	0.051	1.26%
QC value within limits for Fe		239.562	Recovery = 102.13%			
Mg 279.077†	33829.9	10.2 mg/L	0.12	10.2 mg/L	0.12	1.21%
QC value within limits for Mg		279.077	Recovery = 101.93%			
Mn 257.610†	411143.2	0.509 mg/L	0.0018	0.509 mg/L	0.0018	0.35%
QC value within limits for Mn		257.610	Recovery = 101.82%			
Mo 202.031†	37721.4	1.02 mg/L	0.006	1.02 mg/L	0.006	0.58%
QC value within limits for Mo		202.031	Recovery = 101.73%			
Ni 231.604†	36095.9	0.522 mg/L	0.0043	0.522 mg/L	0.0043	0.82%
QC value within limits for Ni		231.604	Recovery = 104.42%			
Pb 220.353†	6956.8	0.512 mg/L	0.0038	0.512 mg/L	0.0038	0.74%
QC value within limits for Pb		220.353	Recovery = 102.44%			
Sb 206.836†	5664.8	1.22 mg/L	0.030	1.22 mg/L	0.030	2.48%
QC value within limits for Sb		206.836	Recovery = 101.49%			
Se 196.026†	829.2	0.409 mg/L	0.0089	0.409 mg/L	0.0089	2.18%
QC value within limits for Se		196.026	Recovery = 102.15%			
Si 251.611†	257220.4	5.07 mg/L	0.088	5.07 mg/L	0.088	1.74%

Approved: July 27, 2012

Ann H. Rhodes

QC value within limits for Si	251.611	Recovery = 101.45%				
Sn 189.927†	12509.4	1.02 mg/L	0.007	1.02 mg/L	0.007	0.64%
QC value within limits for Sn	189.927	Recovery = 102.09%				
Ti 334.940†	1046121.0	1.01 mg/L	0.003	1.01 mg/L	0.003	0.29%
QC value within limits for Ti	334.940	Recovery = 101.02%				
Tl 190.801†	2041.2	0.533 mg/L	0.0049	0.533 mg/L	0.0049	0.92%
QC value within limits for Tl	190.801	Recovery = 106.55%				
V 290.880†	249976.6	1.02 mg/L	0.006	1.02 mg/L	0.006	0.55%
QC value within limits for V	290.880	Recovery = 102.02%				
Zn 206.200†	59288.6	1.04 mg/L	0.006	1.04 mg/L	0.006	0.62%
QC value within limits for Zn	206.200	Recovery = 104.23%				
K 766.490†	148526.2	49.4 mg/L	0.33	49.4 mg/L	0.33	0.67%
QC value within limits for K	766.490	Recovery = 98.73%				
Na 589.592†	1003289.2	50.4 mg/L	1.42	50.4 mg/L	1.42	2.81%
QC value within limits for Na	589.592	Recovery = 100.86%				
Sr 407.771†	2513764.2	0.972 mg/L	0.0314	0.972 mg/L	0.0314	3.23%
QC value within limits for Sr	407.771	Recovery = 97.23%				
Li 670.784†	149571.8	0.999 mg/L	0.0120	0.999 mg/L	0.0120	1.21%
QC value within limits for Li	670.784	Recovery = 99.88%				

All analyte(s) passed QC.

Sequence No.: 2

Sample ID: CCB

Analyst:

Initial Sample Wt:

Dilution:

u\osampler Location: 1

a\ne Collected: 7/26/2012 7:25:55 PM

a\nd Type: Original

n\ntial Sample Vol:

a\ngle Prep Vol:

Nebulizer Parameters: CCB

Analyte	Back Pressure	Flow
All	164.0 kPa	0.00 L/min

Mean Data: CCB

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 371.029	2442792.9				28400.80	1.16%
YRADIAL	294969.7				5805.66	1.97%
Ga 417.206	1303923.9				8899.86	0.68%
GaRADIAL	82571.8				1425.10	1.73%
Ag 328.068†	2.0	0.00051 mg/L	0.000071	0.00051 mg/L	0.000071	14.06%
QC value within limits for Ag	328.068	Recovery = Not calculated				
Al 396.153†	20.1	0.00139 mg/L	0.002098	0.00139 mg/L	0.002098	151.24%
QC value within limits for Al	396.153	Recovery = Not calculated				
As 188.979†	3.2	-0.00052 mg/L	0.000796	-0.00052 mg/L	0.000796	152.73%
QC value within limits for As	188.979	Recovery = Not calculated				
Ba 233.527†	43.1	-0.00155 mg/L	0.000055	-0.00155 mg/L	0.000055	3.54%
QC value within limits for Ba	233.527	Recovery = Not calculated				
Be 234.861†	-28.8	0.00002 mg/L	0.000012	0.00002 mg/L	0.000012	50.61%
QC value within limits for Be	234.861	Recovery = Not calculated				
B 249.677†	204.8	0.00287 mg/L	0.000286	0.00287 mg/L	0.000286	9.97%
QC value within limits for B	249.677	Recovery = Not calculated				
Ca 227.546†	-4.8	0.0338 mg/L	0.01098	0.0338 mg/L	0.01098	32.52%
QC value within limits for Ca	227.546	Recovery = Not calculated				
Cd 228.802†	9.3	0.00016 mg/L	0.000085	0.00016 mg/L	0.000085	52.73%
QC value within limits for Cd	228.802	Recovery = Not calculated				
Co 228.616†	0.2	-0.00018 mg/L	0.000129	-0.00018 mg/L	0.000129	70.97%
QC value within limits for Co	228.616	Recovery = Not calculated				
Cr 267.716†	18.5	-0.00038 mg/L	0.000086	-0.00038 mg/L	0.000086	22.54%
QC value within limits for Cr	267.716	Recovery = Not calculated				
Cu 327.393†	163.9	0.00106 mg/L	0.000373	0.00106 mg/L	0.000373	35.10%
QC value within limits for Cu	327.393	Recovery = Not calculated				
Fe 239.562†	14.6	0.00576 mg/L	0.000415	0.00576 mg/L	0.000415	7.21%
QC value within limits for Fe	239.562	Recovery = Not calculated				
Mg 279.077†	-1.7	0.0289 mg/L	0.00309	0.0289 mg/L	0.00309	10.69%
QC value within limits for Mg	279.077	Recovery = Not calculated				
Mn 257.610†	98.8	-0.00069 mg/L	0.000009	-0.00069 mg/L	0.000009	1.37%
QC value within limits for Mn	257.610	Recovery = Not calculated				
Mo 202.031†	17.2	-0.00040 mg/L	0.000056	-0.00040 mg/L	0.000056	13.99%
QC value within limits for Mo	202.031	Recovery = Not calculated				
Ni 231.604†	11.5	-0.00282 mg/L	0.000145	-0.00282 mg/L	0.000145	5.14%

Approved: July 27, 2012

Tom H. Rhodes

QC value within limits for Ni 231.604 Recovery = Not calculated
Pb 220.353† -21.5 -0.00199 mg/L 0.000403 -0.00199 mg/L 0.000403 20.23%
QC value within limits for Pb 220.353 Recovery = Not calculated
Sb 206.836† 1.8 0.00124 mg/L 0.001064 0.00124 mg/L 0.001064 86.08%
QC value within limits for Sb 206.836 Recovery = Not calculated
Se 196.026† -7.5 -0.00196 mg/L 0.003907 -0.00196 mg/L 0.003907 199.33%
QC value within limits for Se 196.026 Recovery = Not calculated
Si 251.611† 857.5 0.0139 mg/L 0.02190 0.0139 mg/L 0.02190 157.58%
QC value within limits for Si 251.611 Recovery = Not calculated
Sn 189.927† 15.3 -0.00022 mg/L 0.000392 -0.00022 mg/L 0.000392 177.75%
QC value within limits for Sn 189.927 Recovery = Not calculated
Ti 334.940† 223.9 0.00030 mg/L 0.000089 0.00030 mg/L 0.000089 29.79%
QC value within limits for Ti 334.940 Recovery = Not calculated
Tl 190.801† -1.4 -0.00271 mg/L 0.002854 -0.00271 mg/L 0.002854 105.20%
QC value within limits for Tl 190.801 Recovery = Not calculated
V 290.880† 264.5 0.00027 mg/L 0.000797 0.00027 mg/L 0.000797 290.64%
QC value within limits for V 290.880 Recovery = Not calculated
Zn 206.200† 20.3 -0.00095 mg/L 0.000175 -0.00095 mg/L 0.000175 18.38%
QC value within limits for Zn 206.200 Recovery = Not calculated
K 766.490† 15.0 -0.0607 mg/L 0.03770 -0.0607 mg/L 0.03770 62.07%
QC value within limits for K 766.490 Recovery = Not calculated
Na 589.592† 276.3 0.0156 mg/L 0.00277 0.0156 mg/L 0.00277 17.80%
QC value within limits for Na 589.592 Recovery = Not calculated
Sr 407.771† 493.4 -0.00024 mg/L 0.000020 -0.00024 mg/L 0.000020 8.66%
QC value within limits for Sr 407.771 Recovery = Not calculated
Li 670.784† 36.2 -0.00326 mg/L 0.000662 -0.00326 mg/L 0.000662 20.32%
QC value within limits for Li 670.784 Recovery = Not calculated
All analyte(s) passed QC.

Sequence No.: 3

Sample ID: PBW 01 WG404522-03

Analyst: KHR

Initial Sample Wt:

Dilution:

Sampler Location: 71

Date Collected: 7/26/2012 7:33:00 PM

Sample Type: Original

Initial Sample Vol:

Sample Prep Vol:

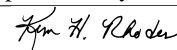
Nebulizer Parameters: PBW 01 WG404522-03

Analyte	Back Pressure	Flow
All	164.0 kPa	0.00 L/min

Mean Data: PBW 01 WG404522-03

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc. Units	Sample Std.Dev.	RSD
Y 371.029	2463090.2					9173.84	0.37%
YRADIAL	299056.0					7898.91	2.64%
Ga 417.206	1362309.9					10674.14	0.78%
GaRADIAL	84992.5					770.67	0.91%
Ag 328.068†	-147.5	0.00003 mg/L		0.000215	0.00003 mg/L	0.000215	705.11%
Al 396.153†	-86.3	-0.0144 mg/L		0.00244	-0.0144 mg/L	0.00244	16.90%
As 188.979†	5.2	0.00005 mg/L		0.000708	0.00005 mg/L	0.000708	>999.9%
Ba 233.527†	49.7	-0.00151 mg/L		0.000084	-0.00151 mg/L	0.000084	5.59%
Be 234.861†	95.0	0.00013 mg/L		0.000013	0.00013 mg/L	0.000013	10.14%
B 249.677†	-66.7	0.00037 mg/L		0.000123	0.00037 mg/L	0.000123	32.98%
Ca 227.546†	-17.8	0.00496 mg/L		0.029582	0.00496 mg/L	0.029582	596.18%
Cd 228.802†	6.5	0.00011 mg/L		0.000116	0.00011 mg/L	0.000116	109.25%
Co 228.616†	4.3	-0.00009 mg/L		0.000142	-0.00009 mg/L	0.000142	162.38%
Cr 267.716†	18.6	-0.00038 mg/L		0.000032	-0.00038 mg/L	0.000032	8.44%
Cu 327.393†	120.1	0.00089 mg/L		0.000131	0.00089 mg/L	0.000131	14.67%
Fe 239.562†	31.3	0.00690 mg/L		0.000448	0.00690 mg/L	0.000448	6.50%
Mg 279.077†	-17.0	0.0243 mg/L		0.00319	0.0243 mg/L	0.00319	13.12%
Mn 257.610†	75.5	-0.00072 mg/L		0.000008	-0.00072 mg/L	0.000008	1.13%
Mo 202.031†	-2.5	-0.00093 mg/L		0.000344	-0.00093 mg/L	0.000344	36.90%
Ni 231.604†	38.1	-0.00244 mg/L		0.000115	-0.00244 mg/L	0.000115	4.73%
Pb 220.353†	-13.8	-0.00143 mg/L		0.000810	-0.00143 mg/L	0.000810	56.80%
Sb 206.836†	-0.8	0.00067 mg/L		0.001073	0.00067 mg/L	0.001073	159.70%
Se 196.026†	-2.6	0.00043 mg/L		0.001603	0.00043 mg/L	0.001603	370.71%
Si 251.611†	352.4	0.00392 mg/L		0.000491	0.00392 mg/L	0.000491	12.53%
Sn 189.927†	12.5	-0.00045 mg/L		0.000180	-0.00045 mg/L	0.000180	40.32%
Ti 334.940†	134.5	0.00021 mg/L		0.000169	0.00021 mg/L	0.000169	81.63%
Tl 190.801†	-1.8	-0.00282 mg/L		0.000342	-0.00282 mg/L	0.000342	12.12%

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V 290.880†	241.5	0.00018 mg/L	0.001534	0.00018 mg/L	0.001534	852.05%
Zn 206.200†	226.6	0.00266 mg/L	0.000113	0.00266 mg/L	0.000113	4.23%
K 766.490†	-21.9	-0.0730 mg/L	0.01955	-0.0730 mg/L	0.01955	26.77%
Na 589.592†	126.8	0.00824 mg/L	0.002793	0.00824 mg/L	0.002793	33.88%
Sr 407.771†	-235.6	-0.00052 mg/L	0.000069	-0.00052 mg/L	0.000069	13.30%
Li 670.784†	32.0	-0.00329 mg/L	0.000214	-0.00329 mg/L	0.000214	6.52%

Sequence No.: 4

Sample ID: LCSW 01 WG404522-04

Analyst: KHR

Initial Sample Wt:

Dilution:

u&osampler Location: 72

a&e Collected: 7/26/2012 7:40:07 PM

a&a Type: Original

n&itial Sample Vol:

a&mple Prep Vol:

Nebulizer Parameters: LCSW 01 WG404522-04

Analyte	Back Pressure	Flow
All	164.0 kPa	0.00 L/min

Mean Data: LCSW 01 WG404522-04

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Conc. Units	Sample	Std.Dev.	RSD
Y 371.029	2392209.5						14447.49	0.60%
YRADIAL	295216.8						6186.42	2.10%
Ga 417.206	1329001.0						30398.05	2.29%
GaRADIAL	82873.2						913.38	1.10%
Ag 328.068†	64586.1	0.209 mg/L	0.0060	0.0060	0.209 mg/L	0.0060	0.0060	2.87%
Al 396.153†	33545.4	4.96 mg/L	0.009	0.009	4.96 mg/L	0.009	0.009	0.19%
As 188.979†	695.2	0.195 mg/L	0.0037	0.0037	0.195 mg/L	0.0037	0.0037	1.91%
Ba 233.527†	86346.5	0.520 mg/L	0.0013	0.0013	0.520 mg/L	0.0013	0.0013	0.24%
Be 234.861†	29550.9	0.0250 mg/L	0.00056	0.00056	0.0250 mg/L	0.00056	0.00056	2.25%
B 249.677†	107427.2	0.987 mg/L	0.0295	0.0295	0.987 mg/L	0.0295	0.0295	2.98%
Ca 227.546†	2174.7	5.14 mg/L	0.145	0.145	5.14 mg/L	0.145	0.145	2.81%
Cd 228.802†	1387.5	0.0250 mg/L	0.00112	0.00112	0.0250 mg/L	0.00112	0.00112	4.47%
Co 228.616†	4537.1	0.103 mg/L	0.0006	0.0006	0.103 mg/L	0.0006	0.0006	0.60%
Cr 267.716†	31877.5	0.258 mg/L	0.0021	0.0021	0.258 mg/L	0.0021	0.0021	0.83%
Cu 327.393†	64262.6	0.255 mg/L	0.0068	0.0068	0.255 mg/L	0.0068	0.0068	2.69%
Fe 239.562†	29194.3	2.00 mg/L	0.016	0.016	2.00 mg/L	0.016	0.016	0.79%
Mg 279.077†	17013.1	5.14 mg/L	0.074	0.074	5.14 mg/L	0.074	0.074	1.43%
Mn 257.610†	209997.3	0.260 mg/L	0.0020	0.0020	0.260 mg/L	0.0020	0.0020	0.76%
Mo 202.031†	18887.8	0.509 mg/L	0.0042	0.0042	0.509 mg/L	0.0042	0.0042	0.82%
Ni 231.604†	17953.3	0.258 mg/L	0.0009	0.0009	0.258 mg/L	0.0009	0.0009	0.35%
Pb 220.353†	3558.4	0.262 mg/L	0.0021	0.0021	0.262 mg/L	0.0021	0.0021	0.82%
Sb 206.836†	2782.2	0.599 mg/L	0.0177	0.0177	0.599 mg/L	0.0177	0.0177	2.96%
Se 196.026†	412.3	0.204 mg/L	0.0049	0.0049	0.204 mg/L	0.0049	0.0049	2.41%
Si 251.611†	132051.4	2.60 mg/L	0.062	0.062	2.60 mg/L	0.062	0.062	2.36%
Sn 189.927†	6539.4	0.533 mg/L	0.0032	0.0032	0.533 mg/L	0.0032	0.0032	0.60%
Ti 334.940†	524331.6	0.506 mg/L	0.0042	0.0042	0.506 mg/L	0.0042	0.0042	0.83%
Tl 190.801†	1046.9	0.272 mg/L	0.0034	0.0034	0.272 mg/L	0.0034	0.0034	1.25%
V 290.880†	127441.0	0.520 mg/L	0.0025	0.0025	0.520 mg/L	0.0025	0.0025	0.49%
Zn 206.200†	30206.6	0.530 mg/L	0.0065	0.0065	0.530 mg/L	0.0065	0.0065	1.23%
K 766.490†	74618.6	24.8 mg/L	0.04	0.04	24.8 mg/L	0.04	0.04	0.18%
Na 589.592†	506869.8	25.2 mg/L	0.38	0.38	25.2 mg/L	0.38	0.38	1.53%
Sr 407.771†	1269619.2	0.491 mg/L	0.0151	0.0151	0.491 mg/L	0.0151	0.0151	3.07%
Li 670.784†	76038.7	0.506 mg/L	0.0018	0.0018	0.506 mg/L	0.0018	0.0018	0.35%

Sequence No.: 5

Sample ID: L1207075301

Analyst: KHR

Initial Sample Wt:

Dilution:

u&osampler Location: 73

a&e Collected: 7/26/2012 7:46:17 PM

a&a Type: Original

n&itial Sample Vol:

a&mple Prep Vol:

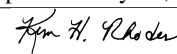
Nebulizer Parameters: L1207075301

Analyte	Back Pressure	Flow
All	164.0 kPa	0.00 L/min

Mean Data: L1207075301

Mean Corrected	Calib.	Sample
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Approved: July 27, 2012



Analyte	Intensity	Conc. Units	Std.Dev.	Conc. Units	Std.Dev.	RSD
Y 371.029	2397757.9				27153.70	1.13%
YRADIAL	291137.1				5482.62	1.88%
Ga 417.206	1391364.0				22157.72	1.59%
GaRADIAL	85615.2				537.26	0.63%
Ag 328.068†	418.8	0.00182 mg/L	0.000515	0.00182 mg/L	0.000515	28.27%
Al 396.153†	-78.0	-0.0133 mg/L	0.00110	-0.0133 mg/L	0.00110	8.28%
As 188.979†	1.0	-0.00113 mg/L	0.001065	-0.00113 mg/L	0.001065	94.23%
Ba 233.527†	5223.4	0.0297 mg/L	0.00033	0.0297 mg/L	0.00033	1.12%
Be 234.861†	177.7	0.00019 mg/L	0.000038	0.00019 mg/L	0.000038	20.07%
B 249.677†	2463.6	0.0236 mg/L	0.00049	0.0236 mg/L	0.00049	2.06%
Ca 227.546†	16443.0	36.8 mg/L	1.06	36.8 mg/L	1.06	2.89%
Cd 228.802†	2.8	0.00004 mg/L	0.000140	0.00004 mg/L	0.000140	322.01%
Co 228.616†	-12.5	-0.00047 mg/L	0.000044	-0.00047 mg/L	0.000044	9.53%
Cr 267.716†	215.3	0.00121 mg/L	0.000126	0.00121 mg/L	0.000126	10.34%
Cu 327.393†	124.4	0.00090 mg/L	0.000345	0.00090 mg/L	0.000345	38.23%
Fe 239.562†	817.6	0.0606 mg/L	0.00138	0.0606 mg/L	0.00138	2.28%
Mg 279.077†	13366.8	4.04 mg/L	0.062	4.04 mg/L	0.062	1.53%
Mn 257.610†	5991.0	0.00661 mg/L	0.000087	0.00661 mg/L	0.000087	1.32%
Mo 202.031†	56.1	0.00065 mg/L	0.000265	0.00065 mg/L	0.000265	40.61%
Ni 231.604†	71.5	-0.00195 mg/L	0.000237	-0.00195 mg/L	0.000237	12.14%
Pb 220.353†	7.4	0.00042 mg/L	0.001296	0.00042 mg/L	0.001296	310.85%
Sb 206.836†	-3.8	0.00003 mg/L	0.000535	0.00003 mg/L	0.000535	>999.9%
Se 196.026†	1.4	0.00242 mg/L	0.002335	0.00242 mg/L	0.002335	96.40%
Si 251.611†	685380.4	13.6 mg/L	0.16	13.6 mg/L	0.16	1.19%
Sr 189.927†	-225.6	-0.0199 mg/L	0.00062	-0.0199 mg/L	0.00062	3.13%
Ti 334.940†	-6370.3	-0.00055 mg/L	0.000222	-0.00055 mg/L	0.000222	40.40%
Tl 190.801†	-17.4	-0.00686 mg/L	0.002811	-0.00686 mg/L	0.002811	40.95%
V 290.880†	527.0	0.00124 mg/L	0.001251	0.00124 mg/L	0.001251	100.99%
Zn 206.200†	130.3	0.00099 mg/L	0.000100	0.00099 mg/L	0.000100	10.13%
K 766.490†	5352.9	1.71 mg/L	0.032	1.71 mg/L	0.032	1.87%
Na 589.592†	215291.4	10.6 mg/L	0.15	10.6 mg/L	0.15	1.45%
Sr 407.771†	538829.8	0.207 mg/L	0.0056	0.207 mg/L	0.0056	2.69%
Li 670.784†	1085.1	0.00377 mg/L	0.000184	0.00377 mg/L	0.000184	4.87%

Sequence No.: 6

Sample ID: L1207075302

Analyst: KHR

Initial Sample Wt:

Dilution:

u&osampler Location: 74

a&e Collected: 7/26/2012 7:53:31 PM

a&a Type: Original

nitial Sample Vol:

a&ple Prep Vol:

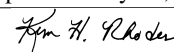
Nebulizer Parameters: L1207075302

Analyte	Back Pressure	Flow
All	164.0 kPa	0.00 L/min

Mean Data: L1207075302

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Conc. Units	Sample Std.Dev.	RSD
Y 371.029	2468780.9					28924.88	1.17%
YRADIAL	297013.6					4319.75	1.45%
Ga 417.206	1406296.1					12347.87	0.88%
GaRADIAL	86156.5					1921.10	2.23%
Ag 328.068†	153.4	0.00102 mg/L	0.000174	0.00102 mg/L	0.000174	17.09%	
Al 396.153†	2808.7	0.417 mg/L	0.0056	0.417 mg/L	0.0056	1.33%	
As 188.979†	6.8	0.00051 mg/L	0.001281	0.00051 mg/L	0.001281	252.58%	
Ba 233.527†	25499.0	0.152 mg/L	0.0014	0.152 mg/L	0.0014	0.94%	
Be 234.861†	1014.2	0.00089 mg/L	0.000007	0.00089 mg/L	0.000007	0.79%	
B 249.677†	3592.4	0.0340 mg/L	0.00032	0.0340 mg/L	0.00032	0.93%	
Ca 227.546†	3213.3	7.23 mg/L	0.087	7.23 mg/L	0.087	1.20%	
Cd 228.802†	8.4	0.00014 mg/L	0.000026	0.00014 mg/L	0.000026	18.33%	
Co 228.616†	16.7	0.00013 mg/L	0.000121	0.00013 mg/L	0.000121	92.59%	
Cr 267.716†	80.9	0.00013 mg/L	0.000027	0.00013 mg/L	0.000027	21.10%	
Cu 327.393†	558.9	0.00263 mg/L	0.000381	0.00263 mg/L	0.000381	14.48%	
Fe 239.562†	1346.3	0.0967 mg/L	0.00044	0.0967 mg/L	0.00044	0.45%	
Mg 279.077†	6929.5	2.11 mg/L	0.022	2.11 mg/L	0.022	1.03%	
Mn 257.610†	29522.3	0.0358 mg/L	0.00030	0.0358 mg/L	0.00030	0.84%	
Mo 202.031†	11.7	-0.00054 mg/L	0.000030	-0.00054 mg/L	0.000030	5.48%	
Ni 231.604†	306.3	0.00147 mg/L	0.000275	0.00147 mg/L	0.000275	18.76%	
Pb 220.353†	1.0	-0.00025 mg/L	0.001207	-0.00025 mg/L	0.001207	484.99%	

Approved: July 27, 2012



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Sb 206.836†	-3.1	0.00020	mg/L	0.000246	0.00020	mg/L	0.000246	124.75%
Se 196.026†	-0.5	0.00152	mg/L	0.001542	0.00152	mg/L	0.001542	101.61%
Si 251.611†	274305.2	5.42	mg/L	0.036	5.42	mg/L	0.036	0.67%
Sn 189.927†	-75.8	-0.00767	mg/L	0.000346	-0.00767	mg/L	0.000346	4.52%
Ti 334.940†	5368.7	0.00634	mg/L	0.000463	0.00634	mg/L	0.000463	7.30%
Tl 190.801†	-4.8	-0.00355	mg/L	0.002735	-0.00355	mg/L	0.002735	77.05%
V 290.880†	580.3	0.00150	mg/L	0.000801	0.00150	mg/L	0.000801	53.42%
Zn 206.200†	315.9	0.00423	mg/L	0.000192	0.00423	mg/L	0.000192	4.54%
K 766.490†	4465.7	1.41	mg/L	0.012	1.41	mg/L	0.012	0.86%
Na 589.592†	202059.3	9.97	mg/L	0.224	9.97	mg/L	0.224	2.25%
Sr 407.771†	131467.4	0.0503	mg/L	0.00195	0.0503	mg/L	0.00195	3.89%
Li 670.784†	404.8	-0.00079	mg/L	0.000194	-0.00079	mg/L	0.000194	24.56%

Sequence No.: 7
 Sample ID: L1207075303
 Analyst: KHR
 Initial Sample Wt:
 Dilution:

u@sampler Location: 75
 a@e Collected: 7/26/2012 8:00:38 PM
 a@a Type: Original
 n@tial Sample Vol:
 a@mple Prep Vol:

Nebulizer Parameters: L1207075303

Analyte	Back Pressure	Flow
All	164.0 kPa	0.00 L/min

Mean Data: L1207075303

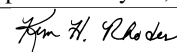
Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	2433267.3						10589.58	0.44%
YRADIAL	291512.1						4438.24	1.52%
Ga 417.206	1400823.6						40491.26	2.89%
GaRADIAL	82618.4						977.43	1.18%
Ag 328.068†	271.8	0.00167	mg/L	0.000750	0.00167	mg/L	0.000750	44.80%
Al 396.153†	1386.0	0.205	mg/L	0.0127	0.205	mg/L	0.0127	6.19%
As 188.979†	33.0	0.00819	mg/L	0.000712	0.00819	mg/L	0.000712	8.69%
Ba 233.527†	2998.8	0.0163	mg/L	0.00031	0.0163	mg/L	0.00031	1.90%
Be 234.861†	563.4	0.00035	mg/L	0.000062	0.00035	mg/L	0.000062	17.69%
B 249.677†	2792.8	0.0263	mg/L	0.00099	0.0263	mg/L	0.00099	3.77%
Ca 227.546†	18798.0	42.1	mg/L	1.39	42.1	mg/L	1.39	3.30%
Cd 228.802†	12.5	0.00018	mg/L	0.000065	0.00018	mg/L	0.000065	36.47%
Co 228.616†	6.5	-0.00006	mg/L	0.000171	-0.00006	mg/L	0.000171	300.79%
Cr 267.716†	159.6	0.00074	mg/L	0.000057	0.00074	mg/L	0.000057	7.68%
Cu 327.393†	310.6	0.00168	mg/L	0.000298	0.00168	mg/L	0.000298	17.67%
Fe 239.562†	11583.3	0.796	mg/L	0.0157	0.796	mg/L	0.0157	1.98%
Mg 279.077†	9906.9	3.00	mg/L	0.071	3.00	mg/L	0.071	2.35%
Mn 257.610†	42014.9	0.0512	mg/L	0.00079	0.0512	mg/L	0.00079	1.53%
Mo 202.031†	84.3	0.00146	mg/L	0.000266	0.00146	mg/L	0.000266	18.17%
Ni 231.604†	182.2	-0.00034	mg/L	0.000536	-0.00034	mg/L	0.000536	158.72%
Pb 220.353†	-2.9	-0.00035	mg/L	0.000335	-0.00035	mg/L	0.000335	95.25%
Sb 206.836†	-7.1	-0.00063	mg/L	0.000475	-0.00063	mg/L	0.000475	75.69%
Se 196.026†	-4.3	-0.00023	mg/L	0.002492	-0.00023	mg/L	0.002492	>999.9%
Si 251.611†	290538.0	5.74	mg/L	0.146	5.74	mg/L	0.146	2.54%
Sn 189.927†	-229.8	-0.0203	mg/L	0.00095	-0.0203	mg/L	0.00095	4.71%
Ti 334.940†	-1689.7	0.00475	mg/L	0.001136	0.00475	mg/L	0.001136	23.89%
Tl 190.801†	-18.2	-0.00705	mg/L	0.001193	-0.00705	mg/L	0.001193	16.93%
V 290.880†	3048.2	0.0115	mg/L	0.00184	0.0115	mg/L	0.00184	15.93%
Zn 206.200†	479.9	0.00710	mg/L	0.000072	0.00710	mg/L	0.000072	1.02%
K 766.490†	11224.0	3.67	mg/L	0.043	3.67	mg/L	0.043	1.17%
Na 589.592†	139894.6	6.89	mg/L	0.163	6.89	mg/L	0.163	2.37%
Sr 407.771†	511927.7	0.197	mg/L	0.0022	0.197	mg/L	0.0022	1.14%
Li 670.784†	461.1	-0.00041	mg/L	0.000936	-0.00041	mg/L	0.000936	226.58%

Sequence No.: 8
 Sample ID: L1207075304
 Analyst: KHR
 Initial Sample Wt:
 Dilution:

u@sampler Location: 76
 a@e Collected: 7/26/2012 8:06:48 PM
 a@a Type: Original
 n@tial Sample Vol:
 a@mple Prep Vol:

Nebulizer Parameters: L1207075304

Approved: July 27, 2012



Analyte Back Pressure Flow
All 164.0 kPa 0.00 L/min

Mean Data: L1207075304

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc. Units	Sample Std.Dev.	RSD
Y 371.029	2413652.9					26772.75	1.11%
YRADIAL	292121.1					1734.53	0.59%
Ga 417.206	1371472.0					15838.67	1.15%
GaRADIAL	84867.5					1159.71	1.37%
Ag 328.068†	-163.0	0.00160	mg/L	0.000563	0.00160	0.000563	35.16%
Al 396.153†	156.7	0.0222	mg/L	0.00381	0.0222	0.00381	17.15%
As 188.979†	-2.8	-0.00125	mg/L	0.000748	-0.00125	0.000748	60.03%
Ba 233.527†	7531.9	0.0434	mg/L	0.00025	0.0434	0.00025	0.58%
Be 234.861†	1356.6	0.00028	mg/L	0.000054	0.00028	0.000054	19.43%
B 249.677†	2021.7	0.0179	mg/L	0.00027	0.0179	0.00027	1.53%
Ca 227.546†	13900.6	31.2	mg/L	0.40	31.2	0.40	1.29%
Cd 228.802†	16.0	0.00029	mg/L	0.000109	0.00029	0.000109	37.72%
Co 228.616†	5.9	-0.00016	mg/L	0.000205	-0.00016	0.000205	127.52%
Cr 267.716†	77.4	-0.00005	mg/L	0.000140	-0.00005	0.000140	287.13%
Cu 327.393†	245.4	0.00158	mg/L	0.000664	0.00158	0.000664	42.08%
Fe 239.562†	59057.5	4.04	mg/L	0.029	4.04	0.029	0.72%
Mg 279.077†	9728.1	2.95	mg/L	0.032	2.95	0.032	1.09%
Mn 257.610†	96297.2	0.119	mg/L	0.0008	0.119	0.0008	0.71%
Mo 202.031†	20.5	-0.00009	mg/L	0.000048	-0.00009	0.000048	53.32%
Ni 231.604†	80.6	-0.00182	mg/L	0.000399	-0.00182	0.000399	21.96%
Pb 220.353†	-0.2	-0.00060	mg/L	0.000734	-0.00060	0.000734	122.48%
Sb 206.836†	-4.7	-0.00002	mg/L	0.001206	-0.00002	0.001206	>999.9%
Se 196.026†	-5.7	-0.00046	mg/L	0.004594	-0.00046	0.004594	993.36%
Si 251.611†	575120.9	11.4	mg/L	0.11	11.4	0.11	0.94%
Sn 189.927†	-204.5	-0.0182	mg/L	0.00067	-0.0182	0.00067	3.66%
Ti 334.940†	-4204.9	0.00069	mg/L	0.000404	0.00069	0.000404	58.85%
Tl 190.801†	-19.5	-0.00748	mg/L	0.002977	-0.00748	0.002977	39.80%
V 290.880†	1144.3	0.00357	mg/L	0.000467	0.00357	0.000467	13.08%
Zn 206.200†	219.1	0.00246	mg/L	0.000186	0.00246	0.000186	7.56%
K 766.490†	7391.3	2.39	mg/L	0.006	2.39	0.006	0.25%
Na 589.592†	174864.8	8.62	mg/L	0.086	8.62	0.086	0.99%
Sr 407.771†	450539.4	0.173	mg/L	0.0029	0.173	0.0029	1.70%
Li 670.784†	370.8	-0.00102	mg/L	0.000191	-0.00102	0.000191	18.80%

Sequence No.: 9
Sample ID: L1207075305
Analyst: KHR
Initial Sample Wt:
Dilution:

u&osampler Location: 77
a&e Collected: 7/26/2012 8:12:58 PM
a&a Type: Original
n&itial Sample Vol:
a∓le Prep Vol:

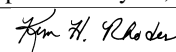
Nebulizer Parameters: L1207075305

Analyte Back Pressure Flow
All 164.0 kPa 0.00 L/min

Mean Data: L1207075305

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc. Units	Sample Std.Dev.	RSD
Y 371.029	2449008.4					21210.83	0.87%
YRADIAL	299416.9					1723.02	0.58%
Ga 417.206	1376979.5					25919.94	1.88%
GaRADIAL	83438.0					641.87	0.77%
Ag 328.068†	-3275.3	-0.00023	mg/L	0.000513	-0.00023	0.000513	224.02%
Al 396.153†	514.2	0.0778	mg/L	0.01151	0.0778	0.01151	14.79%
As 188.979†	14.1	0.00834	mg/L	0.003022	0.00834	0.003022	36.25%
Ba 233.527†	26349.9	0.156	mg/L	0.0023	0.156	0.0023	1.50%
Be 234.861†	7537.5	0.00094	mg/L	0.000130	0.00094	0.000130	13.82%
B 249.677†	2050.9	0.00960	mg/L	0.000512	0.00960	0.000512	5.33%
Ca 227.546†	7555.6	17.5	mg/L	0.48	17.5	0.48	2.76%
Cd 228.802†	14.1	0.00021	mg/L	0.000058	0.00021	0.000058	27.18%
Co 228.616†	83.4	0.00105	mg/L	0.000125	0.00105	0.000125	11.93%
Cr 267.716†	207.8	0.00029	mg/L	0.000111	0.00029	0.000111	38.60%
Cu 327.393†	-112.1	0.00114	mg/L	0.000345	0.00114	0.000345	30.28%

Approved: July 27, 2012



Fe 239.562†	348616.3	23.8 mg/L	0.17	23.8 mg/L	0.17	0.72%
Mg 279.077†	21842.4	6.57 mg/L	0.019	6.57 mg/L	0.019	0.30%
Mn 257.610†	225738.5	0.279 mg/L	0.0053	0.279 mg/L	0.0053	1.92%
Mo 202.031†	-12.0	0.00004 mg/L	0.000149	0.00004 mg/L	0.000149	395.23%
Ni 231.604†	215.0	0.00014 mg/L	0.000337	0.00014 mg/L	0.000337	245.75%
Pb 220.353†	20.2	-0.00101 mg/L	0.001353	-0.00101 mg/L	0.001353	133.44%
Sb 206.836†	-5.6	0.00051 mg/L	0.000665	0.00051 mg/L	0.000665	130.53%
Se 196.026†	-17.0	-0.00290 mg/L	0.002002	-0.00290 mg/L	0.002002	69.10%
Si 251.611†	565356.5	11.2 mg/L	0.10	11.2 mg/L	0.10	0.88%
Sn 189.927†	-151.4	-0.0138 mg/L	0.00068	-0.0138 mg/L	0.00068	4.89%
Ti 334.940†	-402.2	0.00223 mg/L	0.000359	0.00223 mg/L	0.000359	16.10%
Tl 190.801†	-5.9	-0.00414 mg/L	0.001255	-0.00414 mg/L	0.001255	30.33%
V 290.880†	1885.3	0.00542 mg/L	0.000929	0.00542 mg/L	0.000929	17.14%
Zn 206.200†	303.3	0.00357 mg/L	0.000037	0.00357 mg/L	0.000037	1.04%
K 766.490†	15495.7	5.07 mg/L	0.011	5.07 mg/L	0.011	0.21%
Na 589.592†	458638.7	22.8 mg/L	0.04	22.8 mg/L	0.04	0.19%
Sr 407.771†	675916.9	0.261 mg/L	0.0016	0.261 mg/L	0.0016	0.61%
Li 670.784†	748.8	0.00151 mg/L	0.000049	0.00151 mg/L	0.000049	3.24%

Sequence No.: 10
 Sample ID: L1207075306
 Analyst: KHR
 Initial Sample Wt:
 Dilution:

u&osampler Location: 78
 a&e Collected: 7/26/2012 8:19:09 PM
 a&a Type: Original
 nitial Sample Vol:
 a&ple Prep Vol:

Nebulizer Parameters: L1207075306

Analyte	Back Pressure	Flow
All	164.0 kPa	0.00 L/min

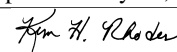
Mean Data: L1207075306

Analyte	Mean Corrected		Calib.	Std.Dev.	Sample		RSD
	Intensity	Conc. Units			Conc. Units	Std.Dev.	
Y 371.029	2473966.2					5565.02	0.22%
YRADIAL	300819.6					1656.68	0.55%
Ga 417.206	1422541.8					21374.47	1.50%
GaRADIAL	83931.4					66.36	0.08%
Ag 328.068†	-444.4	0.00073 mg/L	0.000833	0.00073 mg/L	0.000833	113.62%	
Al 396.153†	23196.7	3.45 mg/L	0.041	3.45 mg/L	0.041	1.20%	
As 188.979†	6.0	0.00101 mg/L	0.002019	0.00101 mg/L	0.002019	200.35%	
Ba 233.527†	8116.7	0.0470 mg/L	0.00032	0.0470 mg/L	0.00032	0.69%	
Be 234.861†	2010.3	0.00084 mg/L	0.000074	0.00084 mg/L	0.000074	8.86%	
B 249.677†	1665.1	0.0146 mg/L	0.00127	0.0146 mg/L	0.00127	8.74%	
Ca 227.546†	1656.4	3.84 mg/L	0.085	3.84 mg/L	0.085	2.22%	
Cd 228.802†	10.4	0.00018 mg/L	0.000086	0.00018 mg/L	0.000086	47.52%	
Co 228.616†	104.5	0.00200 mg/L	0.000345	0.00200 mg/L	0.000345	17.30%	
Cr 267.716†	1012.9	0.00758 mg/L	0.000062	0.00758 mg/L	0.000062	0.81%	
Cu 327.393†	2985.6	0.0124 mg/L	0.00069	0.0124 mg/L	0.00069	5.55%	
Fe 239.562†	58169.4	3.98 mg/L	0.054	3.98 mg/L	0.054	1.37%	
Mg 279.077†	4499.5	1.38 mg/L	0.011	1.38 mg/L	0.011	0.77%	
Mn 257.610†	35696.4	0.0434 mg/L	0.00024	0.0434 mg/L	0.00024	0.55%	
Mo 202.031†	27.1	0.00008 mg/L	0.000181	0.00008 mg/L	0.000181	237.34%	
Ni 231.604†	249.4	0.00064 mg/L	0.000138	0.00064 mg/L	0.000138	21.71%	
Pb 220.353†	8.5	0.00040 mg/L	0.001974	0.00040 mg/L	0.001974	493.05%	
Sb 206.836†	-9.5	-0.00109 mg/L	0.000983	-0.00109 mg/L	0.000983	89.82%	
Se 196.026†	-12.1	-0.00346 mg/L	0.000859	-0.00346 mg/L	0.000859	24.82%	
Si 251.611†	954041.1	18.9 mg/L	0.20	18.9 mg/L	0.20	1.05%	
Sn 189.927†	-44.0	-0.00507 mg/L	0.000205	-0.00507 mg/L	0.000205	4.05%	
Ti 334.940†	44423.1	0.0435 mg/L	0.00022	0.0435 mg/L	0.00022	0.50%	
Tl 190.801†	-1.1	-0.00204 mg/L	0.001644	-0.00204 mg/L	0.001644	80.46%	
V 290.880†	3898.8	0.0149 mg/L	0.00103	0.0149 mg/L	0.00103	6.96%	
Zn 206.200†	2135.3	0.0361 mg/L	0.00014	0.0361 mg/L	0.00014	0.40%	
K 766.490†	43853.3	14.5 mg/L	0.06	14.5 mg/L	0.06	0.42%	
Na 589.592†	191616.0	9.45 mg/L	0.072	9.45 mg/L	0.072	0.76%	
Sr 407.771†	110312.0	0.0422 mg/L	0.00032	0.0422 mg/L	0.00032	0.76%	
Li 670.784†	867.2	0.00231 mg/L	0.000283	0.00231 mg/L	0.000283	12.26%	

Sequence No.: 11
 Sample ID: L1207075306PS WG404601-01

u&osampler Location: 79
 a&e Collected: 7/26/2012 8:25:19 PM

Approved: July 27, 2012



Analyst: KHR
Initial Sample Wt:
Dilution:

ana Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: L1207075306PS WG404601-01

Analyte	Back Pressure	Flow
All	164.0 kPa	0.00 L/min

Mean Data: L1207075306PS WG404601-01

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Conc. Units	Sample Std.Dev.	RSD
Y 371.029	2395130.3					15470.27	0.65%
YRADIAL	300816.4					6392.94	2.13%
Ga 417.206	1362250.8					9460.96	0.69%
GaRADIAL	83446.9					1975.14	2.37%
Ag 328.068†	62196.4	0.202 mg/L		0.0015	0.202 mg/L	0.0015	0.74%
Al 396.153†	55046.9	8.16 mg/L		0.030	8.16 mg/L	0.030	0.37%
As 188.979†	674.8	0.190 mg/L		0.0030	0.190 mg/L	0.0030	1.60%
Ba 233.527†	93113.2	0.560 mg/L		0.0036	0.560 mg/L	0.0036	0.65%
Be 234.861†	30763.3	0.0252 mg/L		0.00020	0.0252 mg/L	0.00020	0.80%
B 249.677†	106990.2	0.982 mg/L		0.0034	0.982 mg/L	0.0034	0.34%
Ca 227.546†	3748.7	8.74 mg/L		0.138	8.74 mg/L	0.138	1.58%
Cd 228.802†	1356.5	0.0245 mg/L		0.00062	0.0245 mg/L	0.00062	2.53%
Co 228.616†	4634.8	0.105 mg/L		0.0006	0.105 mg/L	0.0006	0.52%
Cr 267.716†	32555.7	0.264 mg/L		0.0011	0.264 mg/L	0.0011	0.43%
Cu 327.393†	65125.3	0.258 mg/L		0.0027	0.258 mg/L	0.0027	1.06%
Fe 239.562†	79397.4	5.43 mg/L		0.083	5.43 mg/L	0.083	1.52%
Mg 279.077†	20867.0	6.29 mg/L		0.082	6.29 mg/L	0.082	1.30%
Mn 257.610†	243067.0	0.301 mg/L		0.0028	0.301 mg/L	0.0028	0.93%
Mo 202.031†	18634.5	0.502 mg/L		0.0033	0.502 mg/L	0.0033	0.65%
Ni 231.604†	18051.1	0.260 mg/L		0.0021	0.260 mg/L	0.0021	0.80%
Pb 220.353†	3542.7	0.261 mg/L		0.0011	0.261 mg/L	0.0011	0.44%
Sb 206.836†	2749.9	0.592 mg/L		0.0096	0.592 mg/L	0.0096	1.62%
Se 196.026†	400.2	0.199 mg/L		0.0040	0.199 mg/L	0.0040	2.03%
Si 251.611†	1035715.4	20.5 mg/L		0.08	20.5 mg/L	0.08	0.38%
Sn 189.927†	-94.0	-0.00915 mg/L		0.001129	-0.00915 mg/L	0.001129	12.34%
Ti 334.940†	560945.0	0.542 mg/L		0.0024	0.542 mg/L	0.0024	0.45%
Tl 190.801†	1047.4	0.273 mg/L		0.0025	0.273 mg/L	0.0025	0.91%
V 290.880†	129588.8	0.528 mg/L		0.0042	0.528 mg/L	0.0042	0.80%
Zn 206.200†	31829.3	0.559 mg/L		0.0068	0.559 mg/L	0.0068	1.22%
K 766.490†	116004.5	38.5 mg/L		0.13	38.5 mg/L	0.13	0.34%
Na 589.592†	687995.0	34.3 mg/L		0.93	34.3 mg/L	0.93	2.70%
Sr 407.771†	1378234.2	0.533 mg/L		0.0144	0.533 mg/L	0.0144	2.70%
Li 670.784†	78632.5	0.523 mg/L		0.0034	0.523 mg/L	0.0034	0.65%

Sequence No.: 12

Sample ID: L1207075306DL WG404601-02

Analyst: KHR
Initial Sample Wt:
Dilution:

u&osampler Location: 80

ana Collected: 7/26/2012 8:31:31 PM

ana Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: L1207075306DL WG404601-02

Analyte	Back Pressure	Flow
All	164.0 kPa	0.00 L/min

Mean Data: L1207075306DL WG404601-02

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Conc. Units	Sample Std.Dev.	RSD
Y 371.029	2450879.3					28773.63	1.17%
YRADIAL	299786.9					5450.21	1.82%
Ga 417.206	1408853.1					16787.44	1.19%
GaRADIAL	86182.6					1350.65	1.57%
Ag 328.068†	-157.9	0.00032 mg/L		0.000072	0.00032 mg/L	0.000072	22.49%
Al 396.153†	4638.5	0.689 mg/L		0.0033	0.689 mg/L	0.0033	0.47%
As 188.979†	3.5	-0.00028 mg/L		0.000824	-0.00028 mg/L	0.000824	291.44%
Ba 233.527†	1661.2	0.00818 mg/L		0.000148	0.00818 mg/L	0.000148	1.81%
Be 234.861†	496.7	0.00029 mg/L		0.000026	0.00029 mg/L	0.000026	9.04%

Approved: July 27, 2012

Ken H. Rhodes

B 249.677†	479.4	0.00506	mg/L	0.000150	0.00506	mg/L	0.000150	2.97%
Ca 227.546†	312.5	0.762	mg/L	0.0143	0.762	mg/L	0.0143	1.88%
Cd 228.802†	5.7	0.00009	mg/L	0.000126	0.00009	mg/L	0.000126	134.62%
Co 228.616†	10.7	0.00002	mg/L	0.000215	0.00002	mg/L	0.000215	>999.9%
Cr 267.716†	206.8	0.00113	mg/L	0.000004	0.00113	mg/L	0.000004	0.36%
Cu 327.393†	638.4	0.00298	mg/L	0.000294	0.00298	mg/L	0.000294	9.85%
Fe 239.562†	11319.4	0.778	mg/L	0.0033	0.778	mg/L	0.0033	0.43%
Mg 279.077†	872.1	0.291	mg/L	0.0028	0.291	mg/L	0.0028	0.96%
Mn 257.610†	7320.7	0.00826	mg/L	0.000194	0.00826	mg/L	0.000194	2.35%
Mo 202.031†	4.3	-0.00071	mg/L	0.000293	-0.00071	mg/L	0.000293	41.29%
Ni 231.604†	79.6	-0.00183	mg/L	0.000198	-0.00183	mg/L	0.000198	10.79%
Pb 220.353†	-3.8	-0.00065	mg/L	0.000799	-0.00065	mg/L	0.000799	123.03%
Sb 206.836†	-3.7	0.00007	mg/L	0.000116	0.00007	mg/L	0.000116	169.57%
Se 196.026†	1.0	0.00236	mg/L	0.000665	0.00236	mg/L	0.000665	28.16%
Si 251.611†	195800.7	3.87	mg/L	0.054	3.87	mg/L	0.054	1.39%
Sn 189.927†	-5.4	-0.00191	mg/L	0.000565	-0.00191	mg/L	0.000565	29.58%
Ti 334.940†	9790.8	0.00963	mg/L	0.001559	0.00963	mg/L	0.001559	16.19%
Tl 190.801†	-4.0	-0.00324	mg/L	0.001518	-0.00324	mg/L	0.001518	46.83%
V 290.880†	1096.7	0.00363	mg/L	0.000245	0.00363	mg/L	0.000245	6.75%
Zn 206.200†	575.9	0.00878	mg/L	0.000258	0.00878	mg/L	0.000258	2.94%
K 766.490†	9130.4	2.97	mg/L	0.038	2.97	mg/L	0.038	1.28%
Na 589.592†	38264.1	1.88	mg/L	0.041	1.88	mg/L	0.041	2.20%
Sr 407.771†	23063.6	0.00848	mg/L	0.000305	0.00848	mg/L	0.000305	3.59%
Li 670.784†	270.7	-0.00169	mg/L	0.000082	-0.00169	mg/L	0.000082	4.84%

Sequence No.: 13
 Sample ID: CCV
 Analyst:
 Initial Sample Wt:
 Dilution:

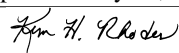
u\osampler Location: 6
 ame Collected: 7/26/2012 8:38:39 PM
 ana Type: Original
 nitial Sample Vol:
 ample Prep Vol:

Nebulizer Parameters: CCV

Analyte	Back Pressure	Flow
All	164.0 kPa	0.00 L/min

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 371.029	2353382.9				36093.89	1.53%
YRADIAL	293577.4				4262.31	1.45%
Ga 417.206	1286117.8				14543.90	1.13%
GaRADIAL	81320.7				992.78	1.22%
Ag 328.068†	129808.8	0.419 mg/L	0.0013	0.419 mg/L	0.0013	0.31%
QC value within limits for Ag		328.068	Recovery = 104.76%			
Al 396.153†	68614.2	10.1 mg/L	0.01	10.1 mg/L	0.01	0.14%
QC value within limits for Al		396.153	Recovery = 101.44%			
As 188.979†	1424.6	0.402 mg/L	0.0026	0.402 mg/L	0.0026	0.64%
QC value within limits for As		188.979	Recovery = 100.38%			
Ba 233.527†	173654.6	1.05 mg/L	0.010	1.05 mg/L	0.010	0.96%
QC value within limits for Ba		233.527	Recovery = 104.71%			
Be 234.861†	61389.3	0.0518 mg/L	0.00051	0.0518 mg/L	0.00051	0.98%
QC value within limits for Be		234.861	Recovery = 103.62%			
B 249.677†	55629.3	0.509 mg/L	0.0024	0.509 mg/L	0.0024	0.47%
QC value within limits for B		249.677	Recovery = 101.77%			
Ca 227.546†	4485.0	10.6 mg/L	0.03	10.6 mg/L	0.03	0.27%
QC value within limits for Ca		227.546	Recovery = 105.54%			
Cd 228.802†	2836.0	0.0511 mg/L	0.00053	0.0511 mg/L	0.00053	1.03%
QC value within limits for Cd		228.802	Recovery = 102.17%			
Co 228.616†	9073.2	0.207 mg/L	0.0031	0.207 mg/L	0.0031	1.49%
QC value within limits for Co		228.616	Recovery = 103.45%			
Cr 267.716†	64742.7	0.525 mg/L	0.0055	0.525 mg/L	0.0055	1.04%
QC value within limits for Cr		267.716	Recovery = 105.04%			
Cu 327.393†	130365.5	0.516 mg/L	0.0031	0.516 mg/L	0.0031	0.60%
QC value within limits for Cu		327.393	Recovery = 103.27%			
Fe 239.562†	59942.1	4.10 mg/L	0.012	4.10 mg/L	0.012	0.30%
QC value within limits for Fe		239.562	Recovery = 102.51%			
Mg 279.077†	34110.2	10.3 mg/L	0.04	10.3 mg/L	0.04	0.37%
QC value within limits for Mg		279.077	Recovery = 102.77%			
Mn 257.610†	420433.1	0.521 mg/L	0.0075	0.521 mg/L	0.0075	1.44%

Approved: July 27, 2012


Mo	202.031†	38350.1	1.03 mg/L	0.013	1.03 mg/L	0.013	1.23%
Ni	231.604†	36855.9	0.533 mg/L	0.0080	0.533 mg/L	0.0080	1.49%
Pb	220.353†	7100.5	0.523 mg/L	0.0072	0.523 mg/L	0.0072	1.38%
Sb	206.836†	5698.6	1.23 mg/L	0.007	1.23 mg/L	0.007	0.58%
Se	196.026†	835.9	0.412 mg/L	0.0041	0.412 mg/L	0.0041	1.00%
Si	251.611†	261770.7	5.16 mg/L	0.025	5.16 mg/L	0.025	0.49%
Sn	189.927†	12877.5	1.05 mg/L	0.014	1.05 mg/L	0.014	1.36%
Ti	334.940†	1066314.0	1.03 mg/L	0.008	1.03 mg/L	0.008	0.79%
Tl	190.801†	2071.1	0.541 mg/L	0.0054	0.541 mg/L	0.0054	1.00%
V	290.880†	254378.6	1.04 mg/L	0.006	1.04 mg/L	0.006	0.61%
Zn	206.200†	60337.8	1.06 mg/L	0.019	1.06 mg/L	0.019	1.79%
K	766.490†	152752.4	50.8 mg/L	0.29	50.8 mg/L	0.29	0.58%
Na	589.592†	996471.5	50.1 mg/L	0.49	50.1 mg/L	0.49	0.97%
Sr	407.771†	2508578.5	0.970 mg/L	0.0145	0.970 mg/L	0.0145	1.49%
Li	670.784†	152570.4	1.02 mg/L	0.006	1.02 mg/L	0.006	0.59%

QC value within limits for Mn 257.610 Recovery = 104.12%
 QC value within limits for Mo 202.031 Recovery = 103.42%
 QC value within limits for Ni 231.604 Recovery = 106.63%
 QC value within limits for Pb 220.353 Recovery = 104.55%
 QC value within limits for Sb 206.836 Recovery = 102.09%
 QC value within limits for Se 196.026 Recovery = 102.98%
 QC value within limits for Si 251.611 Recovery = 103.24%
 QC value within limits for Sn 189.927 Recovery = 105.10%
 QC value within limits for Ti 334.940 Recovery = 102.97%
 QC value within limits for Tl 190.801 Recovery = 108.13%
 QC value within limits for V 290.880 Recovery = 103.82%
 QC value within limits for Zn 206.200 Recovery = 106.08%
 QC value within limits for K 766.490 Recovery = 101.55%
 QC value within limits for Na 589.592 Recovery = 100.15%
 QC value within limits for Sr 407.771 Recovery = 97.03%
 QC value within limits for Li 670.784 Recovery = 101.89%

All analyte(s) passed QC.

Sequence No.: 14

Sample ID: CCB

Analyst:

Initial Sample Wt:

Dilution:

u/sampler Location: 1

Date Collected: 7/26/2012 8:44:51 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Nebulizer Parameters: CCB

Analyte	Back Pressure	Flow
All	164.0 kPa	0.00 L/min

Mean Data: CCB

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 371.029	2456494.5				10100.06	0.41%
YRADIAL	294964.5				4086.57	1.39%
Ga 417.206	1310345.8				16251.95	1.24%
GaRADIAL	83465.5				1387.87	1.66%
Ag 328.068†	63.1	0.00070 mg/L	0.000535	0.00070 mg/L	0.000535	76.06%
QC value within limits for Ag 328.068						Recovery = Not calculated
Al 396.153†	16.1	0.00082 mg/L	0.000438	0.00082 mg/L	0.000438	53.54%
QC value within limits for Al 396.153						Recovery = Not calculated
As 188.979†	2.5	-0.00072 mg/L	0.001532	-0.00072 mg/L	0.001532	211.81%
QC value within limits for As 188.979						Recovery = Not calculated
Ba 233.527†	45.8	-0.00153 mg/L	0.000091	-0.00153 mg/L	0.000091	5.94%
QC value within limits for Ba 233.527						Recovery = Not calculated
Be 234.861†	7.5	0.00005 mg/L	0.000008	0.00005 mg/L	0.000008	13.66%
QC value within limits for Be 234.861						Recovery = Not calculated
B 249.677†	124.9	0.00214 mg/L	0.000030	0.00214 mg/L	0.000030	1.40%
QC value within limits for B 249.677						Recovery = Not calculated
Ca 227.546†	-3.8	0.0360 mg/L	0.02193	0.0360 mg/L	0.02193	60.88%
QC value within limits for Ca 227.546						Recovery = Not calculated
Cd 228.802†	5.3	0.00009 mg/L	0.000050	0.00009 mg/L	0.000050	56.55%
QC value within limits for Cd 228.802						Recovery = Not calculated
Co 228.616†	-1.1	-0.00021 mg/L	0.000238	-0.00021 mg/L	0.000238	112.71%
QC value within limits for Co 228.616						Recovery = Not calculated
Cr 267.716†	17.0	-0.00039 mg/L	0.000101	-0.00039 mg/L	0.000101	25.68%

Approved: July 27, 2012

Ann H. Rhodes

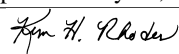
Cu	327.393†	QC value within limits	for Cr 267.716	Recovery = Not calculated				
		126.0	0.00091 mg/L	0.000108	0.00091 mg/L	0.000108	11.82%	
Fe	239.562†	QC value within limits	for Cu 327.393	Recovery = Not calculated				
		31.4	0.00691 mg/L	0.000174	0.00691 mg/L	0.000174	2.52%	
Mg	279.077†	QC value within limits	for Fe 239.562	Recovery = Not calculated				
		1.9	0.0300 mg/L	0.00049	0.0300 mg/L	0.00049	1.62%	
Mn	257.610†	QC value within limits	for Mg 279.077	Recovery = Not calculated				
		103.6	-0.00069 mg/L	0.000004	-0.00069 mg/L	0.000004	0.52%	
Mo	202.031†	QC value within limits	for Mn 257.610	Recovery = Not calculated				
		8.7	-0.00063 mg/L	0.000253	-0.00063 mg/L	0.000253	40.06%	
Ni	231.604†	QC value within limits	for Mo 202.031	Recovery = Not calculated				
		17.2	-0.00274 mg/L	0.000092	-0.00274 mg/L	0.000092	3.35%	
Pb	220.353†	QC value within limits	for Ni 231.604	Recovery = Not calculated				
		-14.7	-0.00149 mg/L	0.000843	-0.00149 mg/L	0.000843	56.42%	
Sb	206.836†	QC value within limits	for Pb 220.353	Recovery = Not calculated				
		-1.6	0.00051 mg/L	0.001370	0.00051 mg/L	0.001370	266.55%	
Se	196.026†	QC value within limits	for Sb 206.836	Recovery = Not calculated				
		0.8	0.00211 mg/L	0.001778	0.00211 mg/L	0.001778	84.21%	
Si	251.611†	QC value within limits	for Se 196.026	Recovery = Not calculated				
		573.4	0.00828 mg/L	0.000885	0.00828 mg/L	0.000885	10.68%	
Sn	189.927†	QC value within limits	for Si 251.611	Recovery = Not calculated				
		23.9	0.00048 mg/L	0.000554	0.00048 mg/L	0.000554	114.32%	
Ti	334.940†	QC value within limits	for Sn 189.927	Recovery = Not calculated				
		187.4	0.00026 mg/L	0.000135	0.00026 mg/L	0.000135	51.34%	
Tl	190.801†	QC value within limits	for Ti 334.940	Recovery = Not calculated				
		-0.6	-0.00251 mg/L	0.002397	-0.00251 mg/L	0.002397	95.37%	
V	290.880†	QC value within limits	for Tl 190.801	Recovery = Not calculated				
		259.0	0.00025 mg/L	0.000833	0.00025 mg/L	0.000833	331.00%	
Zn	206.200†	QC value within limits	for V 290.880	Recovery = Not calculated				
		22.1	-0.00092 mg/L	0.000113	-0.00092 mg/L	0.000113	12.29%	
K	766.490†	QC value within limits	for Zn 206.200	Recovery = Not calculated				
		50.6	-0.0489 mg/L	0.01269	-0.0489 mg/L	0.01269	25.95%	
Na	589.592†	QC value within limits	for K 766.490	Recovery = Not calculated				
		373.1	0.0203 mg/L	0.00829	0.0203 mg/L	0.00829	40.76%	
Sr	407.771†	QC value within limits	for Na 589.592	Recovery = Not calculated				
		630.5	-0.00018 mg/L	0.000010	-0.00018 mg/L	0.000010	5.26%	
Li	670.784†	QC value within limits	for Sr 407.771	Recovery = Not calculated				
		156.7	-0.00245 mg/L	0.000269	-0.00245 mg/L	0.000269	10.98%	
All analyte(s) passed QC.								

Sequence No.: 15 u&sampler Location: 81
 Sample ID: L1207075307 a&e Collected: 7/26/2012 8:51:56 PM
 Analyst: KHR a&a Type: Original
 Initial Sample Wt: n&itial Sample Vol:
 Dilution: a∓le Prep Vol:

Nebulizer Parameters: L1207075307
 Analyte Back Pressure Flow
 All 164.0 kPa 0.00 L/min

Mean Data: L1207075307

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 371.029	2402910.5				15346.32	0.64%
YRADIAL	292252.9				5387.41	1.84%
Ga 417.206	1399984.0				6032.55	0.43%
GaRADIAL	83266.8				44.92	0.05%
Ag 328.068†	-933.3	0.00125 mg/L	0.000592	0.00125 mg/L	0.000592	47.37%
Al 396.153†	19251.0	2.87 mg/L	0.012	2.87 mg/L	0.012	0.43%
As 188.979†	2.8	0.00138 mg/L	0.002794	0.00138 mg/L	0.002794	203.11%
Ba 233.527†	11447.8	0.0668 mg/L	0.00029	0.0668 mg/L	0.00029	0.43%
Be 234.861†	2883.0	0.00039 mg/L	0.000040	0.00039 mg/L	0.000040	10.24%
B 249.677†	2258.6	0.0178 mg/L	0.00019	0.0178 mg/L	0.00019	1.05%
Ca 227.546†	15122.7	34.1 mg/L	0.73	34.1 mg/L	0.73	2.13%
Cd 228.802†	11.2	0.00019 mg/L	0.000059	0.00019 mg/L	0.000059	31.10%
Co 228.616†	44.3	0.00051 mg/L	0.000060	0.00051 mg/L	0.000060	11.77%
Cr 267.716†	654.2	0.00448 mg/L	0.000055	0.00448 mg/L	0.000055	1.22%
Cu 327.393†	467.7	0.00274 mg/L	0.000737	0.00274 mg/L	0.000737	26.88%

Approved: July 27, 2012


Fe	239.562†	133343.4	9.12 mg/L	0.155	9.12 mg/L	0.155	1.70%
Mg	279.077†	8255.3	2.50 mg/L	0.054	2.50 mg/L	0.054	2.16%
Mn	257.610†	75757.0	0.0931 mg/L	0.00067	0.0931 mg/L	0.00067	0.73%
Mo	202.031†	32.2	0.00047 mg/L	0.000076	0.00047 mg/L	0.000076	15.99%
Ni	231.604†	258.6	0.00077 mg/L	0.000235	0.00077 mg/L	0.000235	30.41%
Pb	220.353†	38.1	0.00226 mg/L	0.001039	0.00226 mg/L	0.001039	45.87%
Sb	206.836†	-2.3	0.00065 mg/L	0.000309	0.00065 mg/L	0.000309	47.44%
Se	196.026†	2.1	0.00429 mg/L	0.001391	0.00429 mg/L	0.001391	32.43%
Si	251.611†	979844.9	19.4 mg/L	0.10	19.4 mg/L	0.10	0.49%
Sn	189.927†	-203.1	-0.0181 mg/L	0.00044	-0.0181 mg/L	0.00044	2.45%
Ti	334.940†	28264.0	0.0324 mg/L	0.00153	0.0324 mg/L	0.00153	4.73%
Tl	190.801†	-17.7	-0.00653 mg/L	0.003309	-0.00653 mg/L	0.003309	50.68%
V	290.880†	3450.5	0.0127 mg/L	0.00029	0.0127 mg/L	0.00029	2.30%
Zn	206.200†	1258.4	0.0206 mg/L	0.00015	0.0206 mg/L	0.00015	0.74%
K	766.490†	6512.8	2.09 mg/L	0.011	2.09 mg/L	0.011	0.52%
Na	589.592†	328260.4	16.2 mg/L	0.27	16.2 mg/L	0.27	1.68%
Sr	407.771†	466108.8	0.179 mg/L	0.0015	0.179 mg/L	0.0015	0.81%
Li	670.784†	755.1	0.00156 mg/L	0.000206	0.00156 mg/L	0.000206	13.24%

Sequence No.: 16

Sample ID: L1207075308 WG404522-01

Analyst: KHR

Initial Sample Wt:

Dilution:

uSampler Location: 82

Date Collected: 7/26/2012 8:58:08 PM

Sample Type: Original

Initial Sample Vol:

Sample Prep Vol:

Nebulizer Parameters: L1207075308 WG404522-01

Analyte	Back Pressure	Flow
All	164.0 kPa	0.00 L/min

Mean Data: L1207075308 WG404522-01

Analyte	Mean Corrected	Calib.	Std.Dev.	Sample	Std.Dev.	RSD
	Intensity	Conc. Units		Conc. Units		
Y 371.029	2482709.1				2372.83	0.10%
YRADIAL	303604.7				4967.92	1.64%
Ga 417.206	1397360.9				27772.07	1.99%
GaRADIAL	84721.7				2044.15	2.41%
Ag 328.068†	108.0	0.00102 mg/L	0.000311	0.00102 mg/L	0.000311	30.52%
Al 396.153†	3026.3	0.449 mg/L	0.0058	0.449 mg/L	0.0058	1.29%
As 188.979†	-0.7	-0.00155 mg/L	0.000684	-0.00155 mg/L	0.000684	44.09%
Ba 233.527†	13731.0	0.0811 mg/L	0.00078	0.0811 mg/L	0.00078	0.96%
Be 234.861†	1910.0	0.00157 mg/L	0.000060	0.00157 mg/L	0.000060	3.79%
B 249.677†	4774.5	0.0447 mg/L	0.00132	0.0447 mg/L	0.00132	2.95%
Ca 227.546†	9866.0	22.1 mg/L	0.55	22.1 mg/L	0.55	2.48%
Cd 228.802†	20.5	0.00038 mg/L	0.000150	0.00038 mg/L	0.000150	39.55%
Co 228.616†	56.1	0.00105 mg/L	0.000062	0.00105 mg/L	0.000062	5.85%
Cr 267.716†	151.0	0.00068 mg/L	0.000085	0.00068 mg/L	0.000085	12.40%
Cu 327.393†	603.3	0.00282 mg/L	0.000409	0.00282 mg/L	0.000409	14.46%
Fe 239.562†	6831.7	0.472 mg/L	0.0043	0.472 mg/L	0.0043	0.92%
Mg 279.077†	21156.5	6.37 mg/L	0.104	6.37 mg/L	0.104	1.63%
Mn 257.610†	25370.2	0.0306 mg/L	0.00003	0.0306 mg/L	0.00003	0.09%
Mo 202.031†	28.5	-0.00007 mg/L	0.000085	-0.00007 mg/L	0.000085	129.97%
Ni 231.604†	119.5	-0.00125 mg/L	0.000329	-0.00125 mg/L	0.000329	26.24%
Pb 220.353†	17.0	0.00102 mg/L	0.001279	0.00102 mg/L	0.001279	125.27%
Sb 206.836†	-1.0	0.00064 mg/L	0.000154	0.00064 mg/L	0.000154	24.09%
Se 196.026†	0.5	0.00207 mg/L	0.001515	0.00207 mg/L	0.001515	73.37%
Si 251.611†	313083.9	6.19 mg/L	0.084	6.19 mg/L	0.084	1.35%
Sn 189.927†	-173.8	-0.0157 mg/L	0.00051	-0.0157 mg/L	0.00051	3.28%
Ti 334.940†	3976.1	0.00722 mg/L	0.000243	0.00722 mg/L	0.000243	3.36%
Tl 190.801†	-4.1	-0.00338 mg/L	0.001913	-0.00338 mg/L	0.001913	56.62%
V 290.880†	1316.5	0.00438 mg/L	0.000783	0.00438 mg/L	0.000783	17.87%
Zn 206.200†	584.2	0.00893 mg/L	0.000251	0.00893 mg/L	0.000251	2.81%
K 766.490†	5598.5	1.79 mg/L	0.028	1.79 mg/L	0.028	1.55%
Na 589.592†	83522.8	4.11 mg/L	0.088	4.11 mg/L	0.088	2.13%
Sr 407.771†	333736.7	0.128 mg/L	0.0016	0.128 mg/L	0.0016	1.26%
Li 670.784†	576.3	0.00036 mg/L	0.000170	0.00036 mg/L	0.000170	47.38%

Sequence No.: 17

Sample ID: L1207075309S WG404522-05

uSampler Location: 83

Date Collected: 7/26/2012 9:04:19 PM

Approved: July 27, 2012

Tom H. Rhodes

Analyst: KHR
Initial Sample Wt:
Dilution:

Sample Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: L1207075309S WG404522-05

Analyte Back Pressure Flow
All 164.0 kPa 0.00 L/min

Mean Data: L1207075309S WG404522-05

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 371.029	2390873.9				10318.89	0.43%
YRADIAL	299286.7				4195.20	1.40%
Ga 417.206	1365457.4				12362.45	0.91%
GaRADIAL	82851.1				1323.63	1.60%
Ag 328.068†	63542.2	0.206 mg/L	0.0014	0.206 mg/L	0.0014	0.68%
Al 396.153†	38586.6	5.71 mg/L	0.025	5.71 mg/L	0.025	0.44%
As 188.979†	687.1	0.193 mg/L	0.0023	0.193 mg/L	0.0023	1.19%
Ba 233.527†	100876.7	0.607 mg/L	0.0021	0.607 mg/L	0.0021	0.35%
Be 234.861†	31049.8	0.0261 mg/L	0.00015	0.0261 mg/L	0.00015	0.59%
B 249.677†	112820.7	1.04 mg/L	0.007	1.04 mg/L	0.007	0.69%
Ca 227.546†	12394.5	28.0 mg/L	0.27	28.0 mg/L	0.27	0.97%
Cd 228.802†	1355.0	0.0244 mg/L	0.00062	0.0244 mg/L	0.00062	2.54%
Co 228.616†	4576.0	0.104 mg/L	0.0005	0.104 mg/L	0.0005	0.51%
Cr 267.716†	32293.1	0.262 mg/L	0.0010	0.262 mg/L	0.0010	0.40%
Cu 327.393†	63905.4	0.253 mg/L	0.0033	0.253 mg/L	0.0033	1.31%
Fe 239.562†	36205.8	2.48 mg/L	0.009	2.48 mg/L	0.009	0.37%
Mg 279.077†	38742.1	11.7 mg/L	0.03	11.7 mg/L	0.03	0.24%
Mn 257.610†	240120.6	0.297 mg/L	0.0025	0.297 mg/L	0.0025	0.84%
Mo 202.031†	19103.0	0.515 mg/L	0.0042	0.515 mg/L	0.0042	0.81%
Ni 231.604†	17916.2	0.258 mg/L	0.0008	0.258 mg/L	0.0008	0.33%
Pb 220.353†	3565.2	0.263 mg/L	0.0018	0.263 mg/L	0.0018	0.67%
Sb 206.836†	2775.7	0.597 mg/L	0.0053	0.597 mg/L	0.0053	0.89%
Se 196.026†	403.9	0.200 mg/L	0.0027	0.200 mg/L	0.0027	1.34%
Si 251.611†	467976.9	9.25 mg/L	0.118	9.25 mg/L	0.118	1.27%
Sn 189.927†	6556.6	0.534 mg/L	0.0012	0.534 mg/L	0.0012	0.22%
Ti 334.940†	533671.9	0.519 mg/L	0.0015	0.519 mg/L	0.0015	0.30%
Tl 190.801†	1035.9	0.269 mg/L	0.0012	0.269 mg/L	0.0012	0.43%
V 290.880†	130456.4	0.532 mg/L	0.0020	0.532 mg/L	0.0020	0.38%
Zn 206.200†	30331.4	0.533 mg/L	0.0021	0.533 mg/L	0.0021	0.40%
K 766.490†	82362.7	27.3 mg/L	0.02	27.3 mg/L	0.02	0.09%
Na 589.592†	611419.4	30.5 mg/L	0.47	30.5 mg/L	0.47	1.54%
Sr 407.771†	1627256.1	0.629 mg/L	0.0081	0.629 mg/L	0.0081	1.29%
Li 670.784†	79223.2	0.527 mg/L	0.0014	0.527 mg/L	0.0014	0.26%

Sequence No.: 18

Sampler Location: 84

Sample ID: L1207075310SD WG404522-06

Date Collected: 7/26/2012 9:10:30 PM

Analyst: KHR

Sample Type: Original

Initial Sample Wt:

Initial Sample Vol:

Dilution:

Sample Prep Vol:

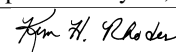
Nebulizer Parameters: L1207075310SD WG404522-06

Analyte Back Pressure Flow
All 164.0 kPa 0.00 L/min

Mean Data: L1207075310SD WG404522-06

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 371.029	2407318.0				31241.27	1.30%
YRADIAL	300389.9				7382.56	2.46%
Ga 417.206	1395981.4				17258.63	1.24%
GaRADIAL	84104.8				2200.35	2.62%
Ag 328.068†	61253.9	0.198 mg/L	0.0031	0.198 mg/L	0.0031	1.58%
Al 396.153†	37191.0	5.50 mg/L	0.006	5.50 mg/L	0.006	0.11%
As 188.979†	664.9	0.187 mg/L	0.0014	0.187 mg/L	0.0014	0.76%
Ba 233.527†	98835.9	0.595 mg/L	0.0080	0.595 mg/L	0.0080	1.35%
Be 234.861†	29830.8	0.0251 mg/L	0.00031	0.0251 mg/L	0.00031	1.24%

Approved: July 27, 2012



B 249.677†	108453.8	0.997 mg/L	0.0178	0.997 mg/L	0.0178	1.78%
Ca 227.546†	11815.2	26.7 mg/L	0.42	26.7 mg/L	0.42	1.59%
Cd 228.802†	1307.2	0.0236 mg/L	0.00065	0.0236 mg/L	0.00065	2.78%
Co 228.616†	4493.2	0.102 mg/L	0.0016	0.102 mg/L	0.0016	1.52%
Cr 267.716†	31350.3	0.254 mg/L	0.0023	0.254 mg/L	0.0023	0.92%
Cu 327.393†	61513.7	0.244 mg/L	0.0042	0.244 mg/L	0.0042	1.73%
Fe 239.562†	32844.6	2.25 mg/L	0.029	2.25 mg/L	0.029	1.30%
Mg 279.077†	37778.9	11.4 mg/L	0.17	11.4 mg/L	0.17	1.53%
Mn 257.610†	234419.8	0.290 mg/L	0.0053	0.290 mg/L	0.0053	1.83%
Mo 202.031†	18721.7	0.504 mg/L	0.0069	0.504 mg/L	0.0069	1.36%
Ni 231.604†	17509.6	0.252 mg/L	0.0048	0.252 mg/L	0.0048	1.92%
Pb 220.353†	3501.6	0.258 mg/L	0.0032	0.258 mg/L	0.0032	1.23%
Sb 206.836†	2685.6	0.578 mg/L	0.0088	0.578 mg/L	0.0088	1.52%
Se 196.026†	391.2	0.194 mg/L	0.0017	0.194 mg/L	0.0017	0.85%
Si 251.611†	441975.6	8.73 mg/L	0.110	8.73 mg/L	0.110	1.26%
Sn 189.927†	6452.2	0.526 mg/L	0.0055	0.526 mg/L	0.0055	1.04%
Ti 334.940†	522475.2	0.508 mg/L	0.0029	0.508 mg/L	0.0029	0.56%
Tl 190.801†	1026.7	0.267 mg/L	0.0027	0.267 mg/L	0.0027	1.00%
V 290.880†	126562.5	0.516 mg/L	0.0056	0.516 mg/L	0.0056	1.09%
Zn 206.200†	29395.2	0.516 mg/L	0.0045	0.516 mg/L	0.0045	0.88%
K 766.490†	82107.5	27.3 mg/L	0.18	27.3 mg/L	0.18	0.66%
Na 589.592†	597736.9	29.8 mg/L	0.72	29.8 mg/L	0.72	2.41%
Sr 407.771†	1613762.5	0.624 mg/L	0.0143	0.624 mg/L	0.0143	2.29%
Li 670.784†	78870.5	0.525 mg/L	0.0033	0.525 mg/L	0.0033	0.62%

Sequence No.: 19

Sample ID: L1207075311

Analyst: KHR

Initial Sample Wt:

Dilution:

u\osampler Location: 85

ame Collected: 7/26/2012 9:16:41 PM

a\sa Type: Original

nitial Sample Vol:

ample Prep Vol:

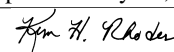
Nebulizer Parameters: L1207075311

Analyte	Back Pressure	Flow
All	164.0 kPa	0.00 L/min

Mean Data: L1207075311

Analyte	Mean Corrected		Calib.		Sample		RSD
	Intensity	Conc.	Units	Std.Dev.	Conc.	Units	
Y 371.029	2356186.5						0.94%
YRADIAL	293070.4						0.50%
Ga 417.206	1436481.7						3.10%
GaRADIAL	84341.0						0.98%
Ag 328.068†	-955.5	0.00178 mg/L	0.000284	0.00178 mg/L	0.000284	15.90%	
Al 396.153†	1798.0	0.267 mg/L	0.0062	0.267 mg/L	0.0062	2.31%	
As 188.979†	-7.3	-0.00095 mg/L	0.002244	-0.00095 mg/L	0.002244	236.16%	
Ba 233.527†	7796.4	0.0446 mg/L	0.00064	0.0446 mg/L	0.00064	1.44%	
Be 234.861†	3124.9	0.00023 mg/L	0.000038	0.00023 mg/L	0.000038	16.28%	
B 249.677†	2966.0	0.0237 mg/L	0.00245	0.0237 mg/L	0.00245	10.34%	
Ca 227.546†	23964.0	53.8 mg/L	3.20	53.8 mg/L	3.20	5.94%	
Cd 228.802†	11.8	0.00021 mg/L	0.000212	0.00021 mg/L	0.000212	99.59%	
Co 228.616†	42.7	0.00051 mg/L	0.000178	0.00051 mg/L	0.000178	34.79%	
Cr 267.716†	219.6	0.00087 mg/L	0.000022	0.00087 mg/L	0.000022	2.52%	
Cu 327.393†	43.3	0.00111 mg/L	0.000051	0.00111 mg/L	0.000051	4.62%	
Fe 239.562†	156508.9	10.7 mg/L	0.02	10.7 mg/L	0.02	0.15%	
Mg 279.077†	12936.9	3.90 mg/L	0.016	3.90 mg/L	0.016	0.40%	
Mn 257.610†	139128.1	0.172 mg/L	0.0015	0.172 mg/L	0.0015	0.86%	
Mo 202.031†	37.2	0.00070 mg/L	0.000176	0.00070 mg/L	0.000176	25.21%	
Ni 231.604†	154.1	-0.00075 mg/L	0.000361	-0.00075 mg/L	0.000361	48.33%	
Pb 220.353†	14.8	0.00011 mg/L	0.002545	0.00011 mg/L	0.002545	>999.9%	
Sb 206.836†	-8.5	-0.00060 mg/L	0.000917	-0.00060 mg/L	0.000917	153.06%	
Se 196.026†	-11.7	-0.00233 mg/L	0.000981	-0.00233 mg/L	0.000981	42.14%	
Si 251.611†	851708.6	16.8 mg/L	0.34	16.8 mg/L	0.34	2.04%	
Sn 189.927†	-257.9	-0.00226 mg/L	0.00095	-0.00226 mg/L	0.00095	4.22%	
Ti 334.940†	-5654.8	0.00266 mg/L	0.001389	0.00266 mg/L	0.001389	52.19%	
Tl 190.801†	-24.0	-0.00870 mg/L	0.004134	-0.00870 mg/L	0.004134	47.54%	
V 290.880†	2252.3	0.00771 mg/L	0.001284	0.00771 mg/L	0.001284	16.64%	
Zn 206.200†	1016.4	0.0163 mg/L	0.00048	0.0163 mg/L	0.00048	2.93%	
K 766.490†	8735.9	2.82 mg/L	0.040	2.82 mg/L	0.040	1.44%	
Na 589.592†	552818.2	27.5 mg/L	0.46	27.5 mg/L	0.46	1.68%	

Approved: July 27, 2012



Sr 407.771†	816963.9	0.315 mg/L	0.0024	0.315 mg/L	0.0024	0.76%
Li 670.784†	1299.1	0.00520 mg/L	0.000414	0.00520 mg/L	0.000414	7.96%

Sequence No.: 20

u&osampler Location: 86

Sample ID: L1207075312

Date Collected: 7/26/2012 9:22:52 PM

Analyst: KHR

Data Type: Original

Initial Sample Wt:

Initial Sample Vol:

Dilution:

Sample Prep Vol:

Nebulizer Parameters: L1207075312

Analyte	Back Pressure	Flow
All	164.0 kPa	0.00 L/min

Mean Data: L1207075312

Analyte	Mean Corrected Intensity	Conc. Units	Calib. Units	Std.Dev.	Conc. Units	Sample Std.Dev.	RSD
Y 371.029	2322665.5					33556.65	1.44%
YRADIAL	285994.5					635.95	0.22%
Ga 417.206	1390723.0					16486.61	1.19%
GaRADIAL	83672.1					817.39	0.98%
Ag 328.068†	-144.3	0.00448 mg/L		0.000381	0.00448 mg/L	0.000381	8.49%
Al 396.153†	-140.4	-0.0212 mg/L		0.00472	-0.0212 mg/L	0.00472	22.27%
As 188.979†	-15.7	-0.00322 mg/L		0.000945	-0.00322 mg/L	0.000945	29.35%
Ba 233.527†	9654.1	0.0558 mg/L		0.00084	0.0558 mg/L	0.00084	1.51%
Be 234.861†	3060.9	0.00006 mg/L		0.000040	0.00006 mg/L	0.000040	63.80%
B 249.677†	3080.7	0.0245 mg/L		0.00148	0.0245 mg/L	0.00148	6.03%
Ca 227.546†	73549.1	165 mg/L		1.1	165 mg/L	1.1	0.66%
Cd 228.802†	11.4	0.00021 mg/L		0.000034	0.00021 mg/L	0.000034	15.91%
Co 228.616†	-2.6	-0.00050 mg/L		0.000358	-0.00050 mg/L	0.000358	71.44%
Cr 267.716†	44.9	-0.00058 mg/L		0.000125	-0.00058 mg/L	0.000125	21.80%
Cu 327.393†	-201.3	0.00015 mg/L		0.000300	0.00015 mg/L	0.000300	205.85%
Fe 239.562†	164396.6	11.2 mg/L		0.05	11.2 mg/L	0.05	0.46%
Mg 279.077†	29631.7	8.91 mg/L		0.070	8.91 mg/L	0.070	0.79%
Mn 257.610†	201233.8	0.249 mg/L		0.0034	0.249 mg/L	0.0034	1.37%
Mo 202.031†	39.9	0.00082 mg/L		0.000329	0.00082 mg/L	0.000329	40.32%
Ni 231.604†	38.4	-0.00243 mg/L		0.000343	-0.00243 mg/L	0.000343	14.11%
Pb 220.353†	11.6	0.00063 mg/L		0.001262	0.00063 mg/L	0.001262	201.13%
Sb 206.836†	-10.6	-0.00102 mg/L		0.001242	-0.00102 mg/L	0.001242	122.21%
Se 196.026†	-3.4	0.00174 mg/L		0.001851	0.00174 mg/L	0.001851	106.66%
Si 251.611†	1012444.5	20.0 mg/L		0.10	20.0 mg/L	0.10	0.48%
Sn 189.927†	-336.0	-0.0289 mg/L		0.00062	-0.0289 mg/L	0.00062	2.13%
Ti 334.940†	-26772.9	-0.00109 mg/L		0.001407	-0.00109 mg/L	0.001407	129.56%
Tl 190.801†	-33.6	-0.0115 mg/L		0.00249	-0.0115 mg/L	0.00249	21.70%
V 290.880†	1667.5	0.00516 mg/L		0.001199	0.00516 mg/L	0.001199	23.22%
Zn 206.200†	150.4	0.00112 mg/L		0.000180	0.00112 mg/L	0.000180	16.09%
K 766.490†	7379.7	2.38 mg/L		0.029	2.38 mg/L	0.029	1.24%
Na 589.592†	259163.1	12.8 mg/L		0.16	12.8 mg/L	0.16	1.24%
Sr 407.771†	2117382.4	0.816 mg/L		0.0026	0.816 mg/L	0.0026	0.32%
Li 670.784†	1525.5	0.00672 mg/L		0.000180	0.00672 mg/L	0.000180	2.68%

Sequence No.: 21

u&osampler Location: 87

Sample ID: L1207075313

Date Collected: 7/26/2012 9:29:04 PM

Analyst: KHR

Data Type: Original

Initial Sample Wt:

Initial Sample Vol:

Dilution:

Sample Prep Vol:

Nebulizer Parameters: L1207075313

Analyte	Back Pressure	Flow
All	164.0 kPa	0.00 L/min

Mean Data: L1207075313

Analyte	Mean Corrected Intensity	Conc. Units	Calib. Units	Std.Dev.	Conc. Units	Sample Std.Dev.	RSD
Y 371.029	2349906.3					26338.25	1.12%
YRADIAL	292192.0					3922.96	1.34%
Ga 417.206	1455777.3					12532.04	0.86%

Approved: July 27, 2012

Ann H. Rhodes

Method: 200.7-6010 PE-ICP2.1

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Date: 7/26/2012 9:38:01 PM

Element	Concentration	Units	Std. Dev.	Concentration	Units	Std. Dev.	RSD
GaRADIAL	85036.0			1190.36		1.40%	
Ag 328.068†	109.2	0.00470 mg/L	0.000344	0.00470 mg/L	0.000344	7.32%	
Al 396.153†	1517.2	0.225 mg/L	0.0018	0.225 mg/L	0.0018	0.81%	
As 188.979†	-6.2	-0.00082 mg/L	0.003462	-0.00082 mg/L	0.003462	419.94%	
Ba 233.527†	9989.9	0.0579 mg/L	0.00045	0.0579 mg/L	0.00045	0.77%	
Be 234.861†	2722.0	0.00008 mg/L	0.000070	0.00008 mg/L	0.000070	86.86%	
B 249.677†	13516.5	0.121 mg/L	0.0029	0.121 mg/L	0.0029	2.39%	
Ca 227.546†	78365.8	175 mg/L	5.1	175 mg/L	5.1	2.90%	
Cd 228.802†	9.2	0.00016 mg/L	0.000156	0.00016 mg/L	0.000156	96.70%	
Co 228.616†	10.2	-0.00017 mg/L	0.000107	-0.00017 mg/L	0.000107	61.37%	
Cr 267.716†	173.3	0.00052 mg/L	0.000032	0.00052 mg/L	0.000032	6.14%	
Cu 327.393†	-48.0	0.00069 mg/L	0.000401	0.00069 mg/L	0.000401	58.15%	
Fe 239.562†	145429.1	9.94 mg/L	0.126	9.94 mg/L	0.126	1.27%	
Mg 279.077†	57337.7	17.2 mg/L	0.15	17.2 mg/L	0.15	0.87%	
Mn 257.610†	233125.9	0.288 mg/L	0.0017	0.288 mg/L	0.0017	0.58%	
Mo 202.031†	94.7	0.00224 mg/L	0.000291	0.00224 mg/L	0.000291	13.02%	
Ni 231.604†	167.9	-0.00054 mg/L	0.000452	-0.00054 mg/L	0.000452	83.06%	
Pb 220.353†	6.7	0.00048 mg/L	0.001013	0.00048 mg/L	0.001013	210.18%	
Sb 206.836†	-10.8	-0.00112 mg/L	0.000519	-0.00112 mg/L	0.000519	46.43%	
Se 196.026†	-5.6	0.00050 mg/L	0.003065	0.00050 mg/L	0.003065	616.88%	
Si 251.611†	791089.0	15.6 mg/L	0.10	15.6 mg/L	0.10	0.65%	
Sn 189.927†	-344.6	-0.0296 mg/L	0.00165	-0.0296 mg/L	0.00165	5.58%	
Ti 334.940†	-25608.4	0.00165 mg/L	0.001950	0.00165 mg/L	0.001950	118.13%	
Tl 190.801†	-24.3	-0.00912 mg/L	0.000971	-0.00912 mg/L	0.000971	10.65%	
V 290.880†	1956.0	0.00620 mg/L	0.001197	0.00620 mg/L	0.001197	19.32%	
Zn 206.200†	166.8	0.00144 mg/L	0.000097	0.00144 mg/L	0.000097	6.76%	
K 766.490†	10242.8	3.32 mg/L	0.008	3.32 mg/L	0.008	0.23%	
Na 589.592†	464446.6	23.1 mg/L	0.26	23.1 mg/L	0.26	1.14%	
Sr 407.771†	2827073.5	1.09 mg/L	0.009	1.09 mg/L	0.009	0.84%	
Li 670.784†	1083.3	0.00376 mg/L	0.000494	0.00376 mg/L	0.000494	13.15%	

Sequence No.: 22

Sample ID: L1207075314

Analyst: KHR

Initial Sample Wt:

Dilution:

u&osampler Location: 88

a&e Collected: 7/26/2012 9:35:19 PM

a&a Type: Original

nitial Sample Vol:

a&ple Prep Vol:

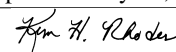
Nebulizer Parameters: L1207075314

Analyte	Back Pressure	Flow
All	164.0 kPa	0.00 L/min

Mean Data: L1207075314

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 371.029	2417612.2				15405.57	0.64%
YRADIAL	292918.4				2150.51	0.73%
Ga 417.206	1442546.1				19302.90	1.34%
GaRADIAL	84356.1				1020.60	1.21%
Ag 328.068†	-520.4	0.00170 mg/L	0.000397	0.00170 mg/L	0.000397	23.36%
Al 396.153†	645.5	0.0953 mg/L	0.00451	0.0953 mg/L	0.00451	4.73%
As 188.979†	7.4	0.00240 mg/L	0.000990	0.00240 mg/L	0.000990	41.30%
Ba 233.527†	15656.1	0.0923 mg/L	0.00085	0.0923 mg/L	0.00085	0.92%
Be 234.861†	2178.2	0.00027 mg/L	0.000054	0.00027 mg/L	0.000054	20.26%
B 249.677†	2259.4	0.0187 mg/L	0.00027	0.0187 mg/L	0.00027	1.43%
Ca 227.546†	20173.6	45.3 mg/L	0.73	45.3 mg/L	0.73	1.60%
Cd 228.802†	2.2	0.00001 mg/L	0.000098	0.00001 mg/L	0.000098	686.55%
Co 228.616†	-1.9	-0.00044 mg/L	0.000126	-0.00044 mg/L	0.000126	28.90%
Cr 267.716†	233.3	0.00111 mg/L	0.000061	0.00111 mg/L	0.000061	5.48%
Cu 327.393†	39.9	0.00092 mg/L	0.000356	0.00092 mg/L	0.000356	38.71%
Fe 239.562†	103733.7	7.09 mg/L	0.092	7.09 mg/L	0.092	1.30%
Mg 279.077†	13691.1	4.13 mg/L	0.052	4.13 mg/L	0.052	1.27%
Mn 257.610†	116684.3	0.144 mg/L	0.0017	0.144 mg/L	0.0017	1.16%
Mo 202.031†	24.9	0.00019 mg/L	0.000171	0.00019 mg/L	0.000171	91.51%
Ni 231.604†	188.2	-0.00025 mg/L	0.000373	-0.00025 mg/L	0.000373	148.86%
Pb 220.353†	5.1	-0.00036 mg/L	0.001550	-0.00036 mg/L	0.001550	432.29%
Sb 206.836†	-8.2	-0.00065 mg/L	0.000496	-0.00065 mg/L	0.000496	75.94%
Se 196.026†	-4.7	0.00049 mg/L	0.001821	0.00049 mg/L	0.001821	373.87%
Si 251.611†	539584.5	10.7 mg/L	0.09	10.7 mg/L	0.09	0.86%
Sn 189.927†	-238.1	-0.0209 mg/L	0.00034	-0.0209 mg/L	0.00034	1.61%

Approved: July 27, 2012



Method: 200.7-6010 PE-ICP2.1

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Date: 7/26/2012 9:50:21 PM

Ti 334.940†	-4671.9	0.00234 mg/L	0.000869	0.00234 mg/L	0.000869	37.16%
Tl 190.801†	-13.7	-0.00604 mg/L	0.001760	-0.00604 mg/L	0.001760	29.13%
V 290.880†	2131.4	0.00741 mg/L	0.000775	0.00741 mg/L	0.000775	10.46%
Zn 206.200†	193.1	0.00196 mg/L	0.000204	0.00196 mg/L	0.000204	10.42%
K 766.490†	14055.1	4.60 mg/L	0.034	4.60 mg/L	0.034	0.73%
Na 589.592†	326766.3	16.2 mg/L	0.39	16.2 mg/L	0.39	2.38%
Sr 407.771†	701455.6	0.270 mg/L	0.0021	0.270 mg/L	0.0021	0.78%
Li 670.784†	463.6	-0.00040 mg/L	0.001028	-0.00040 mg/L	0.001028	259.43%

Sequence No.: 23

u&osampler Location: 89

Sample ID: L1207075315 WG404522-02

Date Collected: 7/26/2012 9:41:30 PM

Analyst: KHR

Date Type: Original

Initial Sample Wt:

Initial Sample Vol:

Dilution:

Sample Prep Vol:

Nebulizer Parameters: L1207075315 WG404522-02

Analyte	Back Pressure	Flow
All	164.0 kPa	0.00 L/min

Mean Data: L1207075315 WG404522-02

Analyte	Mean Corrected Intensity	Conc. Units	Calib. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 371.029	2440085.7					40900.35	1.68%
YRADIAL	300977.3					677.61	0.23%
Ga 417.206	1444755.0					22274.13	1.54%
GaRADIAL	86271.8					536.87	0.62%
Ag 328.068†	151.7	0.00136 mg/L	0.000332	0.00136 mg/L	0.000332	24.42%	
Al 396.153†	23.7	0.00197 mg/L	0.004589	0.00197 mg/L	0.004589	232.90%	
As 188.979†	4.4	0.00005 mg/L	0.000499	0.00005 mg/L	0.000499	>999.9%	
Ba 233.527†	3201.2	0.0175 mg/L	0.00019	0.0175 mg/L	0.00019	1.10%	
Be 234.861†	657.4	0.00039 mg/L	0.000135	0.00039 mg/L	0.000135	34.83%	
B 249.677†	2076.0	0.0197 mg/L	0.00175	0.0197 mg/L	0.00175	8.91%	
Ca 227.546†	8470.6	19.0 mg/L	0.38	19.0 mg/L	0.38	1.99%	
Cd 228.802†	8.6	0.00014 mg/L	0.000144	0.00014 mg/L	0.000144	100.12%	
Co 228.616†	-0.1	-0.00021 mg/L	0.000307	-0.00021 mg/L	0.000307	144.68%	
Cr 267.716†	68.1	-0.00001 mg/L	0.000141	-0.00001 mg/L	0.000141	>999.9%	
Cu 327.393†	85.8	0.00080 mg/L	0.000338	0.00080 mg/L	0.000338	42.15%	
Fe 239.562†	14214.9	0.976 mg/L	0.0050	0.976 mg/L	0.0050	0.51%	
Mg 279.077†	9579.1	2.90 mg/L	0.042	2.90 mg/L	0.042	1.43%	
Mn 257.610†	36665.3	0.0446 mg/L	0.00063	0.0446 mg/L	0.00063	1.42%	
Mo 202.031†	53.6	0.00064 mg/L	0.000064	0.00064 mg/L	0.000064	10.08%	
Ni 231.604†	55.5	-0.00218 mg/L	0.000239	-0.00218 mg/L	0.000239	10.93%	
Pb 220.353†	-8.3	-0.00098 mg/L	0.001310	-0.00098 mg/L	0.001310	133.79%	
Sb 206.836†	-5.7	-0.00034 mg/L	0.000904	-0.00034 mg/L	0.000904	266.27%	
Se 196.026†	-6.1	-0.00111 mg/L	0.002694	-0.00111 mg/L	0.002694	241.81%	
Si 251.611†	412391.4	8.15 mg/L	0.121	8.15 mg/L	0.121	1.48%	
Sr 189.927†	-157.0	-0.0143 mg/L	0.00105	-0.0143 mg/L	0.00105	7.32%	
Ti 334.940†	-2611.8	0.00040 mg/L	0.000251	0.00040 mg/L	0.000251	62.28%	
Tl 190.801†	-14.7	-0.00617 mg/L	0.000234	-0.00617 mg/L	0.000234	3.79%	
V 290.880†	1074.0	0.00345 mg/L	0.000627	0.00345 mg/L	0.000627	18.16%	
Zn 206.200†	242.2	0.00292 mg/L	0.000042	0.00292 mg/L	0.000042	1.42%	
K 766.490†	3980.0	1.25 mg/L	0.008	1.25 mg/L	0.008	0.61%	
Na 589.592†	175524.2	8.66 mg/L	0.112	8.66 mg/L	0.112	1.30%	
Sr 407.771†	352379.3	0.136 mg/L	0.0021	0.136 mg/L	0.0021	1.55%	
Li 670.784†	500.5	-0.00015 mg/L	0.000095	-0.00015 mg/L	0.000095	63.86%	

Sequence No.: 24

u&osampler Location: 6

Sample ID: CCV

Date Collected: 7/26/2012 9:47:40 PM

Analyst:

Date Type: Original

Initial Sample Wt:

Initial Sample Vol:

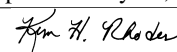
Dilution:

Sample Prep Vol:

Nebulizer Parameters: CCV

Analyte	Back Pressure	Flow
All	164.0 kPa	0.00 L/min

Approved: July 27, 2012



Mean Data: CCV

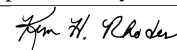
Analyte	Mean Corrected		Calib.		Sample Conc. Units	Std.Dev.	RSD
	Intensity	Conc. Units	Conc. Units	Std.Dev.			
Y 371.029	2355238.3					10203.06	0.43%
YRADIAL	295438.1					707.93	0.24%
Ga 417.206	1326226.5					8250.79	0.62%
GaRADIAL	82562.1					369.50	0.45%
Ag 328.068†	125469.0	0.405 mg/L		0.0044	0.405 mg/L	0.0044	1.08%
QC value within limits for Ag			328.068	Recovery = 101.28%			
Al 396.153†	68557.9	10.1 mg/L		0.05	10.1 mg/L	0.05	0.52%
QC value within limits for Al			396.153	Recovery = 101.36%			
As 188.979†	1384.5	0.390 mg/L		0.0039	0.390 mg/L	0.0039	1.00%
QC value within limits for As			188.979	Recovery = 97.52%			
Ba 233.527†	171145.8	1.03 mg/L		0.007	1.03 mg/L	0.007	0.64%
QC value within limits for Ba			233.527	Recovery = 103.19%			
Be 234.861†	58898.5	0.0497 mg/L		0.00057	0.0497 mg/L	0.00057	1.14%
QC value within limits for Be			234.861	Recovery = 99.38%			
B 249.677†	53419.7	0.489 mg/L		0.0088	0.489 mg/L	0.0088	1.79%
QC value within limits for B			249.677	Recovery = 97.71%			
Ca 227.546†	4424.4	10.4 mg/L		0.11	10.4 mg/L	0.11	1.08%
QC value within limits for Ca			227.546	Recovery = 104.15%			
Cd 228.802†	2756.9	0.0497 mg/L		0.00123	0.0497 mg/L	0.00123	2.47%
QC value within limits for Cd			228.802	Recovery = 99.35%			
Co 228.616†	9013.0	0.206 mg/L		0.0010	0.206 mg/L	0.0010	0.51%
QC value within limits for Co			228.616	Recovery = 102.76%			
Cr 267.716†	63602.6	0.516 mg/L		0.0043	0.516 mg/L	0.0043	0.83%
QC value within limits for Cr			267.716	Recovery = 103.18%			
Cu 327.393†	126599.6	0.501 mg/L		0.0060	0.501 mg/L	0.0060	1.20%
QC value within limits for Cu			327.393	Recovery = 100.29%			
Fe 239.562†	59809.6	4.09 mg/L		0.007	4.09 mg/L	0.007	0.17%
QC value within limits for Fe			239.562	Recovery = 102.29%			
Mg 279.077†	34053.9	10.3 mg/L		0.03	10.3 mg/L	0.03	0.30%
QC value within limits for Mg			279.077	Recovery = 102.60%			
Mn 257.610†	414424.5	0.513 mg/L		0.0044	0.513 mg/L	0.0044	0.85%
QC value within limits for Mn			257.610	Recovery = 102.63%			
Mo 202.031†	37898.7	1.02 mg/L		0.003	1.02 mg/L	0.003	0.29%
QC value within limits for Mo			202.031	Recovery = 102.21%			
Ni 231.604†	36555.7	0.529 mg/L		0.0025	0.529 mg/L	0.0025	0.47%
QC value within limits for Ni			231.604	Recovery = 105.76%			
Pb 220.353†	7089.9	0.522 mg/L		0.0021	0.522 mg/L	0.0021	0.41%
QC value within limits for Pb			220.353	Recovery = 104.40%			
Sb 206.836†	5551.8	1.19 mg/L		0.016	1.19 mg/L	0.016	1.31%
QC value within limits for Sb			206.836	Recovery = 99.47%			
Se 196.026†	804.9	0.397 mg/L		0.0035	0.397 mg/L	0.0035	0.88%
QC value within limits for Se			196.026	Recovery = 99.19%			
Si 251.611†	252408.0	4.98 mg/L		0.033	4.98 mg/L	0.033	0.65%
QC value within limits for Si			251.611	Recovery = 99.54%			
Sn 189.927†	12807.2	1.05 mg/L		0.003	1.05 mg/L	0.003	0.33%
QC value within limits for Sn			189.927	Recovery = 104.52%			
Ti 334.940†	1052741.4	1.02 mg/L		0.006	1.02 mg/L	0.006	0.59%
QC value within limits for Ti			334.940	Recovery = 101.66%			
Tl 190.801†	2083.3	0.544 mg/L		0.0051	0.544 mg/L	0.0051	0.94%
QC value within limits for Tl			190.801	Recovery = 108.72%			
V 290.880†	250473.3	1.02 mg/L		0.008	1.02 mg/L	0.008	0.80%
QC value within limits for V			290.880	Recovery = 102.22%			
Zn 206.200†	58901.9	1.04 mg/L		0.006	1.04 mg/L	0.006	0.60%
QC value within limits for Zn			206.200	Recovery = 103.55%			
K 766.490†	152719.4	50.8 mg/L		0.66	50.8 mg/L	0.66	1.29%
QC value within limits for K			766.490	Recovery = 101.52%			
Na 589.592†	1009534.4	50.7 mg/L		0.37	50.7 mg/L	0.37	0.72%
QC value within limits for Na			589.592	Recovery = 101.50%			
Sr 407.771†	2566368.7	0.993 mg/L		0.0061	0.993 mg/L	0.0061	0.62%
QC value within limits for Sr			407.771	Recovery = 99.27%			
Li 670.784†	153443.3	1.02 mg/L		0.009	1.02 mg/L	0.009	0.90%
QC value within limits for Li			670.784	Recovery = 102.48%			

All analyte(s) passed QC.

Sequence No.: 25
Sample ID: CCB
Analyst:
Initial Sample Wt:

Sampler Location: 1
Date Collected: 7/26/2012 9:53:52 PM
Data Type: Original
Initial Sample Vol:

Approved: July 27, 2012



Dilution:

Sample Prep Vol:

Nebulizer Parameters: CCB

Analyte	Back Pressure	Flow
All	164.0 kPa	0.00 L/min

Mean Data: CCB

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 371.029	2463291.7				40092.96	1.63%
YRADIAL	297624.2				4208.60	1.41%
Ga 417.206	1379420.5				22428.02	1.63%
GaRADIAL	84207.7				1067.26	1.27%
Ag 328.068†	-19.4	0.00044 mg/L	0.000165	0.00044 mg/L	0.000165	37.55%
QC value within limits for Ag						
Al 396.153†	9.6	-0.00016 mg/L	0.001342	-0.00016 mg/L	0.001342	846.12%
QC value within limits for Al						
As 188.979†	0.8	-0.00120 mg/L	0.001787	-0.00120 mg/L	0.001787	148.78%
QC value within limits for As						
Ba 233.527†	24.5	-0.00166 mg/L	0.000091	-0.00166 mg/L	0.000091	5.49%
QC value within limits for Ba						
Be 234.861†	69.3	0.00011 mg/L	0.000021	0.00011 mg/L	0.000021	19.67%
QC value within limits for Be						
B 249.677†	86.9	0.00179 mg/L	0.000277	0.00179 mg/L	0.000277	15.45%
QC value within limits for B						
Ca 227.546†	2.5	0.0502 mg/L	0.02565	0.0502 mg/L	0.02565	51.13%
QC value within limits for Ca						
Cd 228.802†	1.5	0.00002 mg/L	0.000152	0.00002 mg/L	0.000152	734.10%
QC value within limits for Cd						
Co 228.616†	0.4	-0.00018 mg/L	0.000162	-0.00018 mg/L	0.000162	91.03%
QC value within limits for Co						
Cr 267.716†	12.4	-0.00043 mg/L	0.000136	-0.00043 mg/L	0.000136	31.70%
QC value within limits for Cr						
Cu 327.393†	14.9	0.00048 mg/L	0.000422	0.00048 mg/L	0.000422	88.80%
QC value within limits for Cu						
Fe 239.562†	17.4	0.00595 mg/L	0.000666	0.00595 mg/L	0.000666	11.19%
QC value within limits for Fe						
Mg 279.077†	-5.0	0.0279 mg/L	0.00712	0.0279 mg/L	0.00712	25.53%
QC value within limits for Mg						
Mn 257.610†	75.1	-0.00072 mg/L	0.000004	-0.00072 mg/L	0.000004	0.53%
QC value within limits for Mn						
Mo 202.031†	12.2	-0.00054 mg/L	0.000220	-0.00054 mg/L	0.000220	41.07%
QC value within limits for Mo						
Ni 231.604†	21.9	-0.00267 mg/L	0.000180	-0.00267 mg/L	0.000180	6.72%
QC value within limits for Ni						
Pb 220.353†	-11.7	-0.00128 mg/L	0.001262	-0.00128 mg/L	0.001262	98.95%
QC value within limits for Pb						
Sb 206.836†	-0.3	0.00079 mg/L	0.000108	0.00079 mg/L	0.000108	13.66%
QC value within limits for Sb						
Se 196.026†	-3.2	0.00015 mg/L	0.002850	0.00015 mg/L	0.002850	>999.9%
QC value within limits for Se						
Si 251.611†	385.5	0.00457 mg/L	0.000364	0.00457 mg/L	0.000364	7.97%
QC value within limits for Si						
Sn 189.927†	17.0	-0.00009 mg/L	0.000415	-0.00009 mg/L	0.000415	488.16%
QC value within limits for Sn						
Ti 334.940†	185.6	0.00026 mg/L	0.000093	0.00026 mg/L	0.000093	35.46%
QC value within limits for Ti						
Tl 190.801†	-6.4	-0.00398 mg/L	0.002111	-0.00398 mg/L	0.002111	53.02%
QC value within limits for Tl						
V 290.880†	361.4	0.00067 mg/L	0.000969	0.00067 mg/L	0.000969	144.58%
QC value within limits for V						
Zn 206.200†	10.5	-0.00112 mg/L	0.000182	-0.00112 mg/L	0.000182	16.18%
QC value within limits for Zn						
K 766.490†	30.3	-0.0556 mg/L	0.01363	-0.0556 mg/L	0.01363	24.50%
QC value within limits for K						
Na 589.592†	177.0	0.0107 mg/L	0.00812	0.0107 mg/L	0.00812	75.85%
QC value within limits for Na						
Sr 407.771†	436.7	-0.00026 mg/L	0.000028	-0.00026 mg/L	0.000028	10.69%
QC value within limits for Sr						
Li 670.784†	109.2	-0.00277 mg/L	0.000191	-0.00277 mg/L	0.000191	6.88%

Approved: July 27, 2012

Ann H. Rhodes

QC value within limits for Li 670.784 Recovery = Not calculated
All analyte(s) passed QC.

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Sequence No.: 26                                     u&osampler Location: 90
Sample ID: L1207075316S WG404522-07              a&e Collected: 7/26/2012 10:00:57 PM
Analyst: KHR                                       a&a Type: Original
Initial Sample Wt:                               nitial Sample Vol:
Dilution:                                       a&e Sample Prep Vol:
=====
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Nebulizer Parameters: L1207075316S WG404522-07
Analyte          Back Pressure      Flow
All              164.0 kPa           0.00 L/min
=====
```

Mean Data: L1207075316S WG404522-07

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	2347007.7						20050.11	0.85%
YRADIAL	295690.3						2405.63	0.81%
Ga 417.206	1377117.4						20352.16	1.48%
GaRADIAL	83028.7						857.47	1.03%
Ag 328.068†	62596.6	0.203	mg/L	0.0042	0.203	mg/L	0.0042	2.05%
Al 396.153†	34880.3	5.16	mg/L	0.021	5.16	mg/L	0.021	0.41%
As 188.979†	669.8	0.188	mg/L	0.0023	0.188	mg/L	0.0023	1.22%
Ba 233.527†	90788.0	0.546	mg/L	0.0034	0.546	mg/L	0.0034	0.62%
Be 234.861†	29334.9	0.0245	mg/L	0.00042	0.0245	mg/L	0.00042	1.71%
B 249.677†	107922.0	0.992	mg/L	0.0262	0.992	mg/L	0.0262	2.64%
Ca 227.546†	11626.5	26.3	mg/L	0.61	26.3	mg/L	0.61	2.33%
Cd 228.802†	1335.7	0.0241	mg/L	0.00095	0.0241	mg/L	0.00095	3.94%
Co 228.616†	4543.1	0.103	mg/L	0.0008	0.103	mg/L	0.0008	0.79%
Cr 267.716†	32453.4	0.263	mg/L	0.0012	0.263	mg/L	0.0012	0.44%
Cu 327.393†	62990.9	0.250	mg/L	0.0046	0.250	mg/L	0.0046	1.82%
Fe 239.562†	44978.7	3.08	mg/L	0.026	3.08	mg/L	0.026	0.84%
Mg 279.077†	27061.2	8.15	mg/L	0.084	8.15	mg/L	0.084	1.03%
Mn 257.610†	252351.7	0.312	mg/L	0.0033	0.312	mg/L	0.0033	1.04%
Mo 202.031†	19315.5	0.521	mg/L	0.0017	0.521	mg/L	0.0017	0.34%
Ni 231.604†	17937.9	0.258	mg/L	0.0017	0.258	mg/L	0.0017	0.65%
Pb 220.353†	3601.0	0.265	mg/L	0.0024	0.265	mg/L	0.0024	0.91%
Sb 206.836†	2717.0	0.585	mg/L	0.0133	0.585	mg/L	0.0133	2.28%
Se 196.026†	402.9	0.200	mg/L	0.0067	0.200	mg/L	0.0067	3.33%
Si 251.611†	568012.9	11.2	mg/L	0.19	11.2	mg/L	0.19	1.66%
Sn 189.927†	6707.2	0.547	mg/L	0.0036	0.547	mg/L	0.0036	0.66%
Ti 334.940†	529384.6	0.514	mg/L	0.0010	0.514	mg/L	0.0010	0.19%
Tl 190.801†	1055.7	0.274	mg/L	0.0056	0.274	mg/L	0.0056	2.02%
V 290.880†	130443.4	0.532	mg/L	0.0026	0.532	mg/L	0.0026	0.49%
Zn 206.200†	36280.9	0.637	mg/L	0.0062	0.637	mg/L	0.0062	0.97%
K 766.490†	80923.3	26.9	mg/L	0.02	26.9	mg/L	0.02	0.07%
Na 589.592†	734630.2	36.7	mg/L	0.32	36.7	mg/L	0.32	0.86%
Sr 407.771†	1697062.7	0.656	mg/L	0.0027	0.656	mg/L	0.0027	0.41%
Li 670.784†	79256.6	0.528	mg/L	0.0037	0.528	mg/L	0.0037	0.70%

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=====
Sequence No.: 27                                     u&osampler Location: 91
Sample ID: L1207075317SD WG404522-08            a&e Collected: 7/26/2012 10:07:09 PM
Analyst: KHR                                       a&a Type: Original
Initial Sample Wt:                               nitial Sample Vol:
Dilution:                                       a&e Sample Prep Vol:
=====
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Nebulizer Parameters: L1207075317SD WG404522-08
Analyte          Back Pressure      Flow
All              164.0 kPa           0.00 L/min
=====
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Mean Data: L1207075317SD WG404522-08

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	2359192.1						20550.49	0.87%
YRADIAL	296198.4						5099.36	1.72%
Ga 417.206	1409249.3						19364.95	1.37%

Approved: July 27, 2012

Ken H. Rhodes

GaRADIAL	83653.1				1776.00	2.12%
Ag 328.068†	61612.1	0.200 mg/L	0.0029	0.200 mg/L	0.0029	1.47%
Al 396.153†	34676.0	5.13 mg/L	0.024	5.13 mg/L	0.024	0.48%
As 188.979†	664.7	0.187 mg/L	0.0025	0.187 mg/L	0.0025	1.36%
Ba 233.527†	90501.9	0.545 mg/L	0.0034	0.545 mg/L	0.0034	0.63%
Be 234.861†	28579.3	0.0239 mg/L	0.00013	0.0239 mg/L	0.00013	0.53%
B 249.677†	106637.1	0.980 mg/L	0.0114	0.980 mg/L	0.0114	1.17%
Ca 227.546†	11814.5	26.7 mg/L	0.32	26.7 mg/L	0.32	1.20%
Cd 228.802†	1318.1	0.0238 mg/L	0.00067	0.0238 mg/L	0.00067	2.80%
Co 228.616†	4554.8	0.104 mg/L	0.0013	0.104 mg/L	0.0013	1.28%
Cr 267.716†	32337.0	0.262 mg/L	0.0016	0.262 mg/L	0.0016	0.59%
Cu 327.393†	62442.0	0.248 mg/L	0.0033	0.248 mg/L	0.0033	1.32%
Fe 239.562†	43754.8	2.99 mg/L	0.016	2.99 mg/L	0.016	0.55%
Mg 279.077†	27405.7	8.26 mg/L	0.097	8.26 mg/L	0.097	1.17%
Mn 257.610†	251112.6	0.311 mg/L	0.0034	0.311 mg/L	0.0034	1.11%
Mo 202.031†	19280.3	0.520 mg/L	0.0040	0.520 mg/L	0.0040	0.78%
Ni 231.604†	17909.5	0.258 mg/L	0.0026	0.258 mg/L	0.0026	1.01%
Pb 220.353†	3620.5	0.266 mg/L	0.0026	0.266 mg/L	0.0026	0.96%
Sb 206.836†	2668.1	0.574 mg/L	0.0084	0.574 mg/L	0.0084	1.46%
Se 196.026†	385.9	0.191 mg/L	0.0009	0.191 mg/L	0.0009	0.49%
Si 251.611†	565330.2	11.2 mg/L	0.10	11.2 mg/L	0.10	0.92%
Sn 189.927†	6655.3	0.542 mg/L	0.0079	0.542 mg/L	0.0079	1.46%
Ti 334.940†	531374.1	0.516 mg/L	0.0039	0.516 mg/L	0.0039	0.75%
Tl 190.801†	1079.2	0.280 mg/L	0.0013	0.280 mg/L	0.0013	0.45%
V 290.880†	130329.5	0.531 mg/L	0.0022	0.531 mg/L	0.0022	0.42%
Zn 206.200†	29724.4	0.522 mg/L	0.0029	0.522 mg/L	0.0029	0.56%
K 766.490†	81816.2	27.2 mg/L	0.04	27.2 mg/L	0.04	0.13%
Na 589.592†	703293.2	35.1 mg/L	0.96	35.1 mg/L	0.96	2.72%
Sr 407.771†	1678792.7	0.649 mg/L	0.0186	0.649 mg/L	0.0186	2.87%
Li 670.784†	79828.4	0.531 mg/L	0.0002	0.531 mg/L	0.0002	0.04%

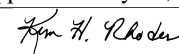
Sequence No.: 28
 Sample ID: L1207075318
 Analyst: KHR
 Initial Sample Wt:
 Dilution:

u&osampler Location: 92
 a&e Collected: 7/26/2012 10:13:21 PM
 a&A Type: Original
 nitial Sample Vol:
 a&mple Prep Vol:

Nebulizer Parameters: L1207075318
 Analyte Back Pressure Flow
 All 164.0 kPa 0.00 L/min

Mean Data: L1207075318

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 371.029	2407260.0					38915.00	1.62%
YRADIAL	296119.0					2329.77	0.79%
Ga 417.206	1446943.6					39109.12	2.70%
GaRADIAL	85353.4					1113.41	1.30%
Ag 328.068†	273.7	0.00207	mg/L	0.000170	0.00207	0.000170	8.21%
Al 396.153†	84.1	0.0110	mg/L	0.00454	0.0110	0.00454	41.29%
As 188.979†	-4.7	-0.00235	mg/L	0.001326	-0.00235	0.001326	56.44%
Ba 233.527†	3308.1	0.0181	mg/L	0.00009	0.0181	0.00009	0.49%
Be 234.861†	841.0	0.00035	mg/L	0.000084	0.00035	0.000084	23.95%
B 249.677†	3492.3	0.0323	mg/L	0.00099	0.0323	0.00099	3.06%
Ca 227.546†	25125.3	56.2	mg/L	2.26	56.2	2.26	4.02%
Cd 228.802†	8.4	0.00015	mg/L	0.000072	0.00015	0.000072	47.10%
Co 228.616†	4.7	-0.00011	mg/L	0.000193	-0.00011	0.000193	178.38%
Cr 267.716†	64.5	-0.00007	mg/L	0.000041	-0.00007	0.000041	56.08%
Cu 327.393†	122.5	0.00098	mg/L	0.000458	0.00098	0.000458	46.66%
Fe 239.562†	27005.3	1.85	mg/L	0.012	1.85	0.012	0.63%
Mg 279.077†	15361.5	4.64	mg/L	0.038	4.64	0.038	0.83%
Mn 257.610†	117329.1	0.145	mg/L	0.0034	0.145	0.0034	2.33%
Mo 202.031†	95.4	0.00183	mg/L	0.000008	0.00183	0.000008	0.41%
Ni 231.604†	83.3	-0.00178	mg/L	0.000592	-0.00178	0.000592	33.31%
Pb 220.353†	13.2	0.00076	mg/L	0.001007	0.00076	0.001007	132.10%
Sb 206.836†	-6.1	-0.00039	mg/L	0.000048	-0.00039	0.000048	12.37%
Se 196.026†	-3.3	0.00037	mg/L	0.003687	0.00037	0.003687	988.89%
Si 251.611†	616530.1	12.2	mg/L	0.25	12.2	0.25	2.09%
Sn 189.927†	-251.9	-0.0221	mg/L	0.00129	-0.0221	0.00129	5.83%

Approved: July 27, 2012


Element	Concentration	Unit	Standard	Unit	Concentration	Unit	Concentration	Unit
Ti 334.940†	-8881.6	mg/L	0.000006	mg/L	0.000851	-0.000006	mg/L	0.000851 >999.9%
Tl 190.801†	-22.4	mg/L	-0.00832	mg/L	0.001626	-0.00832	mg/L	0.001626 19.54%
V 290.880†	1124.3	mg/L	0.00357	mg/L	0.001153	0.00357	mg/L	0.001153 32.32%
Zn 206.200†	173.5	mg/L	0.00170	mg/L	0.000299	0.00170	mg/L	0.000299 17.55%
K 766.490†	5580.0	mg/L	1.78	mg/L	0.034	1.78	mg/L	0.034 1.92%
Na 589.592†	197128.3	mg/L	9.73	mg/L	0.163	9.73	mg/L	0.163 1.67%
Sr 407.771†	774654.7	mg/L	0.298	mg/L	0.0029	0.298	mg/L	0.0029 0.96%
Li 670.784†	789.6	mg/L	0.00179	mg/L	0.000499	0.00179	mg/L	0.000499 27.91%

Sequence No.: 29
Sample ID: L1207075319
Analyst: KHR
Initial Sample Wt:
Dilution:

u@sampler Location: 93
a@e Collected: 7/26/2012 10:19:33 PM
a@a Type: Original
n@tial Sample Vol:
a@mple Prep Vol:

Nebulizer Parameters: L1207075319
Analyte Back Pressure Flow
All 164.0 kPa 0.00 L/min

Mean Data: L1207075319

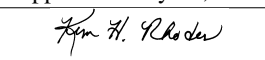
Analyte	Mean Corrected		Calib.		Sample		Std.Dev.	RSD
	Intensity	Conc. Units	Conc. Units	Std.Dev.	Conc. Units			
Y 371.029	2442913.6					13657.14	0.56%	
YRADIAL	298187.9					3811.24	1.28%	
Ga 417.206	1448609.5					16118.03	1.11%	
GaRADIAL	84570.5					729.89	0.86%	
Ag 328.068†	-338.3	0.00107 mg/L	0.000470		0.00107 mg/L	0.000470	43.87%	
Al 396.153†	136.2	0.0191 mg/L	0.00211		0.0191 mg/L	0.00211	11.01%	
As 188.979†	6.3	0.00136 mg/L	0.002143		0.00136 mg/L	0.002143	158.00%	
Ba 233.527†	5201.9	0.0294 mg/L	0.00023		0.0294 mg/L	0.00023	0.79%	
Be 234.861†	1753.6	0.00060 mg/L	0.000085		0.00060 mg/L	0.000085	14.14%	
B 249.677†	2084.7	0.0184 mg/L	0.00059		0.0184 mg/L	0.00059	3.20%	
Ca 227.546†	7001.2	15.8 mg/L	0.49		15.8 mg/L	0.49	3.13%	
Cd 228.802†	7.3	0.00011 mg/L	0.000113		0.00011 mg/L	0.000113	98.22%	
Co 228.616†	10.4	-0.00006 mg/L	0.000249		-0.00006 mg/L	0.000249	426.53%	
Cr 267.716†	51.4	-0.00026 mg/L	0.000064		-0.00026 mg/L	0.000064	24.59%	
Cu 327.393†	108.3	0.00104 mg/L	0.000225		0.00104 mg/L	0.000225	21.62%	
Fe 239.562†	59269.7	4.06 mg/L	0.058		4.06 mg/L	0.058	1.43%	
Mg 279.077†	5768.0	1.76 mg/L	0.003		1.76 mg/L	0.003	0.17%	
Mn 257.610†	33812.8	0.0411 mg/L	0.00021		0.0411 mg/L	0.00021	0.51%	
Mo 202.031†	26.4	0.00005 mg/L	0.000204		0.00005 mg/L	0.000204	381.70%	
Ni 231.604†	61.3	-0.00210 mg/L	0.000358		-0.00210 mg/L	0.000358	17.05%	
Pb 220.353†	-8.2	-0.00126 mg/L	0.000990		-0.00126 mg/L	0.000990	78.44%	
Sb 206.836†	-8.1	-0.00075 mg/L	0.000551		-0.00075 mg/L	0.000551	73.79%	
Se 196.026†	-9.1	-0.00211 mg/L	0.001694		-0.00211 mg/L	0.001694	80.11%	
Si 251.611†	566549.7	11.2 mg/L	0.08		11.2 mg/L	0.08	0.74%	
Sr 407.771†	774654.7	0.298 mg/L	0.0029		0.298 mg/L	0.0029	0.96%	
Sn 189.927†	-142.4	-0.0131 mg/L	0.00010		-0.0131 mg/L	0.00010	0.77%	
Ti 334.940†	-2123.3	0.00038 mg/L	0.000064		0.00038 mg/L	0.000064	16.73%	
Tl 190.801†	-8.7	-0.00464 mg/L	0.000647		-0.00464 mg/L	0.000647	13.94%	
V 290.880†	1162.0	0.00367 mg/L	0.001410		0.00367 mg/L	0.001410	38.37%	
Zn 206.200†	184.8	0.00186 mg/L	0.000189		0.00186 mg/L	0.000189	10.16%	
K 766.490†	3556.1	1.11 mg/L	0.022		1.11 mg/L	0.022	1.97%	
Na 589.592†	147960.9	7.29 mg/L	0.032		7.29 mg/L	0.032	0.44%	
Sr 407.771†	251836.3	0.0967 mg/L	0.00037		0.0967 mg/L	0.00037	0.38%	
Li 670.784†	620.6	0.00066 mg/L	0.000198		0.00066 mg/L	0.000198	30.19%	

Sequence No.: 30
Sample ID: L1207075320
Analyst: KHR
Initial Sample Wt:
Dilution:

u@sampler Location: 94
a@e Collected: 7/26/2012 10:25:45 PM
a@a Type: Original
n@tial Sample Vol:
a@mple Prep Vol:

Nebulizer Parameters: L1207075320
Analyte Back Pressure Flow
All 164.0 kPa 0.00 L/min

Approved: July 27, 2012



Mean Data: L1207075320

Analyte	Mean Corrected		Calib.		Sample		Std.Dev.	RSD
	Intensity	Conc.	Units	Std.Dev.	Conc.	Units		
Y 371.029	2423843.1						42785.20	1.77%
YRADIAL	297614.0						3206.53	1.08%
Ga 417.206	1474304.8						34916.76	2.37%
GaRADIAL	85428.1						94.75	0.11%
Ag 328.068†	-26.3	0.00167	mg/L	0.000176	0.00167	mg/L	0.000176	10.53%
Al 396.153†	109.9	0.0151	mg/L	0.00432	0.0151	mg/L	0.00432	28.65%
As 188.979†	-0.6	-0.00084	mg/L	0.000480	-0.00084	mg/L	0.000480	57.06%
Ba 233.527†	5880.0	0.0335	mg/L	0.00052	0.0335	mg/L	0.00052	1.56%
Be 234.861†	1141.8	0.00029	mg/L	0.000041	0.00029	mg/L	0.000041	14.34%
B 249.677†	2490.7	0.0225	mg/L	0.00054	0.0225	mg/L	0.00054	2.41%
Ca 227.546†	18477.8	41.4	mg/L	1.16	41.4	mg/L	1.16	2.80%
Cd 228.802†	12.2	0.00022	mg/L	0.000139	0.00022	mg/L	0.000139	64.20%
Co 228.616†	-3.1	-0.00034	mg/L	0.000167	-0.00034	mg/L	0.000167	49.56%
Cr 267.716†	90.0	0.00008	mg/L	0.000170	0.00008	mg/L	0.000170	201.19%
Cu 327.393†	31.3	0.00069	mg/L	0.000285	0.00069	mg/L	0.000285	41.46%
Fe 239.562†	46296.8	3.17	mg/L	0.066	3.17	mg/L	0.066	2.07%
Mg 279.077†	13395.4	4.05	mg/L	0.052	4.05	mg/L	0.052	1.28%
Mn 257.610†	34744.5	0.0422	mg/L	0.00080	0.0422	mg/L	0.00080	1.88%
Mo 202.031†	57.0	0.00084	mg/L	0.000072	0.00084	mg/L	0.000072	8.63%
Ni 231.604†	54.2	-0.00220	mg/L	0.000294	-0.00220	mg/L	0.000294	13.39%
Pb 220.353†	5.7	0.00004	mg/L	0.000638	0.00004	mg/L	0.000638	>999.9%
Sb 206.836†	-11.0	-0.00140	mg/L	0.000802	-0.00140	mg/L	0.000802	57.27%
Se 196.026†	-6.9	-0.00117	mg/L	0.002410	-0.00117	mg/L	0.002410	205.41%
Si 251.611†	820578.5	16.2	mg/L	0.22	16.2	mg/L	0.22	1.36%
Sn 189.927†	-233.8	-0.0206	mg/L	0.00052	-0.0206	mg/L	0.00052	2.55%
Ti 334.940†	-6065.1	0.00043	mg/L	0.000244	0.00043	mg/L	0.000244	57.09%
Tl 190.801†	-21.8	-0.00803	mg/L	0.002166	-0.00803	mg/L	0.002166	26.99%
V 290.880†	942.6	0.00277	mg/L	0.000476	0.00277	mg/L	0.000476	17.19%
Zn 206.200†	101.9	0.00042	mg/L	0.000129	0.00042	mg/L	0.000129	30.38%
K 766.490†	5224.1	1.66	mg/L	0.023	1.66	mg/L	0.023	1.39%
Na 589.592†	216309.7	10.7	mg/L	0.11	10.7	mg/L	0.11	1.05%
Sr 407.771†	600586.8	0.231	mg/L	0.0013	0.231	mg/L	0.0013	0.56%
Li 670.784†	1627.6	0.00740	mg/L	0.000543	0.00740	mg/L	0.000543	7.33%

Sequence No.: 31
 Sample ID: CCV
 Analyst:
 Initial Sample Wt:
 Dilution:

u&osampler Location: 6
 a&e Collected: 7/26/2012 10:31:57 PM
 a&a Type: Original
 nitial Sample Vol:
 a&ple Prep Vol:

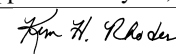
Nebulizer Parameters: CCV

Analyte	Back Pressure	Flow
All	164.0 kPa	0.00 L/min

Mean Data: CCV

Analyte	Mean Corrected		Calib.		Sample		Std.Dev.	RSD
	Intensity	Conc.	Units	Std.Dev.	Conc.	Units		
Y 371.029	2346070.9						3415.68	0.15%
YRADIAL	293471.0						1285.86	0.44%
Ga 417.206	1350192.0						32717.62	2.42%
GaRADIAL	82696.9						635.66	0.77%
Ag 328.068†	122834.3	0.397	mg/L	0.0110	0.397	mg/L	0.0110	2.77%
QC value within limits for Ag 328.068				Recovery = 99.17%				
Al 396.153†	67937.5	10.0	mg/L	0.02	10.0	mg/L	0.02	0.22%
QC value within limits for Al 396.153				Recovery = 100.44%				
As 188.979†	1359.3	0.383	mg/L	0.0103	0.383	mg/L	0.0103	2.70%
QC value within limits for As 188.979				Recovery = 95.71%				
Ba 233.527†	171328.5	1.03	mg/L	0.002	1.03	mg/L	0.002	0.15%
QC value within limits for Ba 233.527				Recovery = 103.30%				
Be 234.861†	57719.8	0.0487	mg/L	0.00133	0.0487	mg/L	0.00133	2.74%
QC value within limits for Be 234.861				Recovery = 97.39%				
B 249.677†	52238.6	0.478	mg/L	0.0154	0.478	mg/L	0.0154	3.22%
QC value within limits for B 249.677				Recovery = 95.55%				
Ca 227.546†	4349.5	10.2	mg/L	0.31	10.2	mg/L	0.31	3.03%
QC value within limits for Ca 227.546				Recovery = 102.47%				
Cd 228.802†	2708.1	0.0488	mg/L	0.00222	0.0488	mg/L	0.00222	4.56%

Approved: July 27, 2012



Co	QC value within limits for Co 228.616†	9048.4	0.206 mg/L	0.0005	0.206 mg/L	0.0005	0.26%
Cr	QC value within limits for Cr 267.716†	63243.0	0.513 mg/L	0.0036	0.513 mg/L	0.0036	0.70%
Cu	QC value within limits for Cu 327.393†	123866.0	0.491 mg/L	0.0113	0.491 mg/L	0.0113	2.29%
Fe	QC value within limits for Fe 239.562†	59113.5	4.04 mg/L	0.015	4.04 mg/L	0.015	0.36%
Mg	QC value within limits for Mg 279.077†	33821.1	10.2 mg/L	0.06	10.2 mg/L	0.06	0.62%
Mn	QC value within limits for Mn 257.610†	414994.5	0.514 mg/L	0.0018	0.514 mg/L	0.0018	0.35%
Mo	QC value within limits for Mo 202.031†	37830.9	1.02 mg/L	0.007	1.02 mg/L	0.007	0.68%
Ni	QC value within limits for Ni 231.604†	36596.4	0.529 mg/L	0.0018	0.529 mg/L	0.0018	0.33%
Pb	QC value within limits for Pb 220.353†	7099.2	0.523 mg/L	0.0014	0.523 mg/L	0.0014	0.26%
Sb	QC value within limits for Sb 206.836†	5450.1	1.17 mg/L	0.039	1.17 mg/L	0.039	3.29%
Se	QC value within limits for Se 196.026†	791.8	0.390 mg/L	0.0148	0.390 mg/L	0.0148	3.80%
Si	QC value within limits for Si 251.611†	248059.4	4.89 mg/L	0.084	4.89 mg/L	0.084	1.71%
Sn	QC value within limits for Sn 189.927†	12828.2	1.05 mg/L	0.005	1.05 mg/L	0.005	0.46%
Ti	QC value within limits for Ti 334.940†	1054108.0	1.02 mg/L	0.003	1.02 mg/L	0.003	0.30%
Tl	QC value within limits for Tl 190.801†	2082.1	0.543 mg/L	0.0018	0.543 mg/L	0.0018	0.34%
V	QC value within limits for V 290.880†	250946.5	1.02 mg/L	0.006	1.02 mg/L	0.006	0.58%
Zn	QC value within limits for Zn 206.200†	58932.6	1.04 mg/L	0.015	1.04 mg/L	0.015	1.48%
K	QC value within limits for K 766.490†	151803.7	50.5 mg/L	0.42	50.5 mg/L	0.42	0.84%
Na	QC value within limits for Na 589.592†	1008217.2	50.7 mg/L	0.39	50.7 mg/L	0.39	0.77%
Sr	QC value within limits for Sr 407.771†	2584607.9	1.000 mg/L	0.0118	1.000 mg/L	0.0118	1.18%
Li	QC value within limits for Li 670.784†	152428.1	1.02 mg/L	0.009	1.02 mg/L	0.009	0.84%

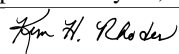
All analyte(s) passed QC.

Sequence No.: 32 u&osampler Location: 1
 Sample ID: CCB a&e Collected: 7/26/2012 10:38:11 PM
 Analyst: a&a Type: Original
 Initial Sample Wt: nitial Sample Vol:
 Dilution: a&mple Prep Vol:

Nebulizer Parameters: CCB
 Analyte Back Pressure Flow
 All 164.0 kPa 0.00 L/min

Mean Data: CCB

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 371.029	2334008.2				14648.74	0.63%
YRADIAL	283490.7				4367.11	1.54%
Ga 417.206	1217231.7				14635.12	1.20%
GaRADIAL	81048.7				1472.32	1.82%
Ag 328.068†	-11.1	0.00047 mg/L	0.000178	0.00047 mg/L	0.000178	37.62%
QC value within limits for Ag 328.068						Recovery = Not calculated
Al 396.153†	15.2	0.00065 mg/L	0.001765	0.00065 mg/L	0.001765	272.85%
QC value within limits for Al 396.153						Recovery = Not calculated
As 188.979†	-0.9	-0.00170 mg/L	0.000951	-0.00170 mg/L	0.000951	56.07%
QC value within limits for As 188.979						Recovery = Not calculated
Ba 233.527†	26.7	-0.00165 mg/L	0.000025	-0.00165 mg/L	0.000025	1.51%

Approved: July 27, 2012


Be	234.861†	QC value within limits for Ba 233.527	Recovery = Not calculated				
B	249.677†	QC value within limits for Be 234.861	Recovery = Not calculated				
Ca	227.546†	QC value within limits for B 249.677	Recovery = Not calculated				
Cd	228.802†	QC value within limits for Ca 227.546	Recovery = Not calculated				
Co	228.616†	QC value within limits for Cd 228.802	Recovery = Not calculated				
Cr	267.716†	QC value within limits for Co 228.616	Recovery = Not calculated				
Cu	327.393†	QC value within limits for Cr 267.716	Recovery = Not calculated				
Fe	239.562†	QC value within limits for Cu 327.393	Recovery = Not calculated				
Mg	279.077†	QC value within limits for Fe 239.562	Recovery = Not calculated				
Mn	257.610†	QC value within limits for Mg 279.077	Recovery = Not calculated				
Mo	202.031†	QC value within limits for Mn 257.610	Recovery = Not calculated				
Ni	231.604†	QC value within limits for Mo 202.031	Recovery = Not calculated				
Pb	220.353†	QC value within limits for Ni 231.604	Recovery = Not calculated				
Sb	206.836†	QC value within limits for Pb 220.353	Recovery = Not calculated				
Se	196.026†	QC value within limits for Sb 206.836	Recovery = Not calculated				
Si	251.611†	QC value within limits for Se 196.026	Recovery = Not calculated				
Sn	189.927†	QC value within limits for Si 251.611	Recovery = Not calculated				
Ti	334.940†	QC value within limits for Sn 189.927	Recovery = Not calculated				
Tl	190.801†	QC value within limits for Ti 334.940	Recovery = Not calculated				
V	290.880†	QC value within limits for Tl 190.801	Recovery = Not calculated				
Zn	206.200†	QC value within limits for V 290.880	Recovery = Not calculated				
K	766.490†	QC value within limits for Zn 206.200	Recovery = Not calculated				
Na	589.592†	QC value within limits for K 766.490	Recovery = Not calculated				
Sr	407.771†	QC value within limits for Na 589.592	Recovery = Not calculated				
Li	670.784†	QC value within limits for Sr 407.771	Recovery = Not calculated				
		QC value within limits for Li 670.784	Recovery = Not calculated				

=====
Sequence No.: 33 **u&osampler Location:** 95
Sample ID: LLCCV **ame Collected:** 7/26/2012 10:45:16 PM
Analyst: KHR **ada Type:** Original
Initial Sample Wt: **nitial Sample Vol:**
Dilution: **ample Prep Vol:**

Nebulizer Parameters: LLCCV
Analyte **Back Pressure** **Flow**
 All 164.0 kPa 0.00 L/min

Mean Data: LLCCV							
Analyte	Mean Corrected Intensity	Conc. Units	Calib. Units	Std.Dev.	Conc. Units	Std.Dev.	RSD
Y 371.029	2362918.4					7730.83	0.33%
YRADIAL	283033.4					5463.90	1.93%
Ga 417.206	1251358.4					7017.19	0.56%

Approved: July 27, 2012 <i>Ann H. Rhodes</i>

Element	Concentration	Units	Concentration	Units	Concentration	Units	Concentration	Units
GaRADIAL	79752.6				1674.49		2.10%	
Ag 328.068†	1348.8	0.00485 mg/L	0.000726	0.00485 mg/L	0.000726	14.97%		
Al 396.153†	696.2	0.101 mg/L	0.0015	0.101 mg/L	0.0015	1.49%		
As 188.979†	15.7	0.00301 mg/L	0.000632	0.00301 mg/L	0.000632	21.01%		
Ba 233.527†	1802.5	0.00908 mg/L	0.000102	0.00908 mg/L	0.000102	1.13%		
Be 234.861†	536.5	0.00050 mg/L	0.000030	0.00050 mg/L	0.000030	5.95%		
B 249.677†	738.7	0.00774 mg/L	0.000099	0.00774 mg/L	0.000099	1.28%		
Ca 227.546†	32.7	0.123 mg/L	0.0180	0.123 mg/L	0.0180	14.65%		
Cd 228.802†	40.6	0.00073 mg/L	0.000069	0.00073 mg/L	0.000069	9.51%		
Co 228.616†	94.0	0.00196 mg/L	0.000138	0.00196 mg/L	0.000138	7.03%		
Cr 267.716†	667.5	0.00489 mg/L	0.000055	0.00489 mg/L	0.000055	1.12%		
Cu 327.393†	1389.4	0.00591 mg/L	0.000204	0.00591 mg/L	0.000204	3.44%		
Fe 239.562†	614.5	0.0467 mg/L	0.00097	0.0467 mg/L	0.00097	2.08%		
Mg 279.077†	329.4	0.128 mg/L	0.0017	0.128 mg/L	0.0017	1.35%		
Mn 257.610†	5649.2	0.00619 mg/L	0.000104	0.00619 mg/L	0.000104	1.68%		
Mo 202.031†	385.6	0.00954 mg/L	0.000155	0.00954 mg/L	0.000155	1.63%		
Ni 231.604†	385.8	0.00262 mg/L	0.000228	0.00262 mg/L	0.000228	8.69%		
Pb 220.353†	49.5	0.00324 mg/L	0.001338	0.00324 mg/L	0.001338	41.34%		
Sb 206.836†	56.6	0.0130 mg/L	0.00009	0.0130 mg/L	0.00009	0.73%		
Se 196.026†	5.2	0.00429 mg/L	0.003080	0.00429 mg/L	0.003080	71.83%		
Si 251.611†	3283.4	0.0618 mg/L	0.00034	0.0618 mg/L	0.00034	0.54%		
Sn 189.927†	146.8	0.0105 mg/L	0.00034	0.0105 mg/L	0.00034	3.25%		
Ti 334.940†	10828.8	0.0105 mg/L	0.00014	0.0105 mg/L	0.00014	1.31%		
Tl 190.801†	4.9	-0.00095 mg/L	0.002030	-0.00095 mg/L	0.002030	212.75%		
V 290.880†	3047.7	0.0116 mg/L	0.00064	0.0116 mg/L	0.00064	5.51%		
Zn 206.200†	716.9	0.0113 mg/L	0.00016	0.0113 mg/L	0.00016	1.39%		
K 766.490†	1828.3	0.543 mg/L	0.0092	0.543 mg/L	0.0092	1.69%		
Na 589.592†	10283.0	0.507 mg/L	0.0123	0.507 mg/L	0.0123	2.43%		
Sr 407.771†	26790.8	0.00994 mg/L	0.000317	0.00994 mg/L	0.000317	3.19%		
Li 670.784†	1634.2	0.00745 mg/L	0.000277	0.00745 mg/L	0.000277	3.72%		

Sequence No.: 34
 Sample ID: LLCCV
 Analyst: KHR
 Initial Sample Wt:
 Dilution:

u&osampler Location: 96
 a&e Collected: 7/26/2012 10:52:24 PM
 a&a Type: Original
 n&itial Sample Vol:
 a&mple Prep Vol:

Nebulizer Parameters: LLCCV

Analyte	Back Pressure	Flow
All	164.0 kPa	0.00 L/min

Mean Data: LLCCV

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	2364161.6						9183.34	0.39%
YRADIAL	288532.0						12237.79	4.24%
Ga 417.206	1238692.5						12420.44	1.00%
GaRADIAL	80711.4						1316.87	1.63%
Ag 328.068†	2657.7	0.00907 mg/L	0.000577	0.00907 mg/L	0.000577	6.36%		
Al 396.153†	1382.5	0.203 mg/L	0.0091	0.203 mg/L	0.0091	4.51%		
As 188.979†	33.4	0.00805 mg/L	0.001116	0.00805 mg/L	0.001116	13.86%		
Ba 233.527†	3561.2	0.0197 mg/L	0.00012	0.0197 mg/L	0.00012	0.59%		
Be 234.861†	1098.7	0.00097 mg/L	0.000020	0.00097 mg/L	0.000020	2.09%		
B 249.677†	2201.9	0.0212 mg/L	0.00079	0.0212 mg/L	0.00079	3.71%		
Ca 227.546†	79.1	0.231 mg/L	0.0178	0.231 mg/L	0.0178	7.73%		
Cd 228.802†	61.5	0.00110 mg/L	0.000128	0.00110 mg/L	0.000128	11.65%		
Co 228.616†	184.3	0.00402 mg/L	0.000135	0.00402 mg/L	0.000135	3.36%		
Cr 267.716†	1348.8	0.0104 mg/L	0.00007	0.0104 mg/L	0.00007	0.65%		
Cu 327.393†	2761.4	0.0113 mg/L	0.00057	0.0113 mg/L	0.00057	4.99%		
Fe 239.562†	1204.8	0.0871 mg/L	0.00225	0.0871 mg/L	0.00225	2.58%		
Mg 279.077†	669.3	0.230 mg/L	0.0092	0.230 mg/L	0.0092	3.99%		
Mn 257.610†	8860.0	0.0102 mg/L	0.00004	0.0102 mg/L	0.00004	0.37%		
Mo 202.031†	765.0	0.0198 mg/L	0.00021	0.0198 mg/L	0.00021	1.04%		
Ni 231.604†	753.3	0.00797 mg/L	0.000043	0.00797 mg/L	0.000043	0.54%		
Pb 220.353†	123.3	0.00868 mg/L	0.000803	0.00868 mg/L	0.000803	9.25%		
Sb 206.836†	114.0	0.0253 mg/L	0.00068	0.0253 mg/L	0.00068	2.68%		
Se 196.026†	18.2	0.0106 mg/L	0.00162	0.0106 mg/L	0.00162	15.18%		
Si 251.611†	6119.8	0.118 mg/L	0.0010	0.118 mg/L	0.0010	0.88%		
Sn 189.927†	276.4	0.0211 mg/L	0.00121	0.0211 mg/L	0.00121	5.74%		

Approved: July 27, 2012

Ken A. Rhodes

Method: 200.7-6010 PE-ICP2.1

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Date: 7/26/2012 11:09:20 PM

Ti 334.940†	21050.9	0.0204 mg/L	0.00013	0.0204 mg/L	0.00013	0.62%
Tl 190.801†	27.3	0.00491 mg/L	0.000964	0.00491 mg/L	0.000964	19.64%
V 290.880†	5538.2	0.0218 mg/L	0.00069	0.0218 mg/L	0.00069	3.15%
Zn 206.200†	1369.8	0.0228 mg/L	0.00017	0.0228 mg/L	0.00017	0.73%
K 766.490†	3314.0	1.04 mg/L	0.039	1.04 mg/L	0.039	3.75%
Na 589.592†	20317.0	1.00 mg/L	0.016	1.00 mg/L	0.016	1.57%
Sr 407.771†	52916.9	0.0201 mg/L	0.00060	0.0201 mg/L	0.00060	3.00%
Li 670.784†	3101.3	0.0173 mg/L	0.00033	0.0173 mg/L	0.00033	1.93%

Sequence No.: 35

u&osampler Location: 97

Sample ID: PBW 1B WG404518-02

Date Collected: 7/26/2012 10:59:31 PM

Analyst: KHR

Date Type: Original

Initial Sample Wt:

Initial Sample Vol:

Dilution:

Sample Prep Vol:

Nebulizer Parameters: PBW 1B WG404518-02

Analyte	Back Pressure	Flow
All	164.0 kPa	0.00 L/min

Mean Data: PBW 1B WG404518-02

Analyte	Mean Corrected		Calib.		Sample		Std.Dev.	RSD
	Intensity	Conc.	Units	Std.Dev.	Conc.	Units		
Y 371.029	2410524.0						14719.68	0.61%
YRADIAL	288748.6						8808.19	3.05%
Ga 417.206	1322463.2						5866.97	0.44%
GaRADIAL	82370.1						1190.09	1.44%
Ag 328.068†	-93.7	0.00021	mg/L	0.000450	0.00021	mg/L	0.000450	219.21%
Al 396.153†	-69.9	-0.0120	mg/L	0.00234	-0.0120	mg/L	0.00234	19.53%
As 188.979†	3.7	-0.00038	mg/L	0.001310	-0.00038	mg/L	0.001310	348.42%
Ba 233.527†	65.7	-0.00141	mg/L	0.000051	-0.00141	mg/L	0.000051	3.65%
Be 234.861†	30.6	0.00007	mg/L	0.000006	0.00007	mg/L	0.000006	7.82%
B 249.677†	1634.2	0.0160	mg/L	0.00133	0.0160	mg/L	0.00133	8.31%
Ca 227.546†	-10.3	0.0225	mg/L	0.01045	0.0225	mg/L	0.01045	46.41%
Cd 228.802†	4.2	0.00007	mg/L	0.000170	0.00007	mg/L	0.000170	255.07%
Co 228.616†	0.8	-0.00017	mg/L	0.000241	-0.00017	mg/L	0.000241	142.59%
Cr 267.716†	-5.9	-0.00058	mg/L	0.000124	-0.00058	mg/L	0.000124	21.48%
Cu 327.393†	148.1	0.00100	mg/L	0.000064	0.00100	mg/L	0.000064	6.42%
Fe 239.562†	12.0	0.00558	mg/L	0.000158	0.00558	mg/L	0.000158	2.83%
Mg 279.077†	-26.4	0.0215	mg/L	0.00574	0.0215	mg/L	0.00574	26.77%
Mn 257.610†	503.0	-0.00019	mg/L	0.000009	-0.00019	mg/L	0.000009	4.92%
Mo 202.031†	-4.8	-0.00099	mg/L	0.000102	-0.00099	mg/L	0.000102	10.30%
Ni 231.604†	100.6	-0.00153	mg/L	0.000129	-0.00153	mg/L	0.000129	8.42%
Pb 220.353†	-15.0	-0.00152	mg/L	0.001520	-0.00152	mg/L	0.001520	100.09%
Sb 206.836†	0.4	0.00094	mg/L	0.001125	0.00094	mg/L	0.001125	119.14%
Se 196.026†	0.3	0.00187	mg/L	0.003421	0.00187	mg/L	0.003421	183.26%
Si 251.611†	950.1	0.0157	mg/L	0.00378	0.0157	mg/L	0.00378	24.02%
Sn 189.927†	17.5	-0.00004	mg/L	0.000129	-0.00004	mg/L	0.000129	321.97%
Ti 334.940†	96.3	0.00017	mg/L	0.000008	0.00017	mg/L	0.000008	4.35%
Tl 190.801†	-3.1	-0.00316	mg/L	0.000910	-0.00316	mg/L	0.000910	28.81%
V 290.880†	686.7	0.00200	mg/L	0.001401	0.00200	mg/L	0.001401	70.04%
Zn 206.200†	240.1	0.00290	mg/L	0.000046	0.00290	mg/L	0.000046	1.57%
K 766.490†	8.2	-0.0630	mg/L	0.04292	-0.0630	mg/L	0.04292	68.11%
Na 589.592†	698.5	0.0363	mg/L	0.00473	0.0363	mg/L	0.00473	13.02%
Sr 407.771†	-195.8	-0.00050	mg/L	0.000029	-0.00050	mg/L	0.000029	5.80%
Li 670.784†	-33.4	-0.00373	mg/L	0.000445	-0.00373	mg/L	0.000445	11.95%

Sequence No.: 36

u&osampler Location: 98

Sample ID: LCSW 1B WG404518-03

Date Collected: 7/26/2012 11:06:38 PM

Analyst: KHR

Date Type: Original

Initial Sample Wt:

Initial Sample Vol:

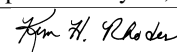
Dilution:

Sample Prep Vol:

Nebulizer Parameters: LCSW 1B WG404518-03

Analyte	Back Pressure	Flow
All	164.0 kPa	0.00 L/min

Approved: July 27, 2012



Mean Data: LCSW 1B WG404518-03

Analyte	Mean Corrected		Calib.		Sample		Std.Dev.	RSD
	Intensity	Conc.	Units	Std.Dev.	Conc.	Units		
Y 371.029	2314263.0						7970.59	0.34%
YRADIAL	286008.6						1365.43	0.48%
Ga 417.206	1279422.5						22240.21	1.74%
GaRADIAL	80807.3						585.89	0.73%
Ag 328.068†	65971.6	0.213	mg/L	0.0051	0.213	mg/L	0.0051	2.37%
Al 396.153†	34584.6	5.11	mg/L	0.021	5.11	mg/L	0.021	0.42%
As 188.979†	716.3	0.201	mg/L	0.0033	0.201	mg/L	0.0033	1.62%
Ba 233.527†	89606.0	0.539	mg/L	0.0027	0.539	mg/L	0.0027	0.50%
Be 234.861†	30641.6	0.0259	mg/L	0.00055	0.0259	mg/L	0.00055	2.11%
B 249.677†	111259.3	1.02	mg/L	0.030	1.02	mg/L	0.030	2.94%
Ca 227.546†	2236.4	5.29	mg/L	0.112	5.29	mg/L	0.112	2.11%
Cd 228.802†	1422.4	0.0256	mg/L	0.00124	0.0256	mg/L	0.00124	4.84%
Co 228.616†	4686.4	0.107	mg/L	0.0001	0.107	mg/L	0.0001	0.09%
Cr 267.716†	33104.6	0.268	mg/L	0.0021	0.268	mg/L	0.0021	0.77%
Cu 327.393†	65454.1	0.259	mg/L	0.0072	0.259	mg/L	0.0072	2.76%
Fe 239.562†	30132.3	2.06	mg/L	0.010	2.06	mg/L	0.010	0.47%
Mg 279.077†	17451.2	5.27	mg/L	0.031	5.27	mg/L	0.031	0.58%
Mn 257.610†	218400.7	0.270	mg/L	0.0029	0.270	mg/L	0.0029	1.06%
Mo 202.031†	19540.7	0.527	mg/L	0.0059	0.527	mg/L	0.0059	1.12%
Ni 231.604†	18629.5	0.268	mg/L	0.0015	0.268	mg/L	0.0015	0.56%
Pb 220.353†	3635.2	0.267	mg/L	0.0019	0.267	mg/L	0.0019	0.69%
Sb 206.836†	2885.7	0.621	mg/L	0.0156	0.621	mg/L	0.0156	2.51%
Se 196.026†	430.3	0.213	mg/L	0.0078	0.213	mg/L	0.0078	3.68%
Si 251.611†	136704.1	2.69	mg/L	0.043	2.69	mg/L	0.043	1.61%
Sn 189.927†	6798.8	0.554	mg/L	0.0024	0.554	mg/L	0.0024	0.44%
Ti 334.940†	533249.3	0.515	mg/L	0.0010	0.515	mg/L	0.0010	0.19%
Tl 190.801†	1080.6	0.281	mg/L	0.0015	0.281	mg/L	0.0015	0.54%
V 290.880†	131671.9	0.537	mg/L	0.0058	0.537	mg/L	0.0058	1.08%
Zn 206.200†	31743.6	0.557	mg/L	0.0027	0.557	mg/L	0.0027	0.48%
K 766.490†	77801.6	25.8	mg/L	0.20	25.8	mg/L	0.20	0.79%
Na 589.592†	520308.7	25.9	mg/L	0.65	25.9	mg/L	0.65	2.50%
Sr 407.771†	1320997.5	0.511	mg/L	0.0107	0.511	mg/L	0.0107	2.10%
Li 670.784†	77975.8	0.519	mg/L	0.0030	0.519	mg/L	0.0030	0.59%

Sequence No.: 37

Sample ID: L1207072502 WG404518-01

Analyst: KHR

Initial Sample Wt:

Dilution:

u\osampler Location: 99

a\ne Collected: 7/26/2012 11:12:49 PM

a\ne Type: Original

n\itial Sample Vol:

a\mple Prep Vol:

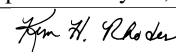
Nebulizer Parameters: L1207072502 WG404518-01

Analyte	Back Pressure	Flow
All	164.0 kPa	0.00 L/min

Mean Data: L1207072502 WG404518-01

Analyte	Mean Corrected		Calib.		Sample		Std.Dev.	RSD
	Intensity	Conc.	Units	Std.Dev.	Conc.	Units		
Y 371.029	2082755.6						17802.38	0.85%
YRADIAL	267587.8						4388.65	1.64%
Ga 417.206	1256637.7						9443.32	0.75%
GaRADIAL	82392.7						2086.77	2.53%
Ag 328.068†	3980.8	0.0129	mg/L	0.00055	0.0129	mg/L	0.00055	4.28%
Al 396.153†	-303.5	-0.0511	mg/L	0.00231	-0.0511	mg/L	0.00231	4.53%
As 188.979†	2.1	-0.00114	mg/L	0.002139	-0.00114	mg/L	0.002139	187.62%
Ba 233.527†	1747.7	0.00879	mg/L	0.000238	0.00879	mg/L	0.000238	2.70%
Be 234.861†	36.8	0.00012	mg/L	0.000007	0.00012	mg/L	0.000007	5.96%
B 249.677†	3836.9	0.0363	mg/L	0.00056	0.0363	mg/L	0.00056	1.53%
Ca 227.546†	257469.0	576	mg/L	9.2	576	mg/L	9.2	1.60%
Cd 228.802†	9.8	0.00020	mg/L	0.000100	0.00020	mg/L	0.000100	50.22%
Co 228.616†	42.1	0.00102	mg/L	0.000185	0.00102	mg/L	0.000185	18.21%
Cr 267.716†	391.0	0.00266	mg/L	0.000241	0.00266	mg/L	0.000241	9.08%
Cu 327.393†	-1235.6	-0.00465	mg/L	0.000148	-0.00465	mg/L	0.000148	3.17%
Fe 239.562†	80.4	0.00768	mg/L	0.000885	0.00768	mg/L	0.000885	11.52%
Mg 279.077†	427516.4	128	mg/L	1.0	128	mg/L	1.0	0.79%
Mn 257.610†	73541.2	0.0903	mg/L	0.00088	0.0903	mg/L	0.00088	0.97%
Mo 202.031†	2315.5	0.0616	mg/L	0.00073	0.0616	mg/L	0.00073	1.18%

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Method: 200.7-6010 PE-ICP2.1

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Ni 231.604†	48646.6	0.705 mg/L	0.0094	0.705 mg/L	0.0094	1.33%
Pb 220.353†	-57.7	0.00006 mg/L	0.001839	0.00006 mg/L	0.001839	>999.9%
Sb 206.836†	-8.3	-0.00033 mg/L	0.002198	-0.00033 mg/L	0.002198	657.39%
Se 196.026†	909.0	0.446 mg/L	0.0011	0.446 mg/L	0.0011	0.24%
Si 251.611†	350149.1	6.92 mg/L	0.087	6.92 mg/L	0.087	1.25%
Sn 189.927†	-479.5	-0.0407 mg/L	0.00139	-0.0407 mg/L	0.00139	3.41%
Ti 334.940†	-102804.5	-0.0128 mg/L	0.00088	-0.0128 mg/L	0.00088	6.87%
Tl 190.801†	-57.7	-0.0183 mg/L	0.00208	-0.0183 mg/L	0.00208	11.34%
V 290.880†	2767.5	0.00716 mg/L	0.001848	0.00716 mg/L	0.001848	25.81%
Zn 206.200†	35250.4	0.616 mg/L	0.0073	0.616 mg/L	0.0073	1.19%
K 766.490†	10491.0	3.42 mg/L	0.013	3.42 mg/L	0.013	0.38%
Na 589.592†	240062.9	11.9 mg/L	0.30	11.9 mg/L	0.30	2.54%
Sr 407.771†	3749166.5	1.44 mg/L	0.065	1.44 mg/L	0.065	4.53%
Li 670.784†	945.4	0.00283 mg/L	0.000087	0.00283 mg/L	0.000087	3.07%

Sequence No.: 38

Sample ID: L1207072502S WG404518-04

Analyst: KHR

Initial Sample Wt:

Dilution:

u&osampler Location: 100

a&e Collected: 7/26/2012 11:20:01 PM

a&a Type: Original

n&ital Sample Vol:

a&ample Prep Vol:

Nebulizer Parameters: L1207072502S WG404518-04

Analyte	Back Pressure	Flow
All	164.0 kPa	0.00 L/min

Mean Data: L1207072502S WG404518-04

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	2106902.2						34941.70	1.66%
YRADIAL	267565.4						2742.14	1.02%
Ga 417.206	1245847.5						8494.12	0.68%
GaRADIAL	80540.0						845.58	1.05%
Ag 328.068†	67442.8	0.218 mg/L		0.0025	0.218 mg/L		0.0025	1.13%
Al 396.153†	34023.9	5.02 mg/L		0.048	5.02 mg/L		0.048	0.96%
As 188.979†	712.7	0.200 mg/L		0.0042	0.200 mg/L		0.0042	2.11%
Ba 233.527†	88079.7	0.530 mg/L		0.0039	0.530 mg/L		0.0039	0.73%
Be 234.861†	30032.6	0.0254 mg/L		0.00037	0.0254 mg/L		0.00037	1.46%
B 249.677†	110777.1	1.02 mg/L		0.020	1.02 mg/L		0.020	1.97%
Ca 227.546†	262103.0	586 mg/L		13.0	586 mg/L		13.0	2.23%
Cd 228.802†	1324.6	0.0238 mg/L		0.00046	0.0238 mg/L		0.00046	1.95%
Co 228.616†	4382.9	0.100 mg/L		0.0013	0.100 mg/L		0.0013	1.35%
Cr 267.716†	33367.8	0.270 mg/L		0.0014	0.270 mg/L		0.0014	0.53%
Cu 327.393†	61352.0	0.243 mg/L		0.0042	0.243 mg/L		0.0042	1.71%
Fe 239.562†	29658.9	2.03 mg/L		0.014	2.03 mg/L		0.014	0.70%
Mg 279.077†	452421.0	136 mg/L		0.7	136 mg/L		0.7	0.54%
Mn 257.610†	281161.6	0.348 mg/L		0.0023	0.348 mg/L		0.0023	0.65%
Mo 202.031†	21700.9	0.585 mg/L		0.0047	0.585 mg/L		0.0047	0.80%
Ni 231.604†	64399.6	0.934 mg/L		0.0049	0.934 mg/L		0.0049	0.53%
Pb 220.353†	3343.8	0.251 mg/L		0.0032	0.251 mg/L		0.0032	1.27%
Sb 206.836†	2765.7	0.596 mg/L		0.0033	0.596 mg/L		0.0033	0.56%
Se 196.026†	1344.0	0.660 mg/L		0.0052	0.660 mg/L		0.0052	0.79%
Si 251.611†	475742.5	9.40 mg/L		0.063	9.40 mg/L		0.063	0.67%
Sn 189.927†	6087.0	0.496 mg/L		0.0068	0.496 mg/L		0.0068	1.37%
Ti 334.940†	444087.2	0.516 mg/L		0.0065	0.516 mg/L		0.0065	1.25%
Tl 190.801†	932.6	0.242 mg/L		0.0034	0.242 mg/L		0.0034	1.42%
V 290.880†	131971.8	0.535 mg/L		0.0054	0.535 mg/L		0.0054	1.01%
Zn 206.200†	63170.4	1.11 mg/L		0.005	1.11 mg/L		0.005	0.46%
K 766.490†	86964.3	28.9 mg/L		0.33	28.9 mg/L		0.33	1.14%
Na 589.592†	765582.5	38.3 mg/L		0.54	38.3 mg/L		0.54	1.42%
Sr 407.771†	4967358.4	1.91 mg/L		0.007	1.91 mg/L		0.007	0.35%
Li 670.784†	77409.3	0.515 mg/L		0.0078	0.515 mg/L		0.0078	1.51%

Sequence No.: 39

Sample ID: L1207072502SD WG404518-05

Analyst: KHR

Initial Sample Wt:

Dilution:

u&osampler Location: 101

a&e Collected: 7/26/2012 11:26:15 PM

a&a Type: Original

n&ital Sample Vol:

a&ample Prep Vol:

Approved: July 27, 2012

Ann H. Rhodes

Nebulizer Parameters: L1207072502SD WG404518-05
 Analyte Back Pressure Flow
 All 164.0 kPa 0.00 L/min

Mean Data: L1207072502SD WG404518-05

Analyte	Mean Corrected		Calib. Conc. Units	Std.Dev.	Sample		RSD
	Intensity				Conc. Units	Std.Dev.	
Y 371.029	2109680.4					20342.99	0.96%
YRADIAL	274299.8					3040.39	1.11%
Ga 417.206	1261487.0					17484.09	1.39%
GaRADIAL	81647.2					677.74	0.83%
Ag 328.068†	65945.7	0.213 mg/L	0.0024	0.213 mg/L	0.0024	0.0024	1.12%
Al 396.153†	33413.4	4.93 mg/L	0.006	4.93 mg/L	0.006	0.006	0.12%
As 188.979†	694.1	0.194 mg/L	0.0045	0.194 mg/L	0.0045	0.0045	2.32%
Ba 233.527†	87144.3	0.525 mg/L	0.0033	0.525 mg/L	0.0033	0.0033	0.62%
Be 234.861†	29307.7	0.0248 mg/L	0.00041	0.0248 mg/L	0.00041	0.00041	1.65%
B 249.677†	108828.1	1.00 mg/L	0.021	1.00 mg/L	0.021	0.021	2.06%
Ca 227.546†	259365.5	580 mg/L	9.8	580 mg/L	9.8	9.8	1.68%
Cd 228.802†	1303.7	0.0235 mg/L	0.00079	0.0235 mg/L	0.00079	0.00079	3.35%
Co 228.616†	4339.2	0.0991 mg/L	0.00117	0.0991 mg/L	0.00117	0.00117	1.18%
Cr 267.716†	33105.8	0.268 mg/L	0.0023	0.268 mg/L	0.0023	0.0023	0.86%
Cu 327.393†	60240.0	0.239 mg/L	0.0031	0.239 mg/L	0.0031	0.0031	1.29%
Fe 239.562†	29234.2	2.00 mg/L	0.016	2.00 mg/L	0.016	0.016	0.80%
Mg 279.077†	444691.9	133 mg/L	1.4	133 mg/L	1.4	1.4	1.04%
Mn 257.610†	277880.4	0.344 mg/L	0.0031	0.344 mg/L	0.0031	0.0031	0.91%
Mo 202.031†	21458.1	0.578 mg/L	0.0064	0.578 mg/L	0.0064	0.0064	1.11%
Ni 231.604†	63869.3	0.927 mg/L	0.0088	0.927 mg/L	0.0088	0.0088	0.95%
Pb 220.353†	3323.2	0.249 mg/L	0.0019	0.249 mg/L	0.0019	0.0019	0.77%
Sb 206.836†	2708.9	0.583 mg/L	0.0115	0.583 mg/L	0.0115	0.0115	1.98%
Se 196.026†	1331.4	0.654 mg/L	0.0146	0.654 mg/L	0.0146	0.0146	2.24%
Si 251.611†	468211.2	9.25 mg/L	0.127	9.25 mg/L	0.127	0.127	1.37%
Sn 189.927†	6017.1	0.490 mg/L	0.0088	0.490 mg/L	0.0088	0.0088	1.79%
Ti 334.940†	437705.6	0.509 mg/L	0.0043	0.509 mg/L	0.0043	0.0043	0.83%
Tl 190.801†	926.8	0.240 mg/L	0.0044	0.240 mg/L	0.0044	0.0044	1.83%
V 290.880†	130635.6	0.529 mg/L	0.0058	0.529 mg/L	0.0058	0.0058	1.09%
Zn 206.200†	62282.8	1.09 mg/L	0.009	1.09 mg/L	0.009	0.009	0.82%
K 766.490†	85814.3	28.5 mg/L	0.22	28.5 mg/L	0.22	0.22	0.77%
Na 589.592†	746033.9	37.3 mg/L	0.83	37.3 mg/L	0.83	0.83	2.22%
Sr 407.771†	4830431.1	1.86 mg/L	0.048	1.86 mg/L	0.048	0.048	2.61%
Li 670.784†	76501.2	0.509 mg/L	0.0076	0.509 mg/L	0.0076	0.0076	1.49%

Sequence No.: 40
 Sample ID: L1207072504
 Analyst: KHR
 Initial Sample Wt:
 Dilution:

u&osampler Location: 102
 a&e Collected: 7/26/2012 11:32:29 PM
 a&a Type: Original
 nitial Sample Vol:
 a&ple Prep Vol:

Nebulizer Parameters: L1207072504

Analyte Back Pressure Flow
 All 164.0 kPa 0.00 L/min

Mean Data: L1207072504

Analyte	Mean Corrected		Calib. Conc. Units	Std.Dev.	Sample		RSD
	Intensity				Conc. Units	Std.Dev.	
Y 371.029	2134816.9					14461.41	0.68%
YRADIAL	272303.6					3531.92	1.30%
Ga 417.206	1290441.7					2799.34	0.22%
GaRADIAL	83459.4					1620.60	1.94%
Ag 328.068†	3928.1	0.0127 mg/L	0.00056	0.0127 mg/L	0.00056	0.00056	4.43%
Al 396.153†	-278.3	-0.0432 mg/L	0.00070	-0.0432 mg/L	0.00070	0.00070	1.61%
As 188.979†	-1.5	-0.00187 mg/L	0.004205	-0.00187 mg/L	0.004205	0.004205	224.47%
Ba 233.527†	11712.8	0.0689 mg/L	0.00033	0.0689 mg/L	0.00033	0.00033	0.48%
Be 234.861†	139.9	0.00018 mg/L	0.000022	0.00018 mg/L	0.000022	0.000022	12.00%
B 249.677†	4815.4	0.0453 mg/L	0.00024	0.0453 mg/L	0.00024	0.00024	0.52%
Ca 227.546†	239403.2	535 mg/L	4.1	535 mg/L	4.1	4.1	0.76%
Cd 228.802†	6.4	0.00012 mg/L	0.000045	0.00012 mg/L	0.000045	0.000045	36.71%
Co 228.616†	82.6	0.00189 mg/L	0.000201	0.00189 mg/L	0.000201	0.000201	10.64%

Approved: July 27, 2012

Ann H. Rhodes

Cr 267.716†	339.0	0.00222 mg/L	0.000012	0.00222 mg/L	0.000012	0.56%
Cu 327.393†	-1019.8	-0.00370 mg/L	0.000414	-0.00370 mg/L	0.000414	11.18%
Fe 239.562†	351.9	0.0259 mg/L	0.00072	0.0259 mg/L	0.00072	2.78%
Mg 279.077†	483868.3	145 mg/L	0.9	145 mg/L	0.9	0.61%
Mn 257.610†	128756.6	0.159 mg/L	0.0007	0.159 mg/L	0.0007	0.46%
Mo 202.031†	103.3	0.00196 mg/L	0.000255	0.00196 mg/L	0.000255	13.04%
Ni 231.604†	229.6	0.00035 mg/L	0.000213	0.00035 mg/L	0.000213	60.22%
Pb 220.353†	-46.8	0.00032 mg/L	0.001153	0.00032 mg/L	0.001153	355.09%
Sb 206.836†	-5.7	-0.00040 mg/L	0.000932	-0.00040 mg/L	0.000932	234.53%
Se 196.026†	20.0	0.0114 mg/L	0.00095	0.0114 mg/L	0.00095	8.27%
Si 251.611†	697081.7	13.8 mg/L	0.07	13.8 mg/L	0.07	0.48%
Sn 189.927†	-465.0	-0.0395 mg/L	0.00168	-0.0395 mg/L	0.00168	4.25%
Ti 334.940†	-94905.3	-0.0112 mg/L	0.00245	-0.0112 mg/L	0.00245	21.83%
Tl 190.801†	-43.7	-0.0148 mg/L	0.00358	-0.0148 mg/L	0.00358	24.27%
V 290.880†	1073.8	-0.00020 mg/L	0.001600	-0.00020 mg/L	0.001600	816.57%
Zn 206.200†	161.7	0.00155 mg/L	0.000336	0.00155 mg/L	0.000336	21.73%
K 766.490†	14695.8	4.81 mg/L	0.022	4.81 mg/L	0.022	0.46%
Na 589.592†	309863.9	15.3 mg/L	0.34	15.3 mg/L	0.34	2.23%
Sr 407.771†	3978081.9	1.53 mg/L	0.069	1.53 mg/L	0.069	4.54%
Li 670.784†	1158.6	0.00426 mg/L	0.000270	0.00426 mg/L	0.000270	6.33%

Sequence No.: 41
 Sample ID: L1207072506
 Analyst: KHR
 Initial Sample Wt:
 Dilution:

u\osampler Location: 103
 a\ne Collected: 7/26/2012 11:39:41 PM
 a\nd Type: Original
 n\itial Sample Vol:
 a\mple Prep Vol:

Nebulizer Parameters: L1207072506

Analyte	Back Pressure	Flow
All	164.0 kPa	0.00 L/min

Mean Data: L1207072506

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 371.029	2098467.8				16258.82	0.77%
YRADIAL	268241.0				5799.04	2.16%
Ga 417.206	1262082.0				19148.76	1.52%
GaRADIAL	82648.2				2335.16	2.83%
Ag 328.068†	3898.8	0.0127 mg/L	0.00068	0.0127 mg/L	0.00068	5.32%
Al 396.153†	-259.6	-0.0404 mg/L	0.00367	-0.0404 mg/L	0.00367	9.08%
As 188.979†	1.3	-0.00104 mg/L	0.001537	-0.00104 mg/L	0.001537	148.44%
Ba 233.527†	19899.1	0.118 mg/L	0.0010	0.118 mg/L	0.0010	0.86%
Be 234.861†	111.0	0.00013 mg/L	0.000015	0.00013 mg/L	0.000015	11.37%
B 249.677†	4422.7	0.0416 mg/L	0.00116	0.0416 mg/L	0.00116	2.78%
Ca 227.546†	236886.4	529 mg/L	7.6	529 mg/L	7.6	1.44%
Cd 228.802†	5.2	0.00009 mg/L	0.000089	0.00009 mg/L	0.000089	97.33%
Co 228.616†	42.7	0.00095 mg/L	0.000015	0.00095 mg/L	0.000015	1.62%
Cr 267.716†	329.4	0.00214 mg/L	0.000113	0.00214 mg/L	0.000113	5.29%
Cu 327.393†	-1016.7	-0.00368 mg/L	0.000208	-0.00368 mg/L	0.000208	5.66%
Fe 239.562†	1629.9	0.113 mg/L	0.0021	0.113 mg/L	0.0021	1.83%
Mg 279.077†	478250.8	143 mg/L	1.6	143 mg/L	1.6	1.14%
Mn 257.610†	109106.1	0.134 mg/L	0.0013	0.134 mg/L	0.0013	0.95%
Mo 202.031†	95.5	0.00175 mg/L	0.000100	0.00175 mg/L	0.000100	5.70%
Ni 231.604†	184.5	-0.00030 mg/L	0.000123	-0.00030 mg/L	0.000123	40.63%
Pb 220.353†	-48.0	0.00021 mg/L	0.001026	0.00021 mg/L	0.001026	498.07%
Sb 206.836†	-10.9	-0.00151 mg/L	0.000228	-0.00151 mg/L	0.000228	15.09%
Se 196.026†	1.1	0.00224 mg/L	0.002873	0.00224 mg/L	0.002873	128.18%
Si 251.611†	836397.0	16.5 mg/L	0.12	16.5 mg/L	0.12	0.72%
Sn 189.927†	-479.4	-0.0406 mg/L	0.00071	-0.0406 mg/L	0.00071	1.74%
Ti 334.940†	-93359.4	-0.0106 mg/L	0.00244	-0.0106 mg/L	0.00244	23.14%
Tl 190.801†	-51.3	-0.0166 mg/L	0.00231	-0.0166 mg/L	0.00231	13.89%
V 290.880†	1345.2	0.00095 mg/L	0.002200	0.00095 mg/L	0.002200	231.39%
Zn 206.200†	222.2	0.00260 mg/L	0.000134	0.00260 mg/L	0.000134	5.16%
K 766.490†	14152.8	4.63 mg/L	0.081	4.63 mg/L	0.081	1.75%
Na 589.592†	305450.5	15.1 mg/L	0.27	15.1 mg/L	0.27	1.76%
Sr 407.771†	3889658.4	1.49 mg/L	0.037	1.49 mg/L	0.037	2.50%
Li 670.784†	1116.0	0.00398 mg/L	0.000227	0.00398 mg/L	0.000227	5.72%

Approved: July 27, 2012

Ken H. Rhodes

Sequence No.: 42
 Sample ID: L1207072508
 Analyst: KHR
 Initial Sample Wt:
 Dilution:

u&osampler Location: 104
 a&e Collected: 7/26/2012 11:46:53 PM
 a&a Type: Original
 n&itial Sample Vol:
 a&le Prep Vol:

Nebulizer Parameters: L1207072508

Analyte Back Pressure Flow
 All 164.0 kPa 0.00 L/min

Mean Data: L1207072508

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc. Units	Sample Std.Dev.	RSD
Y 371.029	2122917.6					53190.93	2.51%
YRADIAL	268795.7					4991.60	1.86%
Ga 417.206	1246934.8					13446.76	1.08%
GaRADIAL	80315.1					657.36	0.82%
Ag 328.068†	4027.9	0.0132	mg/L	0.00049	0.0132	0.00049	3.73%
Al 396.153†	-226.6	-0.0364	mg/L	0.00904	-0.0364	0.00904	24.84%
As 188.979†	13.0	0.00226	mg/L	0.002507	0.00226	0.002507	111.14%
Ba 233.527†	18811.4	0.112	mg/L	0.0026	0.112	0.0026	2.30%
Be 234.861†	208.9	0.00020	mg/L	0.000049	0.00020	0.000049	24.97%
B 249.677†	7613.2	0.0709	mg/L	0.00106	0.0709	0.00106	1.49%
Ca 227.546†	248310.1	555	mg/L	2.0	555	2.0	0.36%
Cd 228.802†	15.5	0.00027	mg/L	0.000136	0.00027	0.000136	49.84%
Co 228.616†	138.4	0.00316	mg/L	0.000166	0.00316	0.000166	5.27%
Cr 267.716†	328.9	0.00214	mg/L	0.000287	0.00214	0.000287	13.44%
Cu 327.393†	-849.3	-0.00301	mg/L	0.000844	-0.00301	0.000844	28.08%
Fe 239.562†	3207.1	0.221	mg/L	0.0080	0.221	0.0080	3.60%
Mg 279.077†	486494.5	146	mg/L	1.4	146	1.4	0.94%
Mn 257.610†	106050.8	0.131	mg/L	0.0033	0.131	0.0033	2.54%
Mo 202.031†	593.4	0.0152	mg/L	0.00027	0.0152	0.00027	1.77%
Ni 231.604†	674.2	0.00682	mg/L	0.000407	0.00682	0.000407	5.97%
Pb 220.353†	-76.6	-0.00169	mg/L	0.001597	-0.00169	0.001597	94.43%
Sb 206.836†	-12.2	-0.00173	mg/L	0.000832	-0.00173	0.000832	48.05%
Se 196.026†	-2.1	0.00067	mg/L	0.001973	0.00067	0.001973	296.14%
Si 251.611†	1060544.2	21.0	mg/L	0.03	21.0	0.03	0.16%
Sn 189.927†	-477.3	-0.0405	mg/L	0.00171	-0.0405	0.00171	4.23%
Ti 334.940†	-87808.7	-0.00138	mg/L	0.006195	-0.00138	0.006195	449.06%
Tl 190.801†	-52.0	-0.0167	mg/L	0.00137	-0.0167	0.00137	8.17%
V 290.880†	4338.8	0.0131	mg/L	0.00177	0.0131	0.00177	13.52%
Zn 206.200†	156.3	0.00145	mg/L	0.000361	0.00145	0.000361	24.91%
K 766.490†	14785.3	4.84	mg/L	0.048	4.84	0.048	1.00%
Na 589.592†	310515.1	15.4	mg/L	0.10	15.4	0.10	0.64%
Sr 407.771†	3997377.7	1.53	mg/L	0.012	1.53	0.012	0.79%
Li 670.784†	1070.7	0.00367	mg/L	0.001108	0.00367	0.001108	30.18%

Sequence No.: 43

Sample ID: L1207072508PS WG404603-01
 Analyst: KHR
 Initial Sample Wt:
 Dilution:

u&osampler Location: 105
 a&e Collected: 7/26/2012 11:53:08 PM
 a&a Type: Original
 n&itial Sample Vol:
 a&le Prep Vol:

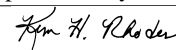
Nebulizer Parameters: L1207072508PS WG404603-01

Analyte Back Pressure Flow
 All 164.0 kPa 0.00 L/min

Mean Data: L1207072508PS WG404603-01

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc. Units	Sample Std.Dev.	RSD
Y 371.029	2121503.8					12420.97	0.59%
YRADIAL	268467.1					2636.59	0.98%
Ga 417.206	1259802.0					9771.42	0.78%
GaRADIAL	80234.8					615.69	0.77%
Ag 328.068†	66310.0	0.214	mg/L	0.0008	0.214	0.0008	0.37%
Al 396.153†	33540.1	4.96	mg/L	0.009	4.96	0.009	0.18%
As 188.979†	703.4	0.197	mg/L	0.0023	0.197	0.0023	1.17%

Approved: July 27, 2012



Ba 233.527†	102238.2	0.616 mg/L	0.0045	0.616 mg/L	0.0045	0.73%
Be 234.861†	29218.4	0.0246 mg/L	0.00010	0.0246 mg/L	0.00010	0.42%
B 249.677†	113231.9	1.04 mg/L	0.009	1.04 mg/L	0.009	0.87%
Ca 227.546†	220403.6	493 mg/L	9.5	493 mg/L	9.5	1.92%
Cd 228.802†	1334.6	0.0240 mg/L	0.00061	0.0240 mg/L	0.00061	2.55%
Co 228.616†	4511.1	0.103 mg/L	0.0008	0.103 mg/L	0.0008	0.79%
Cr 267.716†	31974.9	0.259 mg/L	0.0019	0.259 mg/L	0.0019	0.73%
Cu 327.393†	61203.6	0.243 mg/L	0.0039	0.243 mg/L	0.0039	1.61%
Fe 239.562†	32441.2	2.22 mg/L	0.020	2.22 mg/L	0.020	0.91%
Mg 279.077†	453185.2	136 mg/L	1.2	136 mg/L	1.2	0.86%
Mn 257.610†	305607.7	0.378 mg/L	0.0029	0.378 mg/L	0.0029	0.77%
Mo 202.031†	19378.2	0.522 mg/L	0.0069	0.522 mg/L	0.0069	1.32%
Ni 231.604†	17743.3	0.255 mg/L	0.0010	0.255 mg/L	0.0010	0.40%
Pb 220.353†	3415.4	0.255 mg/L	0.0022	0.255 mg/L	0.0022	0.85%
Sb 206.836†	2748.9	0.591 mg/L	0.0042	0.591 mg/L	0.0042	0.70%
Se 196.026†	416.5	0.206 mg/L	0.0052	0.206 mg/L	0.0052	2.51%
Si 251.611†	1059600.4	20.9 mg/L	0.17	20.9 mg/L	0.17	0.82%
Sn 189.927†	-457.2	-0.0388 mg/L	0.00085	-0.0388 mg/L	0.00085	2.18%
Ti 334.940†	454589.6	0.512 mg/L	0.0037	0.512 mg/L	0.0037	0.72%
Tl 190.801†	932.8	0.242 mg/L	0.0062	0.242 mg/L	0.0062	2.55%
V 290.880†	133200.7	0.540 mg/L	0.0063	0.540 mg/L	0.0063	1.16%
Zn 206.200†	28567.0	0.502 mg/L	0.0079	0.502 mg/L	0.0079	1.57%
K 766.490†	89143.1	29.6 mg/L	0.19	29.6 mg/L	0.19	0.64%
Na 589.592†	790143.2	39.5 mg/L	0.27	39.5 mg/L	0.27	0.68%
Sr 407.771†	4851101.9	1.87 mg/L	0.021	1.87 mg/L	0.021	1.13%
Li 670.784†	76805.3	0.511 mg/L	0.0050	0.511 mg/L	0.0050	0.99%

Sequence No.: 44

Sample ID: L1207072508DL WG404603-02

Analyst: KHR

Initial Sample Wt:

Dilution:

u&osampler Location: 106

a&e Collected: 7/26/2012 11:59:25 PM

a&a Type: Original

n&ital Sample Vol:

a&ple Prep Vol:

Nebulizer Parameters: L1207072508DL WG404603-02

Analyte	Back Pressure	Flow
All	164.0 kPa	0.00 L/min

Mean Data: L1207072508DL WG404603-02

Analyte	Mean Corrected		Calib. Units	Std.Dev.	Sample		Std.Dev.	RSD
	Intensity	Conc.			Conc.	Units		
Y 371.029	2258346.7					27229.06	1.21%	
YRADIAL	276203.3					2040.61	0.74%	
Ga 417.206	1314965.6					2967.88	0.23%	
GaRADIAL	82779.3					1566.98	1.89%	
Ag 328.068†	985.6	0.00361 mg/L	0.000071	0.00361 mg/L	0.000071	1.97%		
Al 396.153†	-83.6	-0.0143 mg/L	0.00166	-0.0143 mg/L	0.00166	11.61%		
As 188.979†	1.0	-0.00116 mg/L	0.002327	-0.00116 mg/L	0.002327	201.39%		
Ba 233.527†	3918.2	0.0219 mg/L	0.00017	0.0219 mg/L	0.00017	0.80%		
Be 234.861†	80.1	0.00011 mg/L	0.000004	0.00011 mg/L	0.000004	3.44%		
B 249.677†	1977.4	0.0192 mg/L	0.00042	0.0192 mg/L	0.00042	2.18%		
Ca 227.546†	46973.3	105 mg/L	1.6	105 mg/L	1.6	1.50%		
Cd 228.802†	4.5	0.00008 mg/L	0.000156	0.00008 mg/L	0.000156	204.85%		
Co 228.616†	18.2	0.00027 mg/L	0.000374	0.00027 mg/L	0.000374	138.62%		
Cr 267.716†	125.0	0.00048 mg/L	0.000109	0.00048 mg/L	0.000109	22.67%		
Cu 327.393†	-198.2	-0.00038 mg/L	0.000222	-0.00038 mg/L	0.000222	58.22%		
Fe 239.562†	678.5	0.0505 mg/L	0.00067	0.0505 mg/L	0.00067	1.33%		
Mg 279.077†	96400.9	28.9 mg/L	0.10	28.9 mg/L	0.10	0.34%		
Mn 257.610†	22453.1	0.0270 mg/L	0.00006	0.0270 mg/L	0.00006	0.21%		
Mo 202.031†	161.7	0.00350 mg/L	0.000377	0.00350 mg/L	0.000377	10.75%		
Ni 231.604†	153.8	-0.00075 mg/L	0.000196	-0.00075 mg/L	0.000196	26.25%		
Pb 220.353†	-4.0	0.00011 mg/L	0.000703	0.00011 mg/L	0.000703	628.87%		
Sb 206.836†	-2.1	0.00041 mg/L	0.001183	0.00041 mg/L	0.001183	290.58%		
Se 196.026†	0.5	0.00198 mg/L	0.002391	0.00198 mg/L	0.002391	120.59%		
Si 251.611†	217235.7	4.29 mg/L	0.035	4.29 mg/L	0.035	0.81%		
Sn 189.927†	-319.7	-0.0276 mg/L	0.00110	-0.0276 mg/L	0.00110	3.98%		
Ti 334.940†	-18775.7	-0.00228 mg/L	0.000802	-0.00228 mg/L	0.000802	35.18%		
Tl 190.801†	-44.4	-0.0139 mg/L	0.00129	-0.0139 mg/L	0.00129	9.25%		
V 290.880†	754.8	0.00152 mg/L	0.001149	0.00152 mg/L	0.001149	75.50%		
Zn 206.200†	205.3	0.00230 mg/L	0.000178	0.00230 mg/L	0.000178	7.75%		

Approved: July 27, 2012

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K 766.490†	3241.5	1.01 mg/L	0.009	1.01 mg/L	0.009	0.86%
Na 589.592†	61582.0	3.03 mg/L	0.074	3.03 mg/L	0.074	2.43%
Sr 407.771†	831273.5	0.319 mg/L	0.0088	0.319 mg/L	0.0088	2.75%
Li 670.784†	311.5	-0.00142 mg/L	0.000183	-0.00142 mg/L	0.000183	12.90%

Sequence No.: 45

Sample ID: CCV

Analyst:

Initial Sample Wt:

Dilution:

Sampler Location: 6

Date Collected: 7/27/2012 12:06:34 AM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

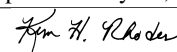
Nebulizer Parameters: CCV

Analyte	Back Pressure	Flow
All	164.0 kPa	0.00 L/min

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 371.029	2348710.4				9618.49	0.41%
YRADIAL	288339.4				3121.81	1.08%
Ga 417.206	1258376.0				20633.16	1.64%
GaRADIAL	80606.9				292.77	0.36%
Ag 328.068†	130580.0	0.422 mg/L	0.0091	0.422 mg/L	0.0091	2.15%
QC value within limits for Ag	328.068	Recovery = 105.38%				
Al 396.153†	68291.4	10.1 mg/L	0.03	10.1 mg/L	0.03	0.32%
QC value within limits for Al	396.153	Recovery = 100.96%				
As 188.979†	1456.3	0.411 mg/L	0.0082	0.411 mg/L	0.0082	2.00%
QC value within limits for As	188.979	Recovery = 102.65%				
Ba 233.527†	174073.4	1.05 mg/L	0.003	1.05 mg/L	0.003	0.30%
QC value within limits for Ba	233.527	Recovery = 104.96%				
Be 234.861†	62305.1	0.0526 mg/L	0.00088	0.0526 mg/L	0.00088	1.67%
QC value within limits for Be	234.861	Recovery = 105.16%				
B 249.677†	56121.2	0.513 mg/L	0.0159	0.513 mg/L	0.0159	3.10%
QC value within limits for B	249.677	Recovery = 102.66%				
Ca 227.546†	4536.7	10.7 mg/L	0.27	10.7 mg/L	0.27	2.50%
QC value within limits for Ca	227.546	Recovery = 106.72%				
Cd 228.802†	2885.9	0.0520 mg/L	0.00187	0.0520 mg/L	0.00187	3.59%
QC value within limits for Cd	228.802	Recovery = 103.93%				
Co 228.616†	9119.3	0.208 mg/L	0.0013	0.208 mg/L	0.0013	0.63%
QC value within limits for Co	228.616	Recovery = 103.98%				
Cr 267.716†	64904.9	0.526 mg/L	0.0034	0.526 mg/L	0.0034	0.65%
QC value within limits for Cr	267.716	Recovery = 105.30%				
Cu 327.393†	130203.6	0.516 mg/L	0.0086	0.516 mg/L	0.0086	1.68%
QC value within limits for Cu	327.393	Recovery = 103.14%				
Fe 239.562†	60725.6	4.15 mg/L	0.020	4.15 mg/L	0.020	0.49%
QC value within limits for Fe	239.562	Recovery = 103.85%				
Mg 279.077†	34648.9	10.4 mg/L	0.08	10.4 mg/L	0.08	0.78%
QC value within limits for Mg	279.077	Recovery = 104.39%				
Mn 257.610†	421663.5	0.522 mg/L	0.0016	0.522 mg/L	0.0016	0.31%
QC value within limits for Mn	257.610	Recovery = 104.43%				
Mo 202.031†	38268.7	1.03 mg/L	0.005	1.03 mg/L	0.005	0.50%
QC value within limits for Mo	202.031	Recovery = 103.21%				
Ni 231.604†	36990.0	0.535 mg/L	0.0026	0.535 mg/L	0.0026	0.50%
QC value within limits for Ni	231.604	Recovery = 107.02%				
Pb 220.353†	7123.4	0.524 mg/L	0.0015	0.524 mg/L	0.0015	0.28%
QC value within limits for Pb	220.353	Recovery = 104.89%				
Sb 206.836†	5779.8	1.24 mg/L	0.029	1.24 mg/L	0.029	2.34%
QC value within limits for Sb	206.836	Recovery = 103.55%				
Se 196.026†	847.6	0.418 mg/L	0.0108	0.418 mg/L	0.0108	2.60%
QC value within limits for Se	196.026	Recovery = 104.41%				
Si 251.611†	265258.6	5.23 mg/L	0.082	5.23 mg/L	0.082	1.57%
QC value within limits for Si	251.611	Recovery = 104.62%				
Sn 189.927†	12853.5	1.05 mg/L	0.004	1.05 mg/L	0.004	0.41%
QC value within limits for Sn	189.927	Recovery = 104.90%				
Ti 334.940†	1063565.0	1.03 mg/L	0.003	1.03 mg/L	0.003	0.30%
QC value within limits for Ti	334.940	Recovery = 102.71%				
Tl 190.801†	2060.8	0.538 mg/L	0.0080	0.538 mg/L	0.0080	1.49%
QC value within limits for Tl	190.801	Recovery = 107.61%				
V 290.880†	254740.9	1.04 mg/L	0.006	1.04 mg/L	0.006	0.56%

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QC value within limits for V 290.880 Recovery = 103.96%
 Zn 206.200† 61156.0 1.08 mg/L 0.005 1.08 mg/L 0.005 0.48%
 QC value within limits for Zn 206.200 Recovery = 107.51%
 K 766.490† 152005.5 50.5 mg/L 0.60 50.5 mg/L 0.60 1.18%
 QC value within limits for K 766.490 Recovery = 101.05%
 Na 589.592† 1015059.4 51.0 mg/L 0.39 51.0 mg/L 0.39 0.76%
 QC value within limits for Na 589.592 Recovery = 102.07%
 Sr 407.771† 2595928.6 1.00 mg/L 0.017 1.00 mg/L 0.017 1.65%
 QC value within limits for Sr 407.771 Recovery = 100.41%
 Li 670.784† 149742.7 1.000 mg/L 0.0107 1.000 mg/L 0.0107 1.07%
 QC value within limits for Li 670.784 Recovery = 100.00%
 All analyte(s) passed QC.

Sequence No.: 46

Sample ID: CCB

Analyst:

Initial Sample Wt:

Dilution:

U&S sampler Location: 1

Date Collected: 7/27/2012 12:12:45 AM

Sample Type: Original

Initial Sample Vol:

Sample Prep Vol:

Nebulizer Parameters: CCB

Analyte	Back Pressure	Flow
All	164.0 kPa	0.00 L/min

Mean Data: CCB

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 371.029	2409060.3				3164.21	0.13%
YRADIAL	291894.7				4948.15	1.70%
Ga 417.206	1280345.2				13655.51	1.07%
GaRADIAL	82232.7				1432.28	1.74%
Ag 328.068†	4.6	0.00052 mg/L	0.000441	0.00052 mg/L	0.000441	85.04%
QC value within limits for Ag 328.068						Recovery = Not calculated
Al 396.153†	8.6	-0.00032 mg/L	0.001877	-0.00032 mg/L	0.001877	589.03%
QC value within limits for Al 396.153						Recovery = Not calculated
As 188.979†	2.1	-0.00083 mg/L	0.000981	-0.00083 mg/L	0.000981	118.16%
QC value within limits for As 188.979						Recovery = Not calculated
Ba 233.527†	52.2	-0.00149 mg/L	0.000138	-0.00149 mg/L	0.000138	9.24%
QC value within limits for Ba 233.527						Recovery = Not calculated
Be 234.861†	-41.6	0.00001 mg/L	0.000022	0.00001 mg/L	0.000022	165.33%
QC value within limits for Be 234.861						Recovery = Not calculated
B 249.677†	552.3	0.00607 mg/L	0.000101	0.00607 mg/L	0.000101	1.66%
QC value within limits for B 249.677						Recovery = Not calculated
Ca 227.546†	2.9	0.0510 mg/L	0.00486	0.0510 mg/L	0.00486	9.53%
QC value within limits for Ca 227.546						Recovery = Not calculated
Cd 228.802†	11.9	0.00021 mg/L	0.000092	0.00021 mg/L	0.000092	43.61%
QC value within limits for Cd 228.802						Recovery = Not calculated
Co 228.616†	3.5	-0.00011 mg/L	0.000171	-0.00011 mg/L	0.000171	160.51%
QC value within limits for Co 228.616						Recovery = Not calculated
Cr 267.716†	10.9	-0.00044 mg/L	0.000060	-0.00044 mg/L	0.000060	13.49%
QC value within limits for Cr 267.716						Recovery = Not calculated
Cu 327.393†	176.6	0.00111 mg/L	0.000221	0.00111 mg/L	0.000221	19.83%
QC value within limits for Cu 327.393						Recovery = Not calculated
Fe 239.562†	29.7	0.00678 mg/L	0.000441	0.00678 mg/L	0.000441	6.50%
QC value within limits for Fe 239.562						Recovery = Not calculated
Mg 279.077†	33.3	0.0394 mg/L	0.00266	0.0394 mg/L	0.00266	6.74%
QC value within limits for Mg 279.077						Recovery = Not calculated
Mn 257.610†	110.3	-0.00068 mg/L	0.000016	-0.00068 mg/L	0.000016	2.39%
QC value within limits for Mn 257.610						Recovery = Not calculated
Mo 202.031†	16.6	-0.00042 mg/L	0.000131	-0.00042 mg/L	0.000131	31.27%
QC value within limits for Mo 202.031						Recovery = Not calculated
Ni 231.604†	28.6	-0.00257 mg/L	0.000225	-0.00257 mg/L	0.000225	8.72%
QC value within limits for Ni 231.604						Recovery = Not calculated
Pb 220.353†	-21.9	-0.00202 mg/L	0.000700	-0.00202 mg/L	0.000700	34.58%
QC value within limits for Pb 220.353						Recovery = Not calculated
Sb 206.836†	-0.1	0.00083 mg/L	0.000696	0.00083 mg/L	0.000696	83.94%
QC value within limits for Sb 206.836						Recovery = Not calculated
Se 196.026†	-4.8	-0.00060 mg/L	0.000711	-0.00060 mg/L	0.000711	118.33%
QC value within limits for Se 196.026						Recovery = Not calculated
Si 251.611†	600.0	0.00881 mg/L	0.000313	0.00881 mg/L	0.000313	3.56%

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QC value within limits for Si 251.611	Recovery = Not calculated					
Sn 189.927†	27.7	0.00079 mg/L	0.000182	0.00079 mg/L	0.000182	23.06%
QC value within limits for Sn 189.927	Recovery = Not calculated					
Ti 334.940†	196.2	0.00027 mg/L	0.000225	0.00027 mg/L	0.000225	82.31%
QC value within limits for Ti 334.940	Recovery = Not calculated					
Tl 190.801†	-6.2	-0.00393 mg/L	0.002141	-0.00393 mg/L	0.002141	54.47%
QC value within limits for Tl 190.801	Recovery = Not calculated					
V 290.880†	536.9	0.00139 mg/L	0.000972	0.00139 mg/L	0.000972	70.05%
QC value within limits for V 290.880	Recovery = Not calculated					
Zn 206.200†	13.6	-0.00107 mg/L	0.000055	-0.00107 mg/L	0.000055	5.19%
QC value within limits for Zn 206.200	Recovery = Not calculated					
K 766.490†	33.5	-0.0546 mg/L	0.01688	-0.0546 mg/L	0.01688	30.93%
QC value within limits for K 766.490	Recovery = Not calculated					
Na 589.592†	313.9	0.0174 mg/L	0.00246	0.0174 mg/L	0.00246	14.14%
QC value within limits for Na 589.592	Recovery = Not calculated					
Sr 407.771†	797.2	-0.00012 mg/L	0.000018	-0.00012 mg/L	0.000018	14.82%
QC value within limits for Sr 407.771	Recovery = Not calculated					
Li 670.784†	128.5	-0.00264 mg/L	0.000204	-0.00264 mg/L	0.000204	7.72%
QC value within limits for Li 670.784	Recovery = Not calculated					
All analyte(s) passed QC.						

Sequence No.: 47
 Sample ID: L1207072510
 Analyst: KHR
 Initial Sample Wt:
 Dilution:

u\osampler Location: 107
 a\me Collected: 7/27/2012 12:19:50 AM
 a\da Type: Original
 n\itial Sample Vol:
 a\mple Prep Vol:

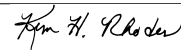
Nebulizer Parameters: L1207072510

Analyte	Back Pressure	Flow
All	164.0 kPa	0.00 L/min

Mean Data: L1207072510

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 371.029	2118010.2				2129.32	0.10%
YRADIAL	267485.6				5443.28	2.03%
Ga 417.206	1282672.7				10456.57	0.82%
GaRADIAL	83013.6				1217.02	1.47%
Ag 328.068†	3916.4	0.0127 mg/L	0.00017	0.0127 mg/L	0.00017	1.31%
Al 396.153†	-282.3	-0.0437 mg/L	0.00309	-0.0437 mg/L	0.00309	7.06%
As 188.979†	2.4	-0.00075 mg/L	0.003772	-0.00075 mg/L	0.003772	505.68%
Ba 233.527†	16630.0	0.0986 mg/L	0.00038	0.0986 mg/L	0.00038	0.38%
Be 234.861†	115.1	0.00016 mg/L	0.000021	0.00016 mg/L	0.000021	13.55%
B 249.677†	4540.5	0.0428 mg/L	0.00162	0.0428 mg/L	0.00162	3.79%
Ca 227.546†	239167.3	534 mg/L	6.9	534 mg/L	6.9	1.29%
Cd 228.802†	-0.8	-0.00002 mg/L	0.000067	-0.00002 mg/L	0.000067	292.95%
Co 228.616†	24.0	0.00054 mg/L	0.000132	0.00054 mg/L	0.000132	24.68%
Cr 267.716†	294.0	0.00185 mg/L	0.000084	0.00185 mg/L	0.000084	4.53%
Cu 327.393†	-997.9	-0.00362 mg/L	0.000431	-0.00362 mg/L	0.000431	11.92%
Fe 239.562†	308.4	0.0229 mg/L	0.00093	0.0229 mg/L	0.00093	4.05%
Mg 279.077†	492049.4	148 mg/L	1.5	148 mg/L	1.5	1.04%
Mn 257.610†	120084.8	0.148 mg/L	0.0008	0.148 mg/L	0.0008	0.53%
Mo 202.031†	78.3	0.00128 mg/L	0.000353	0.00128 mg/L	0.000353	27.61%
Ni 231.604†	132.4	-0.00106 mg/L	0.000114	-0.00106 mg/L	0.000114	10.81%
Pb 220.353†	-56.4	-0.00038 mg/L	0.001861	-0.00038 mg/L	0.001861	492.42%
Sb 206.836†	-9.0	-0.00109 mg/L	0.000718	-0.00109 mg/L	0.000718	65.80%
Se 196.026†	1.9	0.00260 mg/L	0.005484	0.00260 mg/L	0.005484	210.96%
Si 251.611†	805670.9	15.9 mg/L	0.18	15.9 mg/L	0.18	1.13%
Sn 189.927†	-484.1	-0.0410 mg/L	0.00069	-0.0410 mg/L	0.00069	1.67%
Ti 334.940†	-95640.2	-0.0120 mg/L	0.00238	-0.0120 mg/L	0.00238	19.88%
Tl 190.801†	-54.6	-0.0175 mg/L	0.00132	-0.0175 mg/L	0.00132	7.52%
V 290.880†	1121.5	-0.00007 mg/L	0.001723	-0.00007 mg/L	0.001723	>999.9%
Zn 206.200†	115.5	0.00073 mg/L	0.000348	0.00073 mg/L	0.000348	47.35%
K 766.490†	15605.7	5.12 mg/L	0.029	5.12 mg/L	0.029	0.57%
Na 589.592†	311388.8	15.4 mg/L	0.32	15.4 mg/L	0.32	2.08%
Sr 407.771†	4131137.1	1.59 mg/L	0.035	1.59 mg/L	0.035	2.20%
Li 670.784†	1115.4	0.00397 mg/L	0.000296	0.00397 mg/L	0.000296	7.46%

Approved: July 27, 2012



Sequence No.: 48
 Sample ID: L1207072512
 Analyst: KHR
 Initial Sample Wt:
 Dilution:

u&osampler Location: 108
 a&e Collected: 7/27/2012 12:27:03 AM
 a&a Type: Original
 n&itial Sample Vol:
 a&le Prep Vol:

Nebulizer Parameters: L1207072512

Analyte	Back Pressure	Flow
All	164.0 kPa	0.00 L/min

Mean Data: L1207072512

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 371.029	2154115.1				17327.54	0.80%
YRADIAL	270659.4				6660.66	2.46%
Ga 417.206	1291479.1				19250.13	1.49%
GaRADIAL	83302.3				931.82	1.12%
Ag 328.068†	3880.8	0.0126 mg/L	0.00051	0.0126 mg/L	0.00051	4.05%
Al 396.153†	-288.8	-0.0448 mg/L	0.00198	-0.0448 mg/L	0.00198	4.41%
As 188.979†	5.5	0.00016 mg/L	0.003081	0.00016 mg/L	0.003081	>999.9%
Ba 233.527†	15838.7	0.0938 mg/L	0.00119	0.0938 mg/L	0.00119	1.27%
Be 234.861†	152.7	0.00018 mg/L	0.000010	0.00018 mg/L	0.000010	5.74%
B 249.677†	4234.6	0.0399 mg/L	0.00053	0.0399 mg/L	0.00053	1.33%
Ca 227.546†	230717.5	515 mg/L	3.0	515 mg/L	3.0	0.59%
Cd 228.802†	2.3	0.00003 mg/L	0.000130	0.00003 mg/L	0.000130	417.92%
Co 228.616†	37.9	0.00085 mg/L	0.000025	0.00085 mg/L	0.000025	2.97%
Cr 267.716†	300.2	0.00190 mg/L	0.000216	0.00190 mg/L	0.000216	11.38%
Cu 327.393†	-1087.3	-0.00396 mg/L	0.000484	-0.00396 mg/L	0.000484	12.21%
Fe 239.562†	1110.4	0.0778 mg/L	0.00156	0.0778 mg/L	0.00156	2.00%
Mg 279.077†	477328.5	143 mg/L	1.2	143 mg/L	1.2	0.87%
Mn 257.610†	114710.6	0.141 mg/L	0.0025	0.141 mg/L	0.0025	1.78%
Mo 202.031†	141.4	0.00298 mg/L	0.000233	0.00298 mg/L	0.000233	7.81%
Ni 231.604†	241.3	0.00053 mg/L	0.000360	0.00053 mg/L	0.000360	68.55%
Pb 220.353†	-55.9	-0.00049 mg/L	0.000715	-0.00049 mg/L	0.000715	146.52%
Sb 206.836†	-10.7	-0.00146 mg/L	0.000936	-0.00146 mg/L	0.000936	64.28%
Se 196.026†	9.7	0.00643 mg/L	0.002032	0.00643 mg/L	0.002032	31.63%
Si 251.611†	786812.7	15.6 mg/L	0.13	15.6 mg/L	0.13	0.81%
Sn 189.927†	-472.3	-0.0401 mg/L	0.00048	-0.0401 mg/L	0.00048	1.19%
Ti 334.940†	-92016.2	-0.0113 mg/L	0.00180	-0.0113 mg/L	0.00180	15.91%
Tl 190.801†	-50.6	-0.0165 mg/L	0.00287	-0.0165 mg/L	0.00287	17.40%
V 290.880†	993.5	-0.00048 mg/L	0.000900	-0.00048 mg/L	0.000900	188.62%
Zn 206.200†	124.6	0.00089 mg/L	0.000028	0.00089 mg/L	0.000028	3.09%
K 766.490†	14302.0	4.68 mg/L	0.018	4.68 mg/L	0.018	0.39%
Na 589.592†	299834.7	14.8 mg/L	0.33	14.8 mg/L	0.33	2.22%
Sr 407.771†	3947236.6	1.52 mg/L	0.036	1.52 mg/L	0.036	2.35%
Li 670.784†	1086.2	0.00378 mg/L	0.000119	0.00378 mg/L	0.000119	3.14%

Sequence No.: 49
 Sample ID: L1207075002
 Analyst: KHR
 Initial Sample Wt:
 Dilution:

u&osampler Location: 109
 a&e Collected: 7/27/2012 12:34:15 AM
 a&a Type: Original
 n&itial Sample Vol:
 a&le Prep Vol:

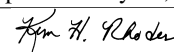
Nebulizer Parameters: L1207075002

Analyte	Back Pressure	Flow
All	164.0 kPa	0.00 L/min

Mean Data: L1207075002

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 371.029	2306613.9				9652.48	0.42%
YRADIAL	282009.6				5518.10	1.96%
Ga 417.206	1316877.1				13602.66	1.03%
GaRADIAL	82285.8				515.04	0.63%
Ag 328.068†	1518.5	0.00545 mg/L	0.000289	0.00545 mg/L	0.000289	5.31%
Al 396.153†	-107.2	-0.0176 mg/L	0.01373	-0.0176 mg/L	0.01373	78.15%
As 188.979†	-1.3	-0.00162 mg/L	0.002375	-0.00162 mg/L	0.002375	146.53%

Approved: July 27, 2012



Ba 233.527†	20855.5	0.124 mg/L	0.0011	0.124 mg/L	0.0011	0.90%
Be 234.861†	403.9	0.00023 mg/L	0.000133	0.00023 mg/L	0.000133	56.87%
B 249.677†	45479.2	0.419 mg/L	0.0063	0.419 mg/L	0.0063	1.51%
Ca 227.546†	80579.0	180 mg/L	3.2	180 mg/L	3.2	1.80%
Cd 228.802†	7.8	0.00014 mg/L	0.000153	0.00014 mg/L	0.000153	108.66%
Co 228.616†	13.2	0.00012 mg/L	0.000180	0.00012 mg/L	0.000180	152.68%
Cr 267.716†	171.6	0.00084 mg/L	0.000156	0.00084 mg/L	0.000156	18.72%
Cu 327.393†	13454.3	0.0535 mg/L	0.00079	0.0535 mg/L	0.00079	1.47%
Fe 239.562†	11341.9	0.779 mg/L	0.0125	0.779 mg/L	0.0125	1.60%
Mg 279.077†	85530.0	25.7 mg/L	0.59	25.7 mg/L	0.59	2.29%
Mn 257.610†	173711.1	0.214 mg/L	0.0013	0.214 mg/L	0.0013	0.59%
Mo 202.031†	71.9	0.00116 mg/L	0.000264	0.00116 mg/L	0.000264	22.82%
Ni 231.604†	516.0	0.00452 mg/L	0.000328	0.00452 mg/L	0.000328	7.26%
Pb 220.353†	23.9	0.00254 mg/L	0.000499	0.00254 mg/L	0.000499	19.69%
Sb 206.836†	-10.9	-0.00147 mg/L	0.002586	-0.00147 mg/L	0.002586	175.57%
Se 196.026†	-7.6	-0.00195 mg/L	0.001052	-0.00195 mg/L	0.001052	53.94%
Si 251.611†	593210.0	11.7 mg/L	0.11	11.7 mg/L	0.11	0.91%
Sn 189.927†	-338.1	-0.0291 mg/L	0.00033	-0.0291 mg/L	0.00033	1.15%
Ti 334.940†	-28293.6	-0.00020 mg/L	0.001546	-0.00020 mg/L	0.001546	783.92%
Tl 190.801†	-27.4	-0.00987 mg/L	0.004103	-0.00987 mg/L	0.004103	41.55%
V 290.880†	1110.3	0.00302 mg/L	0.001220	0.00302 mg/L	0.001220	40.45%
Zn 206.200†	2553.3	0.0434 mg/L	0.00027	0.0434 mg/L	0.00027	0.61%
K 766.490†	24147.5	7.91 mg/L	0.052	7.91 mg/L	0.052	0.66%
Na 589.592†	1300290.8	65.8 mg/L	1.48	65.8 mg/L	1.48	2.24%
Sr 407.771†	2629822.9	1.01 mg/L	0.010	1.01 mg/L	0.010	0.97%
Li 670.784†	6811.5	0.0421 mg/L	0.00052	0.0421 mg/L	0.00052	1.23%

Sequence No.: 50
Sample ID: L1207075003
Analyst: KHR
Initial Sample Wt:
Dilution:

u&osampler Location: 110
date Collected: 7/27/2012 12:40:27 AM
a&na Type: Original
n&itial Sample Vol:
a&mples Prep Vol:

Nebulizer Parameters: L1207075003

Analyte	Back Pressure	Flow
All	164.0 kPa	0.00 L/min

Mean Data: L1207075003

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 371.029	2342952.4				19592.05	0.84%
YRADIAL	284364.0				3448.11	1.21%
Ga 417.206	1334819.0				22282.83	1.67%
GarADIAL	82531.8				169.76	0.21%
Ag 328.068†	405.9	0.00373 mg/L	0.000294	0.00373 mg/L	0.000294	7.87%
Al 396.153†	-224.1	-0.0345 mg/L	0.00380	-0.0345 mg/L	0.00380	11.01%
As 188.979†	18.8	0.00522 mg/L	0.002325	0.00522 mg/L	0.002325	44.57%
Ba 233.527†	34443.8	0.206 mg/L	0.0028	0.206 mg/L	0.0028	1.35%
Be 234.861†	1627.6	0.00027 mg/L	0.000126	0.00027 mg/L	0.000126	46.78%
B 249.677†	31545.9	0.289 mg/L	0.0075	0.289 mg/L	0.0075	2.61%
Ca 227.546†	64379.0	144 mg/L	4.0	144 mg/L	4.0	2.78%
Cd 228.802†	12.4	0.00019 mg/L	0.000078	0.00019 mg/L	0.000078	40.52%
Co 228.616†	29.5	0.00034 mg/L	0.000214	0.00034 mg/L	0.000214	63.61%
Cr 267.716†	74.0	-0.00012 mg/L	0.000160	-0.00012 mg/L	0.000160	132.46%
Cu 327.393†	955.4	0.00442 mg/L	0.000387	0.00442 mg/L	0.000387	8.76%
Fe 239.562†	76932.8	5.26 mg/L	0.054	5.26 mg/L	0.054	1.03%
Mg 279.077†	66131.9	19.9 mg/L	0.19	19.9 mg/L	0.19	0.95%
Mn 257.610†	468972.6	0.580 mg/L	0.0099	0.580 mg/L	0.0099	1.71%
Mo 202.031†	96.6	0.00212 mg/L	0.000279	0.00212 mg/L	0.000279	13.16%
Ni 231.604†	159.9	-0.00066 mg/L	0.000336	-0.00066 mg/L	0.000336	50.75%
Pb 220.353†	2.9	0.00014 mg/L	0.000375	0.00014 mg/L	0.000375	261.95%
Sb 206.836†	-7.3	-0.00052 mg/L	0.001722	-0.00052 mg/L	0.001722	329.18%
Se 196.026†	-7.5	-0.00129 mg/L	0.000718	-0.00129 mg/L	0.000718	55.80%
Si 251.611†	548558.8	10.8 mg/L	0.18	10.8 mg/L	0.18	1.70%
Sn 189.927†	-323.7	-0.0279 mg/L	0.00077	-0.0279 mg/L	0.00077	2.76%
Ti 334.940†	-22819.6	-0.00035 mg/L	0.001868	-0.00035 mg/L	0.001868	538.13%
Tl 190.801†	-25.9	-0.00979 mg/L	0.002391	-0.00979 mg/L	0.002391	24.42%
V 290.880†	1181.2	0.00321 mg/L	0.001066	0.00321 mg/L	0.001066	33.23%
Zn 206.200†	2182.4	0.0368 mg/L	0.00022	0.0368 mg/L	0.00022	0.60%

Approved: July 27, 2012

Ann H. Rhodes

Method: 200.7-6010 PE-ICP2.1

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Date: 7/27/2012 12:55:34 AM

K 766.490†	8577.3	2.75 mg/L	0.033	2.75 mg/L	0.033	1.19%
Na 589.592†	803783.3	40.2 mg/L	0.72	40.2 mg/L	0.72	1.78%
Sr 407.771†	2114761.2	0.815 mg/L	0.0147	0.815 mg/L	0.0147	1.80%
Li 670.784†	4515.5	0.0268 mg/L	0.00026	0.0268 mg/L	0.00026	0.99%

Sequence No.: 51
 Sample ID: L1207075004
 Analyst: KHR
 Initial Sample Wt:
 Dilution:

u&osampler Location: 111
 a&e Collected: 7/27/2012 12:46:39 AM
 a&a Type: Original
 nitial Sample Vol:
 a&ple Prep Vol:

Nebulizer Parameters: L1207075004

Analyte	Back Pressure	Flow
All	164.0 kPa	0.00 L/min

Mean Data: L1207075004

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 371.029	2342981.9				17868.02	0.76%
YRADIAL	285109.4				3838.09	1.35%
Ga 417.206	1349497.6				24982.30	1.85%
GaRADIAL	83336.3				592.96	0.71%
Ag 328.068†	951.1	0.00392 mg/L	0.000469	0.00392 mg/L	0.000469	11.95%
Al 396.153†	-165.9	-0.0263 mg/L	0.00246	-0.0263 mg/L	0.00246	9.38%
As 188.979†	24.4	0.00595 mg/L	0.000782	0.00595 mg/L	0.000782	13.14%
Ba 233.527†	18527.1	0.110 mg/L	0.0013	0.110 mg/L	0.0013	1.17%
Be 234.861†	803.4	0.00047 mg/L	0.000086	0.00047 mg/L	0.000086	18.27%
B 249.677†	40024.2	0.369 mg/L	0.0076	0.369 mg/L	0.0076	2.07%
Ca 227.546†	53390.4	119 mg/L	3.3	119 mg/L	3.3	2.76%
Cd 228.802†	13.1	0.00021 mg/L	0.000084	0.00021 mg/L	0.000084	40.80%
Co 228.616†	85.0	0.00172 mg/L	0.000167	0.00172 mg/L	0.000167	9.71%
Cr 267.716†	120.1	0.00038 mg/L	0.000122	0.00038 mg/L	0.000122	31.91%
Cu 327.393†	122.9	0.00096 mg/L	0.000247	0.00096 mg/L	0.000247	25.78%
Fe 239.562†	24737.5	1.69 mg/L	0.033	1.69 mg/L	0.033	1.92%
Mg 279.077†	76983.9	23.1 mg/L	0.35	23.1 mg/L	0.35	1.50%
Mn 257.610†	1045616.3	1.29 mg/L	0.011	1.29 mg/L	0.011	0.85%
Mo 202.031†	101.0	0.00221 mg/L	0.000171	0.00221 mg/L	0.000171	7.75%
Ni 231.604†	850.4	0.00939 mg/L	0.000428	0.00939 mg/L	0.000428	4.56%
Pb 220.353†	7.7	0.00018 mg/L	0.001130	0.00018 mg/L	0.001130	620.07%
Sb 206.836†	-10.2	-0.00127 mg/L	0.000825	-0.00127 mg/L	0.000825	65.13%
Se 196.026†	-0.4	0.00142 mg/L	0.000940	0.00142 mg/L	0.000940	66.13%
Si 251.611†	539520.4	10.7 mg/L	0.12	10.7 mg/L	0.12	1.11%
Sn 189.927†	-309.6	-0.0268 mg/L	0.00081	-0.0268 mg/L	0.00081	3.04%
Ti 334.940†	-19282.9	-0.00062 mg/L	0.001211	-0.00062 mg/L	0.001211	195.54%
Tl 190.801†	-34.7	-0.0127 mg/L	0.00314	-0.0127 mg/L	0.00314	24.66%
V 290.880†	889.0	0.00213 mg/L	0.002025	0.00213 mg/L	0.002025	95.16%
Zn 206.200†	1568.6	0.0262 mg/L	0.00022	0.0262 mg/L	0.00022	0.85%
K 766.490†	9747.1	3.13 mg/L	0.022	3.13 mg/L	0.022	0.72%
Na 589.592†	1017942.7	51.2 mg/L	1.22	51.2 mg/L	1.22	2.39%
Sr 407.771†	1952855.1	0.753 mg/L	0.0118	0.753 mg/L	0.0118	1.56%
Li 670.784†	5196.6	0.0313 mg/L	0.00058	0.0313 mg/L	0.00058	1.85%

Sequence No.: 52
 Sample ID: L1207075005
 Analyst: KHR
 Initial Sample Wt:
 Dilution:

u&osampler Location: 112
 a&e Collected: 7/27/2012 12:52:51 AM
 a&a Type: Original
 nitial Sample Vol:
 a&ple Prep Vol:

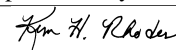
Nebulizer Parameters: L1207075005

Analyte	Back Pressure	Flow
All	164.0 kPa	0.00 L/min

Mean Data: L1207075005

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 371.029	2225339.9				40555.50	1.82%

Approved: July 27, 2012



YRADIAL	276046.2					1298.31	0.47%
Ga 417.206	1290113.2					6338.83	0.49%
GaRADIAL	80664.9					27.37	0.03%
Ag 328.068†	1524.3	0.00542 mg/L	0.000200	0.00542 mg/L	0.000200	3.69%	
Al 396.153†	-126.6	-0.0205 mg/L	0.01915	-0.0205 mg/L	0.01915	93.44%	
As 188.979†	-3.2	-0.00220 mg/L	0.001599	-0.00220 mg/L	0.001599	72.53%	
Ba 233.527†	22541.3	0.134 mg/L	0.0027	0.134 mg/L	0.0027	1.98%	
Be 234.861†	385.0	0.00024 mg/L	0.000070	0.00024 mg/L	0.000070	29.11%	
B 249.677†	48967.0	0.451 mg/L	0.0030	0.451 mg/L	0.0030	0.67%	
Ca 227.546†	86115.9	192 mg/L	2.2	192 mg/L	2.2	1.15%	
Cd 228.802†	17.2	0.00032 mg/L	0.000089	0.00032 mg/L	0.000089	28.02%	
Co 228.616†	17.8	0.00023 mg/L	0.000214	0.00023 mg/L	0.000214	94.77%	
Cr 267.716†	174.1	0.00086 mg/L	0.000020	0.00086 mg/L	0.000020	2.28%	
Cu 327.393†	1000.2	0.00436 mg/L	0.000781	0.00436 mg/L	0.000781	17.90%	
Fe 239.562†	9879.8	0.679 mg/L	0.0056	0.679 mg/L	0.0056	0.82%	
Mg 279.077†	90613.2	27.2 mg/L	0.09	27.2 mg/L	0.09	0.33%	
Mn 257.610†	174911.3	0.216 mg/L	0.0049	0.216 mg/L	0.0049	2.27%	
Mo 202.031†	84.9	0.00150 mg/L	0.000064	0.00150 mg/L	0.000064	4.27%	
Ni 231.604†	790.5	0.00852 mg/L	0.000389	0.00852 mg/L	0.000389	4.57%	
Pb 220.353†	-18.7	-0.00044 mg/L	0.001229	-0.00044 mg/L	0.001229	278.84%	
Sb 206.836†	-2.4	0.00036 mg/L	0.001074	0.00036 mg/L	0.001074	296.00%	
Se 196.026†	-5.3	-0.00083 mg/L	0.002113	-0.00083 mg/L	0.002113	255.03%	
Si 251.611†	623252.4	12.3 mg/L	0.12	12.3 mg/L	0.12	0.98%	
Sn 189.927†	-353.2	-0.0303 mg/L	0.00120	-0.0303 mg/L	0.00120	3.95%	
Ti 334.940†	-30337.7	-0.00031 mg/L	0.002020	-0.00031 mg/L	0.002020	645.71%	
Tl 190.801†	-43.6	-0.0140 mg/L	0.00300	-0.0140 mg/L	0.00300	21.41%	
V 290.880†	1537.1	0.00473 mg/L	0.002585	0.00473 mg/L	0.002585	54.69%	
Zn 206.200†	2786.9	0.0475 mg/L	0.00065	0.0475 mg/L	0.00065	1.37%	
K 766.490†	25454.7	8.34 mg/L	0.026	8.34 mg/L	0.026	0.31%	
Na 589.592†	1382619.7	70.1 mg/L	0.55	70.1 mg/L	0.55	0.78%	
Sr 407.771†	2776552.4	1.07 mg/L	0.005	1.07 mg/L	0.005	0.47%	
Li 670.784†	7133.0	0.0443 mg/L	0.00027	0.0443 mg/L	0.00027	0.60%	

Sequence No.: 53

Sample ID: L1207075636

Analyst: KHR

Initial Sample Wt:

Dilution:

Sampler Location: 113

Date Collected: 7/27/2012 12:59:03 AM

Sample Type: Original

Initial Sample Vol:

Sample Prep Vol:

Nebulizer Parameters: L1207075636

Analyte	Back Pressure	Flow
All	164.0 kPa	0.00 L/min

Mean Data: L1207075636

Analyte	Mean Corrected Intensity	Conc. Units	Calib. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 371.029	2423883.8					7739.74	0.32%
YRADIAL	298387.8					4770.43	1.60%
Ga 417.206	1333777.9					5140.68	0.39%
GaRADIAL	85000.1					1085.74	1.28%
Ag 328.068†	90.8	0.00079 mg/L	0.000048	0.00079 mg/L	0.000048	6.00%	
Al 396.153†	-76.8	-0.0130 mg/L	0.00044	-0.0130 mg/L	0.00044	3.39%	
As 188.979†	-3.1	-0.00231 mg/L	0.000409	-0.00231 mg/L	0.000409	17.70%	
Ba 233.527†	168.3	-0.00079 mg/L	0.000101	-0.00079 mg/L	0.000101	12.75%	
Be 234.861†	72.0	0.00011 mg/L	0.000023	0.00011 mg/L	0.000023	20.60%	
B 249.677†	505.3	0.00564 mg/L	0.000164	0.00564 mg/L	0.000164	2.92%	
Ca 227.546†	9.9	0.0668 mg/L	0.03054	0.0668 mg/L	0.03054	45.69%	
Cd 228.802†	3.1	0.00006 mg/L	0.000125	0.00006 mg/L	0.000125	222.79%	
Co 228.616†	4.6	-0.00008 mg/L	0.000217	-0.00008 mg/L	0.000217	271.08%	
Cr 267.716†	33.9	-0.00026 mg/L	0.000076	-0.00026 mg/L	0.000076	29.83%	
Cu 327.393†	84.4	0.00075 mg/L	0.000469	0.00075 mg/L	0.000469	62.45%	
Fe 239.562†	27.0	0.00660 mg/L	0.000016	0.00660 mg/L	0.000016	0.24%	
Mg 279.077†	27.8	0.0377 mg/L	0.000084	0.0377 mg/L	0.000084	2.23%	
Mn 257.610†	279.3	-0.00047 mg/L	0.000068	-0.00047 mg/L	0.000068	14.49%	
Mo 202.031†	-4.4	-0.00098 mg/L	0.000165	-0.00098 mg/L	0.000165	16.73%	
Ni 231.604†	27.9	-0.00258 mg/L	0.000100	-0.00258 mg/L	0.000100	3.87%	
Pb 220.353†	-5.2	-0.00079 mg/L	0.000921	-0.00079 mg/L	0.000921	115.94%	
Sb 206.836†	-3.7	0.00006 mg/L	0.000794	0.00006 mg/L	0.000794	>999.9%	
Se 196.026†	-3.4	0.00004 mg/L	0.000877	0.00004 mg/L	0.000877	>999.9%	

Approved: July 27, 2012

Ann H. Rhodes

Si 251.611†	12337.4	0.241 mg/L	0.0015	0.241 mg/L	0.0015	0.63%
Sn 189.927†	-0.4	-0.00150 mg/L	0.000511	-0.00150 mg/L	0.000511	34.04%
Ti 334.940†	101.9	0.00019 mg/L	0.000058	0.00019 mg/L	0.000058	31.43%
Tl 190.801†	0.2	-0.00231 mg/L	0.003005	-0.00231 mg/L	0.003005	130.12%
V 290.880†	469.0	0.00111 mg/L	0.000571	0.00111 mg/L	0.000571	51.48%
Zn 206.200†	209.7	0.00237 mg/L	0.000057	0.00237 mg/L	0.000057	2.40%
K 766.490†	111.6	-0.0296 mg/L	0.00830	-0.0296 mg/L	0.00830	28.06%
Na 589.592†	20492.2	1.01 mg/L	0.016	1.01 mg/L	0.016	1.54%
Sr 407.771†	602.6	-0.00019 mg/L	0.000005	-0.00019 mg/L	0.000005	2.38%
Li 670.784†	2.5	-0.00349 mg/L	0.000228	-0.00349 mg/L	0.000228	6.55%

Sequence No.: 54 u\osampler Location: 114
Sample ID: L1207075638 a\ne Collected: 7/27/2012 1:06:10 AM
Analyst: KHR a\nd a Type: Original
Initial Sample Wt: nitial Sample Vol:
Dilution: a\ngle Prep Vol:

Nebulizer Parameters: L1207075638
Analyte Back Pressure Flow
All 164.0 kPa 0.00 L/min

Mean Data: L1207075638

Analyte	Mean Corrected Intensity	Conc. Units	Calib. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 371.029	2395874.4					27515.28	1.15%
YRADIAL	295119.2					5301.18	1.80%
Ga 417.206	1327561.7					25191.99	1.90%
GaRADIAL	84358.8					1270.45	1.51%
Ag 328.068†	-91.5	0.00021 mg/L	0.000082	0.00021 mg/L	0.000082	38.33%	
Al 396.153†	-86.7	-0.0145 mg/L	0.00162	-0.0145 mg/L	0.00162	11.21%	
As 188.979†	3.8	-0.00035 mg/L	0.000534	-0.00035 mg/L	0.000534	153.08%	
Ba 233.527†	126.2	-0.00105 mg/L	0.000043	-0.00105 mg/L	0.000043	4.12%	
Be 234.861†	34.8	0.00008 mg/L	0.000028	0.00008 mg/L	0.000028	36.50%	
B 249.677†	270.5	0.00348 mg/L	0.000261	0.00348 mg/L	0.000261	7.50%	
Ca 227.546†	6.5	0.0591 mg/L	0.03003	0.0591 mg/L	0.03003	50.83%	
Cd 228.802†	6.4	0.00011 mg/L	0.000078	0.00011 mg/L	0.000078	73.69%	
Co 228.616†	-0.2	-0.00019 mg/L	0.000174	-0.00019 mg/L	0.000174	90.75%	
Cr 267.716†	35.0	-0.00025 mg/L	0.000078	-0.00025 mg/L	0.000078	31.57%	
Cu 327.393†	151.3	0.00101 mg/L	0.000199	0.00101 mg/L	0.000199	19.65%	
Fe 239.562†	35.4	0.00718 mg/L	0.000526	0.00718 mg/L	0.000526	7.33%	
Mg 279.077†	7.9	0.0317 mg/L	0.00113	0.0317 mg/L	0.00113	3.55%	
Mn 257.610†	188.5	-0.00058 mg/L	0.000039	-0.00058 mg/L	0.000039	6.80%	
Mo 202.031†	-1.6	-0.00091 mg/L	0.000088	-0.00091 mg/L	0.000088	9.68%	
Ni 231.604†	23.5	-0.00265 mg/L	0.000124	-0.00265 mg/L	0.000124	4.68%	
Pb 220.353†	-7.8	-0.00099 mg/L	0.000336	-0.00099 mg/L	0.000336	34.03%	
Sb 206.836†	-3.2	0.00016 mg/L	0.000831	0.00016 mg/L	0.000831	529.56%	
Se 196.026†	-1.4	0.00102 mg/L	0.002195	0.00102 mg/L	0.002195	214.80%	
Si 251.611†	22379.8	0.440 mg/L	0.0067	0.440 mg/L	0.0067	1.53%	
Sn 189.927†	4.3	-0.00112 mg/L	0.000844	-0.00112 mg/L	0.000844	75.61%	
Ti 334.940†	28.2	0.00011 mg/L	0.000092	0.00011 mg/L	0.000092	81.10%	
Tl 190.801†	-5.2	-0.00368 mg/L	0.001297	-0.00368 mg/L	0.001297	35.28%	
V 290.880†	708.2	0.00209 mg/L	0.000160	0.00209 mg/L	0.000160	7.64%	
Zn 206.200†	221.7	0.00258 mg/L	0.000127	0.00258 mg/L	0.000127	4.93%	
K 766.490†	41.1	-0.0530 mg/L	0.03850	-0.0530 mg/L	0.03850	72.59%	
Na 589.592†	20265.8	0.998 mg/L	0.0252	0.998 mg/L	0.0252	2.53%	
Sr 407.771†	377.9	-0.00028 mg/L	0.000022	-0.00028 mg/L	0.000022	7.97%	
Li 670.784†	23.4	-0.00335 mg/L	0.000495	-0.00335 mg/L	0.000495	14.79%	

Sequence No.: 55 u\osampler Location: 115
Sample ID: L1207076101 a\ne Collected: 7/27/2012 1:13:17 AM
Analyst: KHR a\nd a Type: Original
Initial Sample Wt: nitial Sample Vol:
Dilution: a\ngle Prep Vol:

Nebulizer Parameters: L1207076101
Analyte Back Pressure Flow
All 164.0 kPa 0.00 L/min

Approved: July 27, 2012
[Signature]

Mean Data: L1207076101

Analyte	Mean Corrected		Calib.	Std.Dev.	Sample		Std.Dev.	RSD
	Intensity	Conc.	Units		Conc.	Units		
Y 371.029	2348483.1					38233.77	1.63%	
YRADIAL	286953.9					5406.57	1.88%	
Ga 417.206	1368518.7					12219.24	0.89%	
GaRADIAL	83998.0					1043.58	1.24%	
Ag 328.068†	296.1	0.00130	mg/L	0.000143	0.00130	0.000143	10.95%	
Al 396.153†	95.9	0.0126	mg/L	0.00145	0.0126	0.00145	11.46%	
As 188.979†	0.9	-0.00116	mg/L	0.002509	-0.00116	0.002509	216.51%	
Ba 233.527†	113703.2	0.685	mg/L	0.0157	0.685	0.0157	2.29%	
Be 234.861†	134.9	0.00018	mg/L	0.000008	0.00018	0.000008	4.30%	
B 249.677†	2346.4	0.0225	mg/L	0.00037	0.0225	0.00037	1.66%	
Ca 227.546†	20078.4	44.9	mg/L	0.30	44.9	0.30	0.67%	
Cd 228.802†	16.0	0.00028	mg/L	0.000060	0.00028	0.000060	20.90%	
Co 228.616†	-30.0	-0.00109	mg/L	0.000098	-0.00109	0.000098	9.03%	
Cr 267.716†	113.7	0.00039	mg/L	0.000210	0.00039	0.000210	53.41%	
Cu 327.393†	4347.6	0.0176	mg/L	0.00043	0.0176	0.00043	2.44%	
Fe 239.562†	1032.7	0.0751	mg/L	0.00106	0.0751	0.00106	1.41%	
Mg 279.077†	40053.8	12.0	mg/L	0.23	12.0	0.23	1.91%	
Mn 257.610†	219517.8	0.271	mg/L	0.0060	0.271	0.0060	2.21%	
Mo 202.031†	43.1	0.00036	mg/L	0.000316	0.00036	0.000316	88.78%	
Ni 231.604†	62.2	-0.00208	mg/L	0.000109	-0.00208	0.000109	5.22%	
Pb 220.353†	49.5	0.00340	mg/L	0.000548	0.00340	0.000548	16.10%	
Sb 206.836†	-4.0	0.00000	mg/L	0.000865	0.00000	0.000865	>999.9%	
Se 196.026†	-2.5	0.00043	mg/L	0.002466	0.00043	0.002466	577.50%	
Si 251.611†	291883.8	5.77	mg/L	0.052	5.77	0.052	0.90%	
Sn 189.927†	-240.8	-0.0212	mg/L	0.00058	-0.0212	0.00058	2.74%	
Ti 334.940†	-7702.0	-0.00062	mg/L	0.000205	-0.00062	0.000205	33.33%	
Tl 190.801†	-26.0	-0.00935	mg/L	0.000084	-0.00935	0.000084	0.90%	
V 290.880†	489.3	0.00085	mg/L	0.000972	0.00085	0.000972	114.42%	
Zn 206.200†	6989.5	0.121	mg/L	0.0018	0.121	0.0018	1.50%	
K 766.490†	5830.0	1.86	mg/L	0.027	1.86	0.027	1.45%	
Na 589.592†	310746.6	15.4	mg/L	0.33	15.4	0.33	2.15%	
Sr 407.771†	1778704.8	0.687	mg/L	0.0297	0.687	0.0297	4.33%	
Li 670.784†	594.2	0.00048	mg/L	0.000158	0.00048	0.000158	32.98%	

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Sequence No.: 56

Sample ID: L1207076101 0.01

Analyst: KHR

Initial Sample Wt:

Dilution:

uAosampler Location: 116

aDe Collected: 7/27/2012 1:20:29 AM

aDe Type: Original

Initial Sample Vol:

aDe Prep Vol:

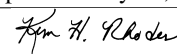
Nebulizer Parameters: L1207076101 0.01

Analyte	Back Pressure	Flow
All	164.0 kPa	0.00 L/min

Mean Data: L1207076101 0.01

Analyte	Mean Corrected		Calib.	Std.Dev.	Sample		Std.Dev.	RSD
	Intensity	Conc.	Units		Conc.	Units		
Y 371.029	2437668.9					27470.90	1.13%	
YRADIAL	298308.1					5916.89	1.98%	
Ga 417.206	1336155.8					15400.10	1.15%	
GaRADIAL	85190.4					1352.80	1.59%	
Ag 328.068†	-99.2	0.00018	mg/L	0.000189	0.00018	0.000189	104.36%	
Al 396.153†	-106.6	-0.0174	mg/L	0.00142	-0.0174	0.00142	8.14%	
As 188.979†	10.9	0.00169	mg/L	0.001082	0.00169	0.001082	64.17%	
Ba 233.527†	1168.4	0.00525	mg/L	0.000028	0.00525	0.000028	0.53%	
Be 234.861†	151.7	0.00018	mg/L	0.000017	0.00018	0.000017	9.27%	
B 249.677†	-32.1	0.00070	mg/L	0.000218	0.00070	0.000218	31.39%	
Ca 227.546†	215.8	0.527	mg/L	0.0126	0.527	0.0126	2.39%	
Cd 228.802†	0.3	-0.00002	mg/L	0.000142	-0.00002	0.000142	854.05%	
Co 228.616†	2.0	-0.00014	mg/L	0.000255	-0.00014	0.000255	178.64%	
Cr 267.716†	-4.4	-0.00057	mg/L	0.000098	-0.00057	0.000098	17.21%	
Cu 327.393†	63.2	0.00067	mg/L	0.000423	0.00067	0.000423	63.53%	
Fe 239.562†	-0.2	0.00474	mg/L	0.000247	0.00474	0.000247	5.21%	
Mg 279.077†	455.9	0.166	mg/L	0.0024	0.166	0.0024	1.47%	

Approved: July 27, 2012



Mn 257.610†	2237.0	0.00196 mg/L	0.000045	0.00196 mg/L	0.000045	2.30%
Mo 202.031†	-10.4	-0.00115 mg/L	0.000042	-0.00115 mg/L	0.000042	3.68%
Ni 231.604†	35.3	-0.00248 mg/L	0.000041	-0.00248 mg/L	0.000041	1.66%
Pb 220.353†	-13.2	-0.00138 mg/L	0.000736	-0.00138 mg/L	0.000736	53.30%
Sb 206.836†	-4.5	-0.00012 mg/L	0.000853	-0.00012 mg/L	0.000853	737.59%
Se 196.026†	-6.8	-0.00162 mg/L	0.001361	-0.00162 mg/L	0.001361	84.01%
Si 251.611†	3377.7	0.0637 mg/L	0.00156	0.0637 mg/L	0.00156	2.45%
Sn 189.927†	2.1	-0.00130 mg/L	0.000637	-0.00130 mg/L	0.000637	49.07%
Ti 334.940†	-177.4	-0.00001 mg/L	0.000080	-0.00001 mg/L	0.000080	536.75%
Tl 190.801†	4.4	-0.00124 mg/L	0.001367	-0.00124 mg/L	0.001367	110.53%
V 290.880†	60.0	-0.00057 mg/L	0.001074	-0.00057 mg/L	0.001074	189.87%
Zn 206.200†	119.1	0.00078 mg/L	0.000080	0.00078 mg/L	0.000080	10.22%
K 766.490†	37.3	-0.0535 mg/L	0.02463	-0.0535 mg/L	0.02463	46.09%
Na 589.592†	3169.2	0.158 mg/L	0.0066	0.158 mg/L	0.0066	4.17%
Sr 407.771†	17341.4	0.00627 mg/L	0.000182	0.00627 mg/L	0.000182	2.90%
Li 670.784†	-102.3	-0.00419 mg/L	0.000391	-0.00419 mg/L	0.000391	9.34%

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Sequence No.: 57 **u\osampler Location:** 6
Sample ID: CCV **ame Collected:** 7/27/2012 1:27:37 AM
Analyst: **ana Type:** Original
Initial Sample Wt: **nitial Sample Vol:**
Dilution: **ample Prep Vol:**

Nebulizer Parameters: CCV
Analyte **Back Pressure** **Flow**
 All 164.0 kPa 0.00 L/min

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 371.029	2349554.0				14341.99	0.61%
YRADIAL	284988.8				2589.98	0.91%
Ga 417.206	1259295.1				6525.08	0.52%
GaRADIAL	79948.9				824.01	1.03%
Ag 328.068†	131799.6	0.425 mg/L	0.0042	0.425 mg/L	0.0042	0.99%
QC value within limits for Ag	328.068	Recovery =	106.36%			
Al 396.153†	69171.2	10.2 mg/L	0.03	10.2 mg/L	0.03	0.27%
QC value within limits for Al	396.153	Recovery =	102.26%			
As 188.979†	1462.9	0.412 mg/L	0.0050	0.412 mg/L	0.0050	1.22%
QC value within limits for As	188.979	Recovery =	103.11%			
Ba 233.527†	175874.5	1.06 mg/L	0.004	1.06 mg/L	0.004	0.35%
QC value within limits for Ba	233.527	Recovery =	106.05%			
Be 234.861†	62921.7	0.0531 mg/L	0.00028	0.0531 mg/L	0.00028	0.53%
QC value within limits for Be	234.861	Recovery =	106.19%			
B 249.677†	56421.4	0.516 mg/L	0.0068	0.516 mg/L	0.0068	1.32%
QC value within limits for B	249.677	Recovery =	103.21%			
Ca 227.546†	4553.8	10.7 mg/L	0.15	10.7 mg/L	0.15	1.37%
QC value within limits for Ca	227.546	Recovery =	107.14%			
Cd 228.802†	2911.5	0.0524 mg/L	0.00125	0.0524 mg/L	0.00125	2.38%
QC value within limits for Cd	228.802	Recovery =	104.87%			
Co 228.616†	9187.4	0.210 mg/L	0.0018	0.210 mg/L	0.0018	0.84%
QC value within limits for Co	228.616	Recovery =	104.75%			
Cr 267.716†	65316.8	0.530 mg/L	0.0023	0.530 mg/L	0.0023	0.43%
QC value within limits for Cr	267.716	Recovery =	105.97%			
Cu 327.393†	130998.6	0.519 mg/L	0.0074	0.519 mg/L	0.0074	1.42%
QC value within limits for Cu	327.393	Recovery =	103.77%			
Fe 239.562†	61372.8	4.20 mg/L	0.014	4.20 mg/L	0.014	0.32%
QC value within limits for Fe	239.562	Recovery =	104.96%			
Mg 279.077†	35217.4	10.6 mg/L	0.05	10.6 mg/L	0.05	0.51%
QC value within limits for Mg	279.077	Recovery =	106.09%			
Mn 257.610†	425111.7	0.526 mg/L	0.0039	0.526 mg/L	0.0039	0.75%
QC value within limits for Mn	257.610	Recovery =	105.28%			
Mo 202.031†	38518.1	1.04 mg/L	0.001	1.04 mg/L	0.001	0.06%
QC value within limits for Mo	202.031	Recovery =	103.88%			
Ni 231.604†	37287.4	0.539 mg/L	0.0037	0.539 mg/L	0.0037	0.69%
QC value within limits for Ni	231.604	Recovery =	107.89%			
Pb 220.353†	7163.1	0.527 mg/L	0.0035	0.527 mg/L	0.0035	0.65%
QC value within limits for Pb	220.353	Recovery =	105.47%			
Sb 206.836†	5817.5	1.25 mg/L	0.020	1.25 mg/L	0.020	1.60%

Approved: July 27, 2012 <i>[Signature]</i>

Se	196.026†	851.0	0.419 mg/L	0.0065	0.419 mg/L	0.0065	1.56%
Si	251.611†	266589.6	5.26 mg/L	0.017	5.26 mg/L	0.017	0.33%
Sn	189.927†	12881.1	1.05 mg/L	0.008	1.05 mg/L	0.008	0.75%
Ti	334.940†	1069823.6	1.03 mg/L	0.002	1.03 mg/L	0.002	0.15%
Tl	190.801†	2076.4	0.542 mg/L	0.0079	0.542 mg/L	0.0079	1.46%
V	290.880†	255852.4	1.04 mg/L	0.006	1.04 mg/L	0.006	0.55%
Zn	206.200†	61567.1	1.08 mg/L	0.003	1.08 mg/L	0.003	0.30%
K	766.490†	153637.7	51.1 mg/L	0.69	51.1 mg/L	0.69	1.35%
Na	589.592†	1023495.2	51.5 mg/L	1.05	51.5 mg/L	1.05	2.05%
Sr	407.771†	2616979.2	1.01 mg/L	0.011	1.01 mg/L	0.011	1.11%
Li	670.784†	150840.5	1.01 mg/L	0.014	1.01 mg/L	0.014	1.40%

QC value within limits for Sb 206.836 Recovery = 104.23%
 QC value within limits for Se 196.026 Recovery = 104.83%
 QC value within limits for Si 251.611 Recovery = 105.15%
 QC value within limits for Sn 189.927 Recovery = 105.13%
 QC value within limits for Ti 334.940 Recovery = 103.31%
 QC value within limits for Tl 190.801 Recovery = 108.42%
 QC value within limits for V 290.880 Recovery = 104.42%
 QC value within limits for Zn 206.200 Recovery = 108.23%
 QC value within limits for K 766.490 Recovery = 102.14%
 QC value within limits for Na 589.592 Recovery = 102.94%
 QC value within limits for Sr 407.771 Recovery = 101.23%
 QC value within limits for Li 670.784 Recovery = 100.73%
 All analyte(s) passed QC.

Sequence No.: 58
 Sample ID: CCB
 Analyst:
 Initial Sample Wt:
 Dilution:

u\osampler Location: 1
 ame Collected: 7/27/2012 1:33:49 AM
 ana Type: Original
 nitial Sample Vol:
 ample Prep Vol:

Nebulizer Parameters: CCB

Analyte	Back Pressure	Flow
All	164.0 kPa	0.00 L/min

Mean Data: CCB

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 371.029	2416569.7				11265.30	0.47%
YRADIAL	289502.7				6623.01	2.29%
Ga 417.206	1286310.8				7500.84	0.58%
GaRADIAL	82083.8				1288.60	1.57%
Ag 328.068†	115.9	0.00087 mg/L	0.000384	0.00087 mg/L	0.000384	44.04%
QC value within limits for Ag 328.068						
Al 396.153†	13.6	0.00043 mg/L	0.001815	0.00043 mg/L	0.001815	422.01%
QC value within limits for Al 396.153						
As 188.979†	5.9	0.00027 mg/L	0.002116	0.00027 mg/L	0.002116	774.55%
QC value within limits for As 188.979						
Ba 233.527†	54.3	-0.00148 mg/L	0.000077	-0.00148 mg/L	0.000077	5.21%
QC value within limits for Ba 233.527						
Be 234.861†	-9.6	0.00004 mg/L	0.000013	0.00004 mg/L	0.000013	32.23%
QC value within limits for Be 234.861						
B 249.677†	290.9	0.00366 mg/L	0.000260	0.00366 mg/L	0.000260	7.08%
QC value within limits for B 249.677						
Ca 227.546†	-0.7	0.0432 mg/L	0.02781	0.0432 mg/L	0.02781	64.40%
QC value within limits for Ca 227.546						
Cd 228.802†	8.3	0.00014 mg/L	0.000093	0.00014 mg/L	0.000093	66.97%
QC value within limits for Cd 228.802						
Co 228.616†	6.6	-0.00004 mg/L	0.000230	-0.00004 mg/L	0.000230	656.57%
QC value within limits for Co 228.616						
Cr 267.716†	34.1	-0.00026 mg/L	0.000167	-0.00026 mg/L	0.000167	65.66%
QC value within limits for Cr 267.716						
Cu 327.393†	112.2	0.00086 mg/L	0.000308	0.00086 mg/L	0.000308	35.89%
QC value within limits for Cu 327.393						
Fe 239.562†	17.7	0.00597 mg/L	0.000591	0.00597 mg/L	0.000591	9.90%
QC value within limits for Fe 239.562						
Mg 279.077†	22.0	0.0360 mg/L	0.00203	0.0360 mg/L	0.00203	5.63%
QC value within limits for Mg 279.077						
Mn 257.610†	134.2	-0.00065 mg/L	0.000013	-0.00065 mg/L	0.000013	1.94%

Approved: July 27, 2012

Ann H. Rhodes

Mo	202.031†	QC value within limits for Mn	257.610	Recovery = Not calculated			
			17.8	-0.00039 mg/L	0.000142	-0.00039 mg/L	0.000142 36.88%
Ni	231.604†	QC value within limits for Mo	202.031	Recovery = Not calculated			
			40.6	-0.00240 mg/L	0.000147	-0.00240 mg/L	0.000147 6.11%
Pb	220.353†	QC value within limits for Ni	231.604	Recovery = Not calculated			
			-15.8	-0.00157 mg/L	0.001147	-0.00157 mg/L	0.001147 72.94%
Sb	206.836†	QC value within limits for Pb	220.353	Recovery = Not calculated			
			-0.5	0.00075 mg/L	0.000215	0.00075 mg/L	0.000215 28.85%
Se	196.026†	QC value within limits for Sb	206.836	Recovery = Not calculated			
			-3.5	0.00001 mg/L	0.002154	0.00001 mg/L	0.002154 >999.9%
Si	251.611†	QC value within limits for Se	196.026	Recovery = Not calculated			
			393.1	0.00471 mg/L	0.000164	0.00471 mg/L	0.000164 3.48%
Sn	189.927†	QC value within limits for Si	251.611	Recovery = Not calculated			
			14.6	-0.00028 mg/L	0.000407	-0.00028 mg/L	0.000407 147.45%
Ti	334.940†	QC value within limits for Sn	189.927	Recovery = Not calculated			
			293.4	0.00037 mg/L	0.000225	0.00037 mg/L	0.000225 61.36%
Tl	190.801†	QC value within limits for Ti	334.940	Recovery = Not calculated			
			-2.8	-0.00307 mg/L	0.000883	-0.00307 mg/L	0.000883 28.79%
V	290.880†	QC value within limits for Tl	190.801	Recovery = Not calculated			
			221.1	0.00010 mg/L	0.000200	0.00010 mg/L	0.000200 207.48%
Zn	206.200†	QC value within limits for V	290.880	Recovery = Not calculated			
			21.3	-0.00093 mg/L	0.000077	-0.00093 mg/L	0.000077 8.31%
K	766.490†	QC value within limits for Zn	206.200	Recovery = Not calculated			
			-38.1	-0.0784 mg/L	0.03281	-0.0784 mg/L	0.03281 41.83%
Na	589.592†	QC value within limits for K	766.490	Recovery = Not calculated			
			303.7	0.0169 mg/L	0.00224	0.0169 mg/L	0.00224 13.22%
Sr	407.771†	QC value within limits for Na	589.592	Recovery = Not calculated			
			889.6	-0.00008 mg/L	0.000022	-0.00008 mg/L	0.000022 26.84%
Li	670.784†	QC value within limits for Sr	407.771	Recovery = Not calculated			
			105.5	-0.00280 mg/L	0.000211	-0.00280 mg/L	0.000211 7.55%
		QC value within limits for Li	670.784	Recovery = Not calculated			

All analyte(s) passed QC.

Sequence No.: 59
 Sample ID: LLCCV
 Analyst: KHR
 Initial Sample Wt:
 Dilution:

uAosampler Location: 117
 aMe Collected: 7/27/2012 1:40:54 AM
 aMa Type: Original
 nitial Sample Vol:
 ample Prep Vol:

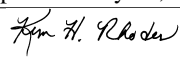
Nebulizer Parameters: LLCCV

Analyte Back Pressure Flow
 All 164.0 kPa 0.00 L/min

Mean Data: LLCCV

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 371.029	2433317.7				26990.65	1.11%
YRADIAL	293377.3				767.04	0.26%
Ga 417.206	1294027.6				11054.43	0.85%
GaRADIAL	82970.4				2407.02	2.90%
Ag 328.068†	1216.8	0.00443 mg/L	0.000135	0.00443 mg/L	0.000135	3.05%
Al 396.153†	684.7	0.0997 mg/L	0.00099	0.0997 mg/L	0.00099	0.99%
As 188.979†	18.0	0.00367 mg/L	0.001206	0.00367 mg/L	0.001206	32.89%
Ba 233.527†	1786.5	0.00898 mg/L	0.000084	0.00898 mg/L	0.000084	0.93%
Be 234.861†	590.4	0.00055 mg/L	0.000026	0.00055 mg/L	0.000026	4.70%
B 249.677†	684.1	0.00725 mg/L	0.000180	0.00725 mg/L	0.000180	2.49%
Ca 227.546†	49.3	0.160 mg/L	0.0226	0.160 mg/L	0.0226	14.12%
Cd 228.802†	29.1	0.00051 mg/L	0.000093	0.00051 mg/L	0.000093	18.02%
Co 228.616†	96.0	0.00201 mg/L	0.000140	0.00201 mg/L	0.000140	6.97%
Cr 267.716†	664.1	0.00486 mg/L	0.000085	0.00486 mg/L	0.000085	1.76%
Cu 327.393†	1389.4	0.00591 mg/L	0.000549	0.00591 mg/L	0.000549	9.28%
Fe 239.562†	593.2	0.0453 mg/L	0.00076	0.0453 mg/L	0.00076	1.67%
Mg 279.077†	350.9	0.135 mg/L	0.0023	0.135 mg/L	0.0023	1.73%
Mn 257.610†	4658.6	0.00496 mg/L	0.000077	0.00496 mg/L	0.000077	1.55%
Mo 202.031†	374.2	0.00923 mg/L	0.000128	0.00923 mg/L	0.000128	1.38%
Ni 231.604†	399.5	0.00282 mg/L	0.000278	0.00282 mg/L	0.000278	9.85%
Pb 220.353†	63.1	0.00424 mg/L	0.000163	0.00424 mg/L	0.000163	3.84%
Sb 206.836†	51.2	0.0118 mg/L	0.00014	0.0118 mg/L	0.00014	1.22%
Se 196.026†	6.2	0.00476 mg/L	0.001097	0.00476 mg/L	0.001097	23.05%

Approved: July 27, 2012



Method: 200.7-6010 PE-ICP2.1

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Date: 7/27/2012 1:56:44 AM

Si 251.611†	3046.7	0.0571 mg/L	0.00084	0.0571 mg/L	0.00084	1.48%
Sn 189.927†	144.6	0.0104 mg/L	0.00017	0.0104 mg/L	0.00017	1.64%
Ti 334.940†	10554.9	0.0103 mg/L	0.00016	0.0103 mg/L	0.00016	1.55%
Tl 190.801†	13.4	0.00119 mg/L	0.001091	0.00119 mg/L	0.001091	91.53%
V 290.880†	2885.5	0.0110 mg/L	0.00061	0.0110 mg/L	0.00061	5.59%
Zn 206.200†	775.3	0.0123 mg/L	0.00006	0.0123 mg/L	0.00006	0.48%
K 766.490†	1792.6	0.531 mg/L	0.0059	0.531 mg/L	0.0059	1.11%
Na 589.592†	10155.1	0.501 mg/L	0.0134	0.501 mg/L	0.0134	2.68%
Sr 407.771†	26959.1	0.0100 mg/L	0.00029	0.0100 mg/L	0.00029	2.94%
Li 670.784†	1604.0	0.00725 mg/L	0.000429	0.00725 mg/L	0.000429	5.92%

Sequence No.: 60
 Sample ID: LLCCV
 Analyst: KHR
 Initial Sample Wt:
 Dilution:

u&osampler Location: 118
 a&e Collected: 7/27/2012 1:48:03 AM
 a&a Type: Original
 nitial Sample Vol:
 a&ple Prep Vol:

Nebulizer Parameters: LLCCV

Analyte	Back Pressure	Flow
All	164.0 kPa	0.00 L/min

Mean Data: LLCCV

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 371.029	2416204.3				17863.89	0.74%
YRADIAL	288449.2				3285.42	1.14%
Ga 417.206	1284099.1				17969.44	1.40%
GaRADIAL	81704.6				1330.29	1.63%
Ag 328.068†	2564.0	0.00877 mg/L	0.000185	0.00877 mg/L	0.000185	2.11%
Al 396.153†	1414.2	0.208 mg/L	0.0006	0.208 mg/L	0.0006	0.30%
As 188.979†	28.6	0.00665 mg/L	0.001309	0.00665 mg/L	0.001309	19.67%
Ba 233.527†	3653.4	0.0203 mg/L	0.00024	0.0203 mg/L	0.00024	1.18%
Be 234.861†	1234.3	0.00109 mg/L	0.000018	0.00109 mg/L	0.000018	1.65%
B 249.677†	1116.9	0.0112 mg/L	0.00126	0.0112 mg/L	0.00126	11.27%
Ca 227.546†	89.4	0.254 mg/L	0.0175	0.254 mg/L	0.0175	6.88%
Cd 228.802†	61.8	0.00111 mg/L	0.000106	0.00111 mg/L	0.000106	9.56%
Co 228.616†	192.5	0.00421 mg/L	0.000308	0.00421 mg/L	0.000308	7.32%
Cr 267.716†	1388.3	0.0107 mg/L	0.00017	0.0107 mg/L	0.00017	1.54%
Cu 327.393†	2731.4	0.0112 mg/L	0.00047	0.0112 mg/L	0.00047	4.16%
Fe 239.562†	1228.9	0.0887 mg/L	0.00035	0.0887 mg/L	0.00035	0.40%
Mg 279.077†	709.0	0.242 mg/L	0.0028	0.242 mg/L	0.0028	1.13%
Mn 257.610†	9018.1	0.0104 mg/L	0.00019	0.0104 mg/L	0.00019	1.81%
Mo 202.031†	779.1	0.0202 mg/L	0.00034	0.0202 mg/L	0.00034	1.68%
Ni 231.604†	784.6	0.00842 mg/L	0.000236	0.00842 mg/L	0.000236	2.80%
Pb 220.353†	138.9	0.00982 mg/L	0.000750	0.00982 mg/L	0.000750	7.64%
Sb 206.836†	113.3	0.0252 mg/L	0.00220	0.0252 mg/L	0.00220	8.75%
Se 196.026†	14.9	0.00903 mg/L	0.001255	0.00903 mg/L	0.001255	13.90%
Si 251.611†	5600.6	0.107 mg/L	0.0028	0.107 mg/L	0.0028	2.64%
Sn 189.927†	274.2	0.0209 mg/L	0.00033	0.0209 mg/L	0.00033	1.57%
Ti 334.940†	21528.3	0.0209 mg/L	0.00019	0.0209 mg/L	0.00019	0.89%
Tl 190.801†	39.6	0.00804 mg/L	0.002091	0.00804 mg/L	0.002091	26.00%
V 290.880†	5246.2	0.0206 mg/L	0.00050	0.0206 mg/L	0.00050	2.41%
Zn 206.200†	1771.3	0.0298 mg/L	0.00049	0.0298 mg/L	0.00049	1.63%
K 766.490†	3399.5	1.07 mg/L	0.004	1.07 mg/L	0.004	0.39%
Na 589.592†	20755.4	1.02 mg/L	0.030	1.02 mg/L	0.030	2.93%
Sr 407.771†	54192.9	0.0205 mg/L	0.00048	0.0205 mg/L	0.00048	2.34%
Li 670.784†	3181.1	0.0178 mg/L	0.00046	0.0178 mg/L	0.00046	2.58%

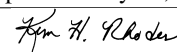
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 Sample ID: CCV
 Analyst:
 Initial Sample Wt:
 Dilution:

u&osampler Location: 6
 a&e Collected: 7/27/2012 1:55:11 AM
 a&a Type: Original
 nitial Sample Vol:
 a&ple Prep Vol:

Nebulizer Parameters: CCV

Analyte	Back Pressure	Flow
All	164.0 kPa	0.00 L/min

Approved: July 27, 2012



Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 371.029	2345286.6				19850.84	0.85%
YRADIAL	286425.4				1966.38	0.69%
Ga 417.206	1271693.5				11702.81	0.92%
GaRADIAL	80024.5				454.34	0.57%
Ag 328.068†	130608.4	0.422 mg/L	0.0057	0.422 mg/L	0.0057	1.34%
QC value within limits for Ag	328.068	Recovery = 105.40%				
Al 396.153†	69101.1	10.2 mg/L	0.01	10.2 mg/L	0.01	0.10%
QC value within limits for Al	396.153	Recovery = 102.16%				
As 188.979†	1448.8	0.408 mg/L	0.0057	0.408 mg/L	0.0057	1.40%
QC value within limits for As	188.979	Recovery = 102.11%				
Ba 233.527†	174449.5	1.05 mg/L	0.005	1.05 mg/L	0.005	0.44%
QC value within limits for Ba	233.527	Recovery = 105.19%				
Be 234.861†	61859.1	0.0522 mg/L	0.00074	0.0522 mg/L	0.00074	1.42%
QC value within limits for Be	234.861	Recovery = 104.38%				
B 249.677†	55377.8	0.506 mg/L	0.0057	0.506 mg/L	0.0057	1.13%
QC value within limits for B	249.677	Recovery = 101.29%				
Ca 227.546†	4509.7	10.6 mg/L	0.19	10.6 mg/L	0.19	1.76%
QC value within limits for Ca	227.546	Recovery = 106.14%				
Cd 228.802†	2879.2	0.0519 mg/L	0.00140	0.0519 mg/L	0.00140	2.69%
QC value within limits for Cd	228.802	Recovery = 103.71%				
Co 228.616†	9154.0	0.209 mg/L	0.0020	0.209 mg/L	0.0020	0.96%
QC value within limits for Co	228.616	Recovery = 104.37%				
Cr 267.716†	64847.8	0.526 mg/L	0.0026	0.526 mg/L	0.0026	0.50%
QC value within limits for Cr	267.716	Recovery = 105.21%				
Cu 327.393†	130270.0	0.516 mg/L	0.0067	0.516 mg/L	0.0067	1.30%
QC value within limits for Cu	327.393	Recovery = 103.19%				
Fe 239.562†	61286.4	4.19 mg/L	0.002	4.19 mg/L	0.002	0.05%
QC value within limits for Fe	239.562	Recovery = 104.81%				
Mg 279.077†	35147.1	10.6 mg/L	0.07	10.6 mg/L	0.07	0.71%
QC value within limits for Mg	279.077	Recovery = 105.88%				
Mn 257.610†	422573.8	0.523 mg/L	0.0034	0.523 mg/L	0.0034	0.64%
QC value within limits for Mn	257.610	Recovery = 104.65%				
Mo 202.031†	38208.6	1.03 mg/L	0.003	1.03 mg/L	0.003	0.31%
QC value within limits for Mo	202.031	Recovery = 103.04%				
Ni 231.604†	37119.4	0.537 mg/L	0.0064	0.537 mg/L	0.0064	1.18%
QC value within limits for Ni	231.604	Recovery = 107.40%				
Pb 220.353†	7130.5	0.525 mg/L	0.0063	0.525 mg/L	0.0063	1.19%
QC value within limits for Pb	220.353	Recovery = 104.99%				
Sb 206.836†	5734.2	1.23 mg/L	0.025	1.23 mg/L	0.025	2.01%
QC value within limits for Sb	206.836	Recovery = 102.73%				
Se 196.026†	846.0	0.417 mg/L	0.0096	0.417 mg/L	0.0096	2.30%
QC value within limits for Se	196.026	Recovery = 104.22%				
Si 251.611†	263018.0	5.19 mg/L	0.044	5.19 mg/L	0.044	0.85%
QC value within limits for Si	251.611	Recovery = 103.74%				
Sn 189.927†	12800.6	1.04 mg/L	0.011	1.04 mg/L	0.011	1.08%
QC value within limits for Sn	189.927	Recovery = 104.47%				
Ti 334.940†	1064060.3	1.03 mg/L	0.005	1.03 mg/L	0.005	0.51%
QC value within limits for Ti	334.940	Recovery = 102.76%				
Tl 190.801†	2067.5	0.540 mg/L	0.0088	0.540 mg/L	0.0088	1.63%
QC value within limits for Tl	190.801	Recovery = 107.94%				
V 290.880†	253956.4	1.04 mg/L	0.006	1.04 mg/L	0.006	0.62%
QC value within limits for V	290.880	Recovery = 103.64%				
Zn 206.200†	60521.6	1.06 mg/L	0.005	1.06 mg/L	0.005	0.44%
QC value within limits for Zn	206.200	Recovery = 106.40%				
K 766.490†	152653.7	50.7 mg/L	0.32	50.7 mg/L	0.32	0.64%
QC value within limits for K	766.490	Recovery = 101.48%				
Na 589.592†	1015752.3	51.1 mg/L	0.45	51.1 mg/L	0.45	0.88%
QC value within limits for Na	589.592	Recovery = 102.14%				
Sr 407.771†	2585414.1	1.00 mg/L	0.017	1.00 mg/L	0.017	1.67%
QC value within limits for Sr	407.771	Recovery = 100.01%				
Li 670.784†	150411.3	1.00 mg/L	0.007	1.00 mg/L	0.007	0.74%
QC value within limits for Li	670.784	Recovery = 100.44%				

All analyte(s) passed QC.

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Sequence No.: 62

Sample ID: CCB

u&osampler Location: 1

Date Collected: 7/27/2012 2:01:22 AM

Approved: July 27, 2012

Ann H. Rhodes

Analyst: aha Type: Original
Initial Sample Wt: nitial Sample Vol:
Dilution: ample Prep Vol:

Nebulizer Parameters: CCB

Table with columns: Analyte, Back Pressure, Flow. Row: All, 164.0 kPa, 0.00 L/min

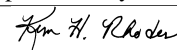
Mean Data: CCB

Table with columns: Analyte, Mean Corrected Intensity, Conc. Units, Calib., Std.Dev., Sample Conc. Units, Std.Dev., RSD. Lists various elements like Ag, Al, As, Ba, Be, B, Ca, Cd, Co, Cr, Cu, Fe, Mg, Mn, Mo, Ni, Pb, Sb, Se, Si, Sn, Ti, Tl, V, Zn, K, Na, Sr with their respective values.

Approved: July 27, 2012
[Signature]

QC value within limits for Sr 407.771 Recovery = Not calculated
Li 670.784† 53.6 -0.00314 mg/L 0.000611 -0.00314 mg/L 0.000611 19.43%
QC value within limits for Li 670.784 Recovery = Not calculated
All analyte(s) passed QC.

Approved: July 27, 2012



Sample Name: S0 Acquired: 7/25/2012 13:21:36 Type: Cal
 Method: ICP-THERMO2_6010_200.7(v1999) Mode: IR Corr. Factor: 1.000000
 User: KHR Custom ID1: Custom ID2: Custom ID3:
 Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	-.00333	.00104	.00031	.00003	.01092	-.00428	-.01117
Stddev	.00097	.00039	.00006	.00023	.00105	.00029	.00042
%RSD	29.274	37.400	20.349	937.15	9.6529	6.8400	3.8037

#1	-.00349	.00090	.00025	.00009	.01174	-.00459	-.01068
#2	-.00228	.00149	.00032	-.00024	.00973	-.00401	-.01137
#3	-.00421	.00074	.00037	.00022	.01129	-.00425	-.01146

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	Hf2322	Hf2641
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	-.00008	.00017	.00221	-.00006	.00013	.00002	.00030
Stddev	.00013	.00015	.00045	.00006	.00012	.00015	.00010
%RSD	168.08	90.977	20.471	90.497	92.672	675.83	33.668

#1	.00007	.00028	.00249	-.00001	-.00001	-.00009	.00025
#2	-.00015	.00023	.00169	-.00013	.00020	-.00004	.00024
#3	-.00015	-.00001	.00245	-.00005	.00020	.00019	.00042

Elem	Hf2773	Hf3399	K_7664	Li6707	Mg2790	Mn2576	Mo2020
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	-.00058	-.00019	.00144	-.00218	.00046	-.00051	.00002
Stddev	.00013	.00019	.00235	.00035	.00006	.00024	.00003
%RSD	22.185	100.96	163.33	16.012	12.846	46.106	192.24

#1	-.00071	-.00031	-.00110	-.00192	.00044	-.00052	.00004
#2	-.00045	-.00030	.00353	-.00205	.00053	-.00074	.00002
#3	-.00060	.00003	.00189	-.00257	.00042	-.00027	-.00002

Elem	Na5895	Ni2316	P_2149	Pb2203	Rb7800	S_1807	S_1820
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	-.02381	-.00180	.00033	-.00120	-.02741	-.00085	-.00030
Stddev	.00171	.00006	.00004	.00012	.00356	.00001	.00003
%RSD	7.1996	3.3886	13.487	9.9235	13.004	1.7689	9.5763

#1	-.02184	-.00173	.00034	-.00134	-.02342	-.00085	-.00031
#2	-.02497	-.00180	.00028	-.00111	-.02854	-.00083	-.00033
#3	-.02461	-.00185	.00037	-.00116	-.03028	-.00086	-.00027

Approved: July 27, 2012



Sample Name: S0 Acquired: 7/25/2012 13:21:36 Type: Cal
 Method: ICP-THERMO2_6010_200.7(v1999) Mode: IR Corr. Factor: 1.000000
 User: KHR Custom ID1: Custom ID2: Custom ID3:
 Comment:

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3372	Tl1908
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.00036	-.00038	.00038	.00021	.00291	-.00183	-.00027
Stddev	.00015	.00006	.00003	.00002	.00045	.00015	.00003
%RSD	41.831	16.392	7.9168	10.953	15.635	8.0892	9.3138

#1	.00044	-.00042	.00036	.00021	.00343	-.00172	-.00025
#2	.00047	-.00031	.00042	.00019	.00268	-.00200	-.00026
#3	.00019	-.00040	.00036	.00023	.00262	-.00177	-.00030


Elem	V_2924	Zn2062	Zr3391
Units	Cts/S	Cts/S	Cts/S
Avg	.00064	-.00113	-.00537
Stddev	.00052	.00009	.00039
%RSD	80.759	7.5091	7.2281

#1	.00024	-.00104	-.00549
#2	.00122	-.00119	-.00494
#3	.00045	-.00117	-.00569

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	24768.	15497.
Stddev	220.	996.
%RSD	.88812	6.4268

#1	25001.	16608.
#2	24738.	15201.
#3	24564.	14683.

Approved: July 27, 2012



Sample Name: S1 Acquired: 7/25/2012 13:25:12 Type: Cal
 Method: ICP-THERMO2_6010_200.7(v1999) Mode: IR Corr. Factor: 1.000000
 User: KHR Custom ID1: Custom ID2: Custom ID3:
 Comment:

Elem	Ag3280	Al3082	Ba4554	Be3131	Ca4226	Cd2288	Co2286
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	-.00140	.00287	.02200	-.00104	-.00852	.00031	.00100
Stddev	.00024	.00006	.00091	.00013	.00027	.00005	.00004
%RSD	16.866	2.0009	4.1325	12.732	3.1904	16.519	4.3219

#1	-.00148	.00290	.02096	-.00090	-.00834	.00037	.00096
#2	-.00113	.00290	.02243	-.00107	-.00884	.00028	.00104
#3	-.00158	.00280	.02261	-.00116	-.00839	.00029	.00098

Elem	Cr2677	Cu2247	Fe2611	Hf2322	Hf2641	Hf2773	Hf3399
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.00448	.00081	.00094	.00016	.00038	-.00038	-.00029
Stddev	.00013	.00006	.00044	.00017	.00008	.00011	.00039
%RSD	2.8806	7.9418	46.625	104.24	19.852	30.236	136.17

#1	.00447	.00086	.00050	.00020	.00034	-.00050	-.00043
#2	.00462	.00074	.00095	.00030	.00047	-.00036	.00016
#3	.00436	.00083	.00137	-.00002	.00034	-.00028	-.00058

Elem	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.00897	.00021	.00114	.00140	.00150	.00313	-.00135
Stddev	.00249	.00111	.00026	.00010	.00006	.00170	.00005
%RSD	27.776	526.45	22.902	7.0830	3.7830	54.551	3.9743

#1	.00609	-.00055	.00085	.00137	.00153	.00119	-.00129
#2	.01037	-.00031	.00135	.00150	.00143	.00381	-.00136
#3	.01043	.00149	.00121	.00131	.00152	.00438	-.00140

Elem	P_2149	Pb2203	Rb7800	S_1807	S_1820	Sb2068	Si2124
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.00037	-.00072	-.02909	-.00078	-.00034	.00069	.00086
Stddev	.00009	.00017	.00152	.00002	.00002	.00009	.00005
%RSD	25.278	23.176	5.2147	3.0563	7.1577	13.635	5.8866

#1	.00046	-.00069	-.02777	-.00076	-.00032	.00072	.00092
#2	.00028	-.00057	-.02874	-.00079	-.00033	.00058	.00083
#3	.00037	-.00090	-.03074	-.00081	-.00037	.00076	.00084

Approved: July 27, 2012



Sample Name: S1 Acquired: 7/25/2012 13:25:12 Type: Cal
 Method: ICP-THERMO2_6010_200.7(v1999) Mode: IR Corr. Factor: 1.000000
 User: KHR Custom ID1: Custom ID2: Custom ID3:
 Comment:

Elem	Sn1899	Sr4077	Ti3372	V_2924	Zn2062	Zr3391
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.00118	.02061	-.00053	.00639	.00531	-.00614
Stddev	.00006	.00075	.00040	.00023	.00001	.00021
%RSD	4.9274	3.6195	75.162	3.6121	.17048	3.3984

#1	.00124	.02014	-.00087	.00612	.00532	-.00631
#2	.00116	.02022	-.00061	.00655	.00531	-.00591
#3	.00113	.02147	-.00010	.00649	.00531	-.00622

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	24810.	15334.
Stddev	207.	419.
%RSD	.83475	2.7305

#1	25011.	15812.
#2	24822.	15153.
#3	24597.	15036.

Approved: July 27, 2012



Sample Name: S2 Acquired: 7/25/2012 13:28:25 Type: Cal
Method: ICP-THERMO2_6010_200.7(v1999) Mode: IR Corr. Factor: 1.000000
User: KHR Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.00014	.00305	.00055	.00183	.03555	.00278	-.00712
Stddev	.00048	.00008	.00004	.00018	.00366	.00013	.00055
%RSD	352.10	2.4986	7.0166	9.8336	10.289	4.7514	7.7384

#1	-.00005	.00296	.00060	.00180	.03152	.00263	-.00657
#2	-.00022	.00308	.00053	.00203	.03646	.00286	-.00767
#3	.00068	.00311	.00053	.00167	.03866	.00287	-.00713

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	Hf2322	Hf2641
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.00060	.00182	.00638	.00151	.00191	.00041	.00041
Stddev	.00006	.00010	.00030	.00015	.00047	.00009	.00009
%RSD	10.427	5.6200	4.6373	9.8624	24.752	22.241	22.737

#1	.00056	.00187	.00605	.00149	.00140	.00050	.00031
#2	.00057	.00189	.00646	.00137	.00200	.00042	.00048
#3	.00067	.00170	.00662	.00167	.00233	.00032	.00044

Elem	Hf2773	Hf3399	K_7664	Li6707	Mg2790	Mn2576	Mo2020
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	-.00041	-.00049	.01644	.00347	.00205	.00283	.00293
Stddev	.00029	.00020	.00151	.00124	.00031	.00021	.00008
%RSD	70.111	40.214	9.1974	35.615	14.882	7.3166	2.5781

#1	-.00070	-.00030	.01511	.00281	.00201	.00261	.00300
#2	-.00012	-.00070	.01613	.00489	.00177	.00286	.00285
#3	-.00041	-.00048	.01808	.00270	.00238	.00301	.00295

Elem	Na5895	Ni2316	P_2149	Pb2203	Rb7800	S_1807	S_1820
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.02814	-.00073	.00034	-.00046	-.02913	-.00077	-.00039
Stddev	.00388	.00008	.00004	.00005	.00221	.00002	.00003
%RSD	13.777	10.642	10.486	10.780	7.5861	2.3844	8.5408

#1	.02366	-.00082	.00032	-.00046	-.02659	-.00075	-.00042
#2	.03040	-.00070	.00038	-.00050	-.03015	-.00078	-.00035
#3	.03035	-.00067	.00032	-.00041	-.03065	-.00077	-.00039

Approved: July 27, 2012



Sample Name: S2 Acquired: 7/25/2012 13:28:25 Type: Cal
 Method: ICP-THERMO2_6010_200.7(v1999) Mode: IR Corr. Factor: 1.000000
 User: KHR Custom ID1: Custom ID2: Custom ID3:
 Comment:

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3372	Tl1908
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.00091	-.00021	.00140	.00227	.03697	.00107	-.00007
Stddev	.00012	.00008	.00001	.00004	.00312	.00037	.00002
%RSD	12.863	38.524	.52744	1.5898	8.4372	34.625	26.128

#1	.00104	-.00025	.00139	.00230	.03339	.00089	-.00005
#2	.00086	-.00012	.00140	.00227	.03848	.00149	-.00007
#3	.00083	-.00026	.00141	.00223	.03905	.00082	-.00009


Elem	V_2924	Zn2062	Zr3391
Units	Cts/S	Cts/S	Cts/S
Avg	.01284	.01169	-.00573
Stddev	.00053	.00004	.00070
%RSD	4.1109	.33431	12.240

#1	.01231	.01172	-.00609
#2	.01283	.01170	-.00618
#3	.01337	.01164	-.00492

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	24788.	15061.
Stddev	102.	787.
%RSD	.41048	5.2257

#1	24685.	15961.
#2	24792.	14721.
#3	24888.	14501.

Approved: July 27, 2012



Sample Name: S3 Acquired: 7/25/2012 13:31:34 Type: Cal
Method: ICP-THERMO2_6010_200.7(v1999) Mode: IR Corr. Factor: 1.000000
User: KHR Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.16026	.09017	.01346	.08471	1.2118	.32425	.22061
Stddev	.00232	.00578	.00010	.00086	.0784	.00389	.01549
%RSD	1.4466	6.4114	.70902	1.0157	6.4653	1.1993	7.0204

#1	.16184	.08365	.01357	.08469	1.1228	.32508	.20314
#2	.16135	.09220	.01341	.08558	1.2422	.32765	.22603
#3	.15760	.09467	.01339	.08386	1.2704	.32001	.23266

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	Hf2322	Hf2641
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.02981	.08300	.23717	.07756	.11517	.01679	.00066
Stddev	.00004	.00006	.00353	.00032	.00777	.00001	.00014
%RSD	.12937	.07402	1.4887	.40817	6.7494	.07153	21.528

#1	.02984	.08303	.23750	.07790	.10635	.01681	.00052
#2	.02982	.08304	.24052	.07727	.11809	.01679	.00065
#3	.02977	.08293	.23348	.07753	.12105	.01678	.00081

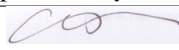
Elem	Hf2773	Hf3399	K_7664	Li6707	Mg2790	Mn2576	Mo2020
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	-.00024	-.00019	.70294	.26139	.08100	.14320	.14744
Stddev	.00021	.00025	.04319	.01806	.00580	.01050	.00032
%RSD	88.760	132.94	6.1445	6.9109	7.1551	7.3342	.21561

#1	-.00040	.00009	.65499	.24125	.07455	.13137	.14765
#2	.00000	-.00041	.71506	.26678	.08267	.14678	.14707
#3	-.00032	-.00024	.73878	.27615	.08577	.15144	.14759

Elem	Na5895	Ni2316	P_2149	Pb2203	Rb7800	S_1807	S_1820
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2.5110	.04568	.00039	.03403	-.02926	.00392	-.00051
Stddev	.1610	.00010	.00005	.00009	.00113	.00002	.00003
%RSD	6.4103	.22304	12.826	.27761	3.8538	.43468	5.1229

#1	2.3284	.04558	.00034	.03398	-.02798	.00394	-.00050
#2	2.5718	.04568	.00039	.03398	-.02969	.00391	-.00049
#3	2.6326	.04578	.00044	.03414	-.03011	.00391	-.00054

Approved: July 27, 2012



Sample Name: S3 Acquired: 7/25/2012 13:31:34 Type: Cal
 Method: ICP-THERMO2_6010_200.7(v1999) Mode: IR Corr. Factor: 1.000000
 User: KHR Custom ID1: Custom ID2: Custom ID3:
 Comment:

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3372	Tl1908
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.02923	.00733	.05037	.10296	1.6627	.14104	.00955
Stddev	.00009	.00009	.00027	.00012	.1026	.01048	.00008
%RSD	.32251	1.2467	.52666	.11530	6.1731	7.4314	.84843

#1	.02915	.00738	.05020	.10290	1.5459	.12931	.00954
#2	.02933	.00722	.05068	.10309	1.7035	.14435	.00964
#3	.02922	.00739	.05023	.10288	1.7387	.14947	.00948


Elem	V_2924	Zn2062	Zr3391
Units	Cts/S	Cts/S	Cts/S
Avg	.61809	.61779	-.00338
Stddev	.00696	.00088	.00050
%RSD	1.1264	.14281	14.698

#1	.61984	.61863	-.00380
#2	.62401	.61687	-.00351
#3	.61042	.61786	-.00283

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	24682.	15064.
Stddev	442.	484.
%RSD	1.7911	3.2151

#1	24548.	15605.
#2	24322.	14916.
#3	25175.	14672.

Approved: July 27, 2012



Sample Name: S4 Acquired: 7/25/2012 13:34:41 Type: Cal
 Method: ICP-THERMO2_6010_200.7(v1999) Mode: IR Corr. Factor: 1.000000
 User: KHR Custom ID1: Custom ID2: Custom ID3:
 Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.34648	.18216	.02804	.18101	2.4791	.69243	.46341
Stddev	.00748	.01433	.00018	.00391	.1964	.01116	.03805
%RSD	2.1586	7.8648	.62592	2.1621	7.9237	1.6115	8.2110

#1	.35293	.16596	.02794	.18449	2.2546	.70049	.41996
#2	.34823	.18733	.02824	.18176	2.5631	.69710	.47950
#3	.33828	.19318	.02793	.17677	2.6195	.67969	.49078

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	Hf2322	Hf2641
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.06222	.17190	.49942	.16092	.23766	.03437	.00085
Stddev	.00028	.00018	.00676	.00010	.01942	.00010	.00024
%RSD	.45402	.10618	1.3530	.06420	8.1725	.29485	28.072

#1	.06242	.17172	.50392	.16081	.21544	.03436	.00079
#2	.06234	.17208	.50269	.16101	.24610	.03448	.00064
#3	.06190	.17190	.49165	.16094	.25143	.03428	.00111

Elem	Hf2773	Hf3399	K_7664	Li6707	Mg2790	Mn2576	Mo2020
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	-.00016	-.00077	1.4320	.52724	.16511	.29378	.30641
Stddev	.00019	.00060	.1143	.04674	.01387	.02547	.00044
%RSD	118.99	77.984	7.9830	8.8658	8.3986	8.6714	.14237

#1	-.00032	-.00145	1.3017	.47406	.14936	.26523	.30659
#2	-.00019	-.00032	1.4787	.54586	.17052	.30192	.30673
#3	.00005	-.00054	1.5155	.56181	.17546	.31419	.30592

Elem	Na5895	Ni2316	P_2149	Pb2203	Rb7800	S_1807	S_1820
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5.0722	.09595	.00038	.07134	-.02663	.00885	-.00057
Stddev	.3937	.00012	.00005	.00026	.00084	.00009	.00004
%RSD	7.7624	.12522	12.877	.35889	3.1605	.98993	6.8713

#1	4.6218	.09582	.00036	.07105	-.02567	.00875	-.00057
#2	5.2440	.09605	.00035	.07154	-.02724	.00890	-.00061
#3	5.3508	.09599	.00043	.07144	-.02697	.00890	-.00053

Approved: July 27, 2012



Sample Name: S4 Acquired: 7/25/2012 13:34:41 Type: Cal
 Method: ICP-THERMO2_6010_200.7(v1999) Mode: IR Corr. Factor: 1.000000
 User: KHR Custom ID1: Custom ID2: Custom ID3:
 Comment:

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3372	Tl1908
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.06053	.01589	.10351	.21311	3.4125	.29151	.01976
Stddev	.00015	.00011	.00045	.00035	.2609	.02455	.00012
%RSD	.24368	.70559	.43880	.16373	7.6463	8.4202	.61366

#1	.06050	.01600	.10304	.21272	3.1135	.26364	.01972
#2	.06070	.01591	.10394	.21339	3.5301	.30097	.01989
#3	.06041	.01577	.10355	.21323	3.5940	.30992	.01966


Elem	V_2924	Zn2062	Zr3391
Units	Cts/S	Cts/S	Cts/S
Avg	1.3226	1.2862	-.00377
Stddev	.0238	.0026	.00043
%RSD	1.8027	.19849	11.360

#1	1.3409	1.2837	-.00426
#2	1.3312	1.2888	-.00347
#3	1.2956	1.2861	-.00359

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	23919.	15558.
Stddev	144.	588.
%RSD	.60406	3.7778

#1	23909.	16236.
#2	23780.	15239.
#3	24068.	15199.

Approved: July 27, 2012



Sample Name: ICV Acquired: 7/25/2012 13:37:51 Type: QC
 Method: ICP-THERMO2_6010_200.7(v1999) Mode: CONC Corr. Factor: 1.000000
 User: KHR Custom ID1: Custom ID2: Custom ID3:
 Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.38057	9.8785	.39609	.49259	.99467	.04881	9.8597
Stddev	.00153	.7822	.00152	.00461	.07716	.00026	.7253
%RSD	.40192	7.9181	.38322	.93573	7.7577	.53152	7.3566

#1	.37901	9.0099	.39434	.49633	.90669	.04857	9.0274
#2	.38207	10.099	.39708	.49399	1.0264	.04909	10.195
#3	.38062	10.527	.39685	.48744	1.0509	.04876	10.357

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	Hf2322	Hf2641
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.04978	.19891	.49321	.50386	4.0245	.99225	F .40026
Stddev	.00013	.00046	.00068	.00135	.3201	.00738	.25296
%RSD	.25224	.22939	.13697	.26726	7.9529	.74396	63.198

#1	.04981	.19844	.49248	.50411	3.6585	.98425	.27642
#2	.04964	.19935	.49381	.50506	4.1629	.99880	.69128
#3	.04989	.19893	.49336	.50240	4.2521	.99370	.23309

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
Value							1.0000
Range							-5.0000%

Elem	Hf2773	Hf3399	K_7664	Li6707	Mg2790	Mn2576	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F 1.0606	F .12156	49.630	.99503	9.9314	.49761	.96692
Stddev	.8460	1.4281	3.614	.08072	.8060	.04046	.00164
%RSD	79.770	1174.8	7.2825	8.1126	8.1158	8.1305	.16991

#1	1.2111	1.5994	45.525	.90251	9.0081	.45133	.96523
#2	1.8213	-1.2509	51.030	1.0315	10.291	.51528	.96851
#3	.14940	.01617	52.334	1.0511	10.495	.52623	.96702

Check ?	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	1.0000	1.0000					
Range	5.0000%	-5.0000%					

Approved: July 27, 2012



Sample Name: ICV Acquired: 7/25/2012 13:37:51 Type: QC
 Method: ICP-THERMO2_6010_200.7(v1999) Mode: CONC Corr. Factor: 1.000000
 User: KHR Custom ID1: Custom ID2: Custom ID3:
 Comment:

Elem	Na5895	Ni2316	P_2149	Pb2203	Rb7800	S_1807	S_1820
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	49.522	.50839	F 16.449	.50130	F 3.6693	10.122	F 7.5577
Stddev	3.772	.00084	19.886	.00132	12.157	.136	1.8595
%RSD	7.6166	.16447	120.89	.26255	331.33	1.3473	24.604

#1	45.210	.50747	39.367	.50045	-8.5871	10.258	9.5862
#2	51.152	.50909	6.2283	.50064	3.8699	10.123	5.9339
#3	52.206	.50863	3.7528	.50282	15.725	9.9853	7.1531

Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Fail	Chk Pass	Chk Fail
Value			10.000		10.000		10.000
Range			5.0000%		-5.0000%		-5.0000%

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3372	Ti1908
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.2219	.40225	4.9287	1.0160	.98578	.99906	.50970
Stddev	.0062	.00476	.0181	.0005	.07649	.07899	.00387
%RSD	.50861	1.1838	.36835	.05116	7.7595	7.9061	.75910

#1	1.2244	.40396	4.9273	1.0155	.89853	.90862	.51092
#2	1.2148	.39688	4.9112	1.0161	1.0175	1.0341	.50536
#3	1.2264	.40593	4.9475	1.0165	1.0413	1.0545	.51281


Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm
Avg	.97082	1.0064	F .41943
Stddev	.00196	.0018	.59428
%RSD	.20236	.18223	141.69

#1	.97238	1.0044	.67817
#2	.96862	1.0069	-.26036
#3	.97146	1.0080	.84048

Check ?	Chk Pass	Chk Pass	Chk Fail
Value			1.0000
Range			-5.0000%

Approved: July 27, 2012



Sample Name: ICV Acquired: 7/25/2012 13:37:51 Type: QC
Method: ICP-THERMO2_6010_200.7(v1999) Mode: CONC Corr. Factor: 1.000000
User: KHR Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	25650.	15674.
Stddev	130.	618.
%RSD	.50801	3.9408
#1	25712.	16379.
#2	25500.	15415.
#3	25738.	15228.

Approved: July 27, 2012



Sample Name: ICB Acquired: 7/25/2012 13:40:55 Type: Blank
 Method: ICP-THERMO2_6010_200.7(v1999) Mode: CONC Corr. Factor: 1.000000
 User: KHR Custom ID1: Custom ID2: Custom ID3:
 Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.00011	.04614	-.00082	.00462	.00085	-.00001	-.02451
Stddev	.00062	.02942	.00108	.00170	.00114	.00004	.04553
%RSD	581.40	63.779	131.18	36.872	133.40	275.35	185.77

#1	-.00011	.01492	-.00206	.00619	.00144	.00003	.02793
#2	.00052	.05012	-.00018	.00281	.00158	-.00005	-.05399
#3	-.00073	.07336	-.00022	.00486	-.00046	-.00002	-.04748

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	Hf2322	Hf2641
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00013	-.00027	.00054	.00015	-.01199	-.00086	F .21277
Stddev	.00017	.00023	.00037	.00035	.00504	.00292	.17279
%RSD	124.81	86.245	69.050	235.13	42.044	339.06	81.208

#1	-.00005	-.00005	.00058	.00017	-.01780	-.00052	.31062
#2	.00027	-.00024	.00015	.00048	-.00947	-.00394	.31443
#3	.00017	-.00052	.00089	-.00021	-.00871	.00187	.01327

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit							.10000
Low Limit							-.10000

Elem	Hf2773	Hf3399	K_7664	Li6707	Mg2790	Mn2576	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F .81856	F .18152	.20280	-.00304	-.01139	.00004	.00089
Stddev	.13207	2.2683	.06714	.00811	.02137	.00121	.00053
%RSD	16.134	1249.6	33.106	266.65	187.69	3208.7	58.782

#1	.94779	2.3197	.12542	.00500	-.01242	.00134	.00038
#2	.82407	-2.1976	.24563	-.00291	.01048	-.00106	.00086
#3	.68382	.42242	.23734	-.01121	-.03222	-.00017	.00143

Check ?	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	.10000	.10000					
Low Limit	-.10000	-.10000					

Approved: July 27, 2012



Sample Name: ICB Acquired: 7/25/2012 13:40:55 Type: Blank
 Method: ICP-THERMO2_6010_200.7(v1999) Mode: CONC Corr. Factor: 1.000000
 User: KHR Custom ID1: Custom ID2: Custom ID3:
 Comment:

Elem	Na5895	Ni2316	P_2149	Pb2203	Rb7800	S_1807	S_1820
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.12688	-.00006	F 6.8577	.00147	F 3.3022	F -.03428	F 4.6984
Stddev	.08372	.00058	12.779	.00152	11.000	.07076	.8926
%RSD	65.980	1008.1	186.35	103.39	333.11	206.39	18.998

#1	.21938	-.00051	-7.2587	.00301	-9.3701	-.03759	3.7328
#2	.10493	-.00026	10.194	.00145	8.8910	.03807	5.4934
#3	.05632	.00060	17.638	-.00004	10.386	-.10334	4.8690

Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Fail	Chk Fail	Chk Fail
High Limit			.01000		.01000	.01000	.01000
Low Limit			-.01000		-.01000	-.01000	-.01000

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3372	Tl1908
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00005	-.00073	.00478	-.00026	.00131	-.00106	.00216
Stddev	.00148	.00158	.00622	.00048	.00134	.00257	.00197
%RSD	2875.6	217.77	130.21	183.30	101.81	242.38	91.000

#1	-.00162	-.00155	-.00225	.00006	.00284	.00084	.00437
#2	.00058	-.00173	.00957	-.00004	.00039	-.00004	.00150
#3	.00119	.00110	.00702	-.00081	.00071	-.00398	.00061

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm
Avg	.00004	.00047	F -1.2808
Stddev	.00082	.00003	.3982
%RSD	2250.3	6.8597	31.091

#1	-.00058	.00045	-1.4125
#2	-.00027	.00050	-.83340
#3	.00096	.00045	-1.5965

Check ?	Chk Pass	Chk Pass	Chk Fail
High Limit			.10000
Low Limit			-.10000

Approved: July 27, 2012



Sample Name: ICB Acquired: 7/25/2012 13:40:55 Type: Blank
Method: ICP-THERMO2_6010_200.7(v1999) Mode: CONC Corr. Factor: 1.000000
User: KHR Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	24974.	15323.
Stddev	43.	680.
%RSD	.17321	4.4366
#1	25023.	16107.
#2	24955.	14967.
#3	24943.	14895.

Approved: July 27, 2012



Sample Name: ICSA Acquired: 7/25/2012 13:44:04 Type: QC
 Method: ICP-THERMO2_6010_200.7(v1999) Mode: CONC Corr. Factor: 1.000000
 User: KHR Custom ID1: Custom ID2: Custom ID3:
 Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.00111	242.28	.00046	-.01557	.00060	-.00004	222.37
Stddev	.00108	17.27	.00128	.00205	.00042	.00001	15.79
%RSD	98.100	7.1273	279.12	13.138	70.285	22.085	7.0993

#1	-.00005	222.45	.00069	-.01563	.00109	-.00005	204.57
#2	-.00221	250.42	-.00092	-.01758	.00043	-.00004	227.83
#3	-.00106	253.98	.00161	-.01349	.00030	-.00003	234.69

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	Hf2322	Hf2641
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00039	-.00059	.00043	.00085	95.802	F .60772	F 13.820
Stddev	.00013	.00009	.00094	.00491	7.088	.01229	1.239
%RSD	33.067	14.883	217.90	575.84	7.3982	2.0224	8.9667

#1	.00045	-.00066	.00152	.00646	87.744	.62180	12.623
#2	.00024	-.00063	-.00011	-.00123	98.593	.59916	15.098
#3	.00048	-.00049	-.00011	-.00268	101.07	.60219	13.740

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Fail
High Limit						.10000	.10000
Low Limit						-.10000	-.10000

Elem	Hf2773	Hf3399	K_7664	Li6707	Mg2790	Mn2576	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F 2.2495	F 2.1345	.26938	.00882	240.92	-.00057	-.00062
Stddev	.3122	1.3098	.25216	.00074	18.14	.00114	.00028
%RSD	13.877	61.361	93.605	8.3407	7.5278	199.51	45.425

#1	2.2034	2.1865	.06450	.00798	220.34	-.00087	-.00094
#2	2.5822	3.4176	.19266	.00928	247.84	-.00153	-.00047
#3	1.9630	.79958	.55099	.00922	254.58	.00069	-.00045

Check ?	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	.10000	.10000					
Low Limit	-.10000	-.10000					

Approved: July 27, 2012



Sample Name: ICSA Acquired: 7/25/2012 13:44:04 Type: QC
 Method: ICP-THERMO2_6010_200.7(v1999) Mode: CONC Corr. Factor: 1.000000
 User: KHR Custom ID1: Custom ID2: Custom ID3:
 Comment:

Elem	Na5895	Ni2316	P_2149	Pb2203	Rb7800	S_1807	S_1820
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F .12825	-0.0309	F -51.561	.00460	F 1.5698	F 235.99	F 37.184
Stddev	.03812	.00117	15.002	.00677	8.5192	.39	.197
%RSD	29.722	37.773	29.095	146.99	542.68	.16337	.53083

#1	.10116	-.00276	-48.420	.01231	-1.2874	236.44	37.388
#2	.11174	-.00439	-67.885	-.00037	11.150	235.73	36.994
#3	.17183	-.00212	-38.379	.00187	-5.1535	235.81	37.169

Check ?	Chk Fail	Chk Pass	Chk Fail	Chk Pass	Chk Fail	Chk Fail	Chk Fail
High Limit	.10000		.50000		.04000	.04000	.04000
Low Limit	-.10000		-.50000		-.04000	-.04000	-.04000

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3372	Tl1908
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00198	.00225	.25491	-.00074	.00031	-.00361	.00266
Stddev	.00761	.00126	.00675	.00017	.00009	.00192	.00364
%RSD	384.01	55.946	2.6481	22.763	29.410	53.155	136.68

#1	.00965	.00137	.26153	-.00063	.00037	-.00505	.00130
#2	.00186	.00369	.24804	-.00066	.00020	-.00143	.00679
#3	-.00557	.00169	.25516	-.00093	.00035	-.00433	-.00010

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm
Avg	.00140	.00134	F -6.0373
Stddev	.00088	.00010	.5391
%RSD	62.683	7.1261	8.9296

#1	.00168	.00134	-6.1630
#2	.00042	.00143	-5.4464
#3	.00211	.00124	-6.5024

Check ?	Chk Pass	Chk Pass	Chk Fail
High Limit			.10000
Low Limit			-.10000

Approved: July 27, 2012



Sample Name: ICSA Acquired: 7/25/2012 13:44:04 Type: QC
Method: ICP-THERMO2_6010_200.7(v1999) Mode: CONC Corr. Factor: 1.000000
User: KHR Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	23771.	14878.
Stddev	132.	465.
%RSD	.55691	3.1242
#1	23656.	15414.
#2	23741.	14609.
#3	23916.	14610.

Approved: July 27, 2012



Sample Name: ICSAB Acquired: 7/25/2012 13:47:09 Type: QC
 Method: ICP-THERMO2_6010_200.7(v1999) Mode: CONC Corr. Factor: 1.000000
 User: KHR Custom ID1: Custom ID2: Custom ID3:
 Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.50135	246.24	.25703	-.04174	.25299	.25172	227.05
Stddev	.00967	22.42	.00313	.00254	.02365	.00351	20.34
%RSD	1.9297	9.1063	1.2160	6.0909	9.3473	1.3963	8.9575

#1	.50792	220.50	.26025	-.04447	.22602	.25395	203.79
#2	.50590	256.68	.25682	-.03943	.26276	.25353	235.88
#3	.49024	261.55	.25401	-.04133	.27019	.24767	241.49

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	Hf2322	Hf2641
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.49718	.24690	.24880	.25772	97.732	F .62227	F 14.836
Stddev	.00042	.00085	.00383	.00575	9.108	.00317	.828
%RSD	.08406	.34377	1.5411	2.2293	9.3192	.50868	5.5794

#1	.49755	.24757	.25127	.26398	87.309	.62560	13.895
#2	.49727	.24719	.25075	.25647	101.73	.61930	15.161
#3	.49673	.24595	.24439	.25269	104.16	.62191	15.452

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Fail
High Limit						.10000	.10000
Low Limit						-.10000	-.10000

Elem	Hf2773	Hf3399	K_7664	Li6707	Mg2790	Mn2576	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F 2.5508	F 2.8546	5.9877	.00210	245.42	.24950	-.00067
Stddev	.5600	1.1556	.4717	.00405	23.26	.02551	.00024
%RSD	21.953	40.483	7.8772	192.47	9.4763	10.223	35.625

#1	2.5044	3.4220	5.4692	.00674	218.85	.22019	-.00056
#2	2.0154	1.5249	6.1026	.00030	255.27	.26167	-.00095
#3	3.1325	3.6167	6.3913	-.00073	262.13	.26664	-.00051

Check ?	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	.10000	.10000					
Low Limit	-.10000	-.10000					

Approved: July 27, 2012



Sample Name: ICSAB Acquired: 7/25/2012 13:47:09 Type: QC
 Method: ICP-THERMO2_6010_200.7(v1999) Mode: CONC Corr. Factor: 1.000000
 User: KHR Custom ID1: Custom ID2: Custom ID3:
 Comment:

Elem	Na5895	Ni2316	P_2149	Pb2203	Rb7800	S_1807	S_1820
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	5.5061	.50776	F -61.386	.51001	F -3.0105	F 244.87	F 35.953
Stddev	.4972	.00145	7.254	.00567	13.440	1.38	.840
%RSD	9.0303	.28557	11.817	1.1115	446.42	.56214	2.3372

#1	4.9438	.50686	-64.109	.51653	-5.1154	246.10	36.186
#2	5.6867	.50699	-53.164	.50723	11.357	245.13	35.020
#3	5.8878	.50944	-66.885	.50626	-15.274	243.38	36.652

Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Fail	Chk Fail	Chk Fail
High Limit			.50000		.60000	.60000	.60000
Low Limit			-.50000		.40000	.40000	.40000

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3372	Tl1908
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.51452	.25922	.00302	-.00051	.00026	-.00297	.48736
Stddev	.00666	.00197	.00415	.00031	.00000	.00217	.00358
%RSD	1.2953	.75878	137.42	59.877	1.8153	73.233	.73424

#1	.51193	.26060	-.00168	-.00027	.00026	-.00121	.48452
#2	.52209	.26010	.00455	-.00085	.00027	-.00540	.49138
#3	.50954	.25697	.00618	-.00041	.00026	-.00229	.48617

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm
Avg	.24953	.51289	F -6.2989
Stddev	.00437	.00128	.4917
%RSD	1.7530	.25040	7.8065

#1	.25168	.51326	-6.1665
#2	.25242	.51396	-6.8433
#3	.24450	.51147	-5.8869

Check ?	Chk Pass	Chk Pass	Chk Fail
High Limit			.10000
Low Limit			-.10000

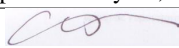
Approved: July 27, 2012



Sample Name: ICSAB Acquired: 7/25/2012 13:47:09 Type: QC
Method: ICP-THERMO2_6010_200.7(v1999) Mode: CONC Corr. Factor: 1.000000
User: KHR Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	24158.	14919.
Stddev	586.	601.
%RSD	2.4267	4.0298
#1	23623.	15612.
#2	24064.	14547.
#3	24785.	14597.

Approved: July 27, 2012



Sample Name: CCV Acquired: 7/25/2012 13:50:17 Type: QC
 Method: ICP-THERMO2_6010_200.7(v1999) Mode: CONC Corr. Factor: 1.000000
 User: KHR Custom ID1: Custom ID2: Custom ID3:
 Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.39639	9.8693	.38903	.49907	.97390	.05017	10.036
Stddev	.00577	.5283	.00095	.00742	.08487	.00075	.535
%RSD	1.4558	5.3527	.24477	1.4875	8.7142	1.4981	5.3273

#1	.39017	9.2615	.38874	.49071	.87702	.04937	9.4256
#2	.39744	10.128	.38826	.50159	1.0096	.05029	10.264
#3	.40157	10.218	.39009	.50490	1.0351	.05086	10.420

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	Hf2322	Hf2641
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.04934	.19719	.49801	.49256	4.0191	.98261	F .53413
Stddev	.00005	.00032	.00675	.00060	.2127	.00325	.75978
%RSD	.10765	.16228	1.3557	.12230	5.2924	.33108	142.25

#1	.04937	.19717	.49045	.49203	3.7752	.97988	1.2810
#2	.04928	.19752	.50014	.49321	4.1164	.98174	-.23790
#3	.04938	.19688	.50343	.49245	4.1658	.98621	.55925

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
Value							1.0000
Range							-10.000%

Elem	Hf2773	Hf3399	K_7664	Li6707	Mg2790	Mn2576	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F 1.5527	F -.10318	49.116	.97573	10.173	.48872	.98493
Stddev	1.1844	1.1997	4.055	.08745	.534	.04366	.00078
%RSD	76.278	1162.8	8.2553	8.9621	5.2456	8.9330	.07931

#1	.80444	.91283	44.486	.87602	9.5634	.43911	.98485
#2	.93549	.20441	50.831	1.0118	10.400	.50577	.98575
#3	2.9182	-1.4268	52.032	1.0394	10.556	.52127	.98419

Check ?	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	1.0000	1.0000					
Range	10.000%	-10.000%					

Approved: July 27, 2012



Sample Name: CCV Acquired: 7/25/2012 13:50:17 Type: QC
 Method: ICP-THERMO2_6010_200.7(v1999) Mode: CONC Corr. Factor: 1.000000
 User: KHR Custom ID1: Custom ID2: Custom ID3:
 Comment:

Elem	Na5895	Ni2316	P_2149	Pb2203	Rb7800	S_1807	S_1820
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	49.251	.50368	F 14.293	.50081	F -9.7482	10.123	F 5.9684
Stddev	4.191	.00191	19.580	.00189	16.875	.031	.2277
%RSD	8.5084	.37945	136.99	.37703	173.11	.30735	3.8144

#1	44.453	.50149	3.3985	.49938	-26.811	10.097	5.8402
#2	51.107	.50499	36.897	.50295	6.9322	10.113	5.8338
#3	52.193	.50457	2.5833	.50011	-9.3657	10.158	6.2313

Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Fail	Chk Pass	Chk Fail
Value			10.000		10.000		10.000
Range			10.000%		-10.000%		-10.000%

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3372	Tl1908
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.2039	.39445	5.1097	.99755	.97233	.97861	.50765
Stddev	.0049	.00445	.0537	.00375	.08359	.09273	.00312
%RSD	.40554	1.1286	1.0505	.37603	8.5967	9.4759	.61455

#1	1.1985	.38960	5.0495	.99332	.87684	.87342	.50409
#2	1.2051	.39540	5.1527	1.0005	1.0079	1.0139	.50988
#3	1.2081	.39835	5.1268	.99886	1.0323	1.0485	.50898

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm
Avg	.98424	.99165	F -.19037
Stddev	.01066	.00202	.42503
%RSD	1.0831	.20358	223.26

#1	.97377	.98934	.23344
#2	.98388	.99306	-.61661
#3	.99508	.99256	-.18796

Check ?	Chk Pass	Chk Pass	Chk Fail
Value			1.0000
Range			-10.000%

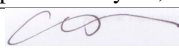
Approved: July 27, 2012



Sample Name: CCV Acquired: 7/25/2012 13:50:17 Type: QC
Method: ICP-THERMO2_6010_200.7(v1999) Mode: CONC Corr. Factor: 1.000000
User: KHR Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	26024.	16505.
Stddev	141.	666.
%RSD	.54316	4.0371
#1	26182.	17267.
#2	25979.	16032.
#3	25910.	16216.

Approved: July 27, 2012



Sample Name: CCB Acquired: 7/25/2012 13:53:22 Type: Blank
 Method: ICP-THERMO2_6010_200.7(v1999) Mode: CONC Corr. Factor: 1.000000
 User: KHR Custom ID1: Custom ID2: Custom ID3:
 Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.00006	-.00738	.00045	.00575	.00069	-.00003	-.01129
Stddev	.00090	.11270	.00022	.00218	.00112	.00006	.01872
%RSD	1416.7	1526.2	48.574	37.924	162.18	187.72	165.85

#1	.00047	.10136	.00021	.00567	.00184	-.00005	.00113
#2	.00045	-.12366	.00063	.00797	.00065	-.00008	-.03283
#3	-.00111	.00016	.00051	.00361	-.00041	.00004	-.00217

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	Hf2322	Hf2641
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00026	-.00019	.00042	.00095	-.00568	-.00536	F .51884
Stddev	.00008	.00014	.00003	.00050	.01278	.00454	.39910
%RSD	29.806	70.868	6.5396	52.448	225.07	84.763	76.922

#1	.00035	-.00033	.00040	.00146	.00752	-.01044	.58559
#2	.00024	-.00006	.00042	.00092	-.01800	-.00392	.09058
#3	.00020	-.00019	.00045	.00046	-.00655	-.00171	.88037

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit							.10000
Low Limit							-.10000

Elem	Hf2773	Hf3399	K_7664	Li6707	Mg2790	Mn2576	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F .55140	F -1.6833	.41579	-.00317	-.03275	-.00001	.00019
Stddev	.32015	.1394	.07102	.01318	.02125	.00072	.00032
%RSD	58.061	8.2788	17.080	415.74	64.875	12639.	172.20

#1	.51516	-1.5286	.43559	.01205	-.01336	.00083	-.00001
#2	.88813	-1.7222	.47481	-.01114	-.05546	-.00042	.00002
#3	.25092	-1.7991	.33698	-.01041	-.02943	-.00043	.00056

Check ?	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	.10000	.10000					
Low Limit	-.10000	-.10000					

Approved: July 27, 2012



Sample Name: CCB Acquired: 7/25/2012 13:53:22 Type: Blank
 Method: ICP-THERMO2_6010_200.7(v1999) Mode: CONC Corr. Factor: 1.000000
 User: KHR Custom ID1: Custom ID2: Custom ID3:
 Comment:

Elem	Na5895	Ni2316	P_2149	Pb2203	Rb7800	S_1807	S_1820
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.14912	.00005	F 2.6729	-.00141	F 8.2383	F -.12241	F 4.8993
Stddev	.04566	.00023	15.809	.00142	13.018	.07343	1.0237
%RSD	30.621	470.63	591.47	100.34	158.02	59.985	20.894

#1	.20077	.00015	-15.366	-.00252	-6.6083	-.17694	6.0123
#2	.13246	.00021	14.117	-.00191	17.701	-.03892	3.9980
#3	.11412	-.00021	9.2684	.00019	13.622	-.15137	4.6876

Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Fail	Chk Fail	Chk Fail
High Limit			.01000		.01000	.01000	.01000
Low Limit			-.01000		-.01000	-.01000	-.01000

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3372	Tl1908
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00094	-.00148	.00162	-.00088	.00104	-.00118	.00163
Stddev	.00352	.00254	.00265	.00037	.00104	.00206	.00428
%RSD	372.43	171.26	163.91	41.822	100.37	174.35	262.48

#1	.00494	-.00298	.00002	-.00102	.00219	-.00033	-.00304
#2	-.00170	.00145	.00468	-.00046	.00016	-.00354	.00538
#3	-.00040	-.00292	.00015	-.00115	.00076	.00031	.00255

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm
Avg	.00014	-.00015	F -1.4545
Stddev	.00007	.00020	.5693
%RSD	50.853	130.49	39.143

#1	.00017	-.00033	-2.0596
#2	.00019	.00007	-1.3744
#3	.00006	-.00020	-.92941

Check ?	Chk Pass	Chk Pass	Chk Fail
High Limit			.10000
Low Limit			-.10000

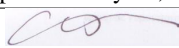
Approved: July 27, 2012



Sample Name: CCB Acquired: 7/25/2012 13:53:22 Type: Blank
Method: ICP-THERMO2_6010_200.7(v1999) Mode: CONC Corr. Factor: 1.000000
User: KHR Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	24275.	14906.
Stddev	86.	803.
%RSD	.35396	5.3884
#1	24367.	15821.
#2	24197.	14578.
#3	24262.	14318.

Approved: July 27, 2012



Sample Name: L1207000815 Acquired: 7/25/2012 14:04:47 Type: Unk
 Method: ICP-THERMO2_6010_200.7(v1999) Mode: CONC Corr. Factor: 1.000000
 User: KHR Custom ID1: Custom ID2: Custom ID3:
 Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00071	.04305	.00001	.00107	.00048	.00000	-.03074
Stddev	.00161	.03235	.00156	.00040	.00030	.00003	.02141
%RSD	225.00	75.149	14673.	37.138	63.541	617.86	69.641

#1	-.00056	.05600	.00115	.00069	.00059	-.00001	-.03550
#2	.00252	.00623	.00064	.00148	.00013	.00003	-.04936
#3	.00019	.06691	-.00176	.00103	.00071	-.00001	-.00735

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	Hf2322	Hf2641
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00015	-.00034	.00048	-.00013	-.00612	-.00426	-.07717
Stddev	.00015	.00006	.00028	.00020	.01185	.00431	.58618
%RSD	96.506	16.647	58.541	159.98	193.56	101.33	759.62

#1	.00016	-.00037	.00016	-.00007	.00592	.00024	-.61597
#2	.00000	-.00037	.00068	-.00035	-.01777	-.00836	.54703
#3	.00029	-.00027	.00062	.00004	-.00652	-.00465	-.16256

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Hf2773	Hf3399	K_7664	Li6707	Mg2790	Mn2576	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.0006	F -.26905	.18409	-.00120	-.02418	.00035	-.00022
Stddev	.2873	.90532	.11716	.00069	.02959	.00178	.00007
%RSD	28.710	336.49	63.644	57.594	122.37	503.34	30.607

#1	.77724	-1.2957	.20447	-.00040	-.04356	.00204	-.00026
#2	1.3247	.41488	.05807	-.00155	-.03886	.00053	-.00014
#3	.89998	.07367	.28972	-.00165	.00988	-.00151	-.00025

Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit		45.000					
Low Limit		-.10000					

Approved: July 27, 2012



Sample Name: L1207000815 Acquired: 7/25/2012 14:04:47 Type: Unk
 Method: ICP-THERMO2_6010_200.7(v1999) Mode: CONC Corr. Factor: 1.000000
 User: KHR Custom ID1: Custom ID2: Custom ID3:
 Comment:

Elem	Na5895	Ni2316	P_2149	Pb2203	Rb7800	S_1807	S_1820
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.02764	-.00098	12.379	.00071	F 19.976	F -.08921	6.0667
Stddev	.01855	.00164	9.378	.00085	2.468	.07471	1.3070
%RSD	67.115	168.13	75.757	119.33	12.353	83.747	21.543

#1	.03645	-.00129	18.375	-.00011	22.240	-.00430	6.3915
#2	.00633	.00080	17.190	.00066	17.346	-.11844	4.6280
#3	.04014	-.00244	1.5719	.00159	20.342	-.14488	7.1807

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Fail	Chk Pass
High Limit					9.0000	9.0000	
Low Limit					-.00400	-.00400	

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3372	Tl1908
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00193	-.00175	.00099	-.00110	.00032	-.00171	-.00013
Stddev	.00166	.00307	.00520	.00002	.00045	.00175	.00130
%RSD	85.840	175.00	524.55	2.1530	141.69	102.20	1004.6

#1	.00381	.00002	-.00431	-.00110	-.00013	-.00295	.00095
#2	.00068	.00002	.00119	-.00112	.00077	.00029	-.00157
#3	.00130	-.00530	.00609	-.00108	.00032	-.00248	.00023


Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm
Avg	-.00047	.00051	F -.68786
Stddev	.00122	.00020	.87358
%RSD	257.92	38.812	127.00

#1	.00070	.00057	-.28031
#2	-.00039	.00066	-.09252
#3	-.00173	.00029	-1.6907

Check ?	Chk Pass	Chk Pass	Chk Fail
High Limit			45.000
Low Limit			-.00400

Approved: July 27, 2012



Sample Name: L1207000815 Acquired: 7/25/2012 14:04:47 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1999) Mode: CONC Corr. Factor: 1.000000
User: KHR Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	24254.	14657.
Stddev	232.	524.
%RSD	.95690	3.5720
#1	24246.	15255.
#2	24489.	14284.
#3	24025.	14431.

Approved: July 27, 2012



Sample Name: L1207000816 Acquired: 7/25/2012 14:07:55 Type: Unk
 Method: ICP-THERMO2_6010_200.7(v1999) Mode: CONC Corr. Factor: 1.000000
 User: KHR Custom ID1: Custom ID2: Custom ID3:
 Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00207	-.03136	-.00111	.00107	.00036	-.00002	-.02092
Stddev	.00075	.05629	.00101	.00138	.00095	.00005	.01487
%RSD	36.120	179.52	90.886	129.45	266.10	256.49	71.096

#1	.00145	-.08348	-.00071	.00161	-.00067	.00003	-.03531
#2	.00289	-.03892	-.00226	-.00050	.00119	-.00002	-.02185
#3	.00186	.02834	-.00036	.00210	.00055	-.00006	-.00561

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	Hf2322	Hf2641
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00023	.00009	.00044	.00063	-.00883	-.00442	.07347
Stddev	.00009	.00020	.00006	.00020	.00474	.00865	.70451
%RSD	39.675	218.00	13.871	31.657	53.678	195.72	958.89

#1	.00015	-.00009	.00042	.00086	-.01033	.00457	.45038
#2	.00033	.00006	.00050	.00050	-.00352	-.00514	-.73931
#3	.00021	.00031	.00039	.00053	-.01265	-.01269	.50935

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Hf2773	Hf3399	K_7664	Li6707	Mg2790	Mn2576	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.0109	.25377	.24401	-.00569	-.02033	.00020	-.00013
Stddev	.6566	.52580	.12590	.00144	.00482	.00104	.00030
%RSD	64.950	207.19	51.596	25.271	23.702	515.06	227.92

#1	1.2266	.50457	.10006	-.00695	-.02439	-.00080	.00001
#2	1.5324	-.35047	.33354	-.00600	-.02160	.00127	.00007
#3	.27358	.60722	.29842	-.00412	-.01500	.00013	-.00047

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: July 27, 2012



Sample Name: L1207000816 Acquired: 7/25/2012 14:07:55 Type: Unk
 Method: ICP-THERMO2_6010_200.7(v1999) Mode: CONC Corr. Factor: 1.000000
 User: KHR Custom ID1: Custom ID2: Custom ID3:
 Comment:

Elem	Na5895	Ni2316	P_2149	Pb2203	Rb7800	S_1807	S_1820
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.04364	.00130	.00647	.00121	5.5895	.09934	4.3272
Stddev	.00886	.00062	6.3225	.00070	18.422	.04219	1.3161
%RSD	20.292	47.399	97676.	57.881	329.59	42.472	30.415

#1	.05357	.00199	7.2077	.00167	13.223	.14407	5.5223
#2	.04082	.00081	-4.6337	.00155	18.969	.09367	4.5427
#3	.03654	.00110	-2.5546	.00040	-15.423	.06026	2.9166

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3372	Tl1908
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.00455	-.00105	-.00334	-.00085	.00017	-.00139	.00002
Stddev	.00435	.00142	.00193	.00048	.00006	.00502	.00122
%RSD	95.539	135.01	57.598	56.558	34.405	359.88	5359.9

#1	-.00956	.00015	-.00503	-.00132	.00011	.00415	-.00107
#2	-.00177	-.00263	-.00375	-.00036	.00023	-.00273	.00134
#3	-.00232	-.00068	-.00125	-.00087	.00017	-.00561	-.00020

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm
Avg	-.00063	.00068	F -.81810
Stddev	.00081	.00004	.21498
%RSD	129.00	5.3654	26.278

#1	-.00025	.00072	-1.0156
#2	-.00008	.00065	-.58910
#3	-.00156	.00066	-.84963

Check ?	Chk Pass	Chk Pass	Chk Fail
High Limit			45.000
Low Limit			-.00400

Approved: July 27, 2012



Sample Name: L1207000816 Acquired: 7/25/2012 14:07:55 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1999) Mode: CONC Corr. Factor: 1.000000
User: KHR Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	26106.	14938.
Stddev	43.	339.
%RSD	.16432	2.2681
#1	26145.	15313.
#2	26112.	14653.
#3	26060.	14850.

Approved: July 27, 2012



Sample Name: L1207000817 Acquired: 7/25/2012 14:11:04 Type: Unk
 Method: ICP-THERMO2_6010_200.7(v1999) Mode: CONC Corr. Factor: 1.000000
 User: KHR Custom ID1: Custom ID2: Custom ID3:
 Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00010	.03127	-.00234	.00216	-.00091	-.00002	.02038
Stddev	.00113	.06159	.00050	.00129	.00084	.00005	.00561
%RSD	1163.0	196.93	21.420	60.006	92.391	305.10	27.533

#1	.00007	-.01857	-.00291	.00078	-.00173	.00004	.02434
#2	-.00102	.10012	-.00215	.00234	-.00096	-.00004	.02285
#3	.00124	.01226	-.00196	.00335	-.00005	-.00006	.01396

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	Hf2322	Hf2641
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00013	-.00005	-.00035	-.00043	-.01848	-.00653	.16004
Stddev	.00005	.00033	.00058	.00039	.00692	.00737	.46211
%RSD	41.433	722.81	166.34	90.633	37.460	112.91	288.75

#1	.00009	.00017	-.00057	-.00023	-.01332	.00031	.67195
#2	.00011	.00012	.00031	-.00018	-.01578	-.01434	-.22634
#3	.00019	-.00043	-.00078	-.00088	-.02635	-.00555	.03451

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Hf2773	Hf3399	K_7664	Li6707	Mg2790	Mn2576	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.23211	.10106	.24647	.00024	-.01163	-.00055	.00011
Stddev	.47514	.89681	.05552	.00141	.02365	.00041	.00004
%RSD	204.70	887.38	22.526	591.19	203.41	75.102	38.045

#1	.13401	.22091	.28177	.00124	-.00004	-.00041	.00010
#2	.74865	.93192	.27517	.00085	.00400	-.00101	.00007
#3	-.18632	-.84964	.18248	-.00138	-.03884	-.00022	.00015

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: July 27, 2012



Sample Name: L1207000817 Acquired: 7/25/2012 14:11:04 Type: Unk
 Method: ICP-THERMO2_6010_200.7(v1999) Mode: CONC Corr. Factor: 1.000000
 User: KHR Custom ID1: Custom ID2: Custom ID3:
 Comment:

Elem	Na5895	Ni2316	P_2149	Pb2203	Rb7800	S_1807	S_1820
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.06776	.00026	11.425	.00123	F -3.2941	F -.02535	2.8551
Stddev	.02013	.00013	16.534	.00067	9.7975	.01631	.6734
%RSD	29.716	48.539	144.72	54.289	297.43	64.325	23.586

#1	.04458	.00040	5.3668	.00059	-6.3646	-.03477	3.4645
#2	.08090	.00022	-1.2262	.00119	-11.189	-.00652	2.9687
#3	.07780	.00015	30.134	.00192	7.6709	-.03478	2.1321

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Fail	Chk Pass
High Limit					9.0000	9.0000	
Low Limit					-.00400	-.00400	

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3372	Tl1908
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.00292	.00242	-.00044	-.00079	.00007	-.00108	.00450
Stddev	.00558	.00325	.00304	.00017	.00024	.00238	.00265
%RSD	191.15	134.53	691.29	20.944	344.34	220.66	58.803

#1	.00183	-.00113	.00069	-.00085	-.00017	.00155	.00747
#2	-.00906	.00525	.00188	-.00091	.00032	-.00170	.00238
#3	-.00152	.00314	-.00388	-.00060	.00007	-.00308	.00366

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm
Avg	-.00048	.00073	F -.99200
Stddev	.00056	.00013	1.1056
%RSD	116.96	18.501	111.46

#1	-.00101	.00088	-1.0106
#2	.00011	.00064	.12280
#3	-.00054	.00066	-2.0882

Check ?	Chk Pass	Chk Pass	Chk Fail
High Limit			45.000
Low Limit			-.00400

Approved: July 27, 2012



Sample Name: L1207000817 Acquired: 7/25/2012 14:11:04 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1999) Mode: CONC Corr. Factor: 1.000000
User: KHR Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	25539.	15886.
Stddev	319.	603.
%RSD	1.2506	3.7929
#1	25906.	16562.
#2	25327.	15692.
#3	25383.	15405.

Approved: July 27, 2012



Sample Name: L1207000818 Acquired: 7/25/2012 14:14:12 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1999) Mode: CONC Corr. Factor: 1.000000
User: KHR Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00099	.02253	-.00123	.00180	-.00084	.00000	-.01660
Stddev	.00104	.05371	.00261	.00244	.00038	.0000	.03307
%RSD	105.21	238.41	212.61	135.64	45.087	387.31	199.25

#1	.00132	.04088	.00148	.00046	-.00124	-.00002	.00066
#2	-.00018	.06466	-.00143	.00032	-.00049	-.00001	.00427
#3	.00183	-.03795	-.00374	.00462	-.00078	.00001	-.05473

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	Hf2322	Hf2641
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00015	.00001	-.00007	-.00036	-.00566	-.00212	.73315
Stddev	.00019	.00007	.00133	.00064	.00342	.00779	.78327
%RSD	124.90	585.89	1830.9	177.64	60.357	368.54	106.84

#1	-.00005	-.00005	.00140	-.00067	-.00504	-.01111	.13915
#2	.00019	.00000	-.00119	.00038	-.00935	.00258	.43948
#3	.00032	.00008	-.00043	-.00079	-.00260	.00218	1.6208


Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Hf2773	Hf3399	K_7664	Li6707	Mg2790	Mn2576	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.38254	1.4367	.10125	.00027	-.03751	.00046	-.00037
Stddev	.35972	2.0142	.09029	.00225	.01649	.00087	.00053
%RSD	94.035	140.20	89.177	819.01	43.951	189.08	142.46

#1	.42834	3.7609	.17618	.00158	-.05059	-.00042	-.00078
#2	.00211	.35124	.00100	.00157	-.01899	.00133	-.00055
#3	.71717	.19801	.12657	-.00233	-.04297	.00047	.00022

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: July 27, 2012



Sample Name: L1207000818 Acquired: 7/25/2012 14:14:12 Type: Unk
 Method: ICP-THERMO2_6010_200.7(v1999) Mode: CONC Corr. Factor: 1.000000
 User: KHR Custom ID1: Custom ID2: Custom ID3:
 Comment:

Elem	Na5895	Ni2316	P_2149	Pb2203	Rb7800	S_1807	S_1820
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.03160	.00004	3.0165	-.00015	F 9.8593	F -.01711	3.4115
Stddev	.02889	.00040	14.781	.00068	4.2083	.03861	1.2885
%RSD	91.444	986.09	490.01	451.01	42.684	225.60	37.769

#1	.06464	-.00028	-4.8322	-.00034	14.391	-.01215	3.1227
#2	.01110	.00049	-6.1847	-.00072	9.1115	.01877	4.8199
#3	.01905	-.00008	20.066	.00061	6.0750	-.05797	2.2919

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Fail	Chk Pass
High Limit					9.0000	9.0000	
Low Limit					-.00400	-.00400	

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3372	Ti1908
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.00008	-.00192	-.00839	-.00123	.00011	-.00027	.00115
Stddev	.00224	.00249	.00459	.00034	.00039	.00379	.00229
%RSD	2920.9	130.17	54.697	27.962	362.30	1423.4	200.08

#1	.00157	.00078	-.01363	-.00106	-.00007	.00411	.00260
#2	-.00263	-.00240	-.00646	-.00163	-.00016	-.00247	-.00150
#3	.00083	-.00413	-.00508	-.00100	.00055	-.00243	.00233

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm
Avg	.00012	.00061	F -.52938
Stddev	.00034	.00013	.24964
%RSD	287.25	21.882	47.157

#1	-.00011	.00053	-.81763
#2	-.00004	.00054	-.38825
#3	.00050	.00077	-.38227

Check ?	Chk Pass	Chk Pass	Chk Fail
High Limit			45.000
Low Limit			-.00400

Approved: July 27, 2012



Sample Name: L1207000818 Acquired: 7/25/2012 14:14:12 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1999) Mode: CONC Corr. Factor: 1.000000
User: KHR Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	25339.	15622.
Stddev	126.	670.
%RSD	.49630	4.2882
#1	25197.	16383.
#2	25439.	15362.
#3	25379.	15121.

Approved: July 27, 2012



Sample Name: L1207000819 Acquired: 7/25/2012 14:17:21 Type: Unk
 Method: ICP-THERMO2_6010_200.7(v1999) Mode: CONC Corr. Factor: 1.000000
 User: KHR Custom ID1: Custom ID2: Custom ID3:
 Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00163	.03717	-.00057	-.00049	-.00029	-.00002	-.02503
Stddev	.00021	.02549	.00181	.00213	.00065	.00003	.01480
%RSD	12.954	68.570	320.00	433.60	222.10	193.92	59.154

#1	.00144	.01793	.00105	.00113	-.00098	-.00005	-.01442
#2	.00185	.06608	-.00022	.00030	-.00022	.00002	-.01872
#3	.00159	.02750	-.00252	-.00290	.00032	-.00003	-.04194

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	Hf2322	Hf2641
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00003	-.00008	-.00024	.00036	-.01108	-.00430	-.02399
Stddev	.00005	.00029	.00052	.00053	.00461	.00403	.38097
%RSD	160.35	361.20	220.47	148.04	41.635	93.803	1588.2

#1	.00002	-.00022	.00014	.00079	-.00738	-.00018	-.19920
#2	.00010	-.00027	-.00001	.00051	-.01624	-.00824	.41307
#3	-.00001	.00025	-.00084	-.00023	-.00960	-.00447	-.28583

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Hf2773	Hf3399	K_7664	Li6707	Mg2790	Mn2576	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.89024	.58380	.16433	-.00622	-.00747	.00076	-.00006
Stddev	.62525	1.3401	.09654	.00501	.04582	.00094	.00020
%RSD	70.233	229.55	58.747	80.504	613.82	123.46	309.59

#1	1.1378	-.90958	.27555	-.01020	-.03459	.00038	-.00009
#2	1.3538	.97933	.10221	-.00787	-.03325	.00184	.00015
#3	.17913	1.6816	.11523	-.00060	.04544	.00007	-.00025

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: July 27, 2012



Sample Name: L1207000819 Acquired: 7/25/2012 14:17:21 Type: Unk
 Method: ICP-THERMO2_6010_200.7(v1999) Mode: CONC Corr. Factor: 1.000000
 User: KHR Custom ID1: Custom ID2: Custom ID3:
 Comment:

Elem	Na5895	Ni2316	P_2149	Pb2203	Rb7800	S_1807	S_1820
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.01478	.00123	1.7974	.00181	5.6139	F -.01387	1.8027
Stddev	.02951	.00093	17.641	.00060	4.5365	.06697	1.6806
%RSD	199.59	75.773	981.48	33.294	80.810	482.88	93.229

#1	.04321	.00023	8.1115	.00249	.81986	-.08745	3.2414
#2	.01684	.00138	-18.132	.00137	6.1824	.04352	2.2110
#3	-.01570	.00208	15.413	.00156	9.8393	.00232	-.04449

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						9.0000	
Low Limit						-.00400	

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3372	Tl1908
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.00400	.00042	-.00852	-.00069	.00023	.00117	.00111
Stddev	.00437	.00317	.00170	.00035	.00035	.00086	.00353
%RSD	109.05	755.58	19.982	51.115	154.06	73.143	319.30

#1	-.00866	-.00088	-.00708	-.00110	-.00014	.00030	.00034
#2	.00001	-.00190	-.00809	-.00053	.00026	.00120	-.00198
#3	-.00336	.00404	-.01040	-.00045	.00057	.00202	.00496

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm
Avg	-.00030	.00065	F -.79766
Stddev	.00028	.00004	.20991
%RSD	94.090	5.5989	26.316

#1	-.00035	.00062	-.79590
#2	.00000	.00069	-.58864
#3	-.00056	.00065	-1.0085

Check ?	Chk Pass	Chk Pass	Chk Fail
High Limit			45.000
Low Limit			-.00400

Approved: July 27, 2012



Sample Name: L1207000819 Acquired: 7/25/2012 14:17:21 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1999) Mode: CONC Corr. Factor: 1.000000
User: KHR Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	25549.	15402.
Stddev	203.	769.
%RSD	.79521	4.9899
#1	25315.	16255.
#2	25652.	15189.
#3	25679.	14763.

Approved: July 27, 2012



Sample Name: L1207000820 Acquired: 7/25/2012 14:20:29 Type: Unk
 Method: ICP-THERMO2_6010_200.7(v1999) Mode: CONC Corr. Factor: 1.000000
 User: KHR Custom ID1: Custom ID2: Custom ID3:
 Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00017	.04748	-.00253	-.00033	-.00060	-.00003	.00272
Stddev	.00115	.05902	.00098	.00374	.00068	.00002	.01967
%RSD	668.00	124.30	38.802	1118.9	113.40	62.153	724.34

#1	.00112	.00658	-.00332	.00384	-.00133	-.00004	-.00991
#2	.00051	.02072	-.00143	-.00147	-.00047	-.00004	.02538
#3	-.00111	.11514	-.00282	-.00338	.00001	-.00001	-.00732

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	Hf2322	Hf2641
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00026	-.00020	-.00013	-.00004	-.01714	-.00649	.21715
Stddev	.00014	.00007	.00009	.00088	.00560	.00565	.50294
%RSD	54.347	35.119	65.535	2019.8	32.663	87.062	231.61

#1	.00010	-.00027	-.00009	.00047	-.02056	-.00866	-.34932
#2	.00038	-.00021	-.00007	.00046	-.02018	-.01072	.38959
#3	.00031	-.00013	-.00023	-.00106	-.01068	-.00008	.61119


Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Hf2773	Hf3399	K_7664	Li6707	Mg2790	Mn2576	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.72707	.55780	.18826	.00329	-.01240	.00174	-.00019
Stddev	.38406	1.6300	.06352	.00519	.02703	.00102	.00031
%RSD	52.823	292.22	33.739	157.89	218.08	58.548	160.69

#1	.95355	2.1620	.11875	.00421	-.03562	.00130	-.00052
#2	.94403	-1.0969	.24329	-.00230	-.01885	.00290	.00011
#3	.28363	.60825	.20273	.00796	.01728	.00102	-.00018

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: July 27, 2012



Sample Name: L1207000820 Acquired: 7/25/2012 14:20:29 Type: Unk
 Method: ICP-THERMO2_6010_200.7(v1999) Mode: CONC Corr. Factor: 1.000000
 User: KHR Custom ID1: Custom ID2: Custom ID3:
 Comment:

Elem	Na5895	Ni2316	P_2149	Pb2203	Rb7800	S_1807	S_1820
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.04813	.00053	5.1398	.00044	F -.13192	.08958	3.1090
Stddev	.02519	.00022	5.5744	.00089	13.217	.01763	1.0070
%RSD	52.333	41.582	108.46	204.20	10019.	19.678	32.391

#1	.05485	.00028	-.24807	.00127	-14.616	.07805	1.9905
#2	.02027	.00060	10.884	-.00051	2.9453	.10987	3.9437
#3	.06928	.00070	4.7837	.00056	11.275	.08082	3.3929

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass
High Limit					9.0000		
Low Limit					-.00400		

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3372	Tl1908
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.00463	.00207	-.00024	-.00087	.00024	.00062	.00066
Stddev	.00262	.00306	.00162	.00015	.00026	.00282	.00070
%RSD	56.520	147.52	661.78	17.611	111.13	453.33	105.38

#1	-.00282	.00427	.00030	-.00073	-.00007	-.00258	.00029
#2	-.00345	-.00142	-.00206	-.00103	.00038	.00273	.00146
#3	-.00764	.00336	.00103	-.00083	.00039	.00171	.00023

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm
Avg	-.00017	.00077	F -.73339
Stddev	.00080	.00011	.48743
%RSD	462.58	14.698	66.463

#1	.00033	.00082	-.66412
#2	.00025	.00064	-.28430
#3	-.00110	.00086	-1.2518

Check ?	Chk Pass	Chk Pass	Chk Fail
High Limit			45.000
Low Limit			-.00400

Approved: July 27, 2012



Sample Name: L1207000820 Acquired: 7/25/2012 14:20:29 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1999) Mode: CONC Corr. Factor: 1.000000
User: KHR Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	25867.	15738.
Stddev	183.	747.
%RSD	.70584	4.7449
#1	25746.	16597.
#2	25778.	15251.
#3	26077.	15365.

Approved: July 27, 2012



Sample Name: L1207000821 Acquired: 7/25/2012 14:23:38 Type: Unk
 Method: ICP-THERMO2_6010_200.7(v1999) Mode: CONC Corr. Factor: 1.000000
 User: KHR Custom ID1: Custom ID2: Custom ID3:
 Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00094	-.00065	-.00105	-.00003	-.00125	.00001	.00994
Stddev	.00097	.05607	.00154	.00160	.00053	.00002	.03777
%RSD	102.95	8616.1	146.74	5765.3	42.432	347.14	380.19

#1	.00149	.01477	-.00025	-.00077	-.00165	-.00001	.03513
#2	-.00018	.04610	-.00282	-.00113	-.00065	.00002	-.03350
#3	.00152	-.06282	-.00007	.00181	-.00145	.00000	.02817

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	Hf2322	Hf2641
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00010	-.00007	-.00001	-.00037	-.00615	-.00499	.46827
Stddev	.00017	.00021	.00054	.00016	.00022	.00296	.57126
%RSD	173.37	301.15	7626.4	43.556	3.5253	59.368	121.99

#1	-.00008	.00010	-.00053	-.00034	-.00594	-.00443	.04191
#2	.00026	-.00031	-.00004	-.00023	-.00637	-.00820	1.1173
#3	.00011	.00000	.00055	-.00055	-.00612	-.00235	.24556

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Hf2773	Hf3399	K_7664	Li6707	Mg2790	Mn2576	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.42162	-.00929	.10140	-.00032	-.04055	-.00065	-.00021
Stddev	.34205	1.7361	.06601	.00106	.03951	.00137	.00007
%RSD	81.128	18685.	65.099	332.94	97.418	211.81	33.795

#1	.12344	1.9953	.02613	-.00113	-.04936	-.00221	-.00027
#2	.34639	-1.0254	.12863	.00088	-.07492	.00037	-.00013
#3	.79501	-.99781	.14945	-.00071	.00261	-.00010	-.00023

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: July 27, 2012



Sample Name: L1207000821 Acquired: 7/25/2012 14:23:38 Type: Unk
 Method: ICP-THERMO2_6010_200.7(v1999) Mode: CONC Corr. Factor: 1.000000
 User: KHR Custom ID1: Custom ID2: Custom ID3:
 Comment:

Elem	Na5895	Ni2316	P_2149	Pb2203	Rb7800	S_1807	S_1820
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.03698	.00118	1.3644	.00033	F -5.0528	.05244	3.0699
Stddev	.02169	.00056	12.542	.00129	9.6476	.04521	1.2102
%RSD	58.642	47.379	919.22	387.12	190.94	86.208	39.420

#1	.03897	.00175	9.9042	.00182	-14.583	.03865	3.9724
#2	.01437	.00113	7.2233	-.00045	4.7078	.01573	3.5426
#3	.05761	.00064	-13.034	-.00037	-5.2828	.10293	1.6948

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass
High Limit					9.0000		
Low Limit					-.00400		

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3372	Tl1908
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.00203	.00065	-.00567	-.00069	.00021	.00081	.00176
Stddev	.00107	.00212	.00624	.00075	.00032	.00357	.00084
%RSD	52.714	324.71	110.09	108.69	155.89	439.54	47.864

#1	-.00327	.00295	-.00117	.00012	.00002	.00369	.00132
#2	-.00133	-.00124	-.00305	-.00082	.00057	.00193	.00273
#3	-.00150	.00026	-.01279	-.00136	.00003	-.00318	.00124

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm
Avg	-.00058	.00131	.03271
Stddev	.00024	.00001	.58826
%RSD	41.254	.72588	1798.3

#1	-.00085	.00132	-.64632
#2	-.00048	.00131	.35683
#3	-.00041	.00131	.38762

Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Approved: July 27, 2012



Sample Name: L1207000821 Acquired: 7/25/2012 14:23:38 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1999) Mode: CONC Corr. Factor: 1.000000
User: KHR Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	26274.	16266.
Stddev	37.	744.
%RSD	.13992	4.5768
#1	26309.	17126.
#2	26236.	15843.
#3	26277.	15830.

Approved: July 27, 2012



Sample Name: CCV Acquired: 7/25/2012 14:26:54 Type: QC
 Method: ICP-THERMO2_6010_200.7(v1999) Mode: CONC Corr. Factor: 1.000000
 User: KHR Custom ID1: Custom ID2: Custom ID3:
 Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.39876	9.7581	.38983	.50078	.98232	.05069	9.8249
Stddev	.01740	.8533	.00166	.02082	.08571	.00200	.8007
%RSD	4.3638	8.7448	.42629	4.1582	8.7256	3.9367	8.1499

#1	.38102	8.7989	.39146	.47976	.88493	.04859	8.9141
#2	.39947	10.043	.38814	.50119	1.0157	.05091	10.143
#3	.41580	10.433	.38990	.52140	1.0463	.05257	10.418

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	Hf2322	Hf2641
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.04926	.19731	.50046	.49583	3.9508	.98335	.91085
Stddev	.00008	.00035	.01907	.00085	.3538	.00590	.31472
%RSD	.16574	.17821	3.8098	.17200	8.9539	.60032	34.553

#1	.04918	.19769	.48116	.49548	3.5479	.98653	.57410
#2	.04934	.19725	.50093	.49680	4.0941	.98698	.96090
#3	.04927	.19699	.51929	.49521	4.2104	.97654	1.1976

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Hf2773	Hf3399	K_7664	Li6707	Mg2790	Mn2576	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F .88823	F .43435	49.319	.98163	9.9948	.49007	.98869
Stddev	.99261	2.1805	4.127	.08899	.9370	.04504	.00144
%RSD	111.75	502.01	8.3678	9.0661	9.3745	9.1905	.14549

#1	.43749	2.2743	44.629	.88015	8.9325	.43848	.98888
#2	.20096	1.0028	50.932	1.0183	10.348	.51018	.99003
#3	2.0262	-1.9741	52.395	1.0464	10.704	.52155	.98717

Check ?	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	1.0000	1.0000					
Range	-10.000%	-10.000%					

Approved: July 27, 2012



Sample Name: CCV Acquired: 7/25/2012 14:26:54 Type: QC
 Method: ICP-THERMO2_6010_200.7(v1999) Mode: CONC Corr. Factor: 1.000000
 User: KHR Custom ID1: Custom ID2: Custom ID3:
 Comment:

Elem	Na5895	Ni2316	P_2149	Pb2203	Rb7800	S_1807	S_1820
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	49.712	.50777	F 12.119	.50818	F -9.4751	10.351	F 6.6197
Stddev	4.331	.00113	3.506	.00178	9.1846	.062	1.9322
%RSD	8.7127	.22309	28.927	.35053	96.934	.60243	29.188

#1	44.811	.50701	11.700	.51021	-14.875	10.323	8.6674
#2	51.301	.50723	8.8417	.50687	-14.680	10.422	6.3632
#3	53.024	.50907	15.815	.50746	1.1298	10.307	4.8286

Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Fail	Chk Pass	Chk Fail
Value			10.000		10.000		10.000
Range			10.000%		-10.000%		-10.000%

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3372	Ti1908
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.2149	.39331	5.2502	1.0084	.98306	.97901	.51555
Stddev	.0031	.00201	.0556	.0020	.08835	.09011	.00408
%RSD	.25510	.51042	1.0600	.20103	8.9870	9.2045	.79136

#1	1.2117	.39563	5.2108	1.0071	.88365	.87675	.51139
#2	1.2153	.39206	5.2260	1.0075	1.0129	1.0134	.51570
#3	1.2178	.39225	5.3139	1.0108	1.0526	1.0468	.51955

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm
Avg	.98583	1.0009	F .86196
Stddev	.04298	.0021	.56828
%RSD	4.3594	.20577	65.929

#1	.94171	.99865	1.3976
#2	.98821	1.0014	.92240
#3	1.0276	1.0027	.26587

Check ?	Chk Pass	Chk Pass	Chk Fail
Value			1.0000
Range			-10.000%

Approved: July 27, 2012



Sample Name: CCV Acquired: 7/25/2012 14:26:54 Type: QC
Method: ICP-THERMO2_6010_200.7(v1999) Mode: CONC Corr. Factor: 1.000000
User: KHR Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	26234.	16369.
Stddev	709.	835.
%RSD	2.7036	5.1028
#1	27015.	17295.
#2	26054.	16140.
#3	25631.	15673.

Approved: July 27, 2012



Sample Name: CCB Acquired: 7/25/2012 14:29:58 Type: Blank
 Method: ICP-THERMO2_6010_200.7(v1999) Mode: CONC Corr. Factor: 1.000000
 User: KHR Custom ID1: Custom ID2: Custom ID3:
 Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.00005	.04353	-.00271	.00250	.00070	.00001	-.00117
Stddev	.00074	.01451	.00145	.00475	.00150	.00003	.02729
%RSD	1376.1	33.335	53.396	189.93	214.62	205.22	2327.9

#1	.00046	.03664	-.00106	.00214	.00231	.00002	.02853
#2	.00028	.06021	-.00332	.00741	.00044	-.00002	-.00689
#3	-.00091	.03376	-.00376	-.00206	-.00065	.00003	-.02516

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	Hf2322	Hf2641
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00025	-.00001	-.00031	-.00067	-.01298	-.00802	F -.31861
Stddev	.00013	.00012	.00052	.00058	.00730	.00165	.49935
%RSD	50.799	923.50	170.51	87.577	56.216	20.589	156.73

#1	.00011	-.00010	-.00021	-.00052	-.00477	-.00613	-.89362
#2	.00029	-.00006	-.00087	-.00017	-.01874	-.00920	.00597
#3	.00035	.00013	.00016	-.00131	-.01543	-.00872	-.06817

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit							.10000
Low Limit							-.10000

Elem	Hf2773	Hf3399	K_7664	Li6707	Mg2790	Mn2576	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F .49383	F -1.7177	.20950	-.00362	.00505	.00060	.00047
Stddev	.93896	.9980	.04108	.00247	.02997	.00186	.00040
%RSD	190.14	58.102	19.609	68.214	593.04	309.12	83.574

#1	-.20144	-.58413	.24739	-.00128	-.02730	.00249	.00007
#2	.12098	-2.4642	.16584	-.00620	.01059	-.00124	.00087
#3	1.5619	-2.1047	.21528	-.00339	.03187	.00055	.00048

Check ?	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	.10000	.10000					
Low Limit	-.10000	-.10000					

Approved: July 27, 2012



Sample Name: CCB Acquired: 7/25/2012 14:29:58 Type: Blank
 Method: ICP-THERMO2_6010_200.7(v1999) Mode: CONC Corr. Factor: 1.000000
 User: KHR Custom ID1: Custom ID2: Custom ID3:
 Comment:

Elem	Na5895	Ni2316	P_2149	Pb2203	Rb7800	S_1807	S_1820
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.11406	.00148	F -4.1327	.00036	F 7.5904	F .05044	F 3.0016
Stddev	.04567	.00102	6.5293	.00118	3.8818	.09160	1.2069
%RSD	40.040	69.071	157.99	327.43	51.141	181.62	40.207

#1	.16664	.00089	-6.1294	.00109	3.3749	.10120	1.6092
#2	.09119	.00089	-9.4305	.00099	11.017	.10542	3.6484
#3	.08434	.00266	3.1618	-.00100	8.3789	-.05531	3.7472

Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Fail	Chk Fail	Chk Fail
High Limit			.01000		.01000	.01000	.01000
Low Limit			-.01000		-.01000	-.01000	-.01000

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3372	Tl1908
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.00118	-.00077	-.00145	-.00070	.00110	-.00007	-.00092
Stddev	.00364	.00289	.00103	.00040	.00107	.00341	.00321
%RSD	307.34	374.71	70.771	57.067	97.484	4842.2	349.02

#1	.00261	.00184	-.00079	-.00105	.00233	.00069	-.00461
#2	-.00464	-.00028	-.00093	-.00079	.00058	.00289	.00120
#3	-.00152	-.00388	-.00264	-.00026	.00038	-.00380	.00065

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm
Avg	.00017	.00011	F -.54402
Stddev	.00030	.00020	.71148
%RSD	181.50	173.11	130.78

#1	-.00003	.00034	.16264
#2	.00001	-.00003	-1.2602
#3	.00051	.00003	-.53448

Check ?	Chk Pass	Chk Pass	Chk Fail
High Limit			.10000
Low Limit			-.10000

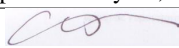
Approved: July 27, 2012



Sample Name: CCB Acquired: 7/25/2012 14:29:58 Type: Blank
Method: ICP-THERMO2_6010_200.7(v1999) Mode: CONC Corr. Factor: 1.000000
User: KHR Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	25724.	15914.
Stddev	228.	558.
%RSD	.88739	3.5086
#1	25894.	16546.
#2	25813.	15709.
#3	25464.	15487.

Approved: July 27, 2012



Sample Name: PBW 93 Acquired: 7/25/2012 14:33:15 Type: Unk
 Method: ICP-THERMO2_6010_200.7(v1999) Mode: CONC Corr. Factor: 1.000000
 User: KHR Custom ID1: Custom ID2: Custom ID3:
 Comment: WG404090-02

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00105	.08511	.00062	.00277	.00004	.00005	.13371
Stddev	.00092	.05743	.00256	.00227	.00102	.00007	.02491
%RSD	88.333	67.481	414.71	82.001	2267.7	132.88	18.632

#1	.00206	.07590	-.00217	.00508	-.00059	.00008	.10509
#2	.00082	.03284	.00115	.00054	.00122	-.00003	.15056
#3	.00026	.14659	.00287	.00270	-.00050	.00010	.14547

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	Hf2322	Hf2641
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00025	-.00028	-.00020	-.00028	-.00567	-.00612	F -.21927
Stddev	.00015	.00020	.00049	.00047	.00547	.00279	.23657
%RSD	58.319	69.013	238.60	168.82	96.576	45.580	107.89

#1	.00041	-.00041	-.00017	-.00080	-.00649	-.00392	-.42060
#2	.00012	-.00039	-.00071	-.00016	.00017	-.00519	-.27849
#3	.00024	-.00006	.00026	.00012	-.01068	-.00926	.04129

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit							45.000
Low Limit							-.10000

Elem	Hf2773	Hf3399	K_7664	Li6707	Mg2790	Mn2576	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.97095	F -.13751	.15750	-.00085	.00629	.00073	.00017
Stddev	.88643	1.5846	.08764	.00478	.02873	.00131	.00013
%RSD	91.295	1152.3	55.645	563.76	456.51	180.40	73.755

#1	-.04128	1.6812	.09197	.00448	.01755	.00155	.00008
#2	1.3455	-1.2205	.12348	-.00476	-.02636	-.00078	.00031
#3	1.6086	-.87318	.25705	-.00227	.02769	.00141	.00012

Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit		45.000					
Low Limit		-.10000					

Approved: July 27, 2012



Sample Name: PBW 93 Acquired: 7/25/2012 14:33:15 Type: Unk
 Method: ICP-THERMO2_6010_200.7(v1999) Mode: CONC Corr. Factor: 1.000000
 User: KHR Custom ID1: Custom ID2: Custom ID3:
 Comment: WG404090-02

Elem	Na5895	Ni2316	P_2149	Pb2203	Rb7800	S_1807	S_1820
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.04409	.00058	2.0038	.00204	F -2.0462	.31501	.34197
Stddev	.03583	.00086	2.3832	.00073	3.8982	.10233	1.2431
%RSD	81.256	148.44	118.93	35.998	190.51	32.485	363.52

#1	.06795	.00121	4.7218	.00174	-.13255	.43000	.36141
#2	.06143	.00095	.27219	.00288	-6.5313	.23397	1.5753
#3	.00289	-.00040	1.0174	.00151	.52534	.28105	-.91076

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass
High Limit					9.0000		
Low Limit					-.00400		

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3372	Tl1908
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.00018	.00018	.00962	-.00076	.00102	.00151	.00286
Stddev	.00386	.00229	.00586	.00048	.00036	.00218	.00039
%RSD	2193.3	1270.6	60.918	63.603	34.883	144.13	13.793

#1	.00428	-.00235	.00372	-.00092	.00102	.00357	.00292
#2	-.00248	.00211	.01543	-.00021	.00138	-.00077	.00322
#3	-.00233	.00079	.00970	-.00113	.00067	.00174	.00244

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm
Avg	-.00029	.00163	F -.26430
Stddev	.00001	.00011	.40722
%RSD	2.3456	6.6895	154.08

#1	-.00030	.00158	.11553
#2	-.00029	.00156	-.69427
#3	-.00029	.00176	-.21416

Check ?	Chk Pass	Chk Pass	Chk Fail
High Limit			45.000
Low Limit			-.00400

Approved: July 27, 2012



Sample Name: PBW 93 Acquired: 7/25/2012 14:33:15 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1999) Mode: CONC Corr. Factor: 1.000000
User: KHR Custom ID1: Custom ID2: Custom ID3:
Comment: WG404090-02

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	25744.	15699.
Stddev	134.	606.
%RSD	.52004	3.8596
#1	25590.	16350.
#2	25809.	15596.
#3	25834.	15151.

Approved: July 27, 2012



Sample Name: LCSW 93 Acquired: 7/25/2012 14:36:23 Type: Unk
 Method: ICP-THERMO2_6010_200.7(v1999) Mode: CONC Corr. Factor: 1.000000
 User: KHR Custom ID1: Custom ID2: Custom ID3:
 Comment: WG404090-03

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.19828	4.9199	.19071	.99674	.49080	.02520	4.9419
Stddev	.00109	.5237	.00134	.00677	.04446	.00022	.3956
%RSD	.55119	10.644	.70470	.67959	9.0583	.87843	8.0054

#1	.19849	4.3155	.19067	1.0036	.44002	.02542	4.4889
#2	.19925	5.2385	.18938	.99657	.50970	.02520	5.1178
#3	.19709	5.2058	.19207	.99006	.52269	.02498	5.2191

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	Hf2322	Hf2641
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.02470	.09814	.24708	.24602	1.9307	.49051	.42316
Stddev	.00004	.00009	.00284	.00042	.1800	.00146	.32162
%RSD	.18054	.09269	1.1511	.16905	9.3247	.29696	76.005

#1	.02470	.09824	.25017	.24629	1.7247	.49206	.05270
#2	.02465	.09812	.24652	.24623	2.0097	.48917	.63099
#3	.02474	.09807	.24456	.24554	2.0577	.49029	.58579

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Hf2773	Hf3399	K_7664	Li6707	Mg2790	Mn2576	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.2784	1.2671	24.589	.50890	5.0001	.24359	.48811
Stddev	.2186	3.0295	2.133	.04830	.4839	.02263	.00054
%RSD	17.100	239.09	8.6749	9.4908	9.6768	9.2882	.10980

#1	1.0271	-1.7778	22.153	.45417	4.4532	.21760	.48810
#2	1.4253	4.2811	25.497	.52694	5.1746	.25429	.48865
#3	1.3826	1.2981	26.118	.54558	5.3725	.25888	.48758

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: July 27, 2012



Sample Name: LCSW 93 Acquired: 7/25/2012 14:36:23 Type: Unk
 Method: ICP-THERMO2_6010_200.7(v1999) Mode: CONC Corr. Factor: 1.000000
 User: KHR Custom ID1: Custom ID2: Custom ID3:
 Comment: WG404090-03

Elem	Na5895	Ni2316	P_2149	Pb2203	Rb7800	S_1807	S_1820
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	25.502	.25497	26.343	.25067	F -11.511	5.4220	F -.25137
Stddev	2.280	.00059	14.342	.00289	8.408	.0494	1.6339
%RSD	8.9400	.22961	54.442	1.1521	73.041	.91030	650.01

#1	22.894	.25522	17.515	.24909	-16.163	5.3651	-1.8472
#2	26.493	.25539	42.891	.25400	-16.564	5.4530	-.32511
#3	27.118	.25430	18.623	.24892	-1.8053	5.4480	1.4182

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Fail
High Limit					9.0000		9.0000
Low Limit					-.00400		-.00400

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3372	Tl1908
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.60080	.19607	2.6885	.49507	.48813	.48417	.26123
Stddev	.00111	.00093	.0120	.00097	.04417	.04105	.00212
%RSD	.18441	.47617	.44546	.19594	9.0490	8.4780	.80998

#1	.60165	.19538	2.7009	.49481	.43751	.43724	.26279
#2	.60120	.19713	2.6770	.49425	.50800	.50187	.26207
#3	.59955	.19571	2.6876	.49614	.51887	.51340	.25882

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm
Avg	.48183	.50575	.24037
Stddev	.00477	.00081	.31686
%RSD	.99096	.15952	131.82

#1	.48726	.50645	.35532
#2	.47993	.50592	-.11793
#3	.47829	.50487	.48371

Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

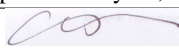
Approved: July 27, 2012



Sample Name: LCSW 93 Acquired: 7/25/2012 14:36:23 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1999) Mode: CONC Corr. Factor: 1.000000
User: KHR Custom ID1: Custom ID2: Custom ID3:
Comment: WG404090-03

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	26599.	16801.
Stddev	194.	876.
%RSD	.72980	5.2155
#1	26385.	17799.
#2	26648.	16444.
#3	26764.	16159.

Approved: July 27, 2012



Sample Name: L1207063601 Acquired: 7/25/2012 14:39:29 Type: Unk
 Method: ICP-THERMO2_6010_200.7(v1999) Mode: CONC Corr. Factor: 1.000000
 User: KHR Custom ID1: Custom ID2: Custom ID3:
 Comment: WG404090-01

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00087	.05194	.00469	.11199	.01364	.00000
Stddev	.00072	.00699	.00084	.00237	.00153	.0000
%RSD	82.562	13.450	17.948	2.1175	11.210	1108.6

#1	.00091	.05806	.00386	.11451	.01196	-.00003
#2	.00156	.05341	.00554	.10981	.01496	.00000
#3	.00013	.04433	.00468	.11163	.01400	.00002

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Ca4226	Cd2288	Co2286	Cr2677	Cu2247	Fe2611
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	482.49	.00097	.00082	.00200	.00010	.04784
Stddev	35.74	.00016	.00033	.00049	.00071	.00231
%RSD	7.4075	16.416	39.984	24.759	736.37	4.8269

#1	441.89	.00078	.00100	.00195	.00091	.04534
#2	496.43	.00106	.00044	.00252	-.00030	.04990
#3	509.17	.00106	.00103	.00153	-.00032	.04826


Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Hf2322	Hf2641	Hf2773	Hf3399	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.82563	4.0715	1.9720	.62461	2.3283	.10172
Stddev	.00706	.9711	.4003	.70914	.2319	.01019
%RSD	.85519	23.851	20.301	113.53	9.9609	10.014

#1	.81782	3.0248	2.2255	1.2665	2.0611	.09252
#2	.83156	4.9432	1.5105	-.13661	2.4474	.09998
#3	.82752	4.2464	2.1801	.74389	2.4766	.11267

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Approved: July 27, 2012



Sample Name: L1207063601 Acquired: 7/25/2012 14:39:29 Type: Unk
 Method: ICP-THERMO2_6010_200.7(v1999) Mode: CONC Corr. Factor: 1.000000
 User: KHR Custom ID1: Custom ID2: Custom ID3:
 Comment: WG404090-01

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	44.019	.21358	.00044	35.030	.00289	55.869
Stddev	3.468	.01761	.00016	2.785	.00026	.806
%RSD	7.8795	8.2427	37.489	7.9511	9.1275	1.4421

#1	40.052	.19353	.00025	31.839	.00259	56.639
#2	45.527	.22073	.00057	36.278	.00308	55.032
#3	46.479	.22649	.00049	36.974	.00300	55.937

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Pb2203	Rb7800	S_1807	S_1820	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00425	F -24.493	F 11270.	F -408170.	-.00231	.00522
Stddev	.00245	2.635	63.	912.	.00207	.00158
%RSD	57.712	10.758	.56048	.22354	89.878	30.302

#1	.00391	-25.529	11273.	-407750.	-.00158	.00576
#2	.00198	-26.453	11206.	-407540.	-.00069	.00647
#3	.00685	-21.497	11332.	-409220.	-.00464	.00344

Check ?	Chk Pass	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass
High Limit		9.0000	9.0000	9.0000		
Low Limit		-.00400	-.00400	-.00400		

Elem	Si2124	Sn1899	Sr4077	Ti3372	Ti1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.49747	-.00156	.87299	-.00536	.03373	-.00035
Stddev	.00579	.00031	.06945	.00464	.00153	.00056
%RSD	1.1649	19.792	7.9557	86.562	4.5453	158.51

#1	.50408	-.00121	.79300	-.00041	.03267	-.00092
#2	.49327	-.00171	.90798	-.00962	.03549	-.00033
#3	.49506	-.00177	.91799	-.00606	.03304	.00020

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Approved: July 27, 2012



Sample Name: L1207063601 Acquired: 7/25/2012 14:39:29 Type: Unk
 Method: ICP-THERMO2_6010_200.7(v1999) Mode: CONC Corr. Factor: 1.000000
 User: KHR Custom ID1: Custom ID2: Custom ID3:
 Comment: WG404090-01

Elem	Zn2062	Zr3391
Units	ppm	ppm
Avg	.00168	F -.58479
Stddev	.00007	.21142
%RSD	4.0895	36.153

#1	.00175	-.71240
#2	.00168	-.70123
#3	.00161	-.34075

Check ?	Chk Pass	Chk Fail
High Limit		45.000
Low Limit		-.00400

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	25409.	16788.
Stddev	144.	723.
%RSD	.56525	4.3063

#1	25252.	17618.
#2	25440.	16448.
#3	25534.	16296.

Approved: July 27, 2012



Sample Name: L1207063601DUP Acquired: 7/25/2012 14:42:33 Type: Unk
 Method: ICP-THERMO2_6010_200.7(v1999) Mode: CONC Corr. Factor: 1.000000
 User: KHR Custom ID1: Custom ID2: Custom ID3:
 Comment: WG404090-04

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00064	.09939	.00596	.11196	.01388	-.00001
Stddev	.00130	.06535	.00146	.00142	.00175	.00003
%RSD	202.35	65.748	24.507	1.2649	12.581	221.78

#1	.00168	.05131	.00505	.11039	.01188	.00002
#2	-.00081	.17380	.00764	.11237	.01510	-.00002
#3	.00106	.07307	.00519	.11313	.01465	-.00003

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Ca4226	Cd2288	Co2286	Cr2677	Cu2247	Fe2611
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	497.63	.00095	.00080	.00218	-.00045	.04981
Stddev	33.34	.00009	.00010	.00052	.00052	.00138
%RSD	6.7004	9.0088	12.467	23.805	114.82	2.7733

#1	459.45	.00094	.00069	.00255	-.00097	.04910
#2	512.40	.00104	.00081	.00159	.00006	.04894
#3	521.04	.00087	.00089	.00241	-.00044	.05141

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Hf2322	Hf2641	Hf2773	Hf3399	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.84514	4.1392	1.3975	F -.20878	2.7165	.10579
Stddev	.01701	.5748	.2821	2.0064	.3085	.01170
%RSD	2.0124	13.887	20.184	961.03	11.354	11.057

#1	.86475	3.5003	1.6995	-1.3232	2.3843	.09245
#2	.83453	4.3030	1.3523	2.1075	2.7716	.11428
#3	.83613	4.6143	1.1408	-1.4107	2.9938	.11063

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass
High Limit				45.000		
Low Limit				-.10000		

Approved: July 27, 2012



Sample Name: L1207063601DUP Acquired: 7/25/2012 14:42:33 Type: Unk
 Method: ICP-THERMO2_6010_200.7(v1999) Mode: CONC Corr. Factor: 1.000000
 User: KHR Custom ID1: Custom ID2: Custom ID3:
 Comment: WG404090-04

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	45.957	.22317	-.00006	36.501	.00243	62.165
Stddev	3.270	.01795	.00011	2.787	.00045	7.021
%RSD	7.1148	8.0426	196.94	7.6359	18.659	11.295

#1	42.216	.20253	-.00017	33.306	.00255	66.497
#2	47.384	.23185	-.00006	37.763	.00193	54.064
#3	48.271	.23513	.00006	38.434	.00281	65.934

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Pb2203	Rb7800	S_1807	S_1820	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00326	F -29.231	F 11541.	F -418840.	-.00120	.00170
Stddev	.00300	9.707	196.	7705.	.00265	.00590
%RSD	91.996	33.207	1.6988	1.8397	220.16	346.35

#1	.00603	-36.967	11767.	-427720.	.00185	-.00500
#2	.00368	-18.339	11440.	-414880.	-.00263	.00612
#3	.00007	-32.387	11417.	-413910.	-.00283	.00399

Check ?	Chk Pass	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass
High Limit		9.0000	9.0000	9.0000		
Low Limit		-.00400	-.00400	-.00400		

Elem	Si2124	Sn1899	Sr4077	Ti3372	Ti1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.50523	-.00121	.90990	-.00604	.03429	-.00052
Stddev	.01607	.00061	.06998	.00418	.00305	.00088
%RSD	3.1814	50.486	7.6904	69.196	8.9045	171.03

#1	.52366	-.00051	.82927	-.00137	.03772	-.00102
#2	.49791	-.00162	.94566	-.00734	.03329	.00050
#3	.49412	-.00150	.95477	-.00942	.03187	-.00103

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Approved: July 27, 2012



Sample Name: L1207063601DUP Acquired: 7/25/2012 14:42:33 Type: Unk
 Method: ICP-THERMO2_6010_200.7(v1999) Mode: CONC Corr. Factor: 1.000000
 User: KHR Custom ID1: Custom ID2: Custom ID3:
 Comment: WG404090-04

Elem	Zn2062	Zr3391
Units	ppm	ppm
Avg	.00188	F -1.3289
Stddev	.00003	.2332
%RSD	1.6869	17.547


#1	.00190	-1.5981
#2	.00190	-1.1999
#3	.00185	-1.1887

Check ?	Chk Pass	Chk Fail
High Limit		45.000
Low Limit		-.00400

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	25142.	16452.
Stddev	237.	774.
%RSD	.94457	4.7033

#1	24871.	17344.
#2	25238.	15960.
#3	25316.	16053.

Approved: July 27, 2012



Sample Name: L1207063601MS Acquired: 7/25/2012 14:45:38 Type: Unk
 Method: ICP-THERMO2_6010_200.7(v1999) Mode: CONC Corr. Factor: 1.000000
 User: KHR Custom ID1: Custom ID2: Custom ID3:
 Comment: WG404090-05

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.21533	4.9825	.20923	1.1817	.51616	.02671
Stddev	.00150	.4121	.00288	.0150	.04799	.00034
%RSD	.69891	8.2699	1.3784	1.2703	9.2981	1.2728

#1	.21379	4.5075	.21011	1.1720	.46092	.02640
#2	.21538	5.2429	.20600	1.1741	.53993	.02665
#3	.21680	5.1973	.21156	1.1990	.54763	.02707

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Ca4226	Cd2288	Co2286	Cr2677	Cu2247	Fe2611
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	502.90	.02594	.09880	.26282	.24703	2.0244
Stddev	39.95	.00023	.00032	.00218	.00038	.1847
%RSD	7.9436	.89142	.32263	.83049	.15438	9.1215

#1	456.93	.02576	.09905	.26159	.24742	1.8135
#2	522.62	.02620	.09891	.26154	.24700	2.1030
#3	529.16	.02587	.09844	.26534	.24666	2.1568

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Hf2322	Hf2641	Hf2773	Hf3399	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.3339	3.9546	1.7960	1.6709	28.416	.61483
Stddev	.0030	.7987	.2854	1.5564	2.641	.05746
%RSD	.22382	20.197	15.892	93.151	9.2952	9.3462

#1	1.3369	4.4299	1.9118	3.3597	25.381	.54917
#2	1.3310	3.0325	2.0054	.29409	29.667	.63935
#3	1.3339	4.4015	1.4709	1.3588	30.199	.65596

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Approved: July 27, 2012



Sample Name: L1207063601MS Acquired: 7/25/2012 14:45:38 Type: Unk
 Method: ICP-THERMO2_6010_200.7(v1999) Mode: CONC Corr. Factor: 1.000000
 User: KHR Custom ID1: Custom ID2: Custom ID3:
 Comment: WG404090-05

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	50.115	.46389	.50217	61.606	.25893	61.262
Stddev	4.458	.04695	.00108	5.481	.00150	18.348
%RSD	8.8956	10.121	.21586	8.8968	.58058	29.951

#1	44.993	.40996	.50107	55.299	.25797	46.715
#2	52.229	.48600	.50221	64.302	.26066	81.875
#3	53.123	.49570	.50324	65.217	.25816	55.197

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Pb2203	Rb7800	S_1807	S_1820	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.25086	F -14.981	F 11903.	F -424950.	.61795	.20250
Stddev	.00140	10.472	52.	839.	.00263	.00238
%RSD	.55800	69.899	.43891	.19752	.42524	1.1762

#1	.24924	-27.071	11842.	-424100.	.61594	.20305
#2	.25169	-9.1653	11929.	-425780.	.62093	.20456
#3	.25165	-8.7085	11936.	-424960.	.61699	.19989

Check ?	Chk Pass	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass
High Limit		9.0000	9.0000	9.0000		
Low Limit		-.00400	-.00400	-.00400		

Elem	Si2124	Sn1899	Sr4077	Ti3372	Ti1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	3.3334	.50951	1.3957	.48637	.28549	.51938
Stddev	.0271	.00209	.1246	.04816	.00073	.00603
%RSD	.81136	.41059	8.9249	9.9021	.25465	1.1615

#1	3.3029	.50713	1.2524	.43085	.28511	.51646
#2	3.3431	.51029	1.4560	.51134	.28633	.51536
#3	3.3544	.51109	1.4786	.51692	.28503	.52631

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Approved: July 27, 2012



Sample Name: L1207063601MS Acquired: 7/25/2012 14:45:38 Type: Unk
 Method: ICP-THERMO2_6010_200.7(v1999) Mode: CONC Corr. Factor: 1.000000
 User: KHR Custom ID1: Custom ID2: Custom ID3:
 Comment: WG404090-05

Elem	Zn2062	Zr3391
Units	ppm	ppm
Avg	.50909	F -1.2573
Stddev	.00160	.0768
%RSD	.31355	6.1090

#1	.50725	-1.3022
#2	.51005	-1.3010
#3	.50997	-1.1686

Check ?	Chk Pass	Chk Fail
High Limit		45.000
Low Limit		-.00400

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	23656.	15705.
Stddev	131.	691.
%RSD	.55397	4.3985

#1	23791.	16502.
#2	23648.	15304.
#3	23529.	15308.

Approved: July 27, 2012



Sample Name: L1207066301 Acquired: 7/25/2012 14:48:41 Type: Unk
 Method: ICP-THERMO2_6010_200.7(v1999) Mode: CONC Corr. Factor: 1.000000
 User: KHR Custom ID1: Custom ID2: Custom ID3:
 Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00091	.13425	-.00024	4.8923	.04195	.00007	24.355
Stddev	.00066	.03682	.00295	.6251	.00307	.00004	1.372
%RSD	72.645	27.426	1241.8	12.778	7.3195	55.613	5.6335

#1	.00024	.14371	.00287	5.5130	.03841	.00010	22.839
#2	.00157	.09363	-.00300	4.9010	.04354	.00003	24.714
#3	.00094	.16542	-.00059	4.2628	.04390	.00009	25.512

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	Hf2322	Hf2641
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00028	.00077	.00230	.06757	.58152	.02618	.67174
Stddev	.00010	.00009	.00053	.00035	.03947	.00494	.22734
%RSD	35.907	11.849	23.048	.51379	6.7878	18.857	33.844

#1	.00031	.00075	.00290	.06787	.53843	.03045	.68254
#2	.00017	.00086	.00207	.06719	.59022	.02077	.43919
#3	.00036	.00068	.00192	.06765	.61593	.02730	.89349

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Hf2773	Hf3399	K_7664	Li6707	Mg2790	Mn2576	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.92589	.56538	16.776	-.00158	1.7630	.01522	.00248
Stddev	.38718	.99451	1.164	.00023	.1574	.00113	.00047
%RSD	41.817	175.90	6.9400	14.468	8.9285	7.4190	18.789

#1	1.1663	1.6621	15.462	-.00176	1.6336	.01451	.00295
#2	1.1321	.31181	17.188	-.00166	1.7170	.01462	.00202
#3	.47925	-.27779	17.679	-.00133	1.9382	.01652	.00248

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: July 27, 2012



Sample Name: L1207066301 Acquired: 7/25/2012 14:48:41 Type: Unk
 Method: ICP-THERMO2_6010_200.7(v1999) Mode: CONC Corr. Factor: 1.000000
 User: KHR Custom ID1: Custom ID2: Custom ID3:
 Comment:

Elem	Na5895	Ni2316	P_2149	Pb2203	Rb7800	S_1807	S_1820
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	51.552	.00221	F 1460.3	.00433	F -1.0545	F 335.38	F -11161.
Stddev	3.364	.00103	13.6	.00340	8.3590	.70	22.
%RSD	6.5257	46.372	.93099	78.693	792.70	.20804	.20010

#1	47.732	.00266	1474.5	.00784	-2.3873	334.60	-11151.
#2	52.848	.00294	1447.5	.00409	7.8909	335.59	-11146.
#3	54.075	.00104	1458.7	.00104	-8.6670	335.94	-11187.

Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Fail	Chk Fail	Chk Fail
High Limit			900.00		9.0000	9.0000	9.0000
Low Limit			-.00400		-.00400	-.00400	-.00400

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3372	Tl1908
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.00470	-.00121	6.7119	-.00007	.03229	.00382	-.00014
Stddev	.00318	.00112	.0078	.00042	.00150	.00135	.00217
%RSD	67.670	91.997	.11633	625.36	4.6324	35.344	1501.9

#1	-.00114	-.00240	6.7038	-.00017	.03064	.00237	-.00075
#2	-.00726	-.00106	6.7194	.00040	.03265	.00405	.00226
#3	-.00570	-.00018	6.7124	-.00043	.03356	.00505	-.00194

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm
Avg	-.00017	.15376	F -.81098
Stddev	.00055	.00028	.20847
%RSD	326.51	.17973	25.706

#1	-.00078	.15392	-.62895
#2	-.00002	.15345	-.76559
#3	.00029	.15393	-1.0384

Check ?	Chk Pass	Chk Pass	Chk Fail
High Limit			45.000
Low Limit			-.00400

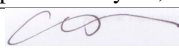
Approved: July 27, 2012



Sample Name: L1207066301 Acquired: 7/25/2012 14:48:41 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1999) Mode: CONC Corr. Factor: 1.000000
User: KHR Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	25255.	15926.
Stddev	183.	591.
%RSD	.72495	3.7118
#1	25082.	16609.
#2	25447.	15592.
#3	25236.	15578.

Approved: July 27, 2012



Sample Name: L1207067101 Acquired: 7/25/2012 14:51:46 Type: Unk
 Method: ICP-THERMO2_6010_200.7(v1999) Mode: CONC Corr. Factor: 1.000000
 User: KHR Custom ID1: Custom ID2: Custom ID3:
 Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00123	.02329	.00044	.04482	.01279	-.00001	5.6124
Stddev	.00113	.02771	.00155	.00398	.00159	.00006	.3337
%RSD	91.174	118.97	351.74	8.8791	12.444	763.55	5.9448

#1	.00106	.05108	.00205	.04892	.01106	-.00003	5.2467
#2	.00021	-.00433	-.00104	.04457	.01312	.00006	5.6901
#3	.00244	.02312	.00032	.04097	.01419	-.00005	5.9003

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	Hf2322	Hf2641
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00030	.01005	.05275	.02963	.06824	.01657	.33832
Stddev	.00013	.00020	.00095	.00032	.01194	.00458	.40594
%RSD	41.284	2.0184	1.7937	1.0724	17.504	27.617	119.99

#1	.00045	.01026	.05239	.02999	.05754	.02137	.60893
#2	.00027	.00985	.05383	.02940	.06605	.01609	.53449
#3	.00020	.01006	.05204	.02950	.08113	.01226	-.12845

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Hf2773	Hf3399	K_7664	Li6707	Mg2790	Mn2576	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.04072	F -.16131	2.6202	.00073	1.7714	.00129	-.00003
Stddev	.17376	.79616	.1478	.00256	.1144	.00129	.00006
%RSD	426.71	493.55	5.6402	349.76	6.4600	99.627	182.00

#1	.07266	.43438	2.4503	-.00220	1.6410	.00092	.00000
#2	.19630	-1.0656	2.6916	.00185	1.8181	.00023	-.00011
#3	-.14680	.14725	2.7187	.00254	1.8550	.00273	.00000

Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit		45.000					
Low Limit		-.10000					

Approved: July 27, 2012



Sample Name: L1207067101 Acquired: 7/25/2012 14:51:46 Type: Unk
 Method: ICP-THERMO2_6010_200.7(v1999) Mode: CONC Corr. Factor: 1.000000
 User: KHR Custom ID1: Custom ID2: Custom ID3:
 Comment:

Elem	Na5895	Ni2316	P_2149	Pb2203	Rb7800	S_1807	S_1820
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	18.087	.05338	538.07	.00146	5.8714	F 58.152	F -1886.6
Stddev	1.255	.00087	11.86	.00162	3.9414	.663	8.0
%RSD	6.9402	1.6307	2.2045	110.94	67.129	1.1399	.42198

#1	16.659	.05438	548.12	.00317	9.8787	58.797	-1895.2
#2	18.589	.05290	524.98	.00126	1.9994	58.185	-1885.2
#3	19.014	.05285	541.11	-.00005	5.7361	57.473	-1879.5

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Fail
High Limit						9.0000	9.0000
Low Limit						-.00400	-.00400

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3372	Tl1908
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.00106	-.00382	3.9686	.00206	.02983	.00167	.00136
Stddev	.00192	.00244	.0483	.00066	.00203	.00278	.00249
%RSD	180.65	63.864	1.2183	32.247	6.8006	166.45	183.47

#1	.00085	-.00347	4.0167	.00281	.02769	.00407	.00422
#2	-.00105	-.00641	3.9691	.00155	.03008	-.00137	-.00024
#3	-.00299	-.00157	3.9200	.00181	.03172	.00231	.00008

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm
Avg	.00006	.41537	F -.45609
Stddev	.00015	.00054	.48088
%RSD	254.23	.13014	105.44

#1	.00024	.41598	-.84438
#2	.00000	.41515	.08181
#3	-.00005	.41497	-.60570

Check ?	Chk Pass	Chk Pass	Chk Fail
High Limit			45.000
Low Limit			-.00400

Approved: July 27, 2012



Sample Name: L1207067101 Acquired: 7/25/2012 14:51:46 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1999) Mode: CONC Corr. Factor: 1.000000
User: KHR Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	25356.	15462.
Stddev	93.	512.
%RSD	.36716	3.3106
#1	25277.	16051.
#2	25332.	15201.
#3	25458.	15132.

Approved: July 27, 2012



Sample Name: L1207067101PS Acquired: 7/25/2012 14:54:52 Type: Unk
 Method: ICP-THERMO2_6010_200.7(v1999) Mode: CONC Corr. Factor: 1.000000
 User: KHR Custom ID1: Custom ID2: Custom ID3:
 Comment: WG404284-03

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.19895	4.8036	.18968	1.0115	.50167	.02518	9.7879
Stddev	.00039	.4209	.00124	.0076	.04501	.00011	.8377
%RSD	.19502	8.7633	.65309	.75226	8.9712	.45195	8.5583

#1	.19909	4.3207	.19088	1.0198	.44993	.02531	8.8280
#2	.19925	4.9968	.18974	1.0049	.52332	.02511	10.164
#3	.19851	5.0932	.18840	1.0097	.53176	.02512	10.371

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	Hf2322	Hf2641
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.02454	.10678	.29266	.26961	2.0098	.50867	.30027
Stddev	.00008	.00035	.00246	.00077	.1787	.00387	.46828
%RSD	.33637	.32459	.84128	.28441	8.8908	.76164	155.95

#1	.02458	.10639	.29531	.26873	1.8044	.50815	-.23669
#2	.02459	.10705	.29044	.27003	2.0962	.51278	.62390
#3	.02444	.10689	.29225	.27008	2.1290	.50508	.51360

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Hf2773	Hf3399	K_7664	Li6707	Mg2790	Mn2576	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.7356	.83994	26.464	.49844	6.6207	.24476	.48664
Stddev	.4936	.50450	2.289	.04149	.6020	.02328	.00121
%RSD	28.439	60.064	8.6496	8.3240	9.0924	9.5096	.24876

#1	2.3042	.26179	23.834	.45054	5.9348	.21806	.48590
#2	1.4842	1.1909	27.552	.52160	6.8655	.25545	.48803
#3	1.4183	1.0672	28.006	.52318	7.0616	.26077	.48598

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: July 27, 2012



Sample Name: L1207067101PS Acquired: 7/25/2012 14:54:52 Type: Unk
 Method: ICP-THERMO2_6010_200.7(v1999) Mode: CONC Corr. Factor: 1.000000
 User: KHR Custom ID1: Custom ID2: Custom ID3:
 Comment: WG404284-03

Elem	Na5895	Ni2316	P_2149	Pb2203	Rb7800	S_1807	S_1820
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	40.929	.30055	479.11	.25096	F -3.9768	F 57.652	F -1712.3
Stddev	3.513	.00156	15.23	.00180	17.431	.351	7.2
%RSD	8.5836	.52008	3.1781	.71771	438.32	.60929	.42211

#1	36.893	.29906	471.03	.24924	-23.742	57.451	-1704.7
#2	42.596	.30043	496.67	.25081	9.1977	57.447	-1713.0
#3	43.299	.30218	469.62	.25283	2.6143	58.057	-1719.1

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Fail	Chk Fail
High Limit					9.0000	9.0000	9.0000
Low Limit					-.00400	-.00400	-.00400

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3372	Tl1908
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.59216	.19333	6.2149	.00354	.51520	.47452	.25780
Stddev	.00358	.00111	.0505	.00045	.04542	.04844	.00075
%RSD	.60460	.57645	.81179	12.630	8.8151	10.209	.28976

#1	.59295	.19461	6.1763	.00366	.46292	.41898	.25699
#2	.59527	.19280	6.1963	.00305	.53775	.49656	.25847
#3	.58824	.19258	6.2720	.00392	.54492	.50803	.25793

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm
Avg	.47938	.87436	.95211
Stddev	.00367	.00140	.64385
%RSD	.76592	.16031	67.623

#1	.48277	.87289	.96353
#2	.47548	.87452	1.5902
#3	.47988	.87568	.30263

Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

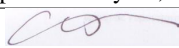
Approved: July 27, 2012



Sample Name: L1207067101PS Acquired: 7/25/2012 14:54:52 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1999) Mode: CONC Corr. Factor: 1.000000
User: KHR Custom ID1: Custom ID2: Custom ID3:
Comment: WG404284-03

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	26424.	16426.
Stddev	118.	584.
%RSD	.44836	3.5527
#1	26340.	17097.
#2	26373.	16031.
#3	26560.	16152.

Approved: July 27, 2012



Sample Name: L1207067101SDL Acquired: 7/25/2012 14:57:55 Type: Unk
 Method: ICP-THERMO2_6010_200.7(v1999) Mode: CONC Corr. Factor: 1.000000
 User: KHR Custom ID1: 5 Custom ID2: Custom ID3:
 Comment: WG404284-04

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00203	.07069	.00013	.01565	.00150	.00002	1.1222
Stddev	.00065	.06702	.00199	.00181	.00053	.00006	.0594
%RSD	31.801	94.803	1562.2	11.552	35.136	380.25	5.2945

#1	.00277	-.00664	.00128	.01740	.00096	.00008	1.0583
#2	.00166	.11184	-.00217	.01379	.00152	-.00003	1.1324
#3	.00165	.10687	.00127	.01577	.00202	-.00001	1.1758

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	Hf2322	Hf2641
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00009	.00180	.01039	.00573	.00568	-.00746	.18523
Stddev	.00016	.00009	.00059	.00041	.00635	.00882	.84261
%RSD	176.40	4.8445	5.6873	7.2270	111.86	118.36	454.91

#1	.00006	.00170	.01036	.00576	.01206	-.00622	-.16514
#2	.00027	.00186	.01100	.00530	.00563	.00068	-.42567
#3	-.00005	.00183	.00982	.00612	-.00065	-.01683	1.1465

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Hf2773	Hf3399	K_7664	Li6707	Mg2790	Mn2576	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.1131	.39245	.87466	-.00155	.32244	.00065	.00007
Stddev	.7314	.17096	.01725	.00437	.01630	.00104	.00031
%RSD	65.713	43.561	1.9723	282.14	5.0558	159.47	438.20

#1	1.4861	.29613	.85549	.00325	.30370	.00183	-.00027
#2	.27033	.58984	.87954	-.00532	.33030	-.00010	.00017
#3	1.5827	.29140	.88894	-.00258	.33332	.00022	.00031

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: July 27, 2012



Sample Name: L1207067101SDL Acquired: 7/25/2012 14:57:55 Type: Unk
 Method: ICP-THERMO2_6010_200.7(v1999) Mode: CONC Corr. Factor: 1.000000
 User: KHR Custom ID1: 5 Custom ID2: Custom ID3:
 Comment: WG404284-04

Elem	Na5895	Ni2316	P_2149	Pb2203	Rb7800	S_1807	S_1820
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	3.8112	.01163	109.92	.00285	F -12.162	F 11.612	F -377.09
Stddev	.2549	.00015	14.40	.00104	5.378	.183	1.71
%RSD	6.6880	1.3072	13.102	36.364	44.223	1.5766	.45388

#1	3.5192	.01156	125.56	.00336	-14.923	11.823	-378.83
#2	3.9249	.01181	97.213	.00166	-5.9637	11.520	-375.41
#3	3.9894	.01153	106.98	.00353	-15.599	11.493	-377.02

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Fail	Chk Fail
High Limit					9.0000	9.0000	9.0000
Low Limit					-0.0400	-0.0400	-0.0400

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3372	Tl1908
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.00099	.00361	.77904	-.00054	.00640	.00135	.00218
Stddev	.00148	.00283	.00709	.00036	.00052	.00278	.00363
%RSD	149.25	78.471	.91037	67.360	8.1335	205.53	166.17

#1	-.00044	.00612	.78121	-.00095	.00583	.00387	.00619
#2	-.00267	.00418	.77112	-.00030	.00685	-.00164	.00124
#3	.00013	.00054	.78479	-.00036	.00653	.00184	-.00088

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm
Avg	-.00066	.08569	F -.77498
Stddev	.00034	.00051	.26662
%RSD	51.680	.59373	34.403

#1	-.00100	.08626	-.58056
#2	-.00032	.08529	-1.0789
#3	-.00067	.08551	-.66546

Check ?	Chk Pass	Chk Pass	Chk Fail
High Limit			45.000
Low Limit			-0.0400

Approved: July 27, 2012



Sample Name: L1207067101SDL Acquired: 7/25/2012 14:57:55 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1999) Mode: CONC Corr. Factor: 1.000000
User: KHR Custom ID1: 5 Custom ID2: Custom ID3:
Comment: WG404284-04

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	26435.	17049.
Stddev	485.	1037.
%RSD	1.8339	6.0825
#1	26979.	18238.
#2	26278.	16330.
#3	26049.	16578.

Approved: July 27, 2012



Sample Name: CCV Acquired: 7/25/2012 15:01:07 Type: QC
 Method: ICP-THERMO2_6010_200.7(v1999) Mode: CONC Corr. Factor: 1.000000
 User: KHR Custom ID1: Custom ID2: Custom ID3:
 Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.39969	9.7558	.38577	.50840	.98567	.05028	9.8662
Stddev	.00441	.8249	.00188	.00700	.07951	.00068	.7934
%RSD	1.1030	8.4553	.48824	1.3762	8.0669	1.3614	8.0411

#1	.39577	8.8153	.38565	.50187	.89509	.04963	8.9630
#2	.39884	10.095	.38396	.50755	1.0180	.05023	10.185
#3	.40446	10.357	.38772	.51578	1.0440	.05099	10.450

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	Hf2322	Hf2641
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.04940	.19699	.49752	.49207	3.9672	.98409	F 1.1016
Stddev	.00010	.00016	.00639	.00058	.3181	.01166	.2703
%RSD	.19720	.08100	1.2842	.11782	8.0171	1.1848	24.536

#1	.04936	.19688	.49271	.49274	3.6054	.98946	.79533
#2	.04951	.19717	.49507	.49170	4.0930	.97071	1.2025
#3	.04932	.19691	.50477	.49178	4.2030	.99209	1.3068

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
Value							1.0000
Range							10.000%

Elem	Hf2773	Hf3399	K_7664	Li6707	Mg2790	Mn2576	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F 1.3564	F 1.4686	49.825	.97240	10.054	.49138	.98581
Stddev	.3835	.7798	4.051	.08504	.880	.04407	.00133
%RSD	28.272	53.098	8.1302	8.7453	8.7503	8.9687	.13444

#1	.94692	2.3390	45.236	.87487	9.0510	.44122	.98733
#2	1.7071	1.2330	51.336	1.0113	10.419	.50904	.98519
#3	1.4151	.83377	52.904	1.0311	10.693	.52389	.98490

Check ?	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	1.0000	1.0000					
Range	10.000%	10.000%					

Approved: July 27, 2012



Sample Name: CCV Acquired: 7/25/2012 15:01:07 Type: QC
 Method: ICP-THERMO2_6010_200.7(v1999) Mode: CONC Corr. Factor: 1.000000
 User: KHR Custom ID1: Custom ID2: Custom ID3:
 Comment:

Elem	Na5895	Ni2316	P_2149	Pb2203	Rb7800	S_1807	S_1820
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	49.991	.50543	F 22.841	.50369	F .05848	10.236	F 7.3435
Stddev	3.957	.00157	4.357	.00105	8.6704	.012	.4855
%RSD	7.9152	.31129	19.078	.20859	14827.	.11981	6.6111

#1	45.489	.50723	19.913	.50476	-2.1587	10.224	7.6110
#2	51.565	.50476	20.760	.50366	-7.2881	10.248	7.6364
#3	52.918	.50430	27.848	.50266	9.6222	10.235	6.7831

Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Fail	Chk Pass	Chk Fail
Value			10.000		10.000		10.000
Range			10.000%		-10.000%		-10.000%

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3372	Ti1908
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.2105	.39189	5.2588	1.0072	.98373	.97972	.51090
Stddev	.0055	.00431	.0115	.0018	.07561	.08729	.00307
%RSD	.45002	1.1008	.21865	.17523	7.6859	8.9095	.60052

#1	1.2061	.39646	5.2456	1.0080	.89758	.88034	.51307
#2	1.2089	.39132	5.2664	1.0084	1.0146	1.0149	.50739
#3	1.2166	.38789	5.2645	1.0052	1.0391	1.0439	.51224


Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm
Avg	.97602	.99774	F .58851
Stddev	.01129	.00114	.50553
%RSD	1.1570	.11442	85.900

#1	.96729	.99899	.01868
#2	.97200	.99748	.76374
#3	.98878	.99675	.98312

Check ?	Chk Pass	Chk Pass	Chk Fail
Value			1.0000
Range			-10.000%

Approved: July 27, 2012



Sample Name: CCV Acquired: 7/25/2012 15:01:07 Type: QC
Method: ICP-THERMO2_6010_200.7(v1999) Mode: CONC Corr. Factor: 1.000000
User: KHR Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	25181.	15631.
Stddev	152.	760.
%RSD	.60268	4.8643
#1	25324.	16493.
#2	25197.	15342.
#3	25021.	15057.

Approved: July 27, 2012



Sample Name: CCB Acquired: 7/25/2012 15:04:13 Type: Blank
 Method: ICP-THERMO2_6010_200.7(v1999) Mode: CONC Corr. Factor: 1.000000
 User: KHR Custom ID1: Custom ID2: Custom ID3:
 Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.00023	-.01732	.00006	.00957	.00092	.00001	.02719
Stddev	.00188	.02576	.00152	.00161	.00185	.00002	.05708
%RSD	828.24	148.77	2643.6	16.813	200.90	119.17	209.95

#1	.00191	-.00045	-.00155	.01038	.00304	.00003	.09303
#2	-.00164	-.04697	.00025	.01062	.00009	.00000	-.00311
#3	-.00095	-.00453	.00147	.00772	-.00037	.00001	-.00836

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	Hf2322	Hf2641
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00004	-.00015	-.00047	.00024	-.00733	-.00776	F 1.0639
Stddev	.00003	.00005	.00089	.00047	.00421	.00438	.0642
%RSD	81.896	35.358	187.50	198.18	57.449	56.467	6.0321

#1	.00008	-.00011	.00052	-.00027	-.00951	-.01054	1.0907
#2	.00003	-.00013	-.00075	.00065	-.01001	-.01003	.99070
#3	.00001	-.00021	-.00120	.00034	-.00248	-.00271	1.1104

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit							.10000
Low Limit							-.10000

Elem	Hf2773	Hf3399	K_7664	Li6707	Mg2790	Mn2576	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F .67043	F -1.2576	.43025	-.00380	-.01902	.00028	.00048
Stddev	.71720	1.4254	.16344	.00871	.02525	.00053	.00030
%RSD	106.98	113.34	37.988	229.35	132.78	189.36	61.770

#1	-.14315	-.16022	.59508	.00593	-.00350	.00033	.00028
#2	.94324	-.74388	.42741	-.00646	-.00540	-.00027	.00082
#3	1.2112	-2.8686	.26824	-.01086	-.04815	.00078	.00033

Check ?	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	.10000	.10000					
Low Limit	-.10000	-.10000					

Approved: July 27, 2012



Sample Name: CCB Acquired: 7/25/2012 15:04:13 Type: Blank
 Method: ICP-THERMO2_6010_200.7(v1999) Mode: CONC Corr. Factor: 1.000000
 User: KHR Custom ID1: Custom ID2: Custom ID3:
 Comment:

Elem	Na5895	Ni2316	P_2149	Pb2203	Rb7800	S_1807	S_1820
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.14183	-.00007	F 2.6469	.00061	F 1.1849	F .02308	F 4.0363
Stddev	.09041	.00057	14.321	.00108	15.663	.06133	1.0705
%RSD	63.747	803.98	541.03	176.68	1321.8	265.67	26.523

#1	.23878	-.00017	17.750	-.00062	-14.823	.00634	3.3471
#2	.05982	.00054	.92628	.00137	16.478	.09104	5.2697
#3	.12688	-.00059	-10.736	.00109	1.8997	-.02813	3.4923

Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Fail	Chk Fail	Chk Fail
High Limit			.01000		.01000	.01000	.01000
Low Limit			-.01000		-.01000	-.01000	-.01000

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3372	Tl1908
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.00257	-.00037	.00312	-.00047	.00162	.00176	.00130
Stddev	.00341	.00166	.00473	.00033	.00149	.00138	.00148
%RSD	132.35	451.01	151.52	70.776	91.704	78.518	113.79

#1	-.00452	.00134	.00799	-.00041	.00331	.00178	-.00008
#2	-.00456	-.00199	-.00146	-.00082	.00105	.00037	.00287
#3	.00136	-.00045	.00284	-.00017	.00050	.00312	.00112


Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm
Avg	-.00022	.00000	F -.54074
Stddev	.00058	.0002	.32444
%RSD	270.36	8285.0	59.998

#1	.00009	.00003	-.73804
#2	.00015	.00017	-.71790
#3	-.00089	-.00021	-.16630

Check ?	Chk Pass	Chk Pass	Chk Fail
High Limit			.10000
Low Limit			-.10000

Approved: July 27, 2012



Sample Name: CCB Acquired: 7/25/2012 15:04:13 Type: Blank
Method: ICP-THERMO2_6010_200.7(v1999) Mode: CONC Corr. Factor: 1.000000
User: KHR Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	25394.	15332.
Stddev	97.	763.
%RSD	.38197	4.9740
#1	25497.	16204.
#2	25380.	14793.
#3	25305.	14998.

Approved: July 27, 2012



Sample Name: PBW YZ Acquired: 7/25/2012 15:07:25 Type: Unk
 Method: ICP-THERMO2_6010_200.7(v1999) Mode: CONC Corr. Factor: 1.000000
 User: KHR Custom ID1: Custom ID2: Custom ID3:
 Comment: WG404233-02

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00068	.00604	-.00155	.00761	-.00036	.00004	-.04346
Stddev	.00177	.06871	.00159	.00156	.00055	.00001	.02637
%RSD	259.84	1137.2	102.34	20.448	153.12	31.562	60.672

#1	.00259	-.01257	-.00207	.00877	-.00098	.00005	-.01356
#2	-.00093	.08214	-.00281	.00821	.00004	.00004	-.06339
#3	.00039	-.05144	.00023	.00584	-.00013	.00002	-.05343

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	Hf2322	Hf2641
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00021	.00010	-.00009	.00041	-.01210	-.00388	.90915
Stddev	.00013	.00030	.00050	.00034	.00574	.00464	.66704
%RSD	59.086	289.80	532.84	82.449	47.478	119.57	73.369

#1	.00023	-.00022	-.00059	.00008	-.01674	.00028	1.4590
#2	.00033	.00037	.00040	.00039	-.00568	-.00303	.16713
#3	.00008	.00016	-.00009	.00075	-.01388	-.00888	1.1013

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Hf2773	Hf3399	K_7664	Li6707	Mg2790	Mn2576	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.60962	F -1.0937	.22167	-.00642	-.03075	.00030	-.00020
Stddev	.37874	1.5843	.01980	.00505	.00972	.00152	.00031
%RSD	62.128	144.86	8.9300	78.694	31.612	503.68	150.24

#1	1.0461	-.39537	.20077	-.01174	-.04146	.00194	.00014
#2	.41526	-2.9072	.24013	-.00585	-.02828	-.00108	-.00032
#3	.36752	.02154	.22412	-.00168	-.02249	.00005	-.00044

Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit		45.000					
Low Limit		-.10000					

Approved: July 27, 2012



Sample Name: PBW YZ Acquired: 7/25/2012 15:07:25 Type: Unk
 Method: ICP-THERMO2_6010_200.7(v1999) Mode: CONC Corr. Factor: 1.000000
 User: KHR Custom ID1: Custom ID2: Custom ID3:
 Comment: WG404233-02

Elem	Na5895	Ni2316	P_2149	Pb2203	Rb7800	S_1807	S_1820
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.07265	.00062	6.2705	-.00050	F -.04588	F -.00926	2.6492
Stddev	.03504	.00039	10.453	.00346	11.248	.05066	1.0684
%RSD	48.237	62.984	166.70	690.24	24514.	546.86	40.329

#1	.06559	.00020	11.188	.00134	-9.5189	-.06693	2.4846
#2	.11069	.00069	-5.7344	.00165	-3.0039	.01107	3.7904
#3	.04167	.00098	13.358	-.00450	12.385	.02807	1.6727

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Fail	Chk Pass
High Limit					9.0000	9.0000	
Low Limit					-.00400	-.00400	

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3372	Tl1908
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.00108	-.00070	.00808	-.00090	.00012	-.00161	.00037
Stddev	.00374	.00366	.00375	.00018	.00009	.00193	.00126
%RSD	346.15	520.65	46.338	20.440	71.692	119.77	338.86

#1	-.00270	.00265	.01223	-.00097	.00019	.00059	-.00024
#2	-.00375	-.00016	.00709	-.00069	.00002	-.00299	.00182
#3	.00320	-.00460	.00493	-.00103	.00014	-.00244	-.00047

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm
Avg	-.00029	.00124	F -.78075
Stddev	.00062	.00010	.40966
%RSD	215.17	7.8583	52.470

#1	-.00048	.00114	-.85782
#2	-.00079	.00133	-1.1464
#3	.00040	.00124	-.33803

Check ?	Chk Pass	Chk Pass	Chk Fail
High Limit			45.000
Low Limit			-.00400

Approved: July 27, 2012



Sample Name: PBW YZ Acquired: 7/25/2012 15:07:25 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1999) Mode: CONC Corr. Factor: 1.000000
User: KHR Custom ID1: Custom ID2: Custom ID3:
Comment: WG404233-02

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	25827.	15639.
Stddev	106.	455.
%RSD	.41002	2.9078
#1	25901.	16134.
#2	25706.	15540.
#3	25875.	15241.

Approved: July 27, 2012



Sample Name: LCSW YZ Acquired: 7/25/2012 15:10:33 Type: Unk
 Method: ICP-THERMO2_6010_200.7(v1999) Mode: CONC Corr. Factor: 1.000000
 User: KHR Custom ID1: Custom ID2: Custom ID3:
 Comment: WG404233-03

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.19645	4.7020	.18911	.98683	.48045	.02490	4.7865
Stddev	.00161	.4698	.00182	.00406	.04630	.00003	.4439
%RSD	.81792	9.9914	.96317	.41191	9.6358	.13155	9.2739

#1	.19791	4.1720	.18711	.99003	.42763	.02487	4.2787
#2	.19671	4.8667	.19068	.98821	.49975	.02490	4.9799
#3	.19472	5.0673	.18952	.98226	.51397	.02493	5.1008

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	Hf2322	Hf2641
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.02427	.09739	.24558	.24328	1.8918	.48624	.16649
Stddev	.00027	.00051	.00045	.00064	.1894	.00275	.65496
%RSD	1.1219	.52817	.18313	.26445	10.011	.56556	393.38

#1	.02395	.09701	.24604	.24254	1.6742	.48316	-.55848
#2	.02444	.09718	.24555	.24360	1.9818	.48711	.34247
#3	.02441	.09797	.24515	.24370	2.0193	.48845	.71549

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Hf2773	Hf3399	K_7664	Li6707	Mg2790	Mn2576	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.3231	F -.24718	24.322	.48642	4.9351	.23686	.48318
Stddev	1.0298	.52493	2.356	.04849	.5670	.02288	.00141
%RSD	77.829	212.37	9.6870	9.9682	11.488	9.6611	.29180

#1	1.2451	-.32232	21.611	.43074	4.2920	.21062	.48177
#2	2.3897	-.73048	25.478	.50922	5.1504	.24727	.48459
#3	.33454	.31127	25.876	.51931	5.3629	.25269	.48319

Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit		45.000					
Low Limit		-.10000					

Approved: July 27, 2012



Sample Name: LCSW YZ Acquired: 7/25/2012 15:10:33 Type: Unk
 Method: ICP-THERMO2_6010_200.7(v1999) Mode: CONC Corr. Factor: 1.000000
 User: KHR Custom ID1: Custom ID2: Custom ID3:
 Comment: WG404233-03

Elem	Na5895	Ni2316	P_2149	Pb2203	Rb7800	S_1807	S_1820
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	25.074	.25314	17.711	.24982	F -.28187	5.2600	2.1625
Stddev	2.340	.00125	14.464	.00296	15.705	.0812	2.2869
%RSD	9.3328	.49455	81.664	1.1865	5571.6	1.5434	105.75

#1	22.401	.25195	11.439	.24885	-17.876	5.2087	-.39105
#2	26.070	.25445	34.253	.24747	4.7125	5.3536	2.8567
#3	26.752	.25300	7.4427	.25315	12.318	5.2178	4.0218

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass
High Limit					9.0000		
Low Limit					-.00400		

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3372	Tl1908
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.59827	.19558	2.6805	.53425	.47948	.46731	.25850
Stddev	.00197	.00060	.0309	.00213	.04675	.04573	.00023
%RSD	.32975	.30469	1.1523	.39885	9.7502	9.7863	.08877

#1	.59774	.19548	2.6505	.53200	.42626	.41463	.25840
#2	.59661	.19504	2.6788	.53453	.49826	.49040	.25876
#3	.60045	.19622	2.7122	.53623	.51392	.49689	.25834

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm
Avg	.47828	.50169	F -.33847
Stddev	.00333	.00213	.43384
%RSD	.69664	.42369	128.18

#1	.48108	.49927	-.14429
#2	.47917	.50254	-.83548
#3	.47460	.50326	-.03563

Check ?	Chk Pass	Chk Pass	Chk Fail
High Limit			45.000
Low Limit			-.00400

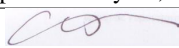
Approved: July 27, 2012



Sample Name: LCSW YZ Acquired: 7/25/2012 15:10:33 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1999) Mode: CONC Corr. Factor: 1.000000
User: KHR Custom ID1: Custom ID2: Custom ID3:
Comment: WG404233-03

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	25712.	16247.
Stddev	20.	673.
%RSD	.07908	4.1427
#1	25697.	17009.
#2	25703.	15996.
#3	25735.	15735.

Approved: July 27, 2012



Sample Name: L1207054601 Acquired: 7/25/2012 15:13:38 Type: Unk
 Method: ICP-THERMO2_6010_200.7(v1999) Mode: CONC Corr. Factor: 1.000000
 User: KHR Custom ID1: Custom ID2: Custom ID3:
 Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00215	6.3350	.00543	.10495	.45301	.00045	829.94
Stddev	.00224	.2735	.00220	.01411	.02171	.00001	58.18
%RSD	104.16	4.3177	40.514	13.449	4.7914	2.1486	7.0105

#1	-.00038	6.0299	.00794	.10626	.42808	.00044	762.77
#2	.00296	6.4171	.00382	.09022	.46320	.00046	864.42
#3	.00387	6.5581	.00454	.11836	.46774	.00044	862.65

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	Hf2322	Hf2641
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00114	.00403	.02924	.20027	4.8578	1.3346	1.6838
Stddev	.00007	.00010	.00356	.00029	.2252	.0012	.9900
%RSD	6.1748	2.4900	12.166	.14277	4.6358	.08691	58.794

#1	.00108	.00407	.02934	.20039	4.5997	1.3347	1.0115
#2	.00112	.00409	.02563	.20048	4.9596	1.3358	1.2194
#3	.00122	.00391	.03274	.19995	5.0141	1.3335	2.8207

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Hf2773	Hf3399	K_7664	Li6707	Mg2790	Mn2576	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.0800	F -1.6304	43.854	.06062	21.742	.46281	.01731
Stddev	.3420	.9376	2.105	.00383	1.085	.02197	.00020
%RSD	16.443	57.509	4.7991	6.3198	4.9881	4.7473	1.1419

#1	2.4648	-.55510	41.436	.05803	20.493	.43750	.01712
#2	1.9645	-2.0590	44.847	.05881	22.281	.47393	.01751
#3	1.8106	-2.2772	45.278	.06502	22.451	.47700	.01731

Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit		45.000					
Low Limit		-.10000					

Approved: July 27, 2012



Sample Name: L1207054601 Acquired: 7/25/2012 15:13:38 Type: Unk
 Method: ICP-THERMO2_6010_200.7(v1999) Mode: CONC Corr. Factor: 1.000000
 User: KHR Custom ID1: Custom ID2: Custom ID3:
 Comment:

Elem	Na5895	Ni2316	P_2149	Pb2203	Rb7800	S_1807	S_1820
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	152.88	.03077	F 47891.	.01505	F -3.6175	F 2605.7	F -40063.
Stddev	7.26	.00116	84.	.00104	5.3060	8.7	36.
%RSD	4.7473	3.7723	.17557	6.9018	146.68	.33313	.08917

#1	144.55	.03064	47933.	.01620	-7.5888	2614.7	-40043.
#2	156.20	.02968	47946.	.01417	-5.6724	2604.9	-40105.
#3	157.88	.03199	47794.	.01479	2.4086	2597.4	-40042.

Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Fail	Chk Fail	Chk Fail
High Limit			900.00		9.0000	9.0000	9.0000
Low Limit			-.00400		-.00400	-.00400	-.00400

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3372	Tl1908
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00044	.00564	9.1340	.00288	1.4485	.07978	.00155
Stddev	.00557	.00491	.0724	.00028	.0711	.00213	.00154
%RSD	1257.9	87.020	.79261	9.7253	4.9107	2.6639	99.629

#1	.00647	.00348	9.2004	.00265	1.3670	.07863	.00168
#2	-.00063	.01126	9.1448	.00319	1.4800	.07849	.00302
#3	-.00451	.00218	9.0568	.00278	1.4984	.08224	-.00006

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm
Avg	.00761	.46243	.93179
Stddev	.00180	.00053	.64471
%RSD	23.669	.11549	69.191

#1	.00828	.46305	.59163
#2	.00557	.46213	.52841
#3	.00898	.46212	1.6753

Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			


Approved: July 27, 2012



Sample Name: L1207054601 Acquired: 7/25/2012 15:13:38 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1999) Mode: CONC Corr. Factor: 1.000000
User: KHR Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	23256.	15150.
Stddev	92.	528.
%RSD	.39473	3.4836
#1	23192.	15752.
#2	23361.	14767.
#3	23214.	14932.

Approved: July 27, 2012



Sample Name: L1207054602 Acquired: 7/25/2012 15:16:51 Type: Unk
 Method: ICP-THERMO2_6010_200.7(v1999) Mode: CONC Corr. Factor: 1.000000
 User: KHR Custom ID1: Custom ID2: Custom ID3:
 Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00120	.12252	.00518	.19533	.00977	-.00005	17.275
Stddev	.00027	.05811	.00270	.00081	.00058	.00002	.617
%RSD	22.577	47.430	52.153	.41342	5.9380	34.031	3.5712

#1	.00098	.15764	.00684	.19545	.00981	-.00005	17.983
#2	.00112	.05544	.00206	.19608	.01033	-.00007	16.852
#3	.00150	.15447	.00664	.19448	.00918	-.00003	16.989

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	Hf2322	Hf2641
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00015	.00117	.00006	.02509	.06381	.05350	.38937
Stddev	.00008	.00018	.00048	.00082	.00867	.00847	.34195
%RSD	52.789	15.558	811.25	3.2650	13.584	15.839	87.823

#1	.00007	.00096	.00057	.02600	.05539	.05440	.02537
#2	.00022	.00124	-.00001	.02487	.06333	.04461	.70389
#3	.00015	.00130	-.00039	.02440	.07271	.06149	.43884

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Hf2773	Hf3399	K_7664	Li6707	Mg2790	Mn2576	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.6793	2.6539	69.881	.03881	1.6402	.00617	.01786
Stddev	.7470	1.8615	2.977	.01090	.0428	.00119	.00046
%RSD	44.485	70.141	4.2605	28.089	2.6069	19.237	2.6022

#1	.92099	1.6220	66.451	.03010	1.5936	.00612	.01821
#2	1.7023	4.8029	71.399	.05104	1.6492	.00501	.01803
#3	2.4145	1.5370	71.794	.03530	1.6777	.00738	.01733

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: July 27, 2012



Sample Name: L1207054602 Acquired: 7/25/2012 15:16:51 Type: Unk
 Method: ICP-THERMO2_6010_200.7(v1999) Mode: CONC Corr. Factor: 1.000000
 User: KHR Custom ID1: Custom ID2: Custom ID3:
 Comment:

Elem	Na5895	Ni2316	P_2149	Pb2203	Rb7800	S_1807	S_1820
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F 676.22	.00738	F 1126.3	.00161	6.1075	F 1333.1	F -46900.
Stddev	57.16	.00089	32.2	.00190	7.9504	1.4	128.
%RSD	8.4523	11.998	2.8591	117.94	130.17	.10766	.27336

#1	611.55	.00751	1101.4	.00269	1.5214	1331.7	-46787.
#2	697.16	.00819	1162.7	.00273	15.288	1334.6	-47039.
#3	719.96	.00643	1114.9	-.00058	1.5134	1332.8	-46872.

Check ?	Chk Fail	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Fail	Chk Fail
High Limit	360.00		900.00			9.0000	9.0000
Low Limit	-.50000		-.00400			-.00400	-.00400

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3372	Tl1908
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.00094	.00635	2.6263	-.00099	.06732	.00189	.00316
Stddev	.00255	.00240	.0035	.00019	.00255	.00331	.00327
%RSD	269.56	37.759	.13276	19.408	3.7837	174.97	103.53

#1	.00192	.00447	2.6234	-.00079	.06444	-.00188	.00556
#2	-.00178	.00906	2.6252	-.00117	.06825	.00430	.00450
#3	-.00297	.00554	2.6301	-.00102	.06927	.00326	-.00057

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm
Avg	.00564	.02615	F -.43244
Stddev	.00053	.00013	.19392
%RSD	9.3448	.48054	44.843

#1	.00620	.02600	-.55458
#2	.00555	.02623	-.20884
#3	.00516	.02622	-.53389

Check ?	Chk Pass	Chk Pass	Chk Fail
High Limit			45.000
Low Limit			-.00400

Approved: July 27, 2012



Sample Name: L1207054602 Acquired: 7/25/2012 15:16:51 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1999) Mode: CONC Corr. Factor: 1.000000
User: KHR Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	23856.	15327.
Stddev	115.	255.
%RSD	.48032	1.6661
#1	23988.	15535.
#2	23796.	15042.
#3	23785.	15404.

Approved: July 27, 2012



Sample Name: L1207054603 Acquired: 7/25/2012 15:20:05 Type: Unk
 Method: ICP-THERMO2_6010_200.7(v1999) Mode: CONC Corr. Factor: 1.000000
 User: KHR Custom ID1: Custom ID2: Custom ID3:
 Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00126	.23915	-.00053	.01464	.04352	.00005	20.055
Stddev	.00063	.04341	.00116	.00032	.00281	.00003	1.322
%RSD	50.339	18.150	216.48	2.1901	6.4538	64.040	6.5912

#1	.00199	.28579	-.00063	.01468	.04040	.00002	18.559
#2	.00080	.19994	-.00164	.01494	.04429	.00008	20.542
#3	.00099	.23171	.00067	.01431	.04585	.00004	21.064

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	Hf2322	Hf2641
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00040	.00079	.00005	.00512	.43845	.16247	.72232
Stddev	.00006	.00035	.00150	.00081	.03581	.00453	.34692
%RSD	13.827	44.120	3145.3	15.885	8.1671	2.7860	48.028

#1	.00034	.00050	-.00151	.00526	.40091	.15958	1.1056
#2	.00045	.00070	.00018	.00586	.44220	.16014	.63162
#3	.00042	.00118	.00147	.00425	.47224	.16769	.42976

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Hf2773	Hf3399	K_7664	Li6707	Mg2790	Mn2576	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.5624	F -54862	3.3254	.00303	10.136	.09961	.00021
Stddev	.6074	1.3638	.0755	.00688	.730	.00694	.00031
%RSD	38.876	248.59	2.2694	226.77	7.1986	6.9704	152.83

#1	1.9353	.88723	3.2475	-.00105	9.3062	.09161	.00057
#2	.86150	-1.8266	3.3982	.01097	10.424	.10308	.00000
#3	1.8904	-.70647	3.3305	-.00082	10.677	.10412	.00005

Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit		45.000					
Low Limit		-.10000					

Approved: July 27, 2012



Sample Name: L1207054603 Acquired: 7/25/2012 15:20:05 Type: Unk
 Method: ICP-THERMO2_6010_200.7(v1999) Mode: CONC Corr. Factor: 1.000000
 User: KHR Custom ID1: Custom ID2: Custom ID3:
 Comment:

Elem	Na5895	Ni2316	P_2149	Pb2203	Rb7800	S_1807	S_1820
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	12.480	.00339	96.939	.00235	F 14.862	F 263.50	F -8691.8
Stddev	.350	.00047	10.954	.00207	11.812	1.10	17.8
%RSD	2.8027	13.770	11.300	88.062	79.475	.41761	.20510

#1	12.867	.00344	100.36	.00430	21.672	262.58	-8674.6
#2	12.186	.00290	105.77	.00260	21.691	263.19	-8690.6
#3	12.387	.00383	84.683	.00017	1.2231	264.72	-8710.2

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Fail	Chk Fail
High Limit					9.0000	9.0000	9.0000
Low Limit					-0.00400	-0.00400	-0.00400

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3372	Tl1908
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00043	-.00235	3.4543	-.00061	.16910	.00244	.00243
Stddev	.00086	.00293	.0081	.00026	.01135	.00197	.00135
%RSD	200.58	124.78	.23565	42.323	6.7093	80.873	55.648

#1	.00143	.00062	3.4533	-.00032	.15625	.00323	.00279
#2	-.00009	-.00244	3.4468	-.00081	.17333	.00019	.00094
#3	-.00004	-.00524	3.4629	-.00069	.17773	.00389	.00357


Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm
Avg	.00055	.02322	F -.61392
Stddev	.00037	.00014	.54899
%RSD	67.154	.62020	89.424

#1	.00095	.02327	-.91540
#2	.00049	.02334	-.94613
#3	.00022	.02306	.01975

Check ?	Chk Pass	Chk Pass	Chk Fail
High Limit			45.000
Low Limit			-0.00400

Approved: July 27, 2012



Sample Name: L1207054603 Acquired: 7/25/2012 15:20:05 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1999) Mode: CONC Corr. Factor: 1.000000
User: KHR Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	25191.	14916.
Stddev	193.	86.
%RSD	.76448	.57549
#1	24970.	14818.
#2	25315.	14978.
#3	25290.	14952.

Approved: July 27, 2012



Sample Name: L1207054604 Acquired: 7/25/2012 15:23:11 Type: Unk
 Method: ICP-THERMO2_6010_200.7(v1999) Mode: CONC Corr. Factor: 1.000000
 User: KHR Custom ID1: 5 Custom ID2: Custom ID3:
 Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00322	9.0535	.00654	.07943	.44548	.00052	709.48
Stddev	.00116	.5591	.00174	.00900	.02901	.00008	19.47
%RSD	36.034	6.1757	26.682	11.337	6.5130	14.751	2.7442

#1	.00443	8.4314	.00501	.08730	.41385	.00048	687.41
#2	.00212	9.2149	.00616	.06961	.45171	.00047	716.81
#3	.00310	9.5142	.00844	.08137	.47087	.00060	724.23

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	Hf2322	Hf2641
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00129	.00587	.04965	.17937	9.2913	.98785	2.6644
Stddev	.00016	.00026	.00421	.00057	.6058	.00445	.0568
%RSD	12.721	4.3842	8.4877	.31684	6.5203	.45039	2.1305

#1	.00122	.00563	.05418	.17948	8.6334	.98277	2.6519
#2	.00118	.00614	.04584	.17876	9.4144	.98971	2.6150
#3	.00148	.00586	.04894	.17988	9.8262	.99106	2.7264

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Hf2773	Hf3399	K_7664	Li6707	Mg2790	Mn2576	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.8724	.41846	17.868	.04863	31.831	.72437	.00968
Stddev	.3135	1.4860	1.208	.00166	2.188	.04743	.00021
%RSD	16.745	355.11	6.7615	3.4045	6.8745	6.5481	2.1712

#1	2.1506	-1.2964	16.512	.05044	29.386	.67097	.00990
#2	1.5327	1.2259	18.262	.04825	32.502	.74051	.00965
#3	1.9338	1.3259	18.829	.04720	33.606	.76162	.00948

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: July 27, 2012



Sample Name: L1207054604 Acquired: 7/25/2012 15:23:11 Type: Unk
 Method: ICP-THERMO2_6010_200.7(v1999) Mode: CONC Corr. Factor: 1.000000
 User: KHR Custom ID1: 5 Custom ID2: Custom ID3:
 Comment:

Elem	Na5895	Ni2316	P_2149	Pb2203	Rb7800	S_1807	S_1820
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	81.137	.03183	F 51811.	.01928	F -3.0175	F 1426.0	F -12118.
Stddev	5.230	.00097	232.	.00178	3.1059	6.8	67.
%RSD	6.4458	3.0477	.44751	9.2221	102.93	.47635	.55378

#1	75.459	.03253	51798.	.02001	-.61099	1426.3	-12097.
#2	82.195	.03073	51586.	.01726	-6.5235	1419.0	-12064.
#3	85.757	.03224	52049.	.02058	-1.9179	1432.6	-12193.

Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Fail	Chk Fail	Chk Fail
High Limit			900.00		9.0000	9.0000	9.0000
Low Limit			-.00400		-.00400	-.00400	-.00400

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3372	Tl1908
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.00089	.00705	12.981	.00246	1.0526	.07365	.00211
Stddev	.00456	.00142	.128	.00056	.0695	.00576	.00075
%RSD	513.38	20.082	.98450	22.994	6.5986	7.8166	35.501

#1	-.00475	.00575	13.012	.00310	.97782	.06933	.00173
#2	.00414	.00683	12.840	.00205	1.0648	.07144	.00163
#3	-.00205	.00856	13.090	.00222	1.1151	.08019	.00298

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm
Avg	.01178	.48936	2.5746
Stddev	.00076	.00173	.8170
%RSD	6.4627	.35426	31.735

#1	.01188	.48956	1.7463
#2	.01097	.48754	2.5976
#3	.01248	.49099	3.3799

Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

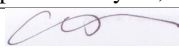
Approved: July 27, 2012



Sample Name: L1207054604 Acquired: 7/25/2012 15:23:11 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1999) Mode: CONC Corr. Factor: 1.000000
User: KHR Custom ID1: 5 Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	24142.	15305.
Stddev	103.	213.
%RSD	.42523	1.3903
#1	24118.	15456.
#2	24054.	15398.
#3	24255.	15062.

Approved: July 27, 2012



Sample Name: L1207054605 Acquired: 7/25/2012 15:26:19 Type: Unk
 Method: ICP-THERMO2_6010_200.7(v1999) Mode: CONC Corr. Factor: 1.000000
 User: KHR Custom ID1: Custom ID2: Custom ID3:
 Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00047	.54476	-.00087	.01577	.04553	.00002	21.093
Stddev	.00073	.05383	.00300	.00142	.00323	.00002	.305
%RSD	153.80	9.8813	346.74	9.0293	7.0988	103.97	1.4476

#1	-.00031	.48400	.00207	.01574	.04183	.00003	21.389
#2	.00113	.56381	-.00393	.01720	.04698	.00000	20.779
#3	.00060	.58648	-.00074	.01436	.04778	.00004	21.112

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	Hf2322	Hf2641
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00032	.00021	.00059	.00107	.20791	.16066	.08669
Stddev	.00009	.00035	.00089	.00061	.00937	.00518	.86892
%RSD	27.815	166.59	150.91	57.202	4.5068	3.2235	1002.4

#1	.00024	.00051	-.00010	.00170	.20444	.15482	-.12433
#2	.00030	-.00017	.00027	.00047	.20077	.16471	-.65729
#3	.00041	.00028	.00159	.00105	.21852	.16244	1.0417

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Hf2773	Hf3399	K_7664	Li6707	Mg2790	Mn2576	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.76467	1.0723	2.9793	.00098	10.137	.05876	.00016
Stddev	.07527	.0605	.1835	.00656	.633	.00383	.00017
%RSD	9.8438	5.6440	6.1602	668.74	6.2414	6.5179	106.72

#1	.73945	1.1394	2.7710	.00263	9.4416	.05441	.00035
#2	.84932	1.0220	3.0494	.00656	10.290	.06024	.00013
#3	.70526	1.0553	3.1174	-.00625	10.679	.06163	.00001

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: July 27, 2012



Sample Name: L1207054605 Acquired: 7/25/2012 15:26:19 Type: Unk
 Method: ICP-THERMO2_6010_200.7(v1999) Mode: CONC Corr. Factor: 1.000000
 User: KHR Custom ID1: Custom ID2: Custom ID3:
 Comment:

Elem	Na5895	Ni2316	P_2149	Pb2203	Rb7800	S_1807	S_1820
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	11.878	.00175	132.61	.00386	F 26.935	F 289.91	F -9526.3
Stddev	.698	.00053	12.96	.00091	13.897	.95	27.2
%RSD	5.8756	30.163	9.7737	23.696	51.594	.32632	.28581

#1	11.088	.00229	146.82	.00416	11.292	290.48	-9549.7
#2	12.138	.00123	121.44	.00283	37.853	290.44	-9532.8
#3	12.409	.00173	129.57	.00458	31.659	288.82	-9496.4

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Fail	Chk Fail
High Limit					9.0000	9.0000	9.0000
Low Limit					-0.0400	-0.0400	-0.0400

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3372	Tl1908
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-0.0081	-0.00111	3.3189	-0.00070	.17089	.00137	.00015
Stddev	.00403	.00149	.0120	.00020	.00995	.00338	.00181
%RSD	497.38	133.97	.36118	28.781	5.8243	247.17	1197.4

#1	.00223	.00030	3.3312	-0.0064	.15947	.00342	-0.0155
#2	.00073	-0.00267	3.3183	-0.0093	.17547	-0.00254	.00205
#3	-0.00539	-0.00096	3.3073	-0.0054	.17773	.00322	-0.0004

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm
Avg	.00115	.01573	F -.19863
Stddev	.00113	.00005	.37567
%RSD	98.439	.32731	189.13

#1	.00094	.01567	-0.1940
#2	.00014	.01577	.05386
#3	.00238	.01574	-0.63035

Check ?	Chk Pass	Chk Pass	Chk Fail
High Limit			45.000
Low Limit			-0.0400

Approved: July 27, 2012



Sample Name: L1207054605 Acquired: 7/25/2012 15:26:19 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1999) Mode: CONC Corr. Factor: 1.000000
User: KHR Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	25253.	14490.
Stddev	188.	633.
%RSD	.74444	4.3692
#1	25461.	15186.
#2	25203.	14335.
#3	25095.	13949.

Approved: July 27, 2012



Sample Name: L1207064901 Acquired: 7/25/2012 15:29:23 Type: Unk
 Method: ICP-THERMO2_6010_200.7(v1999) Mode: CONC Corr. Factor: 1.000000
 User: KHR Custom ID1: Custom ID2: Custom ID3:
 Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.00051	.74489	.00015	.37267	.07070	-.00002	85.438
Stddev	.00063	.11182	.00095	.00213	.00517	.00008	6.467
%RSD	122.33	15.012	629.44	.57185	7.3155	336.23	7.5689

#1	-.00008	.63186	-.00013	.37115	.06490	-.00008	78.103
#2	-.00123	.74735	-.00063	.37176	.07237	.00007	87.895
#3	-.00022	.85547	.00121	.37511	.07484	-.00006	90.317

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	Hf2322	Hf2641
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00057	.00056	.00251	.00097	.81304	1.0009	2.5518
Stddev	.00012	.00020	.00048	.00072	.06000	.0018	.3091
%RSD	20.301	35.782	19.184	73.968	7.3799	.18306	12.114

#1	.00050	.00076	.00305	.00106	.74512	1.0029	2.2991
#2	.00070	.00035	.00212	.00021	.83514	1.0005	2.4597
#3	.00051	.00058	.00237	.00164	.85886	.99927	2.8964

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Hf2773	Hf3399	K_7664	Li6707	Mg2790	Mn2576	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.94030	-.07658	2.0708	.04983	29.905	.10089	.00194
Stddev	.28383	.60257	.1859	.00208	2.381	.00860	.00017
%RSD	30.185	786.89	8.9792	4.1765	7.9620	8.5204	8.5201

#1	.66087	-.68055	1.9029	.04939	27.206	.09097	.00183
#2	.93172	-.07377	2.0388	.04800	30.801	.10539	.00186
#3	1.2283	.52459	2.2706	.05209	31.709	.10630	.00213

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: July 27, 2012



Sample Name: L1207064901 Acquired: 7/25/2012 15:29:23 Type: Unk
 Method: ICP-THERMO2_6010_200.7(v1999) Mode: CONC Corr. Factor: 1.000000
 User: KHR Custom ID1: Custom ID2: Custom ID3:
 Comment:

Elem	Na5895	Ni2316	P_2149	Pb2203	Rb7800	S_1807	S_1820
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	95.713	.00239	203.47	.00108	3.0965	F 479.56	F -13898.
Stddev	7.297	.00029	5.11	.00245	19.696	4.97	19.
%RSD	7.6236	11.966	2.5109	226.88	636.06	1.0357	.13702

#1	87.419	.00269	203.96	.00387	-14.873	484.47	-13918.
#2	98.577	.00212	198.13	-.00075	.0083	479.68	-13896.
#3	101.14	.00238	208.31	.00012	24.154	474.54	-13880.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Fail
High Limit						9.0000	9.0000
Low Limit						-.00400	-.00400

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3372	Tl1908
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.00076	.00242	10.787	-.00103	1.0341	.02676	.00134
Stddev	.00063	.00171	.180	.00107	.0785	.00354	.00145
%RSD	83.558	70.693	1.6696	104.34	7.5881	13.234	108.21

#1	-.00089	.00128	10.964	-.00003	.94532	.02272	.00247
#2	-.00131	.00439	10.792	-.00216	1.0630	.02822	.00186
#3	-.00007	.00160	10.604	-.00089	1.0941	.02934	-.00030

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm
Avg	.00567	.00318	.30340
Stddev	.00068	.00010	1.5133
%RSD	12.070	3.1181	498.80

#1	.00642	.00319	-.82406
#2	.00507	.00307	-.28908
#3	.00552	.00327	2.0233

Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Approved: July 27, 2012



Sample Name: L1207064901 Acquired: 7/25/2012 15:29:23 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1999) Mode: CONC Corr. Factor: 1.000000
User: KHR Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	24373.	15455.
Stddev	120.	650.
%RSD	.49254	4.2033
#1	24442.	16202.
#2	24443.	15145.
#3	24235.	15019.

Approved: July 27, 2012



Sample Name: L1207064901PS Acquired: 7/25/2012 15:32:27 Type: Unk
 Method: ICP-THERMO2_6010_200.7(v1999) Mode: CONC Corr. Factor: 1.000000
 User: KHR Custom ID1: Custom ID2: Custom ID3:
 Comment: WG404484-01

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00054	.81192	-.00025	.36912	.07117	.00006	85.591
Stddev	.00026	.02116	.00144	.00228	.00594	.00005	6.055
%RSD	47.988	2.6064	567.39	.61744	8.3488	84.996	7.0746

#1	.00040	.79034	-.00090	.37118	.06444	.00002	78.700
#2	.00083	.81276	-.00125	.36950	.07341	.00004	88.012
#3	.00038	.83264	.00139	.36667	.07567	.00011	90.061

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	Hf2322	Hf2641
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00054	.00044	.00187	.00062	.81424	.99910	2.8375
Stddev	.00016	.00023	.00037	.00036	.06350	.00456	.6728
%RSD	28.845	51.514	19.779	58.729	7.7981	.45661	23.711

#1	.00072	.00039	.00195	.00099	.74386	.99787	2.0779
#2	.00047	.00025	.00219	.00026	.83161	1.0041	3.3584
#3	.00043	.00069	.00146	.00061	.86724	.99527	3.0761

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Hf2773	Hf3399	K_7664	Li6707	Mg2790	Mn2576	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.79791	F -.76854	2.0706	.05050	29.862	.09990	.00177
Stddev	1.2214	1.4558	.1280	.00683	2.364	.00768	.00027
%RSD	153.08	189.42	6.1807	13.520	7.9158	7.6869	15.133

#1	.63867	.02840	1.9887	.05428	27.177	.09139	.00202
#2	2.0912	-2.4488	2.0050	.05459	30.784	.10198	.00180
#3	-.33611	.11477	2.2180	.04261	31.627	.10632	.00149

Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit		45.000					
Low Limit		-.10000					

Approved: July 27, 2012



Sample Name: L1207064901PS Acquired: 7/25/2012 15:32:27 Type: Unk
 Method: ICP-THERMO2_6010_200.7(v1999) Mode: CONC Corr. Factor: 1.000000
 User: KHR Custom ID1: Custom ID2: Custom ID3:
 Comment: WG404484-01

Elem	Na5895	Ni2316	P_2149	Pb2203	Rb7800	S_1807	S_1820
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	96.185	.00199	204.58	.00371	F 11.049	F 477.22	F -13877.
Stddev	7.262	.00082	8.01	.00334	9.420	1.83	15.
%RSD	7.5499	41.276	3.9174	89.878	85.259	.38412	.11055

#1	87.922	.00111	204.98	.00059	1.1722	476.49	-13870.
#2	99.080	.00213	212.39	.00723	19.934	479.30	-13895.
#3	101.55	.00274	196.38	.00331	12.040	475.86	-13866.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Fail	Chk Fail
High Limit					9.0000	9.0000	9.0000
Low Limit					-0.0400	-0.0400	-0.0400

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3372	Tl1908
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.00099	.00380	10.714	-.00108	1.0408	.02786	.00135
Stddev	.00148	.00159	.092	.00030	.0792	.00540	.00306
%RSD	148.88	41.748	.86044	27.978	7.6103	19.367	226.58

#1	-.00006	.00563	10.641	-.00120	.95062	.02300	.00234
#2	-.00022	.00275	10.818	-.00073	1.0725	.02691	-.00208
#3	-.00269	.00303	10.684	-.00130	1.0992	.03366	.00379

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm
Avg	.00488	.00351	F -.31075
Stddev	.00052	.00001	.34353
%RSD	10.670	.41694	110.55

#1	.00514	.00350	-.68963
#2	.00522	.00350	-.01957
#3	.00428	.00352	-.22307

Check ?	Chk Pass	Chk Pass	Chk Fail
High Limit			45.000
Low Limit			-0.0400

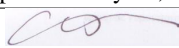
Approved: July 27, 2012



Sample Name: L1207064901PS Acquired: 7/25/2012 15:32:27 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1999) Mode: CONC Corr. Factor: 1.000000
User: KHR Custom ID1: Custom ID2: Custom ID3:
Comment: WG404484-01

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	24405.	15023.
Stddev	119.	448.
%RSD	.48854	2.9832
#1	24316.	15538.
#2	24358.	14813.
#3	24540.	14719.

Approved: July 27, 2012



Sample Name: L1207064901SDL Acquired: 7/25/2012 15:35:31 Type: Unk
 Method: ICP-THERMO2_6010_200.7(v1999) Mode: CONC Corr. Factor: 1.000000
 User: KHR Custom ID1: 5 Custom ID2: Custom ID3:
 Comment: WG404484-02

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00107	.14932	.00054	.07227	.01502	.00006	17.566
Stddev	.00016	.09003	.00115	.00148	.00185	.00004	1.405
%RSD	15.062	60.296	212.12	2.0511	12.344	58.157	7.9993

#1	.00099	.04929	.00173	.07246	.01299	.00003	15.957
#2	.00125	.17482	.00048	.07365	.01547	.00011	18.187
#3	.00096	.22385	-.00058	.07070	.01661	.00005	18.553

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	Hf2322	Hf2641
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00012	.00028	-.00001	.00017	.14846	.20448	.45232
Stddev	.00005	.00014	.00038	.00012	.01495	.01066	.25652
%RSD	38.143	50.626	7301.9	70.796	10.072	5.2131	56.711

#1	.00017	.00021	-.00044	.00006	.13434	.21393	.71849
#2	.00010	.00044	.00018	.00015	.14690	.19293	.20669
#3	.00009	.00019	.00024	.00030	.16412	.20659	.43178

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Hf2773	Hf3399	K_7664	Li6707	Mg2790	Mn2576	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.61163	F -.68585	.75162	.00275	6.0407	.02036	.00009
Stddev	1.0501	.33291	.19600	.00404	.5101	.00192	.00040
%RSD	171.68	48.540	26.077	146.67	8.4436	9.4248	470.04

#1	1.1307	-.40542	.54715	.00548	5.4535	.01817	-.00019
#2	1.3011	-1.0538	.76984	.00467	6.2957	.02116	-.00009
#3	-.59689	-.59837	.93788	-.00189	6.3731	.02174	.00054

Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit		45.000					
Low Limit		-.10000					

Approved: July 27, 2012



Sample Name: L1207064901SDL Acquired: 7/25/2012 15:35:31 Type: Unk
 Method: ICP-THERMO2_6010_200.7(v1999) Mode: CONC Corr. Factor: 1.000000
 User: KHR Custom ID1: 5 Custom ID2: Custom ID3:
 Comment: WG404484-02

Elem	Na5895	Ni2316	P_2149	Pb2203	Rb7800	S_1807	S_1820
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	20.098	.00087	41.184	.00184	8.4066	F 97.030	F -2777.4
Stddev	1.657	.00045	19.262	.00114	20.081	.522	5.0
%RSD	8.2446	51.462	46.769	61.874	238.87	.53795	.17938

#1	18.200	.00129	33.881	.00315	-13.329	96.702	-2776.3
#2	20.835	.00040	26.642	.00131	12.280	96.757	-2773.0
#3	21.259	.00093	63.029	.00107	26.269	97.632	-2782.8

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Fail
High Limit						9.0000	9.0000
Low Limit						-.00400	-.00400

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3372	Tl1908
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.00236	.00217	2.1652	-.00129	.20907	.00313	.00334
Stddev	.00112	.00152	.0242	.00049	.01702	.00621	.00084
%RSD	47.300	70.072	1.1156	37.801	8.1412	198.51	25.127

#1	-.00216	.00090	2.1541	-.00163	.18951	.00261	.00285
#2	-.00136	.00175	2.1487	-.00151	.21713	.00959	.00285
#3	-.00356	.00385	2.1930	-.00073	.22056	-.00280	.00430

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm
Avg	.00076	.00113	F -.65914
Stddev	.00034	.00009	.54385
%RSD	44.551	8.0600	82.508

#1	.00086	.00118	-1.0776
#2	.00104	.00102	-.85541
#3	.00038	.00118	-.04440

Check ?	Chk Pass	Chk Pass	Chk Fail
High Limit			45.000
Low Limit			-.00400

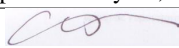
Approved: July 27, 2012



Sample Name: L1207064901SDL Acquired: 7/25/2012 15:35:31 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1999) Mode: CONC Corr. Factor: 1.000000
User: KHR Custom ID1: 5 Custom ID2: Custom ID3:
Comment: WG404484-02

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	25814.	15622.
Stddev	165.	728.
%RSD	.63894	4.6599
#1	26004.	16458.
#2	25729.	15273.
#3	25708.	15133.

Approved: July 27, 2012



Sample Name: CCV Acquired: 7/25/2012 15:38:45 Type: QC
 Method: ICP-THERMO2_6010_200.7(v1999) Mode: CONC Corr. Factor: 1.000000
 User: KHR Custom ID1: Custom ID2: Custom ID3:
 Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.40720	9.6958	.38364	.51367	.99260	.05160	9.9100
Stddev	.01390	.7598	.00116	.01689	.07689	.00178	.7100
%RSD	3.4137	7.8359	.30325	3.2882	7.7459	3.4558	7.1643

#1	.39128	8.8206	.38483	.49417	.90465	.04954	9.1016
#2	.41335	10.082	.38251	.52340	1.0261	.05249	10.196
#3	.41695	10.185	.38358	.52345	1.0471	.05276	10.432

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	Hf2322	Hf2641
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.04909	.19645	.51020	.49073	3.9872	.98219	.98825
Stddev	.00015	.00013	.01765	.00126	.2999	.00617	.93734
%RSD	.30778	.06813	3.4601	.25676	7.5222	.62824	94.849

#1	.04901	.19630	.49004	.49201	3.6444	.97707	-.03769
#2	.04900	.19656	.51769	.49069	4.1160	.98047	1.2026
#3	.04926	.19649	.52288	.48949	4.2011	.98904	1.7999

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Hf2773	Hf3399	K_7664	Li6707	Mg2790	Mn2576	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F 1.9446	F .38389	50.201	.96803	10.169	.49057	.98158
Stddev	.5182	.80557	3.730	.07970	.781	.03619	.00117
%RSD	26.650	209.85	7.4294	8.2333	7.6800	7.3781	.11882

#1	1.4897	.37991	45.933	.87732	9.3020	.44955	.98032
#2	1.8353	-.41968	51.837	.99995	10.389	.50413	.98263
#3	2.5088	1.1914	52.833	1.0268	10.817	.51802	.98178

Check ?	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	1.0000	1.0000					
Range	10.000%	-10.000%					

Approved: July 27, 2012



Sample Name: CCV Acquired: 7/25/2012 15:38:45 Type: QC
 Method: ICP-THERMO2_6010_200.7(v1999) Mode: CONC Corr. Factor: 1.000000
 User: KHR Custom ID1: Custom ID2: Custom ID3:
 Comment:

Elem	Na5895	Ni2316	P_2149	Pb2203	Rb7800	S_1807	S_1820
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	50.391	.50680	F 19.374	.50235	F 4.9274	10.249	9.3053
Stddev	3.894	.00078	11.411	.00200	11.940	.045	2.8450
%RSD	7.7275	.15334	58.899	.39726	242.31	.43866	30.573

#1	45.938	.50605	20.833	.50143	-8.4784	10.208	6.2840
#2	52.078	.50760	29.984	.50098	8.8436	10.298	9.6991
#3	53.157	.50674	7.3033	.50464	14.417	10.242	11.933

Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Fail	Chk Pass	Chk Pass
Value			10.000		10.000		
Range			10.000%		-10.000%		

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3372	Ti1908
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.2190	.39086	5.3203	1.0095	.99724	.97148	.51741
Stddev	.0101	.00464	.0689	.0030	.08013	.07204	.00351
%RSD	.83166	1.1860	1.2951	.29917	8.0356	7.4150	.67858

#1	1.2141	.39248	5.2412	1.0066	.90573	.89302	.51652
#2	1.2306	.39447	5.3672	1.0127	1.0311	.98680	.52128
#3	1.2122	.38563	5.3526	1.0091	1.0549	1.0346	.51443

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm
Avg	.99552	.99987	F .47524
Stddev	.03454	.00242	.30397
%RSD	3.4698	.24202	63.961

#1	.95577	.99715	.60535
#2	1.0125	1.0018	.69249
#3	1.0183	1.0007	.12787

Check ?	Chk Pass	Chk Pass	Chk Fail
Value			1.0000
Range			-10.000%


Approved: July 27, 2012



Sample Name: CCV Acquired: 7/25/2012 15:38:45 Type: QC
Method: ICP-THERMO2_6010_200.7(v1999) Mode: CONC Corr. Factor: 1.000000
User: KHR Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	24450.	15429.
Stddev	602.	651.
%RSD	2.4641	4.2178
#1	25145.	16180.
#2	24134.	15088.
#3	24071.	15020.

Approved: July 27, 2012



Sample Name: CCB Acquired: 7/25/2012 15:41:50 Type: Blank
 Method: ICP-THERMO2_6010_200.7(v1999) Mode: CONC Corr. Factor: 1.000000
 User: KHR Custom ID1: Custom ID2: Custom ID3:
 Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.00040	.07539	.00027	.00756	.00154	-.00002	-.05094
Stddev	.00086	.09402	.00168	.00046	.00061	.00002	.03075
%RSD	211.60	124.71	627.28	6.0235	39.334	99.510	60.368

#1	-.00083	-.01421	-.00022	.00732	.00160	-.00001	-.01643
#2	-.00097	.06710	.00214	.00808	.00091	-.00003	-.06097
#3	.00058	.17328	-.00111	.00726	.00211	-.00001	-.07543

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	Hf2322	Hf2641
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00014	-.00027	.00006	.00044	-.01309	-.00944	F .66002
Stddev	.00012	.00017	.00037	.00048	.00502	.00766	.30196
%RSD	84.989	60.998	672.50	108.54	38.324	81.157	45.750

#1	.00006	-.00043	-.00031	.00030	-.00839	-.00190	.70981
#2	.00028	-.00028	.00043	.00097	-.01837	-.00920	.93398
#3	.00009	-.00010	.00004	.00005	-.01251	-.01722	.33626

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit							.10000
Low Limit							-.10000

Elem	Hf2773	Hf3399	K_7664	Li6707	Mg2790	Mn2576	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F .98653	F 1.1757	.52627	-.00682	.00418	.00066	.00057
Stddev	.39848	1.0039	.12410	.00165	.03727	.00075	.00036
%RSD	40.392	85.386	23.582	24.167	891.41	114.10	63.988

#1	.87198	.80187	.55847	-.00572	.02392	.00104	.00017
#2	.65787	.41241	.63110	-.00871	.02744	-.00021	.00066
#3	1.4297	2.3130	.38924	-.00602	-.03881	.00114	.00088

Check ?	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	.10000	.10000					
Low Limit	-.10000	-.10000					

Approved: July 27, 2012



Sample Name: CCB Acquired: 7/25/2012 15:41:50 Type: Blank
 Method: ICP-THERMO2_6010_200.7(v1999) Mode: CONC Corr. Factor: 1.000000
 User: KHR Custom ID1: Custom ID2: Custom ID3:
 Comment:

Elem	Na5895	Ni2316	P_2149	Pb2203	Rb7800	S_1807	S_1820
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.15192	-.00073	F 1.1225	-.00113	F 19.066	F -.11615	F 5.3548
Stddev	.08685	.00135	5.9632	.00124	4.958	.07887	1.1543
%RSD	57.166	184.99	531.23	109.70	26.003	67.901	21.557

#1	.24224	.00010	4.8773	-.00132	24.696	-.20718	4.4943
#2	.14452	.00000	-5.7534	-.00227	17.155	-.07301	4.9035
#3	.06901	-.00228	4.2437	.00019	15.349	-.06827	6.6666

Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Fail	Chk Fail	Chk Fail
High Limit			.01000		.01000	.01000	.01000
Low Limit			-.01000		-.01000	-.01000	-.01000

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3372	Tl1908
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00170	-.00146	.00400	-.00047	.00103	.00146	.00218
Stddev	.00322	.00413	.00707	.00024	.00069	.00551	.00212
%RSD	188.98	283.78	176.53	51.007	67.106	377.15	97.440

#1	.00031	-.00621	.00690	-.00049	.00176	.00756	.00322
#2	.00538	.00062	-.00405	-.00070	.00092	-.00003	-.00026
#3	-.00058	.00123	.00916	-.00022	.00040	-.00315	.00357

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm
Avg	-.00012	-.00029	F -.65638
Stddev	.00021	.00012	.75811
%RSD	176.35	42.378	115.50

#1	-.00011	-.00042	-.76732
#2	.00008	-.00024	-1.3529
#3	-.00033	-.00019	.15108

Check ?	Chk Pass	Chk Pass	Chk Fail
High Limit			.10000
Low Limit			-.10000

Approved: July 27, 2012



Sample Name: CCB Acquired: 7/25/2012 15:41:50 Type: Blank
Method: ICP-THERMO2_6010_200.7(v1999) Mode: CONC Corr. Factor: 1.000000
User: KHR Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	24011.	14502.
Stddev	119.	653.
%RSD	.49386	4.5038
#1	23874.	15251.
#2	24074.	14205.
#3	24085.	14051.

Approved: July 27, 2012



Sample Name: L1207064902 Acquired: 7/25/2012 15:45:06 Type: Unk
 Method: ICP-THERMO2_6010_200.7(v1999) Mode: CONC Corr. Factor: 1.000000
 User: KHR Custom ID1: Custom ID2: Custom ID3:
 Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00104	-.01679	.00082	.37915	.06112	.00000	86.647
Stddev	.00087	.07963	.00091	.00074	.00518	.0000	6.120
%RSD	83.964	474.40	111.46	.19548	8.4743	36.328	7.0632

#1	.00026	.01609	.00025	.37904	.05514	.00000	79.634
#2	.00198	-.10759	.00033	.37848	.06399	.00000	89.396
#3	.00087	.04114	.00187	.37995	.06424	.00000	90.909

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	Hf2322	Hf2641
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00055	.00020	.00129	.00048	.00013	1.0180	2.2689
Stddev	.00007	.00013	.00020	.00040	.00985	.0036	.3586
%RSD	11.971	67.337	15.595	82.377	7589.2	.34958	15.804

#1	.00053	.00031	.00130	.00064	-.00524	1.0204	2.1075
#2	.00050	.00005	.00149	.00078	-.00587	1.0139	2.6798
#3	.00062	.00023	.00108	.00003	.01150	1.0197	2.0194

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Hf2773	Hf3399	K_7664	Li6707	Mg2790	Mn2576	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.2644	F -1.0503	2.0519	.04968	31.074	.09515	.00370
Stddev	.2461	1.6946	.1851	.00763	2.325	.00771	.00044
%RSD	19.461	161.33	9.0216	15.357	7.4832	8.1043	11.968

#1	1.0209	-1.0398	1.8542	.04094	28.393	.08640	.00319
#2	1.5129	-2.7501	2.0801	.05310	32.293	.09811	.00393
#3	1.2594	.63893	2.2212	.05500	32.536	.10095	.00398

Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit		45.000					
Low Limit		-.10000					

Approved: July 27, 2012



Sample Name: L1207064902 Acquired: 7/25/2012 15:45:06 Type: Unk
 Method: ICP-THERMO2_6010_200.7(v1999) Mode: CONC Corr. Factor: 1.000000
 User: KHR Custom ID1: Custom ID2: Custom ID3:
 Comment:

Elem	Na5895	Ni2316	P_2149	Pb2203	Rb7800	S_1807	S_1820
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	99.667	.00158	155.09	.00137	F 21.059	F 504.14	F -14602.
Stddev	7.050	.00031	20.61	.00079	3.240	4.28	8.
%RSD	7.0735	19.554	13.291	57.627	15.386	.84906	.05225

#1	91.556	.00123	131.96	.00050	19.520	508.92	-14595.
#2	103.13	.00170	171.53	.00157	24.782	500.66	-14610.
#3	104.32	.00181	161.76	.00203	18.875	502.84	-14602.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Fail	Chk Fail
High Limit					9.0000	9.0000	9.0000
Low Limit					-0.00400	-0.00400	-0.00400

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3372	Tl1908
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.00139	.00185	9.1372	-.00085	1.0808	-.00332	.00101
Stddev	.00122	.00624	.1005	.00010	.0783	.00447	.00131
%RSD	87.627	337.06	1.0999	12.261	7.2475	134.77	129.05

#1	-.00211	-.00450	9.2442	-.00096	.99045	-.00407	-.00050
#2	-.00208	.00208	9.0448	-.00081	1.1228	-.00737	.00175
#3	.00002	.00798	9.1226	-.00076	1.1292	.00148	.00178

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm
Avg	.00356	.00089	F -1.2424
Stddev	.00009	.00008	.6251
%RSD	2.4172	8.8209	50.311

#1	.00348	.00090	-.75258
#2	.00355	.00097	-1.0283
#3	.00365	.00081	-1.9464

Check ?	Chk Pass	Chk Pass	Chk Fail
High Limit			45.000
Low Limit			-0.00400

Approved: July 27, 2012



Sample Name: L1207064902 Acquired: 7/25/2012 15:45:06 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1999) Mode: CONC Corr. Factor: 1.000000
User: KHR Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	24364.	14921.
Stddev	135.	432.
%RSD	.55530	2.8975
#1	24210.	15417.
#2	24463.	14716.
#3	24419.	14629.

Approved: July 27, 2012



Sample Name: L1207064903 Acquired: 7/25/2012 15:48:11 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1999) Mode: CONC Corr. Factor: 1.000000
User: KHR Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00223	.42288	-.00017	.21997	.07246	.00025	81.035
Stddev	.00039	.08130	.00114	.00220	.00543	.00002	6.429
%RSD	17.614	19.226	664.00	.99994	7.4871	8.7441	7.9330

#1	.00208	.33113	.00011	.22249	.06626	.00023	73.696
#2	.00194	.48600	.00080	.21903	.07480	.00026	83.735
#3	.00268	.45150	-.00143	.21840	.07632	.00026	85.672

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	Hf2322	Hf2641
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00048	.00112	.00739	.00050	2.8999	.98666	1.9676
Stddev	.00005	.00010	.00035	.00093	.2372	.00613	.7095
%RSD	9.6379	8.4719	4.7667	184.87	8.1793	.62119	36.061

#1	.00042	.00104	.00780	.00060	2.6286	.98621	2.3064
#2	.00049	.00123	.00719	.00138	3.0035	.99300	2.4443
#3	.00051	.00110	.00719	-.00047	3.0677	.98076	1.1522


Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Hf2773	Hf3399	K_7664	Li6707	Mg2790	Mn2576	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.5629	.14563	1.6585	.03767	27.206	.02960	.00361
Stddev	.9333	1.5863	.1334	.01137	2.400	.00377	.00041
%RSD	59.717	1089.3	8.0459	30.185	8.8207	12.749	11.461

#1	2.0238	1.7034	1.5170	.02768	24.488	.02547	.00399
#2	2.1760	.20121	1.7821	.05004	28.099	.03047	.00317
#3	.48878	-1.4677	1.6763	.03528	29.031	.03287	.00368

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: July 27, 2012



Sample Name: L1207064903 Acquired: 7/25/2012 15:48:11 Type: Unk
 Method: ICP-THERMO2_6010_200.7(v1999) Mode: CONC Corr. Factor: 1.000000
 User: KHR Custom ID1: Custom ID2: Custom ID3:
 Comment:

Elem	Na5895	Ni2316	P_2149	Pb2203	Rb7800	S_1807	S_1820
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	77.552	.00121	191.32	.00081	F 9.7587	F 534.83	F -15895.
Stddev	6.172	.00041	7.53	.00123	12.241	2.82	20.
%RSD	7.9588	33.902	3.9372	152.89	125.44	.52779	.12866

#1	70.501	.00087	195.14	.00017	-4.3696	536.05	-15918.
#2	80.176	.00109	196.18	.00002	16.461	536.83	-15888.
#3	81.979	.00167	182.64	.00223	17.185	531.60	-15879.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Fail	Chk Fail
High Limit					9.0000	9.0000	9.0000
Low Limit					-.00400	-.00400	-.00400

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3372	Tl1908
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.00323	.00305	11.151	-.00071	1.0148	.23303	.00057
Stddev	.00401	.00531	.099	.00013	.0838	.01801	.00370
%RSD	124.15	173.88	.88384	18.551	8.2543	7.7300	646.02

#1	-.00637	-.00204	11.181	-.00079	.91890	.21304	-.00058
#2	-.00459	.00855	11.230	-.00056	1.0520	.23804	.00471
#3	.00128	.00265	11.040	-.00078	1.0736	.24801	-.00241

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm
Avg	.01946	.00797	F -.65523
Stddev	.00032	.00006	.40118
%RSD	1.6529	.72552	61.227

#1	.01951	.00795	-.30166
#2	.01975	.00793	-1.0912
#3	.01911	.00804	-.57281

Check ?	Chk Pass	Chk Pass	Chk Fail
High Limit			45.000
Low Limit			-.00400

Approved: July 27, 2012



Sample Name: L1207064903 Acquired: 7/25/2012 15:48:11 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1999) Mode: CONC Corr. Factor: 1.000000
User: KHR Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	24511.	15223.
Stddev	54.	684.
%RSD	.22121	4.4919
#1	24497.	16012.
#2	24464.	14838.
#3	24570.	14818.

Approved: July 27, 2012



Sample Name: L1207064904 Acquired: 7/25/2012 15:51:16 Type: Unk
 Method: ICP-THERMO2_6010_200.7(v1999) Mode: CONC Corr. Factor: 1.000000
 User: KHR Custom ID1: Custom ID2: Custom ID3:
 Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00109	.05349	-.00121	.21848	.06824	-.00006	78.779
Stddev	.00099	.02118	.00092	.00580	.00704	.00005	6.824
%RSD	91.238	39.597	76.070	2.6540	10.315	88.046	8.6623

#1	.00142	.06620	-.00226	.21211	.06018	.00000	70.951
#2	-.00003	.06524	-.00076	.22344	.07137	-.00009	81.905
#3	.00188	.02904	-.00060	.21990	.07316	-.00008	83.479

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	Hf2322	Hf2641
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00055	.00049	.00226	-.00005	.00866	.96655	2.2480
Stddev	.00013	.00018	.00107	.00060	.00917	.00681	.4413
%RSD	24.062	37.014	47.543	1202.9	105.93	.70423	19.631

#1	.00063	.00030	.00118	.00025	.00474	.96147	1.8627
#2	.00063	.00049	.00227	-.00074	.00209	.96391	2.7295
#3	.00040	.00066	.00332	.00034	.01913	.97429	2.1520

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Hf2773	Hf3399	K_7664	Li6707	Mg2790	Mn2576	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.95819	1.0895	1.6196	.03323	27.003	.00000	.00400
Stddev	.87108	.9282	.1674	.00710	2.350	.0005	.00009
%RSD	90.909	85.196	10.339	21.368	8.7031	209540.	2.1302

#1	1.2576	.64620	1.4360	.02517	24.307	-.00056	.00390
#2	1.6401	.46608	1.6589	.03596	28.086	.00018	.00406
#3	-.02310	2.1563	1.7638	.03855	28.617	.00038	.00404

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: July 27, 2012



Sample Name: L1207064904 Acquired: 7/25/2012 15:51:16 Type: Unk
 Method: ICP-THERMO2_6010_200.7(v1999) Mode: CONC Corr. Factor: 1.000000
 User: KHR Custom ID1: Custom ID2: Custom ID3:
 Comment:

Elem	Na5895	Ni2316	P_2149	Pb2203	Rb7800	S_1807	S_1820
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	77.162	-0.0038	127.72	.00281	F -0.49131	F 512.83	F -15202.
Stddev	6.520	.00141	4.66	.00160	9.3491	1.57	68.
%RSD	8.4500	374.66	3.6504	57.039	1902.9	.30669	.44868

#1	69.670	.00115	123.74	.00378	-11.276	512.00	-15275.
#2	80.267	-.00064	126.56	.00096	4.4881	514.64	-15190.
#3	81.550	-.00164	132.85	.00369	5.3141	511.84	-15140.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Fail	Chk Fail
High Limit					9.0000	9.0000	9.0000
Low Limit					-0.0400	-0.0400	-0.0400

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3372	Tl1908
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-0.00076	.00513	10.358	-0.00131	1.0053	-0.00037	.00086
Stddev	.00245	.00060	.079	.00019	.0875	.00314	.00092
%RSD	320.39	11.732	.76287	14.139	8.7048	841.82	106.90

#1	.00123	.00535	10.282	-.00152	.90458	-.00236	.00187
#2	-.00349	.00445	10.440	-.00122	1.0485	-.00201	.00064
#3	-.00003	.00560	10.354	-.00118	1.0628	.00325	.00007

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm
Avg	.00293	.00127	F -0.98612
Stddev	.00064	.00014	1.2420
%RSD	21.928	10.813	125.95

#1	.00221	.00143	.25708
#2	.00344	.00120	-2.2270
#3	.00315	.00118	-98846

Check ?	Chk Pass	Chk Pass	Chk Fail
High Limit			45.000
Low Limit			-0.0400

Approved: July 27, 2012



Sample Name: L1207064904 Acquired: 7/25/2012 15:51:16 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1999) Mode: CONC Corr. Factor: 1.000000
User: KHR Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	24056.	15322.
Stddev	690.	692.
%RSD	2.8672	4.5189
#1	24852.	16121.
#2	23625.	14909.
#3	23692.	14935.

Approved: July 27, 2012



Sample Name: L1207064906 Acquired: 7/25/2012 15:54:21 Type: Unk
 Method: ICP-THERMO2_6010_200.7(v1999) Mode: CONC Corr. Factor: 1.000000
 User: KHR Custom ID1: Custom ID2: Custom ID3:
 Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00035	3.1386	.00048	.42069	.08757	.00015	83.757
Stddev	.00158	.3421	.00267	.00557	.00755	.00003	6.534
%RSD	456.66	10.900	560.82	1.3249	8.6189	22.500	7.8012

#1	.00128	2.7442	-.00220	.41945	.07889	.00015	76.298
#2	-.00147	3.3166	.00049	.41584	.09122	.00012	86.508
#3	.00123	3.3550	.00314	.42678	.09260	.00019	88.467

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	Hf2322	Hf2641
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00059	.00195	.00834	.00414	3.5115	1.2169	3.0756
Stddev	.00024	.00026	.00039	.00049	.2853	.0037	.4798
%RSD	39.516	13.613	4.6915	11.840	8.1239	.30684	15.599

#1	.00033	.00204	.00853	.00462	3.1864	1.2196	3.2110
#2	.00077	.00165	.00789	.00417	3.6282	1.2127	3.4732
#3	.00069	.00215	.00860	.00364	3.7200	1.2185	2.5427

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Hf2773	Hf3399	K_7664	Li6707	Mg2790	Mn2576	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.4723	F -.82422	2.3216	.06332	36.531	.06801	.00155
Stddev	.6178	1.5517	.1694	.00482	3.148	.00624	.00050
%RSD	41.960	188.27	7.2978	7.6123	8.6182	9.1805	32.351

#1	.76182	-1.3522	2.1325	.05816	32.963	.06113	.00202
#2	1.8829	.92258	2.3728	.06409	37.715	.06958	.00161
#3	1.7721	-2.0431	2.4596	.06770	38.917	.07332	.00102

Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit		45.000					
Low Limit		-.10000					

Approved: July 27, 2012



Sample Name: L1207064906 Acquired: 7/25/2012 15:54:21 Type: Unk
 Method: ICP-THERMO2_6010_200.7(v1999) Mode: CONC Corr. Factor: 1.000000
 User: KHR Custom ID1: Custom ID2: Custom ID3:
 Comment:

Elem	Na5895	Ni2316	P_2149	Pb2203	Rb7800	S_1807	S_1820
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	80.958	.00640	363.51	.00351	F 20.813	F 633.97	F -19323.
Stddev	6.550	.00036	20.06	.00293	9.129	2.55	47.
%RSD	8.0900	5.6323	5.5180	83.469	43.860	.40173	.24068

#1	73.485	.00651	385.52	.00520	13.392	632.55	-19301.
#2	83.693	.00600	358.77	.00013	18.041	632.46	-19292.
#3	85.698	.00670	346.25	.00520	31.007	636.92	-19377.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Fail	Chk Fail
High Limit					9.0000	9.0000	9.0000
Low Limit					-0.00400	-0.00400	-0.00400

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3372	Tl1908
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.00178	.01520	20.013	-.00100	1.2537	.09326	.00055
Stddev	.00022	.00160	.074	.00043	.1047	.00620	.00205
%RSD	12.482	10.543	.36940	42.704	8.3491	6.6516	375.80

#1	-.00152	.01378	20.003	-.00103	1.1344	.08637	-.00182
#2	-.00193	.01694	19.945	-.00056	1.2965	.09839	.00165
#3	-.00188	.01489	20.092	-.00141	1.3301	.09503	.00182

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm
Avg	.01349	.02341	1.3045
Stddev	.00006	.00008	.6737
%RSD	.44778	.34262	51.648

#1	.01346	.02339	1.8312
#2	.01356	.02333	1.5369
#3	.01346	.02349	.54528

Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Approved: July 27, 2012



Sample Name: L1207064906 Acquired: 7/25/2012 15:54:21 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1999) Mode: CONC Corr. Factor: 1.000000
User: KHR Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	24076.	14693.
Stddev	54.	465.
%RSD	.22465	3.1667
#1	24116.	15231.
#2	24099.	14422.
#3	24015.	14428.

Approved: July 27, 2012



Sample Name: L1207064907 Acquired: 7/25/2012 15:57:28 Type: Unk
 Method: ICP-THERMO2_6010_200.7(v1999) Mode: CONC Corr. Factor: 1.000000
 User: KHR Custom ID1: Custom ID2: Custom ID3:
 Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.00024	.00839	-.00003	.42696	.06191	.00002	83.509
Stddev	.00078	.05212	.00172	.00277	.00520	.00006	5.587
%RSD	332.64	621.20	5008.7	.64801	8.3985	271.51	6.6898

#1	.00053	.05988	-.00035	.42469	.05610	-.00005	77.196
#2	-.00020	.00962	-.00157	.42615	.06353	.00006	85.514
#3	-.00103	-.04433	.00182	.43005	.06611	.00005	87.815

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	Hf2322	Hf2641
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00052	.00021	.00152	.00053	.00022	1.1888	2.9389
Stddev	.00001	.00036	.00029	.00059	.00788	.0033	.4540
%RSD	2.8184	170.29	19.368	111.55	3572.3	.28040	15.447

#1	.00050	.00055	.00122	.00020	.00710	1.1852	2.4514
#2	.00053	-.00016	.00154	.00018	-.00838	1.1897	3.0158
#3	.00053	.00024	.00180	.00122	.00194	1.1917	3.3495

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Hf2773	Hf3399	K_7664	Li6707	Mg2790	Mn2576	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.60618	F -1.5105	1.7198	.06133	35.985	.01205	.00170
Stddev	1.4146	2.2913	.1333	.00730	2.829	.00134	.00037
%RSD	233.37	151.69	7.7500	11.903	7.8623	11.084	21.805

#1	1.1528	-.65619	1.5712	.05611	32.806	.01079	.00135
#2	1.6660	-4.1063	1.8288	.05821	36.923	.01192	.00167
#3	-1.0002	.23096	1.7594	.06967	38.226	.01345	.00209

Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit		45.000					
Low Limit		-.10000					

Approved: July 27, 2012



Sample Name: L1207064907 Acquired: 7/25/2012 15:57:28 Type: Unk
 Method: ICP-THERMO2_6010_200.7(v1999) Mode: CONC Corr. Factor: 1.000000
 User: KHR Custom ID1: Custom ID2: Custom ID3:
 Comment:

Elem	Na5895	Ni2316	P_2149	Pb2203	Rb7800	S_1807	S_1820
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	82.507	-0.0044	165.14	.00064	F 18.824	F 649.65	F -19543.
Stddev	6.034	.00070	7.52	.00215	8.173	2.49	4.
%RSD	7.3137	160.93	4.5562	335.07	43.416	.38296	.02242

#1	75.671	-0.0050	158.39	-0.0023	9.8366	646.95	-19538.
#2	84.755	.00030	173.25	.00309	20.826	651.85	-19545.
#3	87.094	-0.0111	163.78	-0.0093	25.810	650.16	-19546.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Fail	Chk Fail
High Limit					9.0000	9.0000	9.0000
Low Limit					-0.0400	-0.0400	-0.0400

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3372	Tl1908
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-0.0126	.01391	10.982	-0.0142	1.2640	-0.0222	.00289
Stddev	.00155	.00130	.075	.00034	.0953	.00042	.00271
%RSD	123.27	9.3680	.68023	24.195	7.5416	18.986	93.651

#1	-0.0134	.01362	10.913	-0.0136	1.1562	-0.0268	.00433
#2	.00033	.01534	11.061	-0.0111	1.2988	-0.0212	-0.0023
#3	-0.0277	.01278	10.972	-0.0179	1.3371	-0.0185	.00457

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm
Avg	.00483	.00147	F -1.2331
Stddev	.00056	.00011	.2000
%RSD	11.678	7.2902	16.221

#1	.00485	.00159	-1.0036
#2	.00538	.00143	-1.3704
#3	.00425	.00138	-1.3254

Check ?	Chk Pass	Chk Pass	Chk Fail
High Limit			45.000
Low Limit			-0.0400

Approved: July 27, 2012



Sample Name: L1207064907 Acquired: 7/25/2012 15:57:28 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1999) Mode: CONC Corr. Factor: 1.000000
User: KHR Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	23911.	14756.
Stddev	88.	433.
%RSD	.36745	2.9323
#1	23975.	15255.
#2	23811.	14481.
#3	23948.	14532.

Approved: July 27, 2012



Sample Name: L1207064908 Acquired: 7/25/2012 16:00:34 Type: Unk
 Method: ICP-THERMO2_6010_200.7(v1999) Mode: CONC Corr. Factor: 1.000000
 User: KHR Custom ID1: Custom ID2: Custom ID3:
 Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00015	.47658	-.00113	.36480	.10744	.00003	73.353
Stddev	.00067	.04396	.00113	.00567	.01024	.00003	6.493
%RSD	439.48	9.2246	100.02	1.5547	9.5354	91.516	8.8516

#1	.00090	.43929	-.00195	.37114	.09572	.00000	65.911
#2	-.00007	.46539	-.00159	.36305	.11189	.00003	76.288
#3	-.00038	.52505	.00016	.36022	.11471	.00005	77.860

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	Hf2322	Hf2641
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00070	.00032	.00138	.00019	.49465	1.0862	2.2379
Stddev	.00002	.00041	.00122	.00103	.04401	.0052	.6951
%RSD	3.0041	126.22	88.506	527.67	8.8978	.47994	31.060

#1	.00073	-.00015	.00235	.00007	.44402	1.0913	1.8656
#2	.00069	.00060	.00001	.00128	.51610	1.0809	1.8083
#3	.00069	.00051	.00178	-.00076	.52383	1.0864	3.0399

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Hf2773	Hf3399	K_7664	Li6707	Mg2790	Mn2576	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.30642	F -1.3754	1.5644	.05479	31.946	.09223	.00265
Stddev	.87331	1.4972	.1863	.00552	3.031	.00974	.00008
%RSD	285.00	108.86	11.906	10.073	9.4888	10.558	3.0867

#1	1.3136	-2.0033	1.3561	.05026	28.546	.08104	.00256
#2	-.23967	.33353	1.6222	.05317	32.927	.09687	.00273
#3	-.15471	-2.4564	1.7149	.06093	34.365	.09879	.00266

Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit		45.000					
Low Limit		-.10000					

Approved: July 27, 2012



Sample Name: L1207064908 Acquired: 7/25/2012 16:00:34 Type: Unk
 Method: ICP-THERMO2_6010_200.7(v1999) Mode: CONC Corr. Factor: 1.000000
 User: KHR Custom ID1: Custom ID2: Custom ID3:
 Comment:

Elem	Na5895	Ni2316	P_2149	Pb2203	Rb7800	S_1807	S_1820
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	93.066	.00058	230.65	.00017	F 12.636	F 512.42	F -15431.
Stddev	8.273	.00157	17.97	.00147	20.232	4.99	19.
%RSD	8.8895	268.37	7.7921	857.07	160.11	.97320	.12176

#1	83.650	-.00088	244.38	-.00103	-8.6116	517.47	-15440.
#2	96.376	.00039	237.27	-.00026	14.849	512.28	-15443.
#3	99.171	.00223	210.31	.00181	31.670	507.50	-15409.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Fail	Chk Fail
High Limit					9.0000	9.0000	9.0000
Low Limit					-.00400	-.00400	-.00400

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3372	Tl1908
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00295	.00291	13.239	-.00101	1.1236	.01494	.00025
Stddev	.00139	.00204	.168	.00039	.1012	.00227	.00081
%RSD	47.282	70.119	1.2698	38.618	9.0092	15.192	318.97

#1	.00240	.00284	13.404	-.00061	1.0095	.01275	.00013
#2	.00190	.00090	13.244	-.00140	1.1586	.01728	.00111
#3	.00453	.00498	13.068	-.00103	1.2026	.01480	-.00049

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm
Avg	.00477	.00248	F -.44154
Stddev	.00015	.00013	.48133
%RSD	3.1194	5.1068	109.01

#1	.00494	.00234	-.63211
#2	.00473	.00257	.10590
#3	.00465	.00255	-.79841

Check ?	Chk Pass	Chk Pass	Chk Fail
High Limit			45.000
Low Limit			-.00400

Approved: July 27, 2012



Sample Name: L1207064908 Acquired: 7/25/2012 16:00:34 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1999) Mode: CONC Corr. Factor: 1.000000
User: KHR Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	23945.	14845.
Stddev	281.	815.
%RSD	1.1720	5.4892
#1	23642.	15781.
#2	23995.	14459.
#3	24197.	14295.

Approved: July 27, 2012



Sample Name: L1207064909 Acquired: 7/25/2012 16:03:38 Type: Unk
 Method: ICP-THERMO2_6010_200.7(v1999) Mode: CONC Corr. Factor: 1.000000
 User: KHR Custom ID1: Custom ID2: Custom ID3:
 Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00037	.02961	.00148	.37589	.10402	-.00002	74.066
Stddev	.00063	.08292	.00100	.00189	.00871	.00001	5.794
%RSD	170.14	280.06	67.276	.50384	8.3738	61.370	7.8229

#1	-.00027	-.05724	.00233	.37370	.09409	-.00002	67.454
#2	.00039	.10794	.00038	.37705	.10759	-.00003	76.490
#3	.00098	.03812	.00172	.37691	.11037	-.00001	78.256

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	Hf2322	Hf2641
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00053	.00021	.00051	-.00078	.02003	1.0823	3.4848
Stddev	.00004	.00018	.00055	.00035	.00890	.0038	.8822
%RSD	6.9325	87.102	107.86	45.277	44.439	.34762	25.316

#1	.00050	.00038	.00103	-.00095	.02547	1.0861	3.8746
#2	.00051	.00023	.00055	-.00037	.02485	1.0821	4.1049
#3	.00057	.00002	-.00006	-.00101	.00976	1.0786	2.4748

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Hf2773	Hf3399	K_7664	Li6707	Mg2790	Mn2576	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.6463	F -.27595	1.5461	.04726	32.306	.09165	.00323
Stddev	.6567	.46222	.1277	.00460	2.584	.00687	.00028
%RSD	39.890	167.50	8.2573	9.7294	7.9984	7.4930	8.5317

#1	1.9195	-.18186	1.3996	.04220	29.347	.08383	.00292
#2	.89709	.13198	1.6050	.04842	33.453	.09445	.00334
#3	2.1223	-.77798	1.6336	.05118	34.118	.09668	.00343

Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit		45.000					
Low Limit		-.10000					

Approved: July 27, 2012



Sample Name: L1207064909 Acquired: 7/25/2012 16:03:38 Type: Unk
 Method: ICP-THERMO2_6010_200.7(v1999) Mode: CONC Corr. Factor: 1.000000
 User: KHR Custom ID1: Custom ID2: Custom ID3:
 Comment:

Elem	Na5895	Ni2316	P_2149	Pb2203	Rb7800	S_1807	S_1820
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	94.856	-0.0075	210.33	.00071	F 14.298	F 518.85	F -15599.
Stddev	7.650	.00002	5.42	.00161	7.896	.86	18.
%RSD	8.0648	2.6202	2.5767	228.49	55.224	.16588	.11854

#1	86.121	-0.0077	216.14	.00251	10.086	517.95	-15611.
#2	98.087	-0.0076	205.41	-0.0060	23.408	519.67	-15608.
#3	100.36	-0.0073	209.44	.00021	9.4020	518.94	-15577.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Fail	Chk Fail
High Limit					9.0000	9.0000	9.0000
Low Limit					-0.0400	-0.0400	-0.0400

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3372	Tl1908
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00117	.00607	12.378	-.00116	1.1346	-.00151	.00078
Stddev	.00514	.00385	.064	.00033	.0920	.00374	.00323
%RSD	441.13	63.432	.51780	28.708	8.1038	247.55	413.58

#1	.00401	.00691	12.304	-.00143	1.0299	-.00229	-.00036
#2	-.00477	.00942	12.418	-.00126	1.1721	.00256	-.00172
#3	.00425	.00187	12.413	-.00079	1.2020	-.00480	.00443

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm
Avg	.00323	.00214	F -1.1850
Stddev	.00068	.00008	.5002
%RSD	20.920	3.6177	42.214

#1	.00371	.00222	-.61221
#2	.00246	.00206	-1.4070
#3	.00353	.00213	-1.5359

Check ?	Chk Pass	Chk Pass	Chk Fail
High Limit			45.000
Low Limit			-0.0400

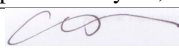
Approved: July 27, 2012



Sample Name: L1207064909 Acquired: 7/25/2012 16:03:38 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1999) Mode: CONC Corr. Factor: 1.000000
User: KHR Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	23977.	15051.
Stddev	73.	527.
%RSD	.30305	3.4988
#1	24060.	15659.
#2	23943.	14760.
#3	23927.	14734.

Approved: July 27, 2012



Sample Name: L1207064910 Acquired: 7/25/2012 16:06:43 Type: Unk
 Method: ICP-THERMO2_6010_200.7(v1999) Mode: CONC Corr. Factor: 1.000000
 User: KHR Custom ID1: Custom ID2: Custom ID3:
 Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00153	.55984	.00011	.36404	.10577	.00003	71.446
Stddev	.00047	.04968	.00235	.00912	.00827	.00005	5.530
%RSD	30.671	8.8742	2133.7	2.5043	7.8170	165.25	7.7397

#1	.00148	.51524	.00119	.36681	.09645	.00007	65.123
#2	.00109	.61339	-.00259	.37144	.10864	.00006	73.835
#3	.00202	.55089	.00173	.35386	.11222	-.00003	75.380

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	Hf2322	Hf2641
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00066	.00042	.00123	.00040	.53822	1.0440	1.7455
Stddev	.00009	.00031	.00102	.00026	.04088	.0004	.8328
%RSD	13.578	74.871	83.198	64.591	7.5950	.03999	47.712

#1	.00060	.00019	.00147	.00065	.49208	1.0439	1.0095
#2	.00061	.00029	.00211	.00041	.55264	1.0445	1.5776
#3	.00076	.00077	.00011	.00014	.56993	1.0436	2.6495

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Hf2773	Hf3399	K_7664	Li6707	Mg2790	Mn2576	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.81134	F -.32930	1.6748	.04791	31.095	.09234	.00279
Stddev	.46564	.57249	.0388	.00702	2.550	.00836	.00026
%RSD	57.392	173.85	2.3191	14.644	8.1996	9.0496	9.1902

#1	1.2781	-.72416	1.6299	.04231	28.205	.08312	.00249
#2	.80907	-.59101	1.6967	.04563	32.051	.09447	.00292
#3	.34684	.32727	1.6978	.05578	33.028	.09942	.00295

Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit		45.000					
Low Limit		-.10000					

Approved: July 27, 2012



Sample Name: L1207064910 Acquired: 7/25/2012 16:06:43 Type: Unk
 Method: ICP-THERMO2_6010_200.7(v1999) Mode: CONC Corr. Factor: 1.000000
 User: KHR Custom ID1: Custom ID2: Custom ID3:
 Comment:

Elem	Na5895	Ni2316	P_2149	Pb2203	Rb7800	S_1807	S_1820
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	90.849	-0.0003	216.03	.00138	F 29.978	F 501.02	F -14923.
Stddev	7.170	.00062	12.41	.00111	13.875	.68	17.
%RSD	7.8928	2350.1	5.7435	80.377	46.284	.13496	.11318

#1	82.662	-0.00065	208.26	.00079	13.960	501.14	-14911.
#2	93.872	.00000	230.34	.00069	37.702	500.29	-14915.
#3	96.013	.00058	209.50	.00266	38.273	501.63	-14942.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Fail	Chk Fail
High Limit					9.0000	9.0000	9.0000
Low Limit					-0.0400	-0.0400	-0.0400

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3372	Tl1908
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-0.0048	.00582	13.088	-0.0083	1.0971	.01332	.00119
Stddev	.00057	.00032	.029	.00035	.0853	.00281	.00088
%RSD	119.59	5.4883	.22454	42.067	7.7801	21.114	74.055

#1	-0.0010	.00547	13.116	-0.0121	.99959	.01618	.00141
#2	-0.0020	.00591	13.057	-0.0078	1.1331	.01056	.00022
#3	-0.0114	.00609	13.090	-0.0051	1.1584	.01324	.00195

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm
Avg	.00494	.00284	F -.89467
Stddev	.00124	.00012	.07815
%RSD	25.172	4.2447	8.7347

#1	.00571	.00272	-.84390
#2	.00560	.00296	-.85546
#3	.00350	.00283	-.98466

Check ?	Chk Pass	Chk Pass	Chk Fail
High Limit			45.000
Low Limit			-0.0400

Approved: July 27, 2012



Sample Name: L1207064910 Acquired: 7/25/2012 16:06:43 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1999) Mode: CONC Corr. Factor: 1.000000
User: KHR Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	23943.	14568.
Stddev	126.	559.
%RSD	.52632	3.8404
#1	24040.	15209.
#2	23988.	14178.
#3	23800.	14317.

Approved: July 27, 2012



Sample Name: L1207064911 Acquired: 7/25/2012 16:09:47 Type: Unk
 Method: ICP-THERMO2_6010_200.7(v1999) Mode: CONC Corr. Factor: 1.000000
 User: KHR Custom ID1: Custom ID2: Custom ID3:
 Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00003	.03326	.00113	.35696	.10065	-.00002	71.290
Stddev	.00041	.04474	.00248	.00444	.00887	.00002	5.880
%RSD	1186.0	134.50	219.07	1.2434	8.8159	78.178	8.2478

#1	-.00016	.00944	-.00002	.35503	.09076	-.00001	64.601
#2	-.00024	.08487	-.00056	.36204	.10326	-.00004	73.623
#3	.00051	.00547	.00397	.35381	.10791	-.00001	75.645

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	Hf2322	Hf2641
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00063	.00029	.00033	-.00022	.01181	1.0415	2.4086
Stddev	.00014	.00001	.00080	.00024	.00821	.0004	.6686
%RSD	21.764	3.4953	244.62	107.79	69.569	.03898	27.757

#1	.00076	.00028	.00125	-.00004	.02123	1.0413	1.7167
#2	.00062	.00030	-.00002	-.00014	.00804	1.0412	3.0511
#3	.00049	.00029	-.00024	-.00049	.00615	1.0420	2.4580

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Hf2773	Hf3399	K_7664	Li6707	Mg2790	Mn2576	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.50744	.64739	1.5719	.05350	31.301	.08334	.00291
Stddev	.46627	1.8071	.0905	.00816	2.739	.00810	.00004
%RSD	91.886	279.14	5.7577	15.249	8.7495	9.7174	1.2270

#1	.72943	.80616	1.4690	.04542	28.201	.07408	.00292
#2	-.02834	2.3699	1.6073	.05336	32.308	.08689	.00287
#3	.82124	-1.2339	1.6393	.06173	33.393	.08907	.00293

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: July 27, 2012



Sample Name: L1207064911 Acquired: 7/25/2012 16:09:47 Type: Unk
 Method: ICP-THERMO2_6010_200.7(v1999) Mode: CONC Corr. Factor: 1.000000
 User: KHR Custom ID1: Custom ID2: Custom ID3:
 Comment:

Elem	Na5895	Ni2316	P_2149	Pb2203	Rb7800	S_1807	S_1820
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	91.616	-0.0081	186.20	.00062	F 22.988	F 505.12	F -14965.
Stddev	7.505	.00108	8.71	.00199	7.229	1.56	18.
%RSD	8.1913	132.77	4.6759	320.83	31.447	.30899	.12316

#1	83.117	-0.0194	190.63	.00289	15.153	506.36	-14985.
#2	94.404	-0.0071	176.17	-0.0083	29.399	505.63	-14949.
#3	97.329	.00021	191.80	-0.0020	24.414	503.37	-14961.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Fail	Chk Fail
High Limit					9.0000	9.0000	9.0000
Low Limit					-0.0400	-0.0400	-0.0400

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3372	Tl1908
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-0.0029	.00271	11.941	-0.0114	1.1079	.00178	.00136
Stddev	.00171	.00292	.043	.00056	.0920	.00560	.00084
%RSD	587.75	107.71	.36380	48.835	8.3038	314.56	61.479

#1	.00167	.00007	11.963	-0.0146	1.0036	.00816	.00046
#2	-0.0148	.00221	11.969	-0.0050	1.1422	-0.00237	.00152
#3	-0.0106	.00585	11.891	-0.0147	1.1778	-0.00044	.00211

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm
Avg	.00285	.00181	F -.85969
Stddev	.00034	.00005	.04933
%RSD	11.940	2.6358	5.7376

#1	.00255	.00176	-0.87959
#2	.00279	.00186	-0.89596
#3	.00322	.00181	-0.80352

Check ?	Chk Pass	Chk Pass	Chk Fail
High Limit			45.000
Low Limit			-0.0400

Approved: July 27, 2012



Sample Name: L1207064911 Acquired: 7/25/2012 16:09:47 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1999) Mode: CONC Corr. Factor: 1.000000
User: KHR Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	24086.	14645.
Stddev	161.	600.
%RSD	.66814	4.0969
#1	23997.	15319.
#2	23988.	14448.
#3	24271.	14168.

Approved: July 27, 2012



Sample Name: L1207065801 Acquired: 7/25/2012 16:12:54 Type: Unk
 Method: ICP-THERMO2_6010_200.7(v1999) Mode: CONC Corr. Factor: 1.000000
 User: KHR Custom ID1: Custom ID2: Custom ID3:
 Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.00040	.21238	.00197	.06482	.08367	-.00001	14.173
Stddev	.00076	.04563	.00140	.00079	.00586	.00003	.896
%RSD	191.55	21.485	70.900	1.2245	7.0054	263.73	6.3219

#1	-.00127	.16611	.00171	.06571	.07694	-.00001	13.159
#2	.00011	.21368	.00349	.06418	.08638	-.00004	14.503
#3	-.00003	.25734	.00072	.06458	.08769	.00002	14.857

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	Hf2322	Hf2641
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00065	.00078	.00849	.00155	.26992	.88063	.15012
Stddev	.00012	.00037	.00027	.00068	.02390	.00398	.73073
%RSD	17.970	47.273	3.1863	43.633	8.8536	.45208	486.77

#1	.00065	.00078	.00866	.00196	.24239	.87947	.40898
#2	.00077	.00115	.00818	.00077	.28198	.87736	-.67481
#3	.00054	.00041	.00864	.00192	.28538	.88506	.71618

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Hf2773	Hf3399	K_7664	Li6707	Mg2790	Mn2576	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.83176	F -.85147	24.588	.10708	7.0977	.02074	.00423
Stddev	.47305	.56435	1.914	.00952	.4430	.00194	.00025
%RSD	56.873	66.280	7.7845	8.8903	6.2408	9.3335	5.9986

#1	1.0910	-1.1498	22.403	.09682	6.5870	.01850	.00426
#2	1.1186	-2.0056	25.392	.10879	7.3278	.02195	.00397
#3	.28576	-1.2041	25.968	.11562	7.3782	.02175	.00447

Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit		45.000					
Low Limit		-.10000					

Approved: July 27, 2012



Sample Name: L1207065801 Acquired: 7/25/2012 16:12:54 Type: Unk
 Method: ICP-THERMO2_6010_200.7(v1999) Mode: CONC Corr. Factor: 1.000000
 User: KHR Custom ID1: Custom ID2: Custom ID3:
 Comment:

Elem	Na5895	Ni2316	P_2149	Pb2203	Rb7800	S_1807	S_1820
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	95.983	.00086	394.77	.00127	F 13.288	F 424.94	F -14408.
Stddev	6.786	.00083	16.34	.00127	8.099	1.35	37.
%RSD	7.0697	95.813	4.1401	100.52	60.949	.31797	.25357

#1	88.271	-0.0009	377.34	.00133	6.2043	425.48	-14402.
#2	98.640	.00137	409.76	-0.0004	22.117	423.40	-14375.
#3	101.04	.00131	397.20	.00251	11.542	425.93	-14447.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Fail	Chk Fail
High Limit					9.0000	9.0000	9.0000
Low Limit					-0.0400	-0.0400	-0.0400

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3372	Tl1908
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-0.00056	-0.00432	17.409	-0.00107	.92994	.00177	.00181
Stddev	.00175	.00185	.033	.00025	.06619	.00328	.00428
%RSD	311.54	42.733	.19108	23.054	7.1175	185.74	236.95

#1	-0.00256	-0.00356	17.448	-0.00134	.85493	-0.00166	.00442
#2	.00069	-0.00643	17.391	-0.00102	.95475	.00487	-0.00313
#3	.00018	-0.00298	17.390	-0.00086	.98013	.00208	.00413

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm
Avg	.01073	.00528	F -1.0550
Stddev	.00114	.00012	.1631
%RSD	10.588	2.2612	15.464

#1	.01198	.00526	-0.86665
#2	.00976	.00518	-1.1464
#3	.01045	.00541	-1.1519

Check ?	Chk Pass	Chk Pass	Chk Fail
High Limit			45.000
Low Limit			-0.0400

Approved: July 27, 2012



Sample Name: L1207065801 Acquired: 7/25/2012 16:12:54 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1999) Mode: CONC Corr. Factor: 1.000000
User: KHR Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	24532.	15181.
Stddev	21.	486.
%RSD	.08518	3.2025
#1	24508.	15742.
#2	24547.	14919.
#3	24541.	14883.

Approved: July 27, 2012



Sample Name: CCV Acquired: 7/25/2012 16:16:05 Type: QC
 Method: ICP-THERMO2_6010_200.7(v1999) Mode: CONC Corr. Factor: 1.000000
 User: KHR Custom ID1: Custom ID2: Custom ID3:
 Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.39432	9.7516	.38409	.49538	.99442	.05012	9.8669
Stddev	.00053	.7613	.00041	.00218	.07906	.00003	.7832
%RSD	.13381	7.8072	.10635	.44103	7.9507	.06851	7.9379

#1	.39371	8.8784	.38385	.49639	.90462	.05009	8.9750
#2	.39458	10.100	.38456	.49288	1.0251	.05015	10.183
#3	.39466	10.277	.38385	.49689	1.0536	.05013	10.442

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	Hf2322	Hf2641
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.04913	.19619	.49204	.49102	4.0020	.97883	F .64392
Stddev	.00016	.00017	.00262	.00067	.3253	.00517	.51389
%RSD	.32788	.08906	.53173	.13633	8.1289	.52774	79.807

#1	.04911	.19639	.49464	.49093	3.6307	.97289	.58079
#2	.04930	.19606	.48941	.49040	4.1386	.98138	.16451
#3	.04898	.19612	.49208	.49173	4.2368	.98223	1.1865

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
Value							1.0000
Range							-10.000%

Elem	Hf2773	Hf3399	K_7664	Li6707	Mg2790	Mn2576	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F 1.1479	F .18842	50.588	.96717	10.195	.48679	.98288
Stddev	.3505	.70164	4.051	.08379	.868	.04102	.00095
%RSD	30.534	372.37	8.0088	8.6630	8.5154	8.4258	.09621

#1	1.1100	.00444	45.981	.87158	9.2003	.44015	.98393
#2	1.5158	-.40289	52.190	1.0020	10.583	.50303	.98260
#3	.81789	.96373	53.595	1.0279	10.801	.51721	.98210

Check ?	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	1.0000	1.0000					
Range	10.000%	-10.000%					

Approved: July 27, 2012



Sample Name: CCV Acquired: 7/25/2012 16:16:05 Type: QC
 Method: ICP-THERMO2_6010_200.7(v1999) Mode: CONC Corr. Factor: 1.000000
 User: KHR Custom ID1: Custom ID2: Custom ID3:
 Comment:

Elem	Na5895	Ni2316	P_2149	Pb2203	Rb7800	S_1807	S_1820
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	50.774	.50934	F 22.454	.50549	F 19.622	10.260	F 8.7310
Stddev	3.843	.00132	7.944	.00242	7.353	.080	.2488
%RSD	7.5691	.25955	35.380	.47841	37.475	.78170	2.8502

#1	46.413	.50878	21.008	.50273	11.807	10.331	8.9299
#2	52.242	.51085	15.331	.50655	26.405	10.276	8.4520
#3	53.666	.50839	31.021	.50720	20.653	10.173	8.8112

Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Fail	Chk Pass	Chk Fail
Value			10.000		10.000		10.000
Range			10.000%		10.000%		-10.000%

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3372	Tl1908
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.2292	.38874	5.4092	1.0091	1.0014	.97166	.51600
Stddev	.0027	.00407	.0480	.0022	.0759	.08203	.00022
%RSD	.22078	1.0480	.88808	.22052	7.5791	8.4421	.04255

#1	1.2297	.38591	5.3699	1.0065	.91571	.87748	.51621
#2	1.2317	.39341	5.3950	1.0107	1.0283	1.0100	.51603
#3	1.2263	.38691	5.4627	1.0101	1.0602	1.0275	.51577


Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm
Avg	.95869	.99993	F .50643
Stddev	.00319	.00107	.19498
%RSD	.33238	.10726	38.502

#1	.96216	.99871	.69867
#2	.95589	1.0004	.51179
#3	.95803	1.0007	.30881

Check ?	Chk Pass	Chk Pass	Chk Fail
Value			1.0000
Range			-10.000%

Approved: July 27, 2012



Sample Name: CCV Acquired: 7/25/2012 16:16:05 Type: QC
Method: ICP-THERMO2_6010_200.7(v1999) Mode: CONC Corr. Factor: 1.000000
User: KHR Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	24585.	15081.
Stddev	53.	601.
%RSD	.21588	3.9841
#1	24535.	15773.
#2	24579.	14788.
#3	24641.	14684.

Approved: July 27, 2012



Sample Name: CCB Acquired: 7/25/2012 16:19:10 Type: Blank
 Method: ICP-THERMO2_6010_200.7(v1999) Mode: CONC Corr. Factor: 1.000000
 User: KHR Custom ID1: Custom ID2: Custom ID3:
 Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.00031	.04534	-.00109	.00678	.00070	-.00002	-.03684
Stddev	.00100	.03498	.00043	.00224	.00137	.00003	.02859
%RSD	320.34	77.161	39.923	33.005	195.77	123.35	77.611

#1	.00083	.00496	-.00061	.00918	.00216	-.00005	-.01742
#2	-.00078	.06441	-.00120	.00475	.00047	.00001	-.06967
#3	-.00099	.06664	-.00146	.00641	-.00054	-.00002	-.02342

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	Hf2322	Hf2641
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00012	.00000	-.00033	-.00001	-.01945	-.00664	F .45888
Stddev	.00010	.0001	.00064	.00043	.01005	.00452	.57948
%RSD	77.899	5049.8	194.62	4321.1	51.653	68.151	126.28

#1	.00023	-.00012	-.00080	-.00032	-.00886	-.01186	.54480
#2	.00006	.00011	-.00059	-.00020	-.02064	-.00385	-.15877
#3	.00007	.00000	.00040	.00048	-.02885	-.00420	.99060

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit							.10000
Low Limit							-.10000

Elem	Hf2773	Hf3399	K_7664	Li6707	Mg2790	Mn2576	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F .69001	F -.10521	.39816	-.00131	.00904	.00040	.00039
Stddev	1.0215	1.5403	.09216	.00503	.02356	.00186	.00026
%RSD	148.04	1464.1	23.147	384.22	260.54	467.89	66.950

#1	1.3670	1.3493	.40804	.00425	.00440	.00194	.00031
#2	-.48493	.05405	.48498	-.00555	.03457	.00093	.00069
#3	1.1879	-1.7190	.30145	-.00262	-.01185	-.00167	.00018

Check ?	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	.10000	.10000					
Low Limit	-.10000	-.10000					

Approved: July 27, 2012



Sample Name: CCB Acquired: 7/25/2012 16:19:10 Type: Blank
 Method: ICP-THERMO2_6010_200.7(v1999) Mode: CONC Corr. Factor: 1.000000
 User: KHR Custom ID1: Custom ID2: Custom ID3:
 Comment:

Elem	Na5895	Ni2316	P_2149	Pb2203	Rb7800	S_1807	S_1820
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.19854	-.00108	F 10.769	-.00070	F 11.611	F -.03483	F 5.1736
Stddev	.06446	.00073	10.621	.00121	3.046	.10814	1.0140
%RSD	32.467	67.836	98.623	173.57	26.230	310.51	19.600

#1	.26777	-.00091	6.5871	.00060	14.776	.05188	6.3172
#2	.18760	-.00188	2.8756	-.00180	8.7012	-.00036	4.8198
#3	.14025	-.00045	22.844	-.00089	11.356	-.15600	4.3839

Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Fail	Chk Fail	Chk Fail
High Limit			.01000		.01000	.01000	.01000
Low Limit			-.01000		-.01000	-.01000	-.01000

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3372	Tl1908
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00226	-.00169	.00045	-.00057	.00144	-.00102	.00029
Stddev	.00204	.00295	.00590	.00042	.00141	.00342	.00148
%RSD	90.124	174.60	1322.9	74.834	98.270	336.80	503.86

#1	-.00009	-.00414	.00666	-.00071	.00306	.00280	.00018
#2	.00342	.00159	-.00025	-.00090	.00075	-.00381	.00183
#3	.00346	-.00252	-.00507	-.00009	.00050	-.00205	-.00113

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm
Avg	.00001	-.00011	F -1.0157
Stddev	.00057	.00011	.9188
%RSD	4045.9	102.12	90.453

#1	.00045	-.00024	-1.2767
#2	-.00063	-.00006	-1.7758
#3	.00022	-.00003	.00528

Check ?	Chk Pass	Chk Pass	Chk Fail
High Limit			.10000
Low Limit			-.10000

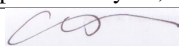
Approved: July 27, 2012



Sample Name: CCB Acquired: 7/25/2012 16:19:10 Type: Blank
Method: ICP-THERMO2_6010_200.7(v1999) Mode: CONC Corr. Factor: 1.000000
User: KHR Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	24765.	15019.
Stddev	115.	357.
%RSD	.46320	2.3757
#1	24639.	15406.
#2	24863.	14950.
#3	24792.	14702.

Approved: July 27, 2012



Sample Name: L1207065802 Acquired: 7/25/2012 16:22:24 Type: Unk
 Method: ICP-THERMO2_6010_200.7(v1999) Mode: CONC Corr. Factor: 1.000000
 User: KHR Custom ID1: Custom ID2: Custom ID3:
 Comment: WG404233-01

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00041	1.2834	.00015	.03255	.19364	.00024	14.370
Stddev	.00043	.0667	.00157	.00051	.01672	.00006	1.208
%RSD	105.00	5.1966	1017.6	1.5537	8.6328	25.515	8.4061

#1	.00090	1.2147	.00011	.03251	.17440	.00023	12.993
#2	.00011	1.2875	.00175	.03307	.20182	.00019	14.865
#3	.00021	1.3479	-.00139	.03206	.20469	.00031	15.251

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	Hf2322	Hf2641
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00040	.00561	.00296	.04014	3.5804	.47639	.44710
Stddev	.00022	.00013	.00074	.00055	.3051	.00978	.39048
%RSD	54.875	2.2610	24.979	1.3722	8.5215	2.0533	87.337

#1	.00027	.00575	.00339	.04077	3.2308	.46592	.65576
#2	.00027	.00553	.00211	.03971	3.7173	.47793	.68893
#3	.00065	.00554	.00339	.03995	3.7930	.48530	-.00339

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Hf2773	Hf3399	K_7664	Li6707	Mg2790	Mn2576	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.5289	.46790	5.9984	.06702	7.2521	.16798	.00090
Stddev	.5659	.19549	.5591	.00603	.5977	.01422	.00019
%RSD	37.017	41.781	9.3212	9.0019	8.2418	8.4629	21.187

#1	2.0817	.31966	5.3595	.06038	6.5704	.15194	.00089
#2	.95062	.68945	6.3985	.07217	7.5000	.17298	.00072
#3	1.5543	.39458	6.2370	.06852	7.6860	.17902	.00110

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: July 27, 2012



Sample Name: L1207065802 Acquired: 7/25/2012 16:22:24 Type: Unk
 Method: ICP-THERMO2_6010_200.7(v1999) Mode: CONC Corr. Factor: 1.000000
 User: KHR Custom ID1: Custom ID2: Custom ID3:
 Comment: WG404233-01

Elem	Na5895	Ni2316	P_2149	Pb2203	Rb7800	S_1807	S_1820
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	45.983	.00526	225.59	.00355	7.6428	F 293.53	F -9766.5
Stddev	3.713	.00029	7.69	.00111	3.4920	1.46	26.4
%RSD	8.0749	5.6111	3.4095	31.402	45.690	.49818	.27022

#1	41.720	.00493	223.44	.00280	3.6182	292.00	-9736.0
#2	47.717	.00533	234.13	.00483	9.8699	293.66	-9781.7
#3	48.511	.00550	219.21	.00302	9.4402	294.92	-9781.7

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Fail
High Limit						9.0000	9.0000
Low Limit						-.00400	-.00400

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3372	Tl1908
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.00079	-.00033	34.250	-.00018	.48274	.03063	.00031
Stddev	.00260	.00256	.193	.00030	.03825	.00218	.00259
%RSD	326.93	768.10	.56419	170.03	7.9237	7.1039	842.94

#1	.00212	-.00060	34.110	-.00051	.43875	.02924	-.00219
#2	-.00165	-.00275	34.170	-.00010	.50127	.02951	.00014
#3	-.00286	.00235	34.471	.00008	.50820	.03314	.00297

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm
Avg	.00568	.01662	.25933
Stddev	.00042	.00009	.51265
%RSD	7.4345	.51858	197.68

#1	.00519	.01658	-.33196
#2	.00594	.01672	.53057
#3	.00590	.01656	.57937

Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

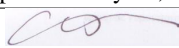
Approved: July 27, 2012



Sample Name: L1207065802 Acquired: 7/25/2012 16:22:24 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1999) Mode: CONC Corr. Factor: 1.000000
User: KHR Custom ID1: Custom ID2: Custom ID3:
Comment: WG404233-01

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	25272.	15626.
Stddev	104.	576.
%RSD	.41257	3.6878
#1	25155.	16278.
#2	25353.	15416.
#3	25309.	15184.

Approved: July 27, 2012



Sample Name: L1207065803MS Acquired: 7/25/2012 16:25:28 Type: Unk
 Method: ICP-THERMO2_6010_200.7(v1999) Mode: CONC Corr. Factor: 1.000000
 User: KHR Custom ID1: Custom ID2: Custom ID3:
 Comment: WG404233-04

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.20039	5.7796	.18880	1.0223	.67164	.02573	18.604
Stddev	.00082	.4500	.00199	.0024	.04784	.00014	1.272
%RSD	.41141	7.7861	1.0545	.23104	7.1228	.54338	6.8353

#1	.19964	5.2619	.18724	1.0226	.61692	.02564	17.147
#2	.20027	6.0003	.18812	1.0245	.69243	.02589	19.178
#3	.20127	6.0767	.19104	1.0198	.70557	.02566	19.488

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	Hf2322	Hf2641
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.02449	.10084	.24732	.25559	3.2162	.91892	1.2986
Stddev	.00018	.00039	.00130	.00089	.2271	.00699	.2853
%RSD	.74634	.38433	.52674	.34982	7.0593	.76101	21.968

#1	.02438	.10046	.24704	.25657	2.9552	.92555	1.4631
#2	.02440	.10082	.24875	.25483	3.3252	.91961	.96917
#3	.02470	.10123	.24619	.25535	3.3682	.91161	1.4634


Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Hf2773	Hf3399	K_7664	Li6707	Mg2790	Mn2576	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.1566	.88629	30.481	.55194	12.018	.39814	.48313
Stddev	1.2314	1.9545	2.260	.04531	.870	.02689	.00075
%RSD	106.46	220.52	7.4152	8.2084	7.2356	6.7541	.15486

#1	.03438	-.86506	27.889	.50080	11.014	.36729	.48389
#2	2.4738	.52926	31.511	.56798	12.512	.41051	.48309
#3	.96159	2.9947	32.043	.58704	12.527	.41661	.48240

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: July 27, 2012



Sample Name: L1207065803MS Acquired: 7/25/2012 16:25:28 Type: Unk
 Method: ICP-THERMO2_6010_200.7(v1999) Mode: CONC Corr. Factor: 1.000000
 User: KHR Custom ID1: Custom ID2: Custom ID3:
 Comment: WG404233-04

Elem	Na5895	Ni2316	P_2149	Pb2203	Rb7800	S_1807	S_1820
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	70.320	.25455	148.52	.25108	F 12.021	F 276.85	F -9093.0
Stddev	4.919	.00089	2.01	.00196	3.572	2.48	28.1
%RSD	6.9952	.35142	1.3535	.77960	29.716	.89650	.30934

#1	64.686	.25534	149.86	.24937	12.583	279.13	-9119.3
#2	72.512	.25474	146.21	.25322	8.2008	277.22	-9096.3
#3	73.762	.25358	149.50	.25065	15.278	274.21	-9063.3

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Fail	Chk Fail
High Limit					9.0000	9.0000	9.0000
Low Limit					-.00400	-.00400	-.00400

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3372	Tl1908
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.59647	.19034	35.321	.51579	.94970	.49717	.25274
Stddev	.00137	.00213	.342	.00128	.06834	.03495	.00222
%RSD	.23003	1.1199	.96729	.24835	7.1960	7.0290	.87781

#1	.59494	.19192	35.649	.51719	.87143	.45750	.25501
#2	.59760	.18791	35.346	.51552	.98007	.51062	.25262
#3	.59688	.19118	34.968	.51467	.99758	.52340	.25058

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm
Avg	.48514	.50942	.83161
Stddev	.00336	.00144	.51108
%RSD	.69357	.28225	61.456

#1	.48824	.51046	.65344
#2	.48561	.51003	.43347
#3	.48156	.50778	1.4079

Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

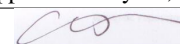
Approved: July 27, 2012



Sample Name: L1207065803MS Acquired: 7/25/2012 16:25:28 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1999) Mode: CONC Corr. Factor: 1.000000
User: KHR Custom ID1: Custom ID2: Custom ID3:
Comment: WG404233-04

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	24589.	15348.
Stddev	74.	577.
%RSD	.30048	3.7607
#1	24570.	16014.
#2	24527.	15043.
#3	24671.	14988.

Approved: July 27, 2012



Sample Name: L1207065804MSD Acquired: 7/25/2012 16:28:30 Type: Unk
 Method: ICP-THERMO2_6010_200.7(v1999) Mode: CONC Corr. Factor: 1.000000
 User: KHR Custom ID1: Custom ID2: Custom ID3:
 Comment: WG404233-05

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.19523	5.4175	.18619	1.0016	.64719	.02515	17.751
Stddev	.00092	.5670	.00253	.0037	.06523	.00017	1.779
%RSD	.46949	10.467	1.3613	.36637	10.079	.69016	10.022

#1	.19436	4.7753	.18336	1.0008	.57237	.02507	15.711
#2	.19515	5.6278	.18693	.99839	.67705	.02534	18.564
#3	.19618	5.8493	.18827	1.0056	.69214	.02502	18.979

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	Hf2322	Hf2641
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.02416	.09893	.24192	.24909	2.8807	.89409	.33954
Stddev	.00029	.00067	.00071	.00035	.2810	.00625	.32640
%RSD	1.1924	.68084	.29390	.14199	9.7543	.69919	96.129

#1	.02408	.09819	.24129	.24876	2.5565	.88733	-.01007
#2	.02391	.09951	.24179	.24946	3.0302	.89966	.39244
#3	.02448	.09909	.24269	.24904	3.0553	.89529	.63627

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Hf2773	Hf3399	K_7664	Li6707	Mg2790	Mn2576	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.1866	.53938	29.458	.53050	11.587	.37600	.47782
Stddev	.4092	2.2040	2.930	.06168	1.173	.03778	.00088
%RSD	34.488	408.63	9.9474	11.628	10.126	10.048	.18375

#1	.73485	2.8359	26.096	.45937	10.237	.33284	.47697
#2	1.2924	.34099	30.810	.56282	12.161	.39206	.47775
#3	1.5325	-1.5588	31.468	.56931	12.363	.40309	.47873

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: July 27, 2012



Sample Name: L1207065804MSD Acquired: 7/25/2012 16:28:30 Type: Unk
 Method: ICP-THERMO2_6010_200.7(v1999) Mode: CONC Corr. Factor: 1.000000
 User: KHR Custom ID1: Custom ID2: Custom ID3:
 Comment: WG404233-05

Elem	Na5895	Ni2316	P_2149	Pb2203	Rb7800	S_1807	S_1820
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	68.211	.25072	150.96	.24631	F 13.083	F 265.82	F -8724.1
Stddev	6.798	.00145	20.11	.00057	11.962	1.57	4.3
%RSD	9.9658	.58000	13.320	.22974	91.430	.59127	.04894

#1	60.416	.24920	127.74	.24662	.23689	267.46	-8727.7
#2	71.310	.25086	162.93	.24566	15.111	265.67	-8725.1
#3	72.908	.25210	162.21	.24666	23.902	264.32	-8719.4

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Fail	Chk Fail
High Limit					9.0000	9.0000	9.0000
Low Limit					-.00400	-.00400	-.00400

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3372	Tl1908
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.58913	.19073	34.138	.52287	.92217	.47724	.25291
Stddev	.00198	.00285	.173	.00097	.09418	.04777	.00220
%RSD	.33586	1.4965	.50696	.18473	10.213	10.010	.87082

#1	.58715	.18810	34.310	.52254	.81415	.42215	.25060
#2	.59110	.19033	34.140	.52396	.96526	.50232	.25313
#3	.58915	.19377	33.964	.52212	.98711	.50724	.25499

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm
Avg	.47062	.50210	.68695
Stddev	.00186	.00047	.29465
%RSD	.39605	.09358	42.893

#1	.46903	.50228	.88620
#2	.47015	.50245	.34849
#3	.47267	.50157	.82616

Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			


Approved: July 27, 2012



Sample Name: L1207065804MSD Acquired: 7/25/2012 16:28:30 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1999) Mode: CONC Corr. Factor: 1.000000
User: KHR Custom ID1: Custom ID2: Custom ID3:
Comment: WG404233-05

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	25029.	15387.
Stddev	57.	666.
%RSD	.22603	4.3256
#1	25052.	16151.
#2	24964.	15070.
#3	25069.	14939.

Approved: July 27, 2012



Sample Name: L1207065806 Acquired: 7/25/2012 16:31:33 Type: Unk
 Method: ICP-THERMO2_6010_200.7(v1999) Mode: CONC Corr. Factor: 1.000000
 User: KHR Custom ID1: Custom ID2: Custom ID3:
 Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.00038	.02420	.00150	.00648	.00097	-.00006	-.00361
Stddev	.00044	.04585	.00358	.00335	.00046	.00007	.03415
%RSD	114.95	189.47	238.48	51.636	47.382	118.05	946.68

#1	-.00037	.02236	.00018	.00951	.00137	-.00008	.02666
#2	-.00083	.07094	.00555	.00704	.00047	-.00011	.00314
#3	.00005	-.02071	-.00123	.00289	.00108	.00002	-.04062

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	Hf2322	Hf2641
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00032	.00007	-.00041	.00056	-.01438	-.01010	.17480
Stddev	.00008	.00014	.00083	.00045	.00330	.00237	.49915
%RSD	25.358	191.73	200.67	79.642	22.962	23.521	285.55

#1	.00039	-.00004	.00038	.00005	-.01227	-.01126	.05321
#2	.00023	.00003	-.00035	.00074	-.01818	-.01166	.72352
#3	.00035	.00022	-.00127	.00090	-.01267	-.00736	-.25232

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Hf2773	Hf3399	K_7664	Li6707	Mg2790	Mn2576	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.7248	.45941	.47167	.00072	-.01587	-.00001	.00032
Stddev	.4555	1.5926	.12024	.00805	.01643	.00203	.00029
%RSD	26.412	346.65	25.492	1115.7	103.50	26993.	90.488

#1	1.4772	.27948	.45105	.00843	-.03475	.00232	.00004
#2	2.2505	-1.0355	.60088	.00137	-.00488	-.00135	.00030
#3	1.4466	2.1343	.36307	-.00764	-.00798	-.00099	.00062

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: July 27, 2012



Sample Name: L1207065806 Acquired: 7/25/2012 16:31:33 Type: Unk
 Method: ICP-THERMO2_6010_200.7(v1999) Mode: CONC Corr. Factor: 1.000000
 User: KHR Custom ID1: Custom ID2: Custom ID3:
 Comment:

Elem	Na5895	Ni2316	P_2149	Pb2203	Rb7800	S_1807	S_1820
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.59030	.00014	12.096	-.00116	F 20.694	F -.07820	3.6451
Stddev	.08753	.00088	14.304	.00156	17.389	.04875	.7946
%RSD	14.829	613.91	118.25	134.57	84.032	62.334	21.799

#1	.67783	-.00067	-3.2759	-.00114	.61426	-.13440	2.8566
#2	.50276	.00002	25.014	.00039	30.762	-.05282	4.4457
#3	.59032	.00108	14.551	-.00272	30.705	-.04738	3.6328

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Fail	Chk Pass
High Limit					9.0000	9.0000	
Low Limit					-.00400	-.00400	

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3372	Tl1908
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00304	-.00033	.02653	-.00077	.00113	.00213	.00047
Stddev	.00069	.00150	.00748	.00021	.00129	.00252	.00254
%RSD	22.773	451.54	28.192	27.093	115.07	118.73	537.75

#1	.00244	.00130	.02086	-.00100	.00261	.00493	-.00035
#2	.00289	-.00164	.02371	-.00062	.00056	.00003	-.00156
#3	.00380	-.00066	.03500	-.00068	.00021	.00142	.00333

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm
Avg	-.00040	.00185	F -1.2809
Stddev	.00023	.00003	.3865
%RSD	56.173	1.4279	30.175

#1	-.00024	.00184	-1.2592
#2	-.00066	.00188	-1.6778
#3	-.00031	.00183	-.90567

Check ?	Chk Pass	Chk Pass	Chk Fail
High Limit			45.000
Low Limit			-.00400

Approved: July 27, 2012



Sample Name: L1207065806 Acquired: 7/25/2012 16:31:33 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1999) Mode: CONC Corr. Factor: 1.000000
User: KHR Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	24338.	15444.
Stddev	73.	727.
%RSD	.30164	4.7081
#1	24280.	16249.
#2	24313.	15249.
#3	24420.	14835.

Approved: July 27, 2012



Sample Name: L1207065807 Acquired: 7/25/2012 16:34:42 Type: Unk
 Method: ICP-THERMO2_6010_200.7(v1999) Mode: CONC Corr. Factor: 1.000000
 User: KHR Custom ID1: Custom ID2: Custom ID3:
 Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00023	.23453	.00269	.06859	.08693	-.00002	14.576
Stddev	.00031	.03022	.00071	.00477	.00693	.00004	1.050
%RSD	135.78	12.886	26.313	6.9546	7.9746	176.36	7.2014

#1	.00058	.23051	.00297	.06652	.07900	.00002	13.380
#2	.00000	.26655	.00321	.06520	.08992	-.00002	15.005
#3	.00010	.20651	.00188	.07404	.09186	-.00007	15.343

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	Hf2322	Hf2641
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00122	.00088	.00883	.00129	.27492	.92361	.74816
Stddev	.00019	.00004	.00105	.00052	.03194	.01019	.56850
%RSD	15.984	4.7461	11.867	40.124	11.619	1.1030	75.986

#1	.00113	.00087	.00830	.00092	.23812	.92591	.49903
#2	.00108	.00084	.00815	.00189	.29111	.91247	.34676
#3	.00144	.00092	.01003	.00107	.29551	.93245	1.3987

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Hf2773	Hf3399	K_7664	Li6707	Mg2790	Mn2576	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.1403	.61967	25.666	.11534	7.3732	.02172	.00440
Stddev	.3409	.60938	2.016	.00593	.5550	.00306	.00019
%RSD	29.896	98.338	7.8529	5.1407	7.5278	14.081	4.3261

#1	.86295	.36321	23.378	.10905	6.7482	.01849	.00447
#2	1.5209	.18044	26.441	.11615	7.5631	.02212	.00455
#3	1.0371	1.3154	27.180	.12082	7.8084	.02457	.00419

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: July 27, 2012



Sample Name: L1207065807 Acquired: 7/25/2012 16:34:42 Type: Unk
 Method: ICP-THERMO2_6010_200.7(v1999) Mode: CONC Corr. Factor: 1.000000
 User: KHR Custom ID1: Custom ID2: Custom ID3:
 Comment:

Elem	Na5895	Ni2316	P_2149	Pb2203	Rb7800	S_1807	S_1820
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	99.096	.00059	382.12	.00004	F 22.605	F 429.16	F -14550.
Stddev	7.062	.00190	8.10	.00273	6.918	7.00	158.
%RSD	7.1266	321.43	2.1207	6256.9	30.603	1.6309	1.0870

#1	91.015	.00135	374.03	.00216	14.998	435.05	-14647.
#2	102.19	.00200	390.24	.00101	28.520	431.02	-14636.
#3	104.08	-.00157	382.11	-.00304	24.296	421.42	-14368.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Fail	Chk Fail
High Limit					9.0000	9.0000	9.0000
Low Limit					-.00400	-.00400	-.00400

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3372	Tl1908
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00327	-.00280	17.878	-.00082	.97746	.00318	.00071
Stddev	.00157	.00487	.201	.00025	.07159	.00194	.00101
%RSD	48.029	173.76	1.1267	30.729	7.3237	61.021	141.47

#1	.00427	-.00104	18.062	-.00103	.89512	.00447	.00186
#2	.00409	.00094	17.910	-.00054	1.0123	.00095	-.00005
#3	.00146	-.00831	17.663	-.00089	1.0249	.00411	.00033

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm
Avg	.01062	.00885	F -.76131
Stddev	.00027	.00032	1.2966
%RSD	2.5191	3.5840	170.32

#1	.01048	.00908	.53492
#2	.01046	.00897	-.76048
#3	.01093	.00848	-2.0584

Check ?	Chk Pass	Chk Pass	Chk Fail
High Limit			45.000
Low Limit			-.00400

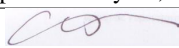
Approved: July 27, 2012



Sample Name: L1207065807 Acquired: 7/25/2012 16:34:42 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1999) Mode: CONC Corr. Factor: 1.000000
User: KHR Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	23653.	14661.
Stddev	1782.	508.
%RSD	7.5352	3.4682
#1	24783.	15243.
#2	24578.	14430.
#3	21599.	14308.

Approved: July 27, 2012



Sample Name: L1207065808 Acquired: 7/25/2012 16:37:47 Type: Unk
 Method: ICP-THERMO2_6010_200.7(v1999) Mode: CONC Corr. Factor: 1.000000
 User: KHR Custom ID1: Custom ID2: Custom ID3:
 Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00125	.53691	-.00143	.04705	.08522	.00005	5.9191
Stddev	.00064	.03961	.00018	.00111	.00770	.00002	.4640
%RSD	51.314	7.3770	12.358	2.3544	9.0402	33.615	7.8393

#1	.00187	.56138	-.00145	.04803	.07636	.00007	5.3870
#2	.00059	.55813	-.00124	.04585	.08898	.00004	6.1308
#3	.00129	.49121	-.00159	.04725	.09032	.00004	6.2396

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	Hf2322	Hf2641
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00027	.00152	.00309	.00181	.97465	.15877	F -.33032
Stddev	.00001	.00014	.00051	.00062	.08975	.00659	.36451
%RSD	5.0595	9.3341	16.611	34.192	9.2089	4.1529	110.35

#1	.00026	.00137	.00251	.00204	.87132	.16564	.05942
#2	.00028	.00156	.00350	.00227	1.0194	.15249	-.38753
#3	.00025	.00165	.00326	.00111	1.0333	.15817	-.66285

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit							45.000
Low Limit							-.10000

Elem	Hf2773	Hf3399	K_7664	Li6707	Mg2790	Mn2576	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.3571	.21960	1.2702	.02143	3.0416	.03157	.00170
Stddev	.5515	1.8247	.0672	.00372	.2509	.00324	.00020
%RSD	40.638	830.90	5.2887	17.338	8.2472	10.270	11.620

#1	1.2060	1.0477	1.2060	.01757	2.7570	.02802	.00185
#2	1.9684	1.4834	1.2647	.02498	3.1375	.03231	.00176
#3	.89688	-1.8723	1.3400	.02173	3.2304	.03438	.00147

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: July 27, 2012



Sample Name: L1207065808 Acquired: 7/25/2012 16:37:47 Type: Unk
 Method: ICP-THERMO2_6010_200.7(v1999) Mode: CONC Corr. Factor: 1.000000
 User: KHR Custom ID1: Custom ID2: Custom ID3:
 Comment:

Elem	Na5895	Ni2316	P_2149	Pb2203	Rb7800	S_1807	S_1820
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	57.851	.00273	221.49	.00198	F 9.2603	F 244.80	F -8337.5
Stddev	4.803	.00025	5.47	.00111	8.7380	1.66	14.3
%RSD	8.3020	9.1027	2.4719	55.699	94.360	.67672	.17099

#1	52.341	.00291	215.20	.00073	-.27460	244.42	-8326.6
#2	60.064	.00245	225.16	.00242	16.886	246.61	-8332.3
#3	61.149	.00283	224.12	.00281	11.170	243.36	-8353.6

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Fail	Chk Fail
High Limit					9.0000	9.0000	9.0000
Low Limit					-.00400	-.00400	-.00400

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3372	Tl1908
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.00050	.00086	27.009	-.00069	.17029	.01113	.00299
Stddev	.00301	.00421	.246	.00044	.01329	.00238	.00095
%RSD	601.33	490.71	.91016	63.788	7.8056	21.351	31.887

#1	-.00390	.00148	27.027	-.00031	.15507	.00867	.00378
#2	.00180	.00472	27.245	-.00060	.17614	.01131	.00327
#3	.00060	-.00362	26.754	-.00118	.17964	.01342	.00193

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm
Avg	.00135	.01484	F -.04021
Stddev	.00039	.00005	.11940
%RSD	29.066	.34031	296.97

#1	.00093	.01484	.09708
#2	.00142	.01479	-.11984
#3	.00170	.01489	-.09786

Check ?	Chk Pass	Chk Pass	Chk Fail
High Limit			45.000
Low Limit			-.00400

Approved: July 27, 2012



Sample Name: L1207065808 Acquired: 7/25/2012 16:37:47 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1999) Mode: CONC Corr. Factor: 1.000000
User: KHR Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	25645.	15848.
Stddev	378.	645.
%RSD	1.4723	4.0723
#1	25541.	16592.
#2	25331.	15506.
#3	26064.	15445.

Approved: July 27, 2012



Sample Name: CCV Acquired: 7/25/2012 16:40:56 Type: QC
 Method: ICP-THERMO2_6010_200.7(v1999) Mode: CONC Corr. Factor: 1.000000
 User: KHR Custom ID1: Custom ID2: Custom ID3:
 Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.40651	10.036	.39470	.51577	1.0231	.05228	10.140
Stddev	.00532	.702	.00253	.00864	.0756	.00054	.746
%RSD	1.3077	6.9969	.64039	1.6750	7.3869	1.0288	7.3528

#1	.40627	9.2488	.39659	.51079	.93743	.05183	9.2985
#2	.40132	10.261	.39183	.51077	1.0513	.05214	10.404
#3	.41195	10.598	.39568	.52574	1.0804	.05288	10.718

Check ? Value Range	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
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Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	Hf2322	Hf2641
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.05044	.20216	.51051	.50684	4.1334	1.0055	F .48562
Stddev	.00006	.00031	.00548	.00104	.3055	.0034	.72364
%RSD	.11536	.15574	1.0725	.20512	7.3923	.34176	149.01

#1	.05046	.20250	.50776	.50749	3.7854	1.0065	.38692
#2	.05037	.20209	.50694	.50738	4.2566	1.0083	1.2536
#3	.05048	.20188	.51681	.50564	4.3580	1.0017	-.18360

Check ? Value Range	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail 1.0000 -10.000%
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Elem	Hf2773	Hf3399	K_7664	Li6707	Mg2790	Mn2576	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F 1.6257	F -.06375	51.711	.99183	10.461	.50174	1.0105
Stddev	.3674	.75565	3.678	.07610	.819	.03937	.0013
%RSD	22.602	1185.4	7.1124	7.6727	7.8257	7.8469	.12830

#1	1.2624	-.93622	47.581	.90587	9.5386	.45742	1.0114
#2	1.9971	.36227	52.922	1.0190	10.744	.51514	1.0111
#3	1.6177	.38270	54.632	1.0506	11.101	.53267	1.0090

Check ? Value Range	Chk Fail 1.0000 10.000%	Chk Fail 1.0000 -10.000%	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
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Approved: July 27, 2012



Sample Name: CCV Acquired: 7/25/2012 16:40:56 Type: QC
 Method: ICP-THERMO2_6010_200.7(v1999) Mode: CONC Corr. Factor: 1.000000
 User: KHR Custom ID1: Custom ID2: Custom ID3:
 Comment:

Elem	Na5895	Ni2316	P_2149	Pb2203	Rb7800	S_1807	S_1820
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	52.133	.52765	F 18.614	.52371	F 7.8447	10.516	F 8.2016
Stddev	3.706	.00063	10.912	.00063	8.4997	.091	.4992
%RSD	7.1088	.11937	58.620	.12082	108.35	.86164	6.0870

#1	47.940	.52781	11.542	.52336	-1.9689	10.450	8.7324
#2	53.489	.52696	13.120	.52334	12.869	10.619	7.7415
#3	54.971	.52819	31.181	.52445	12.634	10.477	8.1308

Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Fail	Chk Pass	Chk Fail
Value			10.000		10.000		10.000
Range			10.000%		-10.000%		-10.000%

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3372	Tl1908
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.2741	.40155	F 5.6957	1.0491	1.0316	.99701	.53764
Stddev	.0030	.00141	.0444	.0014	.0751	.07495	.00280
%RSD	.23305	.35194	.77874	.13011	7.2761	7.5170	.52021

#1	1.2707	.39993	5.6959	1.0490	.94666	.91267	.53831
#2	1.2764	.40257	5.6513	1.0478	1.0592	1.0224	.53456
#3	1.2752	.40213	5.7400	1.0505	1.0890	1.0560	.54004

Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value			5.0000				
Range			10.000%				

Elem	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm
Avg	.98909	1.0358	F .25925
Stddev	.01103	.0005	.54163
%RSD	1.1157	.04687	208.92

#1	.98737	1.0358	.79339
#2	.97902	1.0353	.27394
#3	1.0009	1.0363	-.28958

Check ?	Chk Pass	Chk Pass	Chk Fail
Value			1.0000
Range			-10.000%

Approved: July 27, 2012



Sample Name: CCV Acquired: 7/25/2012 16:40:56 Type: QC
Method: ICP-THERMO2_6010_200.7(v1999) Mode: CONC Corr. Factor: 1.000000
User: KHR Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	24820.	15531.
Stddev	75.	564.
%RSD	.30248	3.6327
#1	24897.	16116.
#2	24816.	15487.
#3	24747.	14990.

Approved: July 27, 2012



Sample Name: CCB Acquired: 7/25/2012 16:44:00 Type: Blank
 Method: ICP-THERMO2_6010_200.7(v1999) Mode: CONC Corr. Factor: 1.000000
 User: KHR Custom ID1: Custom ID2: Custom ID3:
 Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00099	.04117	-.00036	.00481	.00116	-.00005	-.01284
Stddev	.00039	.04679	.00110	.00085	.00124	.00002	.04038
%RSD	39.203	113.64	302.02	17.645	107.41	37.041	314.51

#1	.00110	.01748	.00090	.00438	.00259	-.00007	.03196
#2	.00055	.01097	-.00110	.00427	.00034	-.00006	-.04645
#3	.00130	.09506	-.00089	.00579	.00054	-.00003	-.02402

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	Hf2322	Hf2641
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00029	.00014	.00032	-.00032	-.01042	-.01294	.03759
Stddev	.00017	.00028	.00097	.00059	.00817	.00320	.70735
%RSD	58.209	193.71	298.49	183.33	78.393	24.747	1881.6

#1	.00027	.00028	-.00055	.00034	-.00215	-.01088	.20978
#2	.00013	.00032	.00137	-.00052	-.01848	-.01131	-.73996
#3	.00046	-.00017	.00016	-.00079	-.01063	-.01663	.64296

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Hf2773	Hf3399	K_7664	Li6707	Mg2790	Mn2576	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F 1.0589	F 1.3615	.40532	.00625	-.01588	.00077	.00034
Stddev	.5264	1.3990	.07883	.00993	.04845	.00109	.00023
%RSD	49.712	102.76	19.448	158.88	305.07	142.77	67.413

#1	.77549	1.1811	.48745	.01763	.02444	.00174	.00010
#2	1.6663	.06144	.33027	-.00068	-.00246	.00097	.00055
#3	.73493	2.8420	.39824	.00180	-.06963	-.00042	.00037

Check ?	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	.10000	.10000					
Low Limit	-.10000	-.10000					

Approved: July 27, 2012



Sample Name: CCB Acquired: 7/25/2012 16:44:00 Type: Blank
 Method: ICP-THERMO2_6010_200.7(v1999) Mode: CONC Corr. Factor: 1.000000
 User: KHR Custom ID1: Custom ID2: Custom ID3:
 Comment:

Elem	Na5895	Ni2316	P_2149	Pb2203	Rb7800	S_1807	S_1820
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.23414	.00001	F -21.824	-.00091	F 10.719	F -.05977	F 5.7693
Stddev	.08766	.00028	13.317	.00407	5.751	.06150	.8418
%RSD	37.439	2449.6	61.019	448.47	53.655	102.89	14.590

#1	.33494	-.00027	-37.181	.00318	7.9549	-.02535	5.9767
#2	.19178	.00001	-14.817	-.00094	6.8711	-.13078	6.4879
#3	.17571	.00029	-13.473	-.00496	17.330	-.02320	4.8432

Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Fail	Chk Fail	Chk Fail
High Limit			.01000		.01000	.01000	.01000
Low Limit			-.01000		-.01000	-.01000	-.01000

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3372	Tl1908
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00069	-.00307	.00096	-.00058	.00137	.00081	.00019
Stddev	.00357	.00467	.00116	.00030	.00100	.00308	.00212
%RSD	514.70	152.17	121.15	50.931	72.871	381.39	1131.5

#1	-.00237	.00196	-.00020	-.00046	.00249	.00414	.00251
#2	.00461	-.00389	.00212	-.00092	.00106	.00021	-.00029
#3	-.00016	-.00728	.00095	-.00036	.00056	-.00193	-.00166

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm
Avg	-.00054	-.00012	F -.66238
Stddev	.00028	.00002	.35983
%RSD	51.018	19.215	54.323

#1	-.00062	-.00013	-.88043
#2	-.00078	-.00010	-.24706
#3	-.00024	-.00014	-.85965

Check ?	Chk Pass	Chk Pass	Chk Fail
High Limit			.10000
Low Limit			-.10000

Approved: July 27, 2012



Sample Name: CCB Acquired: 7/25/2012 16:44:00 Type: Blank
Method: ICP-THERMO2_6010_200.7(v1999) Mode: CONC Corr. Factor: 1.000000
User: KHR Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	24743.	15250.
Stddev	177.	773.
%RSD	.71504	5.0675
#1	24943.	16098.
#2	24681.	15067.
#3	24605.	14585.

Approved: July 27, 2012



Sample Name: PBW 10 Acquired: 7/25/2012 16:47:17 Type: Unk
 Method: ICP-THERMO2_6010_200.7(v1999) Mode: CONC Corr. Factor: 1.000000
 User: KHR Custom ID1: Custom ID2: Custom ID3:
 Comment: WG404234-02

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00037	.02227	-.00155	.00232	-.00057	.00003	-.04144
Stddev	.00119	.01682	.00217	.00207	.00031	.00005	.03206
%RSD	318.87	75.519	140.39	89.249	54.554	173.67	77.375

#1	-.00099	.00661	.00000	-.00002	-.00091	.00009	-.00661
#2	.00122	.02016	-.00061	.00392	-.00030	-.00002	-.04799
#3	.00089	.04005	-.00403	.00308	-.00051	.00002	-.06972

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	Hf2322	Hf2641
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.00008	.00010	-.00034	.00004	-.01574	-.00993	.01315
Stddev	.00021	.00029	.00076	.00068	.01192	.00231	.37452
%RSD	267.01	278.86	220.86	1518.7	75.754	23.258	2848.4

#1	.00015	-.00018	-.00014	-.00074	-.02038	-.01249	-.09112
#2	-.00026	.00009	.00029	.00051	-.00219	-.00928	.42875
#3	-.00012	.00040	-.00118	.00036	-.02464	-.00801	-.29819

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Hf2773	Hf3399	K_7664	Li6707	Mg2790	Mn2576	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.91906	F -.87220	.30905	-.00469	-.02111	.00113	-.00015
Stddev	.47215	1.5431	.09768	.00361	.03156	.00075	.00026
%RSD	51.374	176.93	31.608	76.961	149.49	66.405	172.51

#1	1.2861	-1.7384	.35087	-.00754	-.04291	.00114	-.00003
#2	1.0847	-1.7876	.37885	-.00063	.01508	.00188	-.00044
#3	.38641	.90943	.19742	-.00590	-.03551	.00038	.00003

Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit		45.000					
Low Limit		-.10000					

Approved: July 27, 2012



Sample Name: PBW 10 Acquired: 7/25/2012 16:47:17 Type: Unk
 Method: ICP-THERMO2_6010_200.7(v1999) Mode: CONC Corr. Factor: 1.000000
 User: KHR Custom ID1: Custom ID2: Custom ID3:
 Comment: WG404234-02

Elem	Na5895	Ni2316	P_2149	Pb2203	Rb7800	S_1807	S_1820
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.14879	.00023	15.401	.00068	F 12.278	F -.05809	4.1850
Stddev	.02089	.00121	4.250	.00131	14.712	.07650	1.1566
%RSD	14.038	514.10	27.598	191.13	119.82	131.69	27.636

#1	.15582	-.00116	16.592	.00209	3.9935	-.07450	3.2904
#2	.12530	.00085	18.929	.00047	3.5768	.02528	3.7736
#3	.16526	.00101	10.682	-.00050	29.264	-.12505	5.4911

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Fail	Chk Pass
High Limit					9.0000	9.0000	
Low Limit					-.00400	-.00400	

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3372	Ti1908
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00100	-.00161	.00072	-.00134	-.00010	.00128	.00180
Stddev	.00323	.00222	.00514	.00030	.00020	.00312	.00053
%RSD	321.55	138.15	710.84	22.681	196.25	244.65	29.249

#1	.00142	-.00412	.00474	-.00107	-.00021	.00479	.00194
#2	.00401	.00009	.00249	-.00128	-.00023	-.00115	.00225
#3	-.00241	-.00079	-.00506	-.00167	.00013	.00018	.00122

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm
Avg	-.00035	.00141	F -.65213
Stddev	.00059	.00004	.65503
%RSD	167.94	2.5361	100.44

#1	.00029	.00140	.10109
#2	-.00088	.00139	-1.0884
#3	-.00048	.00145	-.96911

Check ?	Chk Pass	Chk Pass	Chk Fail
High Limit			45.000
Low Limit			-.00400

Approved: July 27, 2012



Sample Name: PBW 10 Acquired: 7/25/2012 16:47:17 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1999) Mode: CONC Corr. Factor: 1.000000
User: KHR Custom ID1: Custom ID2: Custom ID3:
Comment: WG404234-02

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	25562.	15511.
Stddev	70.	585.
%RSD	.27347	3.7719
#1	25628.	16183.
#2	25489.	15232.
#3	25569.	15117.

Approved: July 27, 2012



Sample Name: LCSW 10 Acquired: 7/25/2012 16:50:25 Type: Unk
 Method: ICP-THERMO2_6010_200.7(v1999) Mode: CONC Corr. Factor: 1.000000
 User: KHR Custom ID1: Custom ID2: Custom ID3:
 Comment: WG404234-03

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.20056	4.8864	.19185	1.0012	.49845	.02569	4.9126
Stddev	.00029	.4772	.00103	.0057	.04489	.00013	.4127
%RSD	.14402	9.7657	.53522	.56727	9.0056	.51530	8.3997

#1	.20042	4.3381	.19302	.99477	.44700	.02554	4.4420
#2	.20090	5.1127	.19112	1.0054	.51871	.02577	5.0833
#3	.20037	5.2083	.19140	1.0036	.52964	.02577	5.2126

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	Hf2322	Hf2641
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.02488	.09902	.25007	.24822	1.9755	.48874	.09795
Stddev	.00008	.00072	.00038	.00121	.1790	.00468	.25280
%RSD	.32618	.72700	.15117	.48664	9.0636	.95767	258.08

#1	.02483	.09867	.24965	.24774	1.7714	.49026	.31795
#2	.02497	.09985	.25039	.24960	2.0488	.49248	-.17820
#3	.02483	.09854	.25016	.24733	2.1062	.48349	.15410

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Hf2773	Hf3399	K_7664	Li6707	Mg2790	Mn2576	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F -.11748	1.0830	25.167	.49819	5.1582	.24389	.49158
Stddev	.65221	.6733	2.312	.04261	.4963	.02302	.00140
%RSD	555.18	62.165	9.1864	8.5539	9.6216	9.4406	.28540

#1	-.84117	.30820	22.512	.44984	4.5914	.21796	.49116
#2	.42488	1.5253	26.260	.51443	5.3683	.25180	.49315
#3	.06385	1.4156	26.731	.53030	5.5148	.26192	.49044

Check ?	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	45.000						
Low Limit	-.10000						

Approved: July 27, 2012



Sample Name: LCSW 10 Acquired: 7/25/2012 16:50:25 Type: Unk
 Method: ICP-THERMO2_6010_200.7(v1999) Mode: CONC Corr. Factor: 1.000000
 User: KHR Custom ID1: Custom ID2: Custom ID3:
 Comment: WG404234-03

Elem	Na5895	Ni2316	P_2149	Pb2203	Rb7800	S_1807	S_1820
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	26.132	.26051	7.9063	.25650	4.6104	5.3653	1.8895
Stddev	2.267	.00144	17.327	.00246	9.1906	.0691	.8671
%RSD	8.6738	.55291	219.15	.96033	199.35	1.2878	45.894

#1	23.529	.25982	-10.213	.25433	-4.9075	5.4280	.88893
#2	27.197	.26216	9.6171	.25599	5.3042	5.3766	2.3561
#3	27.670	.25954	24.314	.25917	13.434	5.2912	2.4233

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3372	Tl1908
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.61588	.20134	2.8432	.52821	.50071	.47799	.26818
Stddev	.00099	.00332	.0150	.00053	.04321	.04331	.00225
%RSD	.16050	1.6495	.52905	.10010	8.6301	9.0617	.83981

#1	.61675	.20258	2.8551	.52802	.45103	.42873	.26855
#2	.61607	.19758	2.8263	.52780	.52150	.49510	.27022
#3	.61481	.20387	2.8482	.52880	.52959	.51014	.26577

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm
Avg	.48034	.51676	.18670
Stddev	.00350	.00069	.64185
%RSD	.72770	.13317	343.79

#1	.47680	.51656	.74971
#2	.48379	.51753	-.51222
#3	.48042	.51620	.32259

Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

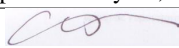
Approved: July 27, 2012



Sample Name: LCSW 10 Acquired: 7/25/2012 16:50:25 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1999) Mode: CONC Corr. Factor: 1.000000
User: KHR Custom ID1: Custom ID2: Custom ID3:
Comment: WG404234-03

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	25144.	15732.
Stddev	131.	755.
%RSD	.52135	4.8005
#1	25290.	16596.
#2	25109.	15408.
#3	25035.	15193.

Approved: July 27, 2012



Sample Name: L1207065809 Acquired: 7/25/2012 16:53:30 Type: Unk
 Method: ICP-THERMO2_6010_200.7(v1999) Mode: CONC Corr. Factor: 1.000000
 User: KHR Custom ID1: Custom ID2: Custom ID3:
 Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00073	.07766	.00124	.37897	.05537	-.00007	4.1397
Stddev	.00119	.02857	.00271	.00838	.00386	.00003	.2996
%RSD	162.88	36.789	217.57	2.2107	6.9688	39.417	7.2377

#1	.00145	.07829	.00006	.37074	.05092	-.00004	3.7961
#2	.00138	.04878	.00434	.37868	.05736	-.00006	4.2762
#3	-.00064	.10591	-.00067	.38748	.05782	-.00009	4.3467

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	Hf2322	Hf2641
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00020	.00010	.01131	.00019	.05566	.67029	.52538
Stddev	.00011	.00032	.00123	.00067	.00579	.00209	.22310
%RSD	54.278	315.74	10.888	348.21	10.410	.31208	42.464

#1	.00009	-.00017	.01244	-.00012	.05091	.66805	.27792
#2	.00022	.00002	.01000	-.00027	.06211	.67062	.71111
#3	.00031	.00045	.01151	.00097	.05396	.67220	.58711

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Hf2773	Hf3399	K_7664	Li6707	Mg2790	Mn2576	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.67604	.70756	12.515	.08018	.26302	.00215	.01464
Stddev	1.0820	2.2606	.967	.00687	.02205	.00037	.00011
%RSD	160.04	319.50	7.7285	8.5667	8.3843	17.269	.76044

#1	1.8103	-.04116	11.401	.07229	.24091	.00202	.01464
#2	-.34467	-1.0837	13.000	.08483	.26314	.00258	.01474
#3	.56249	3.2476	13.143	.08343	.28502	.00187	.01452

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: July 27, 2012



Sample Name: L1207065809 Acquired: 7/25/2012 16:53:30 Type: Unk
 Method: ICP-THERMO2_6010_200.7(v1999) Mode: CONC Corr. Factor: 1.000000
 User: KHR Custom ID1: Custom ID2: Custom ID3:
 Comment:

Elem	Na5895	Ni2316	P_2149	Pb2203	Rb7800	S_1807	S_1820
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	143.55	.00095	31.852	-.00106	F 12.207	F 51.217	F -1626.5
Stddev	11.04	.00058	18.859	.00089	7.311	.206	1.7
%RSD	7.6895	61.104	59.210	83.564	59.893	.40293	.10593

#1	130.87	.00161	23.678	-.00005	3.8491	50.985	-1626.1
#2	148.77	.00059	53.419	-.00168	15.356	51.286	-1625.0
#3	151.02	.00064	18.458	-.00145	17.416	51.380	-1628.3

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Fail	Chk Fail
High Limit					9.0000	9.0000	9.0000
Low Limit					-.00400	-.00400	-.00400

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3372	Tl1908
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00147	-.00396	6.9739	-.00117	.70744	.00340	-.00087
Stddev	.00301	.00022	.0323	.00013	.05565	.00127	.00093
%RSD	204.67	5.5487	.46297	11.059	7.8657	37.257	107.63

#1	.00103	-.00383	6.9444	-.00131	.64324	.00252	-.00194
#2	.00468	-.00385	7.0084	-.00115	.73736	.00282	-.00028
#3	-.00130	-.00422	6.9689	-.00105	.74173	.00485	-.00038


Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm
Avg	.00095	.00487	F -.63887
Stddev	.00052	.00004	.38572
%RSD	54.608	.87258	60.375

#1	.00106	.00482	-.23857
#2	.00141	.00491	-.66991
#3	.00039	.00487	-1.0081

Check ?	Chk Pass	Chk Pass	Chk Fail
High Limit			45.000
Low Limit			-.00400

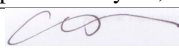
Approved: July 27, 2012



Sample Name: L1207065809 Acquired: 7/25/2012 16:53:30 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1999) Mode: CONC Corr. Factor: 1.000000
User: KHR Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	24868.	15475.
Stddev	274.	591.
%RSD	1.1033	3.8180
#1	25181.	16157.
#2	24755.	15157.
#3	24669.	15111.

Approved: July 27, 2012



Sample Name: L1207065810 Acquired: 7/25/2012 16:56:37 Type: Unk
 Method: ICP-THERMO2_6010_200.7(v1999) Mode: CONC Corr. Factor: 1.000000
 User: KHR Custom ID1: Custom ID2: Custom ID3:
 Comment: WG404234-01

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.00036	.11212	.00078	.09719	.07826	-.00002	73.218
Stddev	.00026	.04919	.00101	.00314	.00634	.00006	5.437
%RSD	72.639	43.878	128.88	3.2314	8.1010	260.54	7.4262

#1	-.00057	.10113	.00093	.09413	.07101	.00004	67.062
#2	-.00007	.16588	-.00029	.09704	.08103	-.00003	75.224
#3	-.00044	.06934	.00171	.10040	.08276	-.00008	77.366

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	Hf2322	Hf2641
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00037	.00057	.00055	.00018	1.9654	2.3969	1.9294
Stddev	.00008	.00011	.00027	.00042	.1474	.0029	.9396
%RSD	21.228	19.665	49.869	229.07	7.4995	.11925	48.700

#1	.00046	.00064	.00073	.00066	1.7961	2.3936	1.3253
#2	.00032	.00062	.00069	-.00012	2.0350	2.3984	3.0119
#3	.00033	.00044	.00023	.00001	2.0651	2.3987	1.4509

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Hf2773	Hf3399	K_7664	Li6707	Mg2790	Mn2576	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.5612	-.05340	3.4993	.07226	25.512	.07158	-.00008
Stddev	.4512	.50892	.3095	.00591	1.991	.00591	.00024
%RSD	28.904	952.99	8.8445	8.1835	7.8033	8.2594	299.56

#1	1.5857	-.27917	3.1688	.06560	23.308	.06497	-.00004
#2	1.9997	.52935	3.5468	.07426	26.049	.07340	.00014
#3	1.0982	-.41038	3.7823	.07691	27.180	.07636	-.00034

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: July 27, 2012



Sample Name: L1207065810 Acquired: 7/25/2012 16:56:37 Type: Unk
 Method: ICP-THERMO2_6010_200.7(v1999) Mode: CONC Corr. Factor: 1.000000
 User: KHR Custom ID1: Custom ID2: Custom ID3:
 Comment: WG404234-01

Elem	Na5895	Ni2316	P_2149	Pb2203	Rb7800	S_1807	S_1820
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	185.91	-0.0017	134.64	.00224	F -0.02800	F 1359.1	F -44671.
Stddev	13.54	.00118	13.18	.00175	9.0252	8.3	251.
%RSD	7.2854	684.40	9.7853	78.220	32235.	.61324	.56262

#1	170.52	-0.00074	119.79	.00383	-1.2690	1368.3	-44958.
#2	191.17	.00119	139.24	.00254	-8.3685	1352.2	-44491.
#3	196.03	-0.00096	144.91	.00036	9.5535	1356.8	-44564.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Fail	Chk Fail
High Limit					9.0000	9.0000	9.0000
Low Limit					-0.0400	-0.0400	-0.0400

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3372	Tl1908
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-0.00085	-0.00319	13.447	-0.00061	2.5679	-0.00063	.00097
Stddev	.00279	.00246	.068	.00066	.1915	.00120	.00110
%RSD	327.26	77.176	.50931	108.03	7.4571	190.11	112.81

#1	-0.00399	-0.00602	13.494	-0.00113	2.3501	-0.00159	-0.00026
#2	.00136	-0.00152	13.369	.00013	2.6440	.00071	.00133
#3	.00008	-0.00203	13.480	-0.00083	2.7097	-0.00101	.00184

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm
Avg	.00044	.00682	F -1.0409
Stddev	.00043	.00016	.8478
%RSD	96.729	2.3794	81.443

#1	.00094	.00695	-1.12656
#2	.00021	.00664	-1.1954
#3	.00018	.00688	-1.8008

Check ?	Chk Pass	Chk Pass	Chk Fail
High Limit			45.000
Low Limit			-0.00400

Approved: July 27, 2012



Sample Name: L1207065810 Acquired: 7/25/2012 16:56:37 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1999) Mode: CONC Corr. Factor: 1.000000
User: KHR Custom ID1: Custom ID2: Custom ID3:
Comment: WG404234-01

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	24026.	15899.
Stddev	766.	429.
%RSD	3.1899	2.7008
#1	24907.	16394.
#2	23653.	15677.
#3	23517.	15626.

Approved: July 27, 2012



Sample Name: L1207065810MS Acquired: 7/25/2012 16:59:41 Type: Unk
 Method: ICP-THERMO2_6010_200.7(v1999) Mode: CONC Corr. Factor: 1.000000
 User: KHR Custom ID1: Custom ID2: Custom ID3:
 Comment: WG404234-04

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.21153	5.1531	.20119	1.1495	.59176	.02708	76.036
Stddev	.00219	.5355	.00155	.0067	.05475	.00019	6.734
%RSD	1.0342	10.392	.77066	.58059	9.2522	.68657	8.8558

#1	.21390	4.5374	.19944	1.1561	.52912	.02710	68.334
#2	.20959	5.4105	.20240	1.1428	.61572	.02688	78.965
#3	.21110	5.5112	.20173	1.1496	.63046	.02725	80.809

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	Hf2322	Hf2641
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.02583	.10103	.26000	.25172	3.9618	2.8345	1.7159
Stddev	.00013	.00041	.00163	.00078	.3727	.0127	.4084
%RSD	.51890	.40597	.62715	.31161	9.4075	.44659	23.804

#1	.02572	.10136	.26181	.25216	3.5346	2.8310	1.5870
#2	.02580	.10117	.25864	.25219	4.1302	2.8485	2.1733
#3	.02598	.10057	.25956	.25082	4.2205	2.8240	1.3875

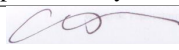
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Hf2773	Hf3399	K_7664	Li6707	Mg2790	Mn2576	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.8162	.32630	29.499	.57174	29.893	.31511	.50908
Stddev	1.1076	.96967	2.736	.04871	2.735	.02887	.00112
%RSD	60.987	297.17	9.2761	8.5192	9.1476	9.1615	.22016

#1	1.4278	.31129	26.374	.51636	26.778	.28226	.51037
#2	.95506	-.63578	30.653	.59090	31.001	.32658	.50841
#3	3.0657	1.3034	31.469	.60795	31.899	.33647	.50845

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: July 27, 2012



Sample Name: L1207065810MS Acquired: 7/25/2012 16:59:41 Type: Unk
 Method: ICP-THERMO2_6010_200.7(v1999) Mode: CONC Corr. Factor: 1.000000
 User: KHR Custom ID1: Custom ID2: Custom ID3:
 Comment: WG404234-04

Elem	Na5895	Ni2316	P_2149	Pb2203	Rb7800	S_1807	S_1820
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	205.71	.26428	136.71	.25939	F 13.376	F 1327.8	F -43439.
Stddev	18.40	.00060	7.95	.00188	16.493	8.1	128.
%RSD	8.9422	.22666	5.8118	.72401	123.31	.60669	.29579

#1	184.68	.26409	129.55	.26136	-4.3277	1336.5	-43559.
#2	213.58	.26495	145.26	.25762	28.307	1326.2	-43454.
#3	218.85	.26380	135.32	.25918	16.147	1320.6	-43303.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Fail	Chk Fail
High Limit					9.0000	9.0000	9.0000
Low Limit					-0.00400	-0.00400	-0.00400

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3372	Tl1908
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.63392	.20111	16.326	.54051	2.9994	.49679	.26253
Stddev	.00898	.00295	.098	.00135	.2792	.04642	.00131
%RSD	1.4163	1.4652	.60016	.25064	9.3091	9.3449	.50029

#1	.64371	.20411	16.437	.54189	2.6808	.44410	.26353
#2	.62608	.20099	16.291	.54044	3.1163	.51458	.26104
#3	.63197	.19823	16.250	.53919	3.2012	.53169	.26302

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm
Avg	.50324	.53716	F -.18954
Stddev	.00547	.00198	.93003
%RSD	1.0863	.36923	490.68

#1	.50946	.53926	.85953
#2	.50107	.53690	-.51524
#3	.49920	.53532	-.91292

Check ?	Chk Pass	Chk Pass	Chk Fail
High Limit			45.000
Low Limit			-0.00400

Approved: July 27, 2012



Sample Name: L1207065810MS Acquired: 7/25/2012 16:59:41 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1999) Mode: CONC Corr. Factor: 1.000000
User: KHR Custom ID1: Custom ID2: Custom ID3:
Comment: WG404234-04

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	23633.	14638.
Stddev	173.	584.
%RSD	.73335	3.9880
#1	23434.	15310.
#2	23747.	14264.
#3	23718.	14338.

Approved: July 27, 2012



Sample Name: L1207065810MSD Acquired: 7/25/2012 17:02:44 Type: Unk
 Method: ICP-THERMO2_6010_200.7(v1999) Mode: CONC Corr. Factor: 1.000000
 User: KHR Custom ID1: Custom ID2: Custom ID3:
 Comment: WG404234-05

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.20485	5.0681	.19418	1.1304	.58230	.02663	76.020
Stddev	.00599	.3353	.00148	.0305	.03979	.00066	5.260
%RSD	2.9228	6.6156	.76293	2.6997	6.8340	2.4910	6.9190

#1	.19857	4.6966	.19589	1.0965	.53653	.02590	70.002
#2	.20548	5.1596	.19337	1.1389	.60165	.02680	78.320
#3	.21050	5.3481	.19329	1.1557	.60872	.02719	79.738

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	Hf2322	Hf2641
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.02485	.09754	.25385	.24338	3.9422	2.7840	2.0415
Stddev	.00012	.00018	.00550	.00024	.2635	.0069	.5472
%RSD	.48331	.18421	2.1679	.09978	6.6845	.24608	26.804

#1	.02478	.09734	.24766	.24314	3.6414	2.7868	1.7283
#2	.02499	.09758	.25571	.24363	4.0532	2.7763	2.6733
#3	.02478	.09769	.25819	.24337	4.1321	2.7891	1.7228

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Hf2773	Hf3399	K_7664	Li6707	Mg2790	Mn2576	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.1413	F -1.2486	28.953	.56997	29.848	.31140	.49399
Stddev	.7192	1.0617	2.034	.04610	2.178	.02388	.00092
%RSD	63.020	85.035	7.0260	8.0889	7.2967	7.6689	.18529

#1	1.9699	-1.6177	26.614	.51675	27.350	.28396	.49413
#2	.77581	-.05154	29.934	.59555	30.843	.32278	.49483
#3	.67816	-2.0764	30.311	.59761	31.350	.32747	.49302

Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit		45.000					
Low Limit		-.10000					

Approved: July 27, 2012



Sample Name: L1207065810MSD Acquired: 7/25/2012 17:02:44 Type: Unk
 Method: ICP-THERMO2_6010_200.7(v1999) Mode: CONC Corr. Factor: 1.000000
 User: KHR Custom ID1: Custom ID2: Custom ID3:
 Comment: WG404234-05

Elem	Na5895	Ni2316	P_2149	Pb2203	Rb7800	S_1807	S_1820
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	205.28	.25545	138.99	.25215	F 11.372	F 1322.8	F -43192.
Stddev	13.82	.00076	13.04	.00474	1.236	5.0	36.
%RSD	6.7329	.29726	9.3804	1.8786	10.866	.38124	.08428

#1	189.40	.25472	125.79	.25688	11.110	1317.2	-43232.
#2	211.78	.25623	151.86	.25216	10.288	1324.2	-43161.
#3	214.64	.25541	139.32	.24740	12.718	1327.0	-43183.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Fail	Chk Fail
High Limit					9.0000	9.0000	9.0000
Low Limit					-0.00400	-0.00400	-0.00400

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3372	Tl1908
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.61497	.19510	16.119	.52400	2.9984	.48900	.25377
Stddev	.00126	.00258	.086	.00034	.2052	.04056	.00059
%RSD	.20510	1.3237	.53588	.06542	6.8433	8.2936	.23446

#1	.61522	.19552	16.032	.52383	2.7623	.44370	.25426
#2	.61609	.19233	16.120	.52377	3.0993	.50135	.25393
#3	.61361	.19745	16.205	.52439	3.1336	.52193	.25311

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm
Avg	.49091	.51876	F -.40020
Stddev	.01053	.00053	.76718
%RSD	2.1448	.10188	191.70

#1	.47905	.51849	-.63662
#2	.49449	.51937	.45736
#3	.49917	.51842	-1.0213

Check ?	Chk Pass	Chk Pass	Chk Fail
High Limit			45.000
Low Limit			-0.00400

Approved: July 27, 2012



Sample Name: L1207065810MSD Acquired: 7/25/2012 17:02:44 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1999) Mode: CONC Corr. Factor: 1.000000
User: KHR Custom ID1: Custom ID2: Custom ID3:
Comment: WG404234-05

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	24004.	15031.
Stddev	289.	435.
%RSD	1.2042	2.8956
#1	24336.	15533.
#2	23809.	14791.
#3	23866.	14768.

Approved: July 27, 2012



Sample Name: L1207065811 Acquired: 7/25/2012 17:05:47 Type: Unk
 Method: ICP-THERMO2_6010_200.7(v1999) Mode: CONC Corr. Factor: 1.000000
 User: KHR Custom ID1: Custom ID2: Custom ID3:
 Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.00040	-.00751	-.00269	.00821	.00134	-.00002	.05109
Stddev	.00175	.05098	.00094	.00158	.00034	.00003	.11279
%RSD	438.10	678.48	34.783	19.197	25.511	131.01	220.77

#1	-.00230	-.02190	-.00261	.00891	.00172	-.00004	.17261
#2	-.00004	.04911	-.00366	.00640	.00123	.00001	.03091
#3	.00114	-.04975	-.00179	.00931	.00107	-.00004	-.05025

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	Hf2322	Hf2641
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00012	-.00024	.00037	-.00012	-.00743	-.00602	.41067
Stddev	.00013	.00022	.00062	.00084	.01622	.00383	.55503
%RSD	108.10	93.177	167.47	695.60	218.48	63.648	135.15

#1	.00028	-.00040	.00107	-.00037	.00834	-.00211	.47019
#2	.00005	.00002	-.00012	.00082	-.00655	-.00618	-.17172
#3	.00004	-.00034	.00017	-.00081	-.02407	-.00977	.93355

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Hf2773	Hf3399	K_7664	Li6707	Mg2790	Mn2576	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.65536	F -.18915	.47719	-.00425	-.01923	.00057	.00039
Stddev	.52327	.79205	.19246	.00289	.03995	.00110	.00062
%RSD	79.845	418.73	40.332	68.034	207.69	193.12	157.04

#1	1.1771	-.26218	.68194	-.00124	.02556	.00182	.00024
#2	.65842	-.94217	.44966	-.00451	-.05115	.00018	.00107
#3	.13056	.63688	.29998	-.00700	-.03211	-.00028	-.00014

Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit		45.000					
Low Limit		-.10000					

Approved: July 27, 2012



Sample Name: L1207065811 Acquired: 7/25/2012 17:05:47 Type: Unk
 Method: ICP-THERMO2_6010_200.7(v1999) Mode: CONC Corr. Factor: 1.000000
 User: KHR Custom ID1: Custom ID2: Custom ID3:
 Comment:

Elem	Na5895	Ni2316	P_2149	Pb2203	Rb7800	S_1807	S_1820
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.52382	.00036	4.5793	-.00142	F 14.898	.12683	F -1.5627
Stddev	.25760	.00235	12.582	.00243	5.236	.04137	2.4653
%RSD	49.176	661.14	274.77	171.39	35.148	32.618	157.76

#1	.81961	-.00153	19.089	.00034	10.101	.15864	1.2716
#2	.40311	-.00040	-3.3161	-.00040	14.107	.14177	-2.7505
#3	.34875	.00299	-2.0353	-.00419	20.484	.08006	-3.2094

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Fail
High Limit					9.0000		9.0000
Low Limit					-.00400		-.00400

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3372	Tl1908
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00193	-.00067	.01380	-.00082	.00332	-.00101	.00033
Stddev	.00168	.00134	.00202	.00038	.00304	.00302	.00070
%RSD	86.859	200.20	14.668	46.215	91.569	299.94	210.08

#1	.00005	-.00021	.01549	-.00117	.00683	.00168	.00031
#2	.00327	-.00218	.01435	-.00088	.00160	-.00043	.00104
#3	.00248	.00038	.01155	-.00041	.00153	-.00427	-.00036

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm
Avg	-.00055	.00268	F -.81659
Stddev	.00038	.00013	.22068
%RSD	69.613	4.6782	27.025

#1	-.00029	.00254	-.97635
#2	-.00038	.00278	-.56478
#3	-.00099	.00272	-.90864

Check ?	Chk Pass	Chk Pass	Chk Fail
High Limit			45.000
Low Limit			-.00400

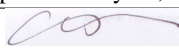
Approved: July 27, 2012



Sample Name: L1207065811 Acquired: 7/25/2012 17:05:47 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1999) Mode: CONC Corr. Factor: 1.000000
User: KHR Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	25360.	15288.
Stddev	75.	395.
%RSD	.29556	2.5856
#1	25275.	15741.
#2	25389.	15109.
#3	25416.	15014.

Approved: July 27, 2012



Sample Name: L1207065812 Acquired: 7/25/2012 17:08:55 Type: Unk
 Method: ICP-THERMO2_6010_200.7(v1999) Mode: CONC Corr. Factor: 1.000000
 User: KHR Custom ID1: Custom ID2: Custom ID3:
 Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00066	3.5444	.00796	.02849	.11796	.00027	15.663
Stddev	.00223	.2898	.00389	.00199	.00942	.00004	1.263
%RSD	339.13	8.1764	48.889	6.9760	7.9837	13.354	8.0642

#1	.00025	3.2101	.01212	.02647	.10725	.00030	14.222
#2	-.00134	3.7243	.00442	.03044	.12165	.00029	16.188
#3	.00306	3.6989	.00732	.02854	.12496	.00023	16.579

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	Hf2322	Hf2641
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00033	.00780	.01677	.00482	5.3086	.28133	.53749
Stddev	.00013	.00008	.00078	.00042	.4307	.00584	.12546
%RSD	38.796	1.0080	4.6759	8.7112	8.1137	2.0747	23.342

#1	.00033	.00771	.01684	.00512	4.8173	.28446	.39787
#2	.00020	.00785	.01751	.00434	5.4870	.27459	.64076
#3	.00045	.00783	.01595	.00501	5.6214	.28492	.57383

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Hf2773	Hf3399	K_7664	Li6707	Mg2790	Mn2576	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.1751	.69910	9.1478	.03376	4.0753	.31445	.00435
Stddev	.2898	1.1066	.9231	.01023	.4094	.02375	.00026
%RSD	24.663	158.29	10.091	30.311	10.045	7.5524	5.9958

#1	1.1830	1.4074	8.0851	.02199	3.6218	.28757	.00429
#2	1.4608	1.2660	9.6078	.04057	4.1864	.32318	.00412
#3	.88138	-.57612	9.7504	.03872	4.4176	.33260	.00463

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: July 27, 2012



Sample Name: L1207065812 Acquired: 7/25/2012 17:08:55 Type: Unk
 Method: ICP-THERMO2_6010_200.7(v1999) Mode: CONC Corr. Factor: 1.000000
 User: KHR Custom ID1: Custom ID2: Custom ID3:
 Comment:

Elem	Na5895	Ni2316	P_2149	Pb2203	Rb7800	S_1807	S_1820
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	66.740	.00673	332.53	.00564	5.6894	F 334.57	F -10998.
Stddev	5.362	.00021	10.54	.00273	15.065	3.29	24.
%RSD	8.0348	3.0832	3.1695	48.443	264.78	.98193	.21678

#1	60.637	.00659	323.88	.00613	-8.3852	335.61	-11005.
#2	68.890	.00697	329.44	.00270	3.8739	337.21	-11017.
#3	70.694	.00663	344.26	.00811	21.580	330.89	-10971.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Fail
High Limit						9.0000	9.0000
Low Limit						-0.0400	-0.0400

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3372	Tl1908
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00273	-.00223	40.103	-.00072	.28101	.05641	.00209
Stddev	.00223	.00254	.400	.00039	.02279	.00658	.00300
%RSD	81.477	113.55	.99847	54.288	8.1106	11.671	143.33

#1	.00016	-.00410	40.231	-.00095	.25536	.04980	-.00070
#2	.00410	-.00326	40.424	-.00095	.28871	.05646	.00527
#3	.00394	.00065	39.654	-.00027	.29895	.06297	.00171

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm
Avg	.01019	.04204	2.2688
Stddev	.00054	.00030	.6772
%RSD	5.3157	.70910	29.848

#1	.01026	.04212	1.6620
#2	.01069	.04230	2.9994
#3	.00961	.04172	2.1451

Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Approved: July 27, 2012



Sample Name: L1207065812 Acquired: 7/25/2012 17:08:55 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1999) Mode: CONC Corr. Factor: 1.000000
User: KHR Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	25222.	15720.
Stddev	70.	557.
%RSD	.27806	3.5402
#1	25188.	16360.
#2	25175.	15453.
#3	25303.	15348.

Approved: July 27, 2012



Sample Name: L1207065812PS Acquired: 7/25/2012 17:11:59 Type: Unk
 Method: ICP-THERMO2_6010_200.7(v1999) Mode: CONC Corr. Factor: 1.000000
 User: KHR Custom ID1: Custom ID2: Custom ID3:
 Comment: WG404495-01

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.19715	8.0397	.19601	1.0105	.60952	.02613	18.986
Stddev	.01064	.6108	.00296	.0483	.04600	.00125	1.401
%RSD	5.3958	7.5972	1.5126	4.7781	7.5470	4.7719	7.3769

#1	.19122	7.3360	.19939	.98650	.55680	.02549	17.390
#2	.20943	8.3502	.19381	1.0661	.63025	.02757	19.556
#3	.19081	8.4328	.19484	.97897	.64150	.02534	20.011

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	Hf2322	Hf2641
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.02442	.10486	.25786	.24892	6.8102	.74312	.80362
Stddev	.00023	.00030	.01324	.00116	.5257	.00591	.95630
%RSD	.94331	.29047	5.1357	.46621	7.7188	.79567	119.00

#1	.02437	.10505	.25099	.25026	6.2071	.74603	-.28074
#2	.02422	.10501	.27312	.24832	7.0521	.73632	1.5265
#3	.02468	.10450	.24946	.24818	7.1714	.74702	1.1651

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Hf2773	Hf3399	K_7664	Li6707	Mg2790	Mn2576	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.4497	.62076	33.287	.52472	8.8907	.53080	.49119
Stddev	.6223	1.8832	2.564	.03438	.6326	.03941	.00072
%RSD	42.922	303.37	7.7039	6.5517	7.1156	7.4245	.14710

#1	1.2282	-1.0410	30.356	.48540	8.1619	.48575	.49187
#2	.96861	2.6663	34.389	.53965	9.2121	.54776	.49128
#3	2.1525	.23706	35.117	.54911	9.2981	.55889	.49043

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: July 27, 2012



Sample Name: L1207065812PS Acquired: 7/25/2012 17:11:59 Type: Unk
 Method: ICP-THERMO2_6010_200.7(v1999) Mode: CONC Corr. Factor: 1.000000
 User: KHR Custom ID1: Custom ID2: Custom ID3:
 Comment: WG404495-01

Elem	Na5895	Ni2316	P_2149	Pb2203	Rb7800	S_1807	S_1820
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	85.183	.26576	309.69	.25795	5.3586	F 310.85	F -9994.8
Stddev	6.394	.00161	11.44	.00178	14.974	2.20	69.1
%RSD	7.5060	.60523	3.6934	.69138	279.43	.70798	.69088

#1	77.859	.26677	322.85	.25888	-10.163	312.27	-10051.
#2	88.038	.26391	304.01	.25589	19.716	308.31	-9917.6
#3	89.652	.26662	302.19	.25907	6.5225	311.96	-10016.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Fail
High Limit						9.0000	9.0000
Low Limit						-.00400	-.00400

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3372	Tl1908
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.60889	.19735	40.262	.00127	.75799	.53359	.26100
Stddev	.00498	.00529	.234	.00067	.05599	.03875	.00069
%RSD	.81769	2.6781	.58152	52.713	7.3865	7.2625	.26533

#1	.61282	.19944	40.245	.00142	.69368	.48967	.26164
#2	.60329	.19134	40.037	.00054	.78443	.54816	.26027
#3	.61056	.20128	40.504	.00185	.79587	.56295	.26110

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm
Avg	.47508	.55335	2.7309
Stddev	.02226	.00107	.1717
%RSD	4.6850	.19293	6.2859

#1	.46512	.55448	2.8539
#2	.50058	.55320	2.5348
#3	.45954	.55236	2.8040

Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Approved: July 27, 2012



Sample Name: L1207065812PS Acquired: 7/25/2012 17:11:59 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1999) Mode: CONC Corr. Factor: 1.000000
User: KHR Custom ID1: Custom ID2: Custom ID3:
Comment: WG404495-01

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	25493.	15576.
Stddev	1057.	459.
%RSD	4.1460	2.9450
#1	26147.	16053.
#2	24273.	15536.
#3	26058.	15138.

Approved: July 27, 2012



Sample Name: L1207065812SDL Acquired: 7/25/2012 17:15:02 Type: Unk
 Method: ICP-THERMO2_6010_200.7(v1999) Mode: CONC Corr. Factor: 1.000000
 User: KHR Custom ID1: 5 Custom ID2: Custom ID3:
 Comment: WG404495-02

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00110	.74270	.00193	.01273	.02447	.00006	3.2391
Stddev	.00037	.03214	.00133	.00046	.00137	.00002	.1917
%RSD	33.964	4.3277	68.919	3.6221	5.6179	36.771	5.9187

#1	.00086	.71733	.00050	.01257	.02289	.00004	3.0285
#2	.00091	.73191	.00313	.01325	.02511	.00006	3.2851
#3	.00153	.77884	.00215	.01238	.02541	.00009	3.4036

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	Hf2322	Hf2641
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00005	.00167	.00338	.00070	1.0795	.05593	.11205
Stddev	.00010	.00016	.00021	.00021	.0748	.00341	.38467
%RSD	214.66	9.3440	6.2291	30.393	6.9288	6.0886	343.32

#1	-.00007	.00157	.00343	.00089	.99585	.05881	.02492
#2	.00012	.00159	.00315	.00074	1.1029	.05680	.53280
#3	.00009	.00185	.00356	.00047	1.1399	.05217	-.22159

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Hf2773	Hf3399	K_7664	Li6707	Mg2790	Mn2576	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.75469	F -.74359	2.2896	.00552	.84390	.06558	.00097
Stddev	.59930	1.9121	.1891	.00481	.06460	.00340	.00033
%RSD	79.409	257.14	8.2598	87.198	7.6549	5.1815	33.432

#1	.07754	1.4633	2.0745	.00463	.77296	.06169	.00118
#2	.96978	-1.7908	2.4296	.00121	.85940	.06713	.00114
#3	1.2168	-1.9033	2.3647	.01071	.89933	.06793	.00060

Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit		45.000					
Low Limit		-.10000					

Approved: July 27, 2012



Sample Name: L1207065812SDL Acquired: 7/25/2012 17:15:02 Type: Unk
 Method: ICP-THERMO2_6010_200.7(v1999) Mode: CONC Corr. Factor: 1.000000
 User: KHR Custom ID1: 5 Custom ID2: Custom ID3:
 Comment: WG404495-02

Elem	Na5895	Ni2316	P_2149	Pb2203	Rb7800	S_1807	S_1820
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	14.364	.00153	77.933	.00091	4.6025	F 68.386	F -2235.0
Stddev	1.044	.00107	15.370	.00112	7.8900	.477	9.1
%RSD	7.2657	69.694	19.722	122.51	171.43	.69765	.40530

#1	13.187	.00227	82.625	-.00033	3.4172	68.936	-2244.2
#2	14.727	.00031	60.764	.00184	-2.6278	68.080	-2234.9
#3	15.177	.00202	90.410	.00123	13.018	68.141	-2226.1

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Fail
High Limit						9.0000	9.0000
Low Limit						-.00400	-.00400

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3372	Tl1908
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00180	-.00188	8.2701	-.00065	.05902	.00855	.00275
Stddev	.00179	.00089	.0388	.00039	.00388	.00420	.00060
%RSD	99.779	47.308	.46883	59.872	6.5675	49.165	21.876

#1	.00306	-.00148	8.3144	-.00056	.05461	.00999	.00225
#2	-.00026	-.00126	8.2529	-.00031	.06061	.00382	.00342
#3	.00259	-.00290	8.2428	-.00107	.06186	.01185	.00258

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm
Avg	.00171	.01001	F -.02698
Stddev	.00070	.00008	.31788
%RSD	41.007	.76760	1178.4

#1	.00251	.01010	.18875
#2	.00122	.00997	-.39203
#3	.00139	.00996	.12235

Check ?	Chk Pass	Chk Pass	Chk Fail
High Limit			45.000
Low Limit			-.00400

Approved: July 27, 2012



Sample Name: L1207065812SDL Acquired: 7/25/2012 17:15:02 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1999) Mode: CONC Corr. Factor: 1.000000
User: KHR Custom ID1: 5 Custom ID2: Custom ID3:
Comment: WG404495-02

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	25206.	16097.
Stddev	659.	660.
%RSD	2.6128	4.1023
#1	25947.	16854.
#2	24985.	15795.
#3	24687.	15641.

Approved: July 27, 2012



Sample Name: CCV Acquired: 7/25/2012 17:18:13 Type: QC
 Method: ICP-THERMO2_6010_200.7(v1999) Mode: CONC Corr. Factor: 1.000000
 User: KHR Custom ID1: Custom ID2: Custom ID3:
 Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.39326	9.6688	.38834	.50109	.99862	.05102	9.7997
Stddev	.00161	.9644	.00161	.00406	.08758	.00020	.7811
%RSD	.40985	9.9742	.41543	.81084	8.7700	.39419	7.9706

#1	.39224	8.5653	.38759	.50005	.89843	.05083	8.9050
#2	.39511	10.091	.39019	.50557	1.0368	.05123	10.149
#3	.39242	10.350	.38723	.49765	1.0606	.05100	10.345

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	Hf2322	Hf2641
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.04912	.19627	.49422	.49265	4.0193	.98033	F .72843
Stddev	.00013	.00021	.00102	.00048	.3622	.00735	.33289
%RSD	.27466	.10915	.20690	.09669	9.0120	.74930	45.700

#1	.04908	.19615	.49469	.49311	3.6060	.97196	1.0851
#2	.04901	.19652	.49493	.49216	4.1699	.98567	.42598
#3	.04927	.19615	.49305	.49268	4.2818	.98337	.67421

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
Value							1.0000
Range							-10.000%

Elem	Hf2773	Hf3399	K_7664	Li6707	Mg2790	Mn2576	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F 1.2987	F 1.5529	50.146	.96598	10.289	.48488	.98218
Stddev	.5852	2.0777	4.266	.09006	.851	.04126	.00101
%RSD	45.058	133.79	8.5072	9.3234	8.2696	8.5096	.10247

#1	.70652	3.5683	45.266	.86344	9.3174	.43815	.98173
#2	1.3130	-5.8197	52.002	1.0022	10.647	.50020	.98334
#3	1.8766	1.6724	53.168	1.0323	10.902	.51629	.98149

Check ?	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	1.0000	1.0000					
Range	10.000%	10.000%					

Approved: July 27, 2012



Sample Name: CCV Acquired: 7/25/2012 17:18:13 Type: QC
 Method: ICP-THERMO2_6010_200.7(v1999) Mode: CONC Corr. Factor: 1.000000
 User: KHR Custom ID1: Custom ID2: Custom ID3:
 Comment:

Elem	Na5895	Ni2316	P_2149	Pb2203	Rb7800	S_1807	S_1820
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	51.211	.51216	F 20.616	.50824	F 16.638	10.250	F 7.5813
Stddev	4.389	.00325	22.819	.00645	5.513	.057	1.3851
%RSD	8.5710	.63412	110.69	1.2699	33.136	.55177	18.271

#1	46.198	.51555	42.210	.51278	11.597	10.185	6.1665
#2	53.070	.51186	22.894	.51110	15.791	10.290	7.6425
#3	54.365	.50908	-3.2578	.50085	22.526	10.275	8.9348

Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Fail	Chk Pass	Chk Fail
Value			10.000		10.000		10.000
Range			10.000%		10.000%		-10.000%

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3372	Ti1908
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.2337	.39110	F 5.5135	1.0176	1.0187	.95978	.52092
Stddev	.0073	.00481	.0838	.0030	.0900	.08231	.00721
%RSD	.59447	1.2289	1.5197	.29510	8.8386	8.5755	1.3838

#1	1.2420	.39664	5.5923	1.0190	.91611	.86623	.52923
#2	1.2310	.38809	5.5227	1.0196	1.0555	.99205	.51637
#3	1.2281	.38856	5.4255	1.0141	1.0845	1.0211	.51716


Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value			5.0000				
Range			10.000%				

Elem	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm
Avg	.95069	1.0039	F .24314
Stddev	.00288	.0030	1.3296
%RSD	.30322	.30032	546.84

#1	.94797	1.0070	-.81676
#2	.95040	1.0037	1.7350
#3	.95371	1.0010	-.18882

Check ?	Chk Pass	Chk Pass	Chk Fail
Value			1.0000
Range			-10.000%


Approved: July 27, 2012



Sample Name: CCV Acquired: 7/25/2012 17:18:13 Type: QC
Method: ICP-THERMO2_6010_200.7(v1999) Mode: CONC Corr. Factor: 1.000000
User: KHR Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	24786.	15174.
Stddev	118.	496.
%RSD	.47740	3.2656
#1	24661.	15738.
#2	24798.	14975.
#3	24897.	14809.

Approved: July 27, 2012



Sample Name: CCB Acquired: 7/25/2012 17:21:17 Type: Blank
 Method: ICP-THERMO2_6010_200.7(v1999) Mode: CONC Corr. Factor: 1.000000
 User: KHR Custom ID1: Custom ID2: Custom ID3:
 Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00138	-.00207	.00014	.00632	.00114	-.00001	.00869
Stddev	.00127	.01568	.00032	.00056	.00085	.00005	.02717
%RSD	92.051	755.83	234.72	8.8196	74.203	816.14	312.85

#1	.00222	-.00443	-.00022	.00692	.00210	.00000	.03484
#2	-.00008	.01465	.00040	.00621	.00085	.00004	-.01940
#3	.00202	-.01645	.00023	.00582	.00048	-.00005	.01062

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	Hf2322	Hf2641
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00017	-.00003	-.00066	.00068	-.00545	-.00793	F .85114
Stddev	.00008	.00008	.00108	.00089	.00884	.00716	.21184
%RSD	50.097	256.62	164.81	131.35	162.01	90.372	24.890

#1	.00013	-.00001	-.00167	.00087	-.00197	-.00457	.93005
#2	.00011	-.00012	-.00078	.00145	.00111	-.00305	1.0122
#3	.00027	.00003	.00048	-.00029	-.01550	-.01615	.61117

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit							.10000
Low Limit							-.10000

Elem	Hf2773	Hf3399	K_7664	Li6707	Mg2790	Mn2576	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F .61814	F .13039	.47893	-.00181	-.01079	.00032	.00036
Stddev	.73238	.80182	.07042	.00325	.05485	.00113	.00047
%RSD	118.48	614.95	14.704	179.58	508.17	357.15	132.06

#1	.25573	.79027	.54598	.00122	.04536	.00154	.00021
#2	1.4611	-.76199	.48527	-.00140	-.06425	.00009	.00089
#3	.13762	.36288	.40556	-.00524	-.01349	-.00068	-.00002

Check ?	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	.10000	.10000					
Low Limit	-.10000	-.10000					

Approved: July 27, 2012



Sample Name: CCB Acquired: 7/25/2012 17:21:17 Type: Blank
 Method: ICP-THERMO2_6010_200.7(v1999) Mode: CONC Corr. Factor: 1.000000
 User: KHR Custom ID1: Custom ID2: Custom ID3:
 Comment:

Elem	Na5895	Ni2316	P_2149	Pb2203	Rb7800	S_1807	S_1820
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.24293	-.00007	F 10.310	.00177	F 13.782	F .04166	F 4.5286
Stddev	.07156	.00081	14.110	.00045	20.780	.04399	1.9413
%RSD	29.457	1224.0	136.86	25.307	150.77	105.60	42.868

#1	.32548	.00082	12.081	.00190	-9.8615	.03471	6.0306
#2	.20483	-.00076	23.450	.00214	22.067	.00156	5.2188
#3	.19849	-.00025	-4.6021	.00128	29.142	.08871	2.3365

Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Fail	Chk Fail	Chk Fail
High Limit			.01000		.01000	.01000	.01000
Low Limit			-.01000		-.01000	-.01000	-.01000

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3372	Tl1908
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.00054	.00049	.01583	-.00059	.00185	.00121	-.00135
Stddev	.00204	.00121	.00510	.00045	.00112	.00278	.00022
%RSD	378.79	248.69	32.229	77.340	60.653	229.79	15.946

#1	.00138	-.00036	.02074	-.00098	.00315	.00058	-.00159
#2	-.00031	-.00005	.01620	-.00009	.00131	.00425	-.00129
#3	-.00268	.00188	.01056	-.00069	.00111	-.00120	-.00117

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm
Avg	.00033	.00008	F -1.0204
Stddev	.00099	.00014	.4626
%RSD	299.61	170.29	45.336

#1	.00145	-.00006	-1.0332
#2	-.00007	.00021	-1.4764
#3	-.00040	.00008	-.55149

Check ?	Chk Pass	Chk Pass	Chk Fail
High Limit			.10000
Low Limit			-.10000

Approved: July 27, 2012



Sample Name: CCB Acquired: 7/25/2012 17:21:17 Type: Blank
Method: ICP-THERMO2_6010_200.7(v1999) Mode: CONC Corr. Factor: 1.000000
User: KHR Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	24848.	15245.
Stddev	14.	607.
%RSD	.05768	3.9787
#1	24856.	15940.
#2	24831.	14971.
#3	24857.	14823.

Approved: July 27, 2012



Sample Name: L1207065814 Acquired: 7/25/2012 17:24:33 Type: Unk
 Method: ICP-THERMO2_6010_200.7(v1999) Mode: CONC Corr. Factor: 1.000000
 User: KHR Custom ID1: Custom ID2: Custom ID3:
 Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00079	4.3585	.00493	.03510	.09343	.00046	11.812
Stddev	.00107	.4407	.00145	.00182	.00865	.00000	1.061
%RSD	134.48	10.110	29.466	5.1783	9.2590	.49295	8.9808

#1	.00109	3.8498	.00372	.03300	.08351	.00046	10.599
#2	-.00039	4.6030	.00654	.03608	.09745	.00046	12.267
#3	.00167	4.6228	.00454	.03622	.09935	.00046	12.569

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	Hf2322	Hf2641
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00055	.00642	.01213	.00664	15.507	.51528	F -.12356
Stddev	.00006	.00034	.00008	.00097	1.503	.00271	.26815
%RSD	10.574	5.2208	.68250	14.650	9.6903	.52628	217.02

#1	.00060	.00645	.01219	.00756	13.783	.51225	.12523
#2	.00057	.00675	.01218	.00562	16.202	.51609	-.08831
#3	.00049	.00608	.01204	.00673	16.536	.51749	-.40759

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit							45.000
Low Limit							-.10000

Elem	Hf2773	Hf3399	K_7664	Li6707	Mg2790	Mn2576	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.35994	.23053	1.7855	.02973	7.3372	.18305	.00044
Stddev	.77055	.33238	.1948	.00349	.6769	.01622	.00010
%RSD	214.08	144.18	10.908	11.736	9.2251	8.8613	23.768

#1	-.35672	.02282	1.5944	.02576	6.5672	.16445	.00038
#2	.26159	.61389	1.7783	.03234	7.6059	.19042	.00056
#3	1.1749	.05488	1.9837	.03107	7.8384	.19427	.00038

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: July 27, 2012



Sample Name: L1207065814 Acquired: 7/25/2012 17:24:33 Type: Unk
 Method: ICP-THERMO2_6010_200.7(v1999) Mode: CONC Corr. Factor: 1.000000
 User: KHR Custom ID1: Custom ID2: Custom ID3:
 Comment:

Elem	Na5895	Ni2316	P_2149	Pb2203	Rb7800	S_1807	S_1820
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	59.772	.01211	789.31	.00732	F -.61265	F 307.99	F -10167.
Stddev	5.574	.00063	18.65	.00192	6.5265	2.67	17.
%RSD	9.3247	5.1611	2.3624	26.224	1065.3	.86767	.16913

#1	53.380	.01255	809.18	.00669	-8.1468	305.55	-10148.
#2	62.323	.01140	772.19	.00580	3.3080	307.57	-10177.
#3	63.614	.01238	786.56	.00948	3.0008	310.84	-10178.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Fail	Chk Fail
High Limit					9.0000	9.0000	9.0000
Low Limit					-.00400	-.00400	-.00400

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3372	Tl1908
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00131	.00061	32.004	-.00004	.44184	.08675	.00191
Stddev	.00416	.00202	.296	.00046	.04239	.00885	.00270
%RSD	316.45	332.24	.92387	1149.3	9.5932	10.198	141.49

#1	-.00313	.00254	31.701	-.00055	.39323	.07664	.00318
#2	.00511	-.00149	32.020	.00008	.46121	.09055	.00375
#3	.00196	.00077	32.292	.00035	.47108	.09307	-.00119


Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm
Avg	.01788	.04825	.80935
Stddev	.00026	.00015	.33484
%RSD	1.4715	.31324	41.371

#1	.01765	.04808	.43117
#2	.01817	.04835	.92880
#3	.01782	.04833	1.0681

Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Approved: July 27, 2012



Sample Name: L1207065814 Acquired: 7/25/2012 17:24:33 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1999) Mode: CONC Corr. Factor: 1.000000
User: KHR Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	25378.	15971.
Stddev	82.	719.
%RSD	.32439	4.5016
#1	25302.	16801.
#2	25465.	15580.
#3	25367.	15533.

Approved: July 27, 2012



Sample Name: L1207065815 Acquired: 7/25/2012 17:27:37 Type: Unk
 Method: ICP-THERMO2_6010_200.7(v1999) Mode: CONC Corr. Factor: 1.000000
 User: KHR Custom ID1: Custom ID2: Custom ID3:
 Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00052	4.0915	.00296	.02789	.06879	.00035	14.635
Stddev	.00040	.3354	.00076	.00232	.00544	.00001	.953
%RSD	76.955	8.1976	25.634	8.3025	7.9035	3.3234	6.5104

#1	.00006	3.7216	.00236	.03016	.06260	.00036	13.567
#2	.00069	4.1773	.00270	.02798	.07093	.00034	14.944
#3	.00081	4.3757	.00381	.02554	.07282	.00034	15.396

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	Hf2322	Hf2641
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00064	.00286	.00758	.00486	7.4963	.48136	.51237
Stddev	.00016	.00007	.00096	.00034	.5011	.00836	.69293
%RSD	24.704	2.4325	12.686	7.0916	6.6839	1.7376	135.24

#1	.00069	.00280	.00868	.00490	6.9293	.49100	1.1862
#2	.00076	.00294	.00694	.00519	7.6802	.47612	-.19819
#3	.00046	.00284	.00711	.00450	7.8795	.47695	.54910

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Hf2773	Hf3399	K_7664	Li6707	Mg2790	Mn2576	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.1991	1.7820	2.1464	.02869	8.5237	.03589	.00048
Stddev	.4883	1.1436	.2104	.00543	.5923	.00258	.00017
%RSD	40.719	64.175	9.8008	18.934	6.9489	7.1944	34.818

#1	1.6644	1.9896	1.9070	.02248	7.8596	.03293	.00046
#2	1.2423	.54884	2.3018	.03103	8.7140	.03768	.00033
#3	.69070	2.8077	2.2304	.03255	8.9974	.03706	.00066

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: July 27, 2012



Sample Name: L1207065815 Acquired: 7/25/2012 17:27:37 Type: Unk
 Method: ICP-THERMO2_6010_200.7(v1999) Mode: CONC Corr. Factor: 1.000000
 User: KHR Custom ID1: Custom ID2: Custom ID3:
 Comment:

Elem	Na5895	Ni2316	P_2149	Pb2203	Rb7800	S_1807	S_1820
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	101.86	.00621	461.22	.00538	6.4458	F 500.17	F -16638.
Stddev	6.99	.00037	6.10	.00153	1.8408	1.06	5.
%RSD	6.8594	5.9544	1.3229	28.418	28.558	.21230	.03292

#1	93.969	.00609	463.94	.00710	7.1114	499.96	-16634.
#2	104.33	.00591	465.48	.00483	4.3648	501.32	-16636.
#3	107.27	.00662	454.23	.00420	7.8613	499.22	-16644.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Fail
High Limit						9.0000	9.0000
Low Limit						-0.0400	-0.0400

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3372	Tl1908
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.00341	.01863	26.422	-.00058	.47494	.06963	-.00098
Stddev	.00124	.00036	.161	.00074	.03251	.00323	.00184
%RSD	36.218	1.9221	.61012	128.18	6.8443	4.6456	186.87

#1	-.00254	.01874	26.329	-.00142	.43853	.06681	-.00235
#2	-.00287	.01893	26.608	-.00001	.48523	.07316	.00110
#3	-.00482	.01823	26.329	-.00031	.50105	.06892	-.00170

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm
Avg	.01175	.03721	1.7221
Stddev	.00039	.00004	.1451
%RSD	3.3581	.11716	8.4255

#1	.01209	.03716	1.6488
#2	.01132	.03724	1.8892
#3	.01184	.03724	1.6282

Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Approved: July 27, 2012



Sample Name: L1207065815 Acquired: 7/25/2012 17:27:37 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1999) Mode: CONC Corr. Factor: 1.000000
User: KHR Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	25254.	15437.
Stddev	95.	470.
%RSD	.37797	3.0437
#1	25160.	15979.
#2	25252.	15165.
#3	25351.	15166.

Approved: July 27, 2012



Sample Name: L1207065816 Acquired: 7/25/2012 17:30:42 Type: Unk
 Method: ICP-THERMO2_6010_200.7(v1999) Mode: CONC Corr. Factor: 1.000000
 User: KHR Custom ID1: Custom ID2: Custom ID3:
 Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00096	.68366	-.00202	.02688	.05735	.00005	14.232
Stddev	.00105	.05996	.00125	.00173	.00404	.00002	.970
%RSD	110.13	8.7709	61.579	6.4420	7.0498	43.060	6.8125

#1	-.00011	.62848	-.00137	.02815	.05292	.00007	13.128
#2	.00200	.67504	-.00346	.02759	.05827	.00005	14.626
#3	.00097	.74747	-.00124	.02491	.06085	.00003	14.944

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	Hf2322	Hf2641
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00096	.00071	.00099	.00156	.95580	.34590	.60131
Stddev	.00006	.00022	.00020	.00063	.06606	.00301	.18587
%RSD	6.1214	31.482	20.570	40.378	6.9119	.87010	30.910

#1	.00102	.00060	.00085	.00208	.88347	.34932	.65980
#2	.00098	.00057	.00090	.00175	.97097	.34368	.75090
#3	.00090	.00097	.00123	.00086	1.0130	.34469	.39323

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Hf2773	Hf3399	K_7664	Li6707	Mg2790	Mn2576	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.2560	1.0455	3.3758	.02890	6.0171	.05971	.00073
Stddev	.8168	1.7541	.1909	.00656	.4601	.00343	.00033
%RSD	65.033	167.77	5.6537	22.712	7.6468	5.7365	45.829

#1	.43108	3.0631	3.2250	.02507	5.4975	.05589	.00081
#2	2.0644	.19076	3.3120	.03648	6.1809	.06250	.00101
#3	1.2724	-.11737	3.5904	.02516	6.3730	.06075	.00036

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: July 27, 2012



Sample Name: L1207065816 Acquired: 7/25/2012 17:30:42 Type: Unk
 Method: ICP-THERMO2_6010_200.7(v1999) Mode: CONC Corr. Factor: 1.000000
 User: KHR Custom ID1: Custom ID2: Custom ID3:
 Comment:

Elem	Na5895	Ni2316	P_2149	Pb2203	Rb7800	S_1807	S_1820
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	101.25	.00155	329.92	.00346	7.2946	F 440.09	F -14688.
Stddev	7.08	.00011	8.26	.00179	14.877	1.51	27.
%RSD	6.9926	7.3864	2.5040	51.702	203.94	.34225	.18193

#1	93.195	.00142	338.51	.00519	-9.2151	441.49	-14689.
#2	104.06	.00160	329.20	.00355	11.440	440.30	-14660.
#3	106.49	.00164	322.03	.00162	19.659	438.49	-14713.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Fail
High Limit						9.0000	9.0000
Low Limit						-0.0400	-0.0400

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3372	Tl1908
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00039	.01766	22.080	-.00118	.37934	.00820	.00242
Stddev	.00334	.00417	.088	.00027	.02609	.00094	.00172
%RSD	845.58	23.614	.39911	22.905	6.8771	11.512	70.995

#1	.00217	.01931	22.129	-.00148	.34947	.00727	.00440
#2	.00246	.02076	22.133	-.00094	.39090	.00916	.00140
#3	-.00345	.01292	21.978	-.00113	.39764	.00817	.00146


Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm
Avg	.00332	.03694	.45983
Stddev	.00083	.00017	.57479
%RSD	24.906	.47310	125.00

#1	.00238	.03700	-.18083
#2	.00394	.03674	.62999
#3	.00364	.03708	.93033

Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Approved: July 27, 2012



Sample Name: L1207065816 Acquired: 7/25/2012 17:30:42 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1999) Mode: CONC Corr. Factor: 1.000000
User: KHR Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	24967.	15605.
Stddev	120.	547.
%RSD	.47864	3.5051
#1	25097.	16221.
#2	24862.	15416.
#3	24941.	15176.

Approved: July 27, 2012



Sample Name: L1207065817 Acquired: 7/25/2012 17:33:46 Type: Unk
 Method: ICP-THERMO2_6010_200.7(v1999) Mode: CONC Corr. Factor: 1.000000
 User: KHR Custom ID1: Custom ID2: Custom ID3:
 Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00170	9.9721	-.00032	.02656	.10001	.00079	8.1438
Stddev	.00215	.7730	.00041	.00159	.00741	.00003	.6031
%RSD	126.26	7.7514	126.42	6.0010	7.4050	3.7919	7.4059

#1	.00193	9.0799	-.00073	.02685	.09162	.00081	7.4555
#2	.00373	10.396	.00008	.02485	.10280	.00081	8.3964
#3	-.00055	10.440	-.00032	.02799	.10562	.00076	8.5796

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	Hf2322	Hf2641
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00033	.00634	.02080	.01026	12.244	.27309	-.05841
Stddev	.00014	.00006	.00012	.00012	.965	.00260	.42504
%RSD	41.707	.89906	.56002	1.1475	7.8779	.95316	727.65

#1	.00019	.00634	.02093	.01034	11.140	.27010	-.19869
#2	.00034	.00640	.02078	.01012	12.668	.27433	.41903
#3	.00047	.00628	.02070	.01031	12.924	.27484	-.39558

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Hf2773	Hf3399	K_7664	Li6707	Mg2790	Mn2576	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.1967	.44124	3.8730	.02440	5.0500	.16247	.00155
Stddev	1.0394	.68596	.2633	.00259	.4401	.01479	.00046
%RSD	86.860	155.46	6.7980	10.608	8.7157	9.1051	29.351

#1	.66982	.06980	3.5690	.02426	4.5419	.14547	.00192
#2	.52616	.02109	4.0304	.02706	5.3134	.16953	.00170
#3	2.3940	1.2328	4.0195	.02189	5.2948	.17241	.00104

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: July 27, 2012



Sample Name: L1207065817 Acquired: 7/25/2012 17:33:46 Type: Unk
 Method: ICP-THERMO2_6010_200.7(v1999) Mode: CONC Corr. Factor: 1.000000
 User: KHR Custom ID1: Custom ID2: Custom ID3:
 Comment:

Elem	Na5895	Ni2316	P_2149	Pb2203	Rb7800	S_1807	S_1820
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	86.581	.01431	652.59	.00956	1.0051	F 315.58	F -10588.
Stddev	6.379	.00017	13.23	.00161	4.9333	.40	27.
%RSD	7.3672	1.2179	2.0275	16.816	490.83	.12756	.25548

#1	79.279	.01440	651.42	.00772	-1.5363	315.13	-10560.
#2	89.400	.01411	639.98	.01066	6.6910	315.69	-10613.
#3	91.064	.01443	666.37	.01031	-2.1393	315.91	-10590.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Fail
High Limit						9.0000	9.0000
Low Limit						-0.0400	-0.0400

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3372	Tl1908
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.00141	.01894	42.617	-.00043	.21451	.14094	.00083
Stddev	.00066	.00089	.109	.00019	.01514	.01097	.00135
%RSD	47.061	4.7035	.25533	43.497	7.0584	7.7813	162.65

#1	-.00084	.01957	42.565	-.00032	.19708	.12829	.00197
#2	-.00126	.01933	42.544	-.00033	.22207	.14679	.00119
#3	-.00214	.01792	42.742	-.00064	.22438	.14774	-.00066

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm
Avg	.02468	.04891	3.3984
Stddev	.00044	.00038	.6316
%RSD	1.7706	.76888	18.586

#1	.02436	.04910	3.0692
#2	.02518	.04916	2.9994
#3	.02451	.04848	4.1267

Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Approved: July 27, 2012



Sample Name: L1207065817 Acquired: 7/25/2012 17:33:46 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1999) Mode: CONC Corr. Factor: 1.000000
User: KHR Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	25348.	15982.
Stddev	116.	584.
%RSD	.45946	3.6549
#1	25421.	16649.
#2	25214.	15735.
#3	25410.	15562.

Approved: July 27, 2012



Sample Name: L1207065818 Acquired: 7/25/2012 17:36:50 Type: Unk
 Method: ICP-THERMO2_6010_200.7(v1999) Mode: CONC Corr. Factor: 1.000000
 User: KHR Custom ID1: Custom ID2: Custom ID3:
 Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00110	.53132	.00037	.03111	.06283	.00004	32.459
Stddev	.00121	.04249	.00189	.00219	.00143	.00006	1.182
%RSD	110.13	7.9972	512.58	7.0534	2.2709	161.10	3.6431

#1	-.00029	.48739	-.00175	.03056	.06119	.00010	31.132
#2	.00165	.53437	.00187	.02924	.06351	-.00003	32.844
#3	.00193	.57221	.00099	.03353	.06380	.00005	33.401

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	Hf2322	Hf2641
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00071	.00102	.00144	.00049	1.1792	1.0715	1.1860
Stddev	.00010	.00017	.00015	.00079	.0196	.0005	.3884
%RSD	14.699	16.788	10.099	159.36	1.6649	.04887	32.750

#1	.00072	.00097	.00151	.00116	1.1621	1.0710	.75531
#2	.00060	.00121	.00128	-.00037	1.1749	1.0720	1.5097
#3	.00081	.00087	.00155	.00069	1.2007	1.0713	1.2931

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Hf2773	Hf3399	K_7664	Li6707	Mg2790	Mn2576	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.4621	F -.40208	2.2079	.06049	20.012	.04672	.00025
Stddev	.8637	2.0027	.0238	.00305	.849	.00246	.00030
%RSD	59.074	498.08	1.0758	5.0366	4.2416	5.2567	121.47

#1	2.3086	1.8723	2.2037	.06393	19.068	.04406	.00017
#2	1.4956	-1.1771	2.1866	.05813	20.255	.04721	.00058
#3	.58212	-1.9014	2.2335	.05941	20.712	.04890	-.00001

Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit		45.000					
Low Limit		-.10000					

Approved: July 27, 2012



Sample Name: L1207065818 Acquired: 7/25/2012 17:36:50 Type: Unk
 Method: ICP-THERMO2_6010_200.7(v1999) Mode: CONC Corr. Factor: 1.000000
 User: KHR Custom ID1: Custom ID2: Custom ID3:
 Comment:

Elem	Na5895	Ni2316	P_2149	Pb2203	Rb7800	S_1807	S_1820
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	149.87	.00099	272.20	.00200	F 19.184	F 901.60	F -29908.
Stddev	5.59	.00047	2.68	.00339	10.981	7.11	162.
%RSD	3.7330	47.613	.98554	169.93	57.240	.78840	.54007

#1	143.81	.00153	269.16	.00324	27.383	899.56	-29952.
#2	150.96	.00082	273.20	-.00184	6.7081	895.73	-29729.
#3	154.83	.00063	274.24	.00459	23.460	909.51	-30043.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Fail	Chk Fail
High Limit					9.0000	9.0000	9.0000
Low Limit					-.00400	-.00400	-.00400

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3372	Tl1908
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00326	.02330	21.019	-.00116	1.1730	.00911	-.00018
Stddev	.00261	.00126	.138	.00045	.0457	.00450	.00171
%RSD	80.012	5.4253	.65612	39.001	3.8914	49.446	962.64

#1	.00062	.02447	20.929	-.00089	1.1247	.00400	.00158
#2	.00334	.02347	20.950	-.00168	1.1789	.01081	-.00185
#3	.00584	.02196	21.178	-.00090	1.2154	.01251	-.00027

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm
Avg	.00240	.01817	F -.97563
Stddev	.00026	.00020	.56305
%RSD	11.017	1.0865	57.712

#1	.00216	.01813	-1.0718
#2	.00235	.01800	-1.4844
#3	.00268	.01839	-.37070

Check ?	Chk Pass	Chk Pass	Chk Fail
High Limit			45.000
Low Limit			-.00400

Approved: July 27, 2012



Sample Name: L1207065818 Acquired: 7/25/2012 17:36:50 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1999) Mode: CONC Corr. Factor: 1.000000
User: KHR Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	23673.	14965.
Stddev	412.	680.
%RSD	1.7390	4.5427
#1	24063.	14197.
#2	23243.	15491.
#3	23714.	15206.

Approved: July 27, 2012



Sample Name: L1207065819 Acquired: 7/25/2012 17:39:55 Type: Unk
 Method: ICP-THERMO2_6010_200.7(v1999) Mode: CONC Corr. Factor: 1.000000
 User: KHR Custom ID1: Custom ID2: Custom ID3:
 Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.00087	-.00405	-.00158	.05170	.07972	-.00002	77.639
Stddev	.00156	.04494	.00128	.00094	.00595	.00002	4.765
%RSD	178.03	1108.8	80.774	1.8271	7.4578	133.91	6.1375

#1	.00018	-.02746	-.00074	.05186	.07286	-.00002	72.142
#2	-.00266	-.03246	-.00096	.05068	.08342	-.00004	80.183
#3	-.00015	.04776	-.00305	.05255	.08288	.00001	80.593

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	Hf2322	Hf2641
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00098	.00039	-.00038	.00075	.13447	2.3419	3.6152
Stddev	.00015	.00008	.00032	.00082	.00974	.0052	.7475
%RSD	15.091	21.266	84.626	109.29	7.2462	.22288	20.676

#1	.00103	.00036	-.00005	.00123	.12621	2.3413	4.4173
#2	.00110	.00032	-.00040	.00121	.13198	2.3370	2.9382
#3	.00082	.00048	-.00068	-.00020	.14521	2.3474	3.4902

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Hf2773	Hf3399	K_7664	Li6707	Mg2790	Mn2576	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.2665	.65587	4.1960	.08034	43.075	.10757	-.00011
Stddev	.4686	.69595	.3796	.01045	2.404	.00671	.00032
%RSD	36.999	106.11	9.0476	13.003	5.5816	6.2351	288.87

#1	1.8054	.76013	3.7793	.07637	40.308	.09986	.00008
#2	1.0382	-.08633	4.2865	.09219	44.257	.11086	.00007
#3	.95578	1.2938	4.5223	.07246	44.659	.11201	-.00047

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: July 27, 2012



Sample Name: L1207065819 Acquired: 7/25/2012 17:39:55 Type: Unk
 Method: ICP-THERMO2_6010_200.7(v1999) Mode: CONC Corr. Factor: 1.000000
 User: KHR Custom ID1: Custom ID2: Custom ID3:
 Comment:

Elem	Na5895	Ni2316	P_2149	Pb2203	Rb7800	S_1807	S_1820
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	201.68	.00032	214.69	.00150	F 21.143	F 2044.1	F -67612.
Stddev	13.24	.00124	9.20	.00080	14.048	12.0	140.
%RSD	6.5635	383.12	4.2851	53.392	66.444	.58612	.20655

#1	186.44	.00113	218.40	.00182	22.322	2054.4	-67716.
#2	208.27	.00095	204.21	.00208	6.5425	2047.1	-67668.
#3	210.33	-.00111	221.45	.00059	34.565	2031.0	-67453.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Fail	Chk Fail
High Limit					9.0000	9.0000	9.0000
Low Limit					-.00400	-.00400	-.00400

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3372	Tl1908
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00143	-.00370	20.279	-.00109	2.6360	-.00124	.00324
Stddev	.00134	.00498	.144	.00027	.1870	.00101	.00008
%RSD	93.660	134.67	.71221	24.865	7.0926	81.466	2.4982

#1	.00209	-.00072	20.387	-.00110	2.4209	-.00074	.00333
#2	.00231	-.00093	20.334	-.00136	2.7277	-.00057	.00317
#3	-.00011	-.00944	20.115	-.00081	2.7593	-.00239	.00322

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm
Avg	-.00026	.00433	F -.71069
Stddev	.00062	.00011	.54371
%RSD	237.51	2.4632	76.504

#1	-.00036	.00437	-.26263
#2	-.00083	.00441	-.55386
#3	.00041	.00421	-1.3156

Check ?	Chk Pass	Chk Pass	Chk Fail
High Limit			45.000
Low Limit			-.00400

Approved: July 27, 2012



Sample Name: L1207065819 Acquired: 7/25/2012 17:39:55 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1999) Mode: CONC Corr. Factor: 1.000000
User: KHR Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	24113.	14970.
Stddev	210.	383.
%RSD	.87090	2.5580
#1	24267.	15072.
#2	24200.	15292.
#3	23874.	14547.

Approved: July 27, 2012



Sample Name: L1207065820 Acquired: 7/25/2012 17:43:00 Type: Unk
 Method: ICP-THERMO2_6010_200.7(v1999) Mode: CONC Corr. Factor: 1.000000
 User: KHR Custom ID1: Custom ID2: Custom ID3:
 Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00002	2.7983	.00658	.04025	.06653	.00015	4.5087
Stddev	.00180	.2404	.00151	.00427	.00700	.00003	.2652
%RSD	11782.	8.5905	22.958	10.615	10.522	21.172	5.8825

#1	-0.0204	2.5252	.00494	.04517	.05854	.00017	4.2036
#2	.00078	2.8917	.00689	.03805	.06943	.00017	4.6391
#3	.00131	2.9779	.00792	.03753	.07160	.00012	4.6835

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	Hf2322	Hf2641
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00020	.00513	.00609	.00253	3.0293	.14287	-.00988
Stddev	.00007	.00007	.00031	.00029	.2965	.00671	.68819
%RSD	34.242	1.3637	5.1397	11.660	9.7883	4.6958	6962.7

#1	.00013	.00513	.00645	.00240	2.6932	.13963	.37504
#2	.00026	.00521	.00596	.00232	3.1406	.15058	.39971
#3	.00022	.00507	.00586	.00286	3.2541	.13839	-.80441


Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Hf2773	Hf3399	K_7664	Li6707	Mg2790	Mn2576	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.61853	2.6831	1.7269	.01775	2.4734	.07821	.00050
Stddev	.71172	1.7761	.1233	.00756	.1946	.00746	.00043
%RSD	115.07	66.196	7.1424	42.583	7.8655	9.5437	86.491

#1	1.2297	1.1297	1.6496	.01279	2.2492	.06988	.00020
#2	-.16289	4.6195	1.8692	.02645	2.5743	.08049	.00100
#3	.78884	2.3002	1.6619	.01401	2.5968	.08427	.00030

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: July 27, 2012



Sample Name: L1207065820 Acquired: 7/25/2012 17:43:00 Type: Unk
 Method: ICP-THERMO2_6010_200.7(v1999) Mode: CONC Corr. Factor: 1.000000
 User: KHR Custom ID1: Custom ID2: Custom ID3:
 Comment:

Elem	Na5895	Ni2316	P_2149	Pb2203	Rb7800	S_1807	S_1820
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	65.368	.00099	325.14	.00173	F 13.867	F 363.86	F -12228.
Stddev	5.718	.00078	12.40	.00125	10.434	5.47	81.
%RSD	8.7479	79.020	3.8141	72.310	75.241	1.5036	.66638

#1	58.865	.00063	313.12	.00029	4.6992	359.18	-12143.
#2	67.626	.00045	324.43	.00241	11.681	362.51	-12237.
#3	69.612	.00189	337.89	.00249	25.220	369.87	-12305.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Fail	Chk Fail
High Limit					9.0000	9.0000	9.0000
Low Limit					-.00400	-.00400	-.00400

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3372	Tl1908
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00096	-.00406	39.687	-.00090	.14780	.04280	.00062
Stddev	.00429	.00607	.511	.00059	.00949	.00423	.00244
%RSD	444.59	149.32	1.2864	65.608	6.4185	9.8806	393.95

#1	.00358	-.01089	39.330	-.00148	.13704	.03955	-.00220
#2	.00330	-.00203	39.459	-.00030	.15139	.04127	.00198
#3	-.00399	.00072	40.272	-.00093	.15497	.04758	.00208

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm
Avg	.00626	.03036	F -.21391
Stddev	.00096	.00014	.43226
%RSD	15.334	.45647	202.08

#1	.00733	.03025	-.56089
#2	.00598	.03031	.27031
#3	.00547	.03052	-.35115

Check ?	Chk Pass	Chk Pass	Chk Fail
High Limit			45.000
Low Limit			-.00400


Approved: July 27, 2012



Sample Name: L1207065820 Acquired: 7/25/2012 17:43:00 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1999) Mode: CONC Corr. Factor: 1.000000
User: KHR Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	22193.	15121.
Stddev	768.	666.
%RSD	3.4609	4.4014
#1	21367.	15876.
#2	22327.	14870.
#3	22885.	14618.

Approved: July 27, 2012



Sample Name: L1207065822 Acquired: 7/25/2012 17:46:05 Type: Unk
 Method: ICP-THERMO2_6010_200.7(v1999) Mode: CONC Corr. Factor: 1.000000
 User: KHR Custom ID1: Custom ID2: Custom ID3:
 Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00080	.01289	-.00133	.00028	.00022	.00003	-.03585
Stddev	.00200	.01143	.00126	.00251	.00062	.00003	.00890
%RSD	249.96	88.721	94.857	884.74	284.18	89.319	24.809

#1	-.00083	.01420	-.00099	.00301	.00086	.00000	-.03660
#2	.00304	.00086	-.00027	-.00022	.00016	.00005	-.02661
#3	.00020	.02361	-.00273	-.00193	-.00037	.00004	-.04436

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	Hf2322	Hf2641
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00023	-.00004	.00013	.00007	-.00693	-.00615	1.0103
Stddev	.00016	.00003	.00034	.00015	.00541	.00344	1.0356
%RSD	69.301	78.737	273.25	198.20	78.083	55.901	102.50

#1	.00013	-.00004	-.00007	-.00001	-.00593	-.00642	-.09029
#2	.00015	-.00007	-.00007	.00024	-.01276	-.00946	1.1557
#3	.00042	-.00001	.00052	-.00001	-.00209	-.00259	1.9656

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Hf2773	Hf3399	K_7664	Li6707	Mg2790	Mn2576	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.76593	.47428	.37525	-.00590	-.00944	.00046	-.00024
Stddev	.71579	.59568	.09495	.00327	.02205	.00124	.00028
%RSD	93.454	125.60	25.302	55.323	233.72	270.09	117.78

#1	-.03830	.63504	.46072	-.00933	-.01787	-.00028	-.00054
#2	1.0029	-.18528	.27305	-.00557	.01559	.00188	-.00020
#3	1.3332	.97308	.39199	-.00282	-.02602	-.00023	.00002

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: July 27, 2012



Sample Name: L1207065822 Acquired: 7/25/2012 17:46:05 Type: Unk
 Method: ICP-THERMO2_6010_200.7(v1999) Mode: CONC Corr. Factor: 1.000000
 User: KHR Custom ID1: Custom ID2: Custom ID3:
 Comment:

Elem	Na5895	Ni2316	P_2149	Pb2203	Rb7800	S_1807	S_1820
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.35119	.00113	12.645	.00001	F 13.800	.12804	.29915
Stddev	.13541	.00029	13.098	.00355	4.821	.02525	1.8526
%RSD	38.558	26.164	103.59	24111.	34.934	19.720	619.30

#1	.49472	.00143	13.214	.00225	10.965	.14759	2.0070
#2	.33315	.00084	25.450	.00187	19.366	.09953	.56078
#3	.22570	.00110	-.72839	-.00408	11.069	.13700	-1.6704

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass
High Limit					9.0000		
Low Limit					-.00400		

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3372	Tl1908
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.00079	.00043	.02464	-.00126	.00056	-.00157	.00034
Stddev	.00090	.00255	.00372	.00057	.00017	.00111	.00137
%RSD	114.22	590.70	15.089	44.876	29.803	70.457	405.54

#1	-.00046	.00324	.02271	-.00061	.00076	-.00064	.00012
#2	-.00010	-.00174	.02228	-.00162	.00045	-.00128	.00180
#3	-.00182	-.00020	.02892	-.00156	.00048	-.00280	-.00091

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm
Avg	-.00087	.00152	F -.74121
Stddev	.00093	.00003	.52337
%RSD	106.17	1.8251	70.610

#1	-.00195	.00154	-.63892
#2	-.00031	.00153	-1.3082
#3	-.00037	.00149	-.27653

Check ?	Chk Pass	Chk Pass	Chk Fail
High Limit			45.000
Low Limit			-.00400

Approved: July 27, 2012



Sample Name: L1207065822 Acquired: 7/25/2012 17:46:05 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1999) Mode: CONC Corr. Factor: 1.000000
User: KHR Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	26092.	15362.
Stddev	451.	94.
%RSD	1.7297	.61356
#1	25772.	15310.
#2	25894.	15305.
#3	26608.	15471.

Approved: July 27, 2012



Sample Name: L1207065823 Acquired: 7/25/2012 17:49:13 Type: Unk
 Method: ICP-THERMO2_6010_200.7(v1999) Mode: CONC Corr. Factor: 1.000000
 User: KHR Custom ID1: Custom ID2: Custom ID3:
 Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00118	16.942	.00055	.02232	.19848	.00109	6.0699
Stddev	.00108	1.532	.00192	.00179	.01754	.00003	.5073
%RSD	91.553	9.0426	351.90	8.0309	8.8351	3.2158	8.3574

#1	.00013	15.187	-.00156	.02102	.17834	.00105	5.4954
#2	.00229	17.628	.00220	.02157	.20671	.00112	6.2582
#3	.00112	18.012	.00100	.02436	.21038	.00109	6.4561

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	Hf2322	Hf2641
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00073	.00911	.02707	.01452	20.467	.30070	F -.38557
Stddev	.00006	.00028	.00085	.00138	1.779	.00559	.83464
%RSD	8.8928	3.1068	3.1379	9.4982	8.6921	1.8576	216.47

#1	.00067	.00888	.02777	.01610	18.435	.29425	.45467
#2	.00071	.00901	.02613	.01363	21.223	.30391	-.39688
#3	.00080	.00942	.02731	.01382	21.743	.30393	-1.2145

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit							45.000
Low Limit							-1.1000

Elem	Hf2773	Hf3399	K_7664	Li6707	Mg2790	Mn2576	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.6965	.42733	2.8384	.02317	4.2419	.09469	.00027
Stddev	.6604	1.1870	.2108	.00258	.3833	.00777	.00023
%RSD	38.926	277.78	7.4263	11.130	9.0366	8.2045	84.695

#1	1.6656	-.92838	2.5952	.02574	3.8042	.08579	.00053
#2	1.0521	.93040	2.9530	.02059	4.4032	.09815	.00008
#3	2.3717	1.2800	2.9671	.02317	4.5181	.10013	.00020

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: July 27, 2012



Sample Name: L1207065823 Acquired: 7/25/2012 17:49:13 Type: Unk
 Method: ICP-THERMO2_6010_200.7(v1999) Mode: CONC Corr. Factor: 1.000000
 User: KHR Custom ID1: Custom ID2: Custom ID3:
 Comment:

Elem	Na5895	Ni2316	P_2149	Pb2203	Rb7800	S_1807	S_1820
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	55.996	.02322	672.64	.01604	F -1.6242	F 334.45	F -11254.
Stddev	4.804	.00097	9.26	.00026	6.6963	3.39	67.
%RSD	8.5792	4.1598	1.3769	1.6141	412.28	1.0125	.59600

#1	50.484	.02213	662.63	.01596	-8.3453	335.02	-11274.
#2	58.218	.02399	680.90	.01633	5.0471	337.51	-11308.
#3	59.288	.02353	674.38	.01583	-1.5744	330.81	-11179.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Fail	Chk Fail
High Limit					9.0000	9.0000	9.0000
Low Limit					-0.0400	-0.0400	-0.0400

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3372	Tl1908
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00043	-0.0081	70.090	-0.0007	.19810	.17099	-0.0068
Stddev	.00372	.00296	.613	.00061	.01725	.01557	.00043
%RSD	861.52	363.70	.87499	855.14	8.7094	9.1046	63.640

#1	.00189	.00135	70.084	-0.0077	.17827	.15350	-0.0110
#2	.00321	.00039	70.706	.00015	.20632	.17616	-0.0070
#3	-0.00380	-0.00419	69.480	.00040	.20970	.18332	-0.0024

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm
Avg	.04138	.08585	1.3392
Stddev	.00090	.00065	.8580
%RSD	2.1804	.75288	64.065

#1	.04122	.08636	2.3238
#2	.04057	.08606	.75220
#3	.04236	.08512	.94158

Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Approved: July 27, 2012



Sample Name: L1207065823 Acquired: 7/25/2012 17:49:13 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1999) Mode: CONC Corr. Factor: 1.000000
User: KHR Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	24643.	16489.
Stddev	794.	796.
%RSD	3.2218	4.8272
#1	25104.	17406.
#2	25099.	16078.
#3	23726.	15983.

Approved: July 27, 2012



Sample Name: L1207065824 Acquired: 7/25/2012 17:52:17 Type: Unk
 Method: ICP-THERMO2_6010_200.7(v1999) Mode: CONC Corr. Factor: 1.000000
 User: KHR Custom ID1: Custom ID2: Custom ID3:
 Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00212	16.335	.00032	.02086	.19203	.00102	5.8347
Stddev	.00136	1.172	.00179	.00314	.01421	.00005	.3842
%RSD	64.028	7.1776	561.00	15.040	7.4008	4.7805	6.5854

#1	.00266	15.002	.00066	.01825	.17579	.00097	5.3980
#2	.00313	16.797	-.00161	.02434	.19810	.00105	5.9852
#3	.00058	17.206	.00191	.01998	.20220	.00106	6.1209

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	Hf2322	Hf2641
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00070	.00875	.02538	.01381	19.548	.29210	.12285
Stddev	.00011	.00009	.00081	.00015	1.519	.00275	.62100
%RSD	15.338	1.0402	3.1797	1.0510	7.7710	.94189	505.49

#1	.00068	.00877	.02619	.01394	17.826	.29528	-.40599
#2	.00081	.00865	.02539	.01365	20.118	.29046	.80665
#3	.00060	.00883	.02457	.01384	20.699	.29056	-.03211

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Hf2773	Hf3399	K_7664	Li6707	Mg2790	Mn2576	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.43263	F -.17570	2.8703	.02117	4.1238	.09002	.00028
Stddev	.61443	1.5445	.2918	.00306	.3123	.00698	.00045
%RSD	142.02	879.10	10.165	14.459	7.5740	7.7536	158.82

#1	.26818	.53446	2.5892	.02070	3.7683	.08202	.00019
#2	-.08285	.88604	2.8501	.01837	4.2488	.09313	-.00012
#3	1.1126	-1.9476	3.1716	.02444	4.3543	.09490	.00077

Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit		45.000					
Low Limit		-.10000					

Approved: July 27, 2012



Sample Name: L1207065824 Acquired: 7/25/2012 17:52:17 Type: Unk
 Method: ICP-THERMO2_6010_200.7(v1999) Mode: CONC Corr. Factor: 1.000000
 User: KHR Custom ID1: Custom ID2: Custom ID3:
 Comment:

Elem	Na5895	Ni2316	P_2149	Pb2203	Rb7800	S_1807	S_1820
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	54.075	.01915	654.93	.01185	F 16.810	F 307.82	F -10428.
Stddev	3.950	.00093	7.28	.00107	7.056	1.07	20.
%RSD	7.3039	4.8821	1.1111	9.0023	41.977	.34792	.19065

#1	49.599	.01962	646.70	.01296	22.455	309.05	-10409.
#2	55.557	.01975	660.51	.01178	8.8990	307.30	-10449.
#3	57.070	.01807	657.58	.01083	19.076	307.10	-10426.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Fail	Chk Fail
High Limit					9.0000	9.0000	9.0000
Low Limit					-.00400	-.00400	-.00400

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3372	Tl1908
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00272	.00025	65.525	-.00057	.19162	.17402	-.00080
Stddev	.00118	.00026	.492	.00030	.01482	.01254	.00189
%RSD	43.449	107.00	.75017	52.036	7.7352	7.2038	237.57

#1	.00136	-.00005	66.029	-.00091	.17460	.15964	-.00282
#2	.00329	.00045	65.047	-.00040	.19854	.17976	.00093
#3	.00351	.00035	65.499	-.00040	.20171	.18265	-.00050

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm
Avg	.04059	.07850	1.8031
Stddev	.00161	.00021	.1990
%RSD	3.9703	.27006	11.039

#1	.03881	.07860	1.5754
#2	.04103	.07864	1.9437
#3	.04194	.07826	1.8903

Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Approved: July 27, 2012



Sample Name: L1207065824 Acquired: 7/25/2012 17:52:17 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1999) Mode: CONC Corr. Factor: 1.000000
User: KHR Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	22868.	15101.
Stddev	30.	345.
%RSD	.13192	2.2841
#1	22859.	14718.
#2	22843.	15387.
#3	22901.	15198.

Approved: July 27, 2012



Sample Name: CCV Acquired: 7/25/2012 17:55:27 Type: QC
 Method: ICP-THERMO2_6010_200.7(v1999) Mode: CONC Corr. Factor: 1.000000
 User: KHR Custom ID1: Custom ID2: Custom ID3:
 Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.39633	9.7490	.38167	.50385	.99695	.05123	9.7526
Stddev	.00316	.9282	.00068	.00182	.09403	.00035	.8541
%RSD	.79703	9.5214	.17836	.36133	9.4322	.68032	8.7580

#1	.39555	8.6846	.38108	.50287	.88978	.05083	8.7783
#2	.39364	10.172	.38152	.50273	1.0354	.05139	10.107
#3	.39981	10.390	.38242	.50595	1.0657	.05148	10.372

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	Hf2322	Hf2641
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.04925	.19589	.49936	.49078	4.0321	.97671	.99389
Stddev	.00016	.00019	.00216	.00037	.3518	.00705	.62935
%RSD	.32221	.09907	.43224	.07535	8.7248	.72215	63.321

#1	.04926	.19574	.49831	.49042	3.6304	.96865	.52015
#2	.04940	.19582	.49793	.49116	4.1802	.97976	1.7080
#3	.04909	.19611	.50185	.49075	4.2856	.98173	.75352

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Hf2773	Hf3399	K_7664	Li6707	Mg2790	Mn2576	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F .59104	F -.17365	49.956	.94589	10.235	.48101	.98183
Stddev	.69341	1.1326	4.607	.09935	.955	.04486	.00140
%RSD	117.32	652.22	9.2212	10.504	9.3280	9.3252	.14234

#1	-.20556	-1.0624	44.719	.83265	9.1410	.42965	.98024
#2	1.0593	-5.6019	51.769	.98657	10.666	.50092	.98287
#3	.91941	1.1016	53.380	1.0184	10.898	.51247	.98237

Check ?	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	1.0000	1.0000					
Range	-10.000%	-10.000%					

Approved: July 27, 2012



Sample Name: CCV Acquired: 7/25/2012 17:55:27 Type: QC
 Method: ICP-THERMO2_6010_200.7(v1999) Mode: CONC Corr. Factor: 1.000000
 User: KHR Custom ID1: Custom ID2: Custom ID3:
 Comment:

Elem	Na5895	Ni2316	P_2149	Pb2203	Rb7800	S_1807	S_1820
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	51.079	.51393	F 24.190	.50901	F 34.787	10.237	F 8.6103
Stddev	4.751	.00018	8.706	.00244	10.720	.039	.5268
%RSD	9.3015	.03493	35.992	.47956	30.817	.38453	6.1182

#1	45.650	.51384	15.320	.51176	26.491	10.209	8.9999
#2	53.106	.51382	24.526	.50817	30.979	10.220	8.0109
#3	54.479	.51414	32.723	.50710	46.892	10.282	8.8200

Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Fail	Chk Pass	Chk Fail
Value			10.000		10.000		10.000
Range			10.000%		10.000%		-10.000%

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3372	Tl1908
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.2330	.38862	F 5.6969	1.0223	1.0154	.94784	.52211
Stddev	.0025	.00204	.0470	.0013	.0981	.08639	.00260
%RSD	.20075	.52455	.82462	.13069	9.6627	9.1141	.49816

#1	1.2324	.38964	5.7267	1.0211	.90355	.84889	.51920
#2	1.2310	.38628	5.6427	1.0220	1.0557	.98639	.52295
#3	1.2358	.38995	5.7212	1.0237	1.0870	1.0082	.52419


Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value			5.0000				
Range			10.000%				

Elem	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm
Avg	.95668	1.0096	F .73396
Stddev	.00612	.0007	.22392
%RSD	.64000	.07141	30.508

#1	.95732	1.0088	.60926
#2	.95026	1.0095	.60015
#3	.96246	1.0103	.99246

Check ?	Chk Pass	Chk Pass	Chk Fail
Value			1.0000
Range			-10.000%

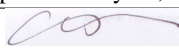
Approved: July 27, 2012



Sample Name: CCV Acquired: 7/25/2012 17:55:27 Type: QC
Method: ICP-THERMO2_6010_200.7(v1999) Mode: CONC Corr. Factor: 1.000000
User: KHR Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	23653.	14482.
Stddev	100.	537.
%RSD	.42400	3.7058
#1	23742.	15092.
#2	23672.	14270.
#3	23544.	14083.

Approved: July 27, 2012



Sample Name: CCB Acquired: 7/25/2012 17:58:32 Type: Blank
 Method: ICP-THERMO2_6010_200.7(v1999) Mode: CONC Corr. Factor: 1.000000
 User: KHR Custom ID1: Custom ID2: Custom ID3:
 Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.00063	.00738	-.00126	.00338	.00162	-.00003	-.02806
Stddev	.00107	.07471	.00128	.00076	.00140	.00001	.03129
%RSD	168.58	1012.7	101.34	22.560	86.622	48.083	111.52

#1	-.00184	.07382	-.00273	.00417	.00308	-.00001	.00788
#2	.00020	.02180	-.00062	.00264	.00150	-.00004	-.04281
#3	-.00027	-.07349	-.00043	.00333	.00028	-.00004	-.04926

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	Hf2322	Hf2641
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00017	.00028	-.00021	-.00011	-.00584	-.01046	F .26543
Stddev	.00014	.00019	.00111	.00007	.01427	.00458	.36164
%RSD	83.218	67.744	521.38	59.966	244.33	43.723	136.24

#1	.00018	.00047	-.00040	-.00014	.01055	-.00542	.58864
#2	.00031	.00009	.00098	-.00003	-.01259	-.01163	.33282
#3	.00003	.00029	-.00122	-.00016	-.01549	-.01434	-.12516

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit							.10000
Low Limit							-.10000

Elem	Hf2773	Hf3399	K_7664	Li6707	Mg2790	Mn2576	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F .87568	F 1.5883	.31203	-.00354	-.00493	.00031	.00039
Stddev	.18085	1.5480	.14025	.00670	.01387	.00192	.00038
%RSD	20.653	97.467	44.947	189.09	281.09	614.34	98.867

#1	.99692	2.1123	.47318	.00413	.01071	.00253	.00036
#2	.66781	-.15377	.24532	-.00654	-.01574	-.00081	.00078
#3	.96232	2.8063	.21759	-.00822	-.00977	-.00078	.00002

Check ?	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	.10000	.10000					
Low Limit	-.10000	-.10000					

Approved: July 27, 2012



Sample Name: CCB Acquired: 7/25/2012 17:58:32 Type: Blank
 Method: ICP-THERMO2_6010_200.7(v1999) Mode: CONC Corr. Factor: 1.000000
 User: KHR Custom ID1: Custom ID2: Custom ID3:
 Comment:

Elem	Na5895	Ni2316	P_2149	Pb2203	Rb7800	S_1807	S_1820
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.21032	-0.00067	F 11.219	-0.00170	F 37.339	F -0.09643	F 7.1260
Stddev	.10861	.00146	20.429	.00100	15.606	.04169	1.2246
%RSD	51.640	217.96	182.09	58.919	41.796	43.233	17.184

#1	.33085	-0.00001	-3.8766	-0.00247	19.322	-.14216	6.6985
#2	.12005	.00035	3.0689	-0.00206	46.041	-.06052	8.5070
#3	.18006	-0.00235	34.466	-0.00057	46.654	-.08663	6.1725

Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Fail	Chk Fail	Chk Fail
High Limit			.01000		.01000	.01000	.01000
Low Limit			-.01000		-.01000	-.01000	-.01000

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3372	Tl1908
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-0.00317	-0.00069	.01503	-0.00093	.00158	.00185	-0.00060
Stddev	.00141	.00156	.00283	.00040	.00105	.00415	.00319
%RSD	44.470	224.96	18.844	43.377	66.401	223.57	534.45

#1	-0.00160	-0.00230	.01253	-0.00052	.00275	.00538	.00277
#2	-0.00433	.00082	.01811	-0.00094	.00125	.00290	-.00356
#3	-0.00358	-0.00060	.01446	-0.00133	.00073	-.00271	-.00100

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm
Avg	.00008	-0.00023	F -1.3591
Stddev	.00034	.00011	.1010
%RSD	416.89	46.270	7.4336

#1	.00038	-0.00016	-1.3775
#2	.00015	-0.00035	-1.4496
#3	-0.00028	-0.00018	-1.2501

Check ?	Chk Pass	Chk Pass	Chk Fail
High Limit			.10000
Low Limit			-.10000

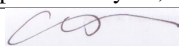
Approved: July 27, 2012



Sample Name: CCB Acquired: 7/25/2012 17:58:32 Type: Blank
Method: ICP-THERMO2_6010_200.7(v1999) Mode: CONC Corr. Factor: 1.000000
User: KHR Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	23858.	14500.
Stddev	9.	538.
%RSD	.03862	3.7135
#1	23851.	15121.
#2	23869.	14222.
#3	23855.	14158.

Approved: July 27, 2012



Sample Name: L1207065825 Acquired: 7/25/2012 18:01:48 Type: Unk
 Method: ICP-THERMO2_6010_200.7(v1999) Mode: CONC Corr. Factor: 1.000000
 User: KHR Custom ID1: Custom ID2: Custom ID3:
 Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-0.0036	3.5521	-0.0027	.00862	.07095	.00030	1.5153
Stddev	.00096	.3166	.00126	.00196	.00696	.00002	.1382
%RSD	267.29	8.9142	460.48	22.710	9.8036	6.9433	9.1179

#1	-0.0111	3.1873	-0.0170	.00689	.06293	.00030	1.3561
#2	-0.0070	3.7134	.00017	.00823	.07457	.00032	1.5865
#3	.00072	3.7556	.00070	.01074	.07535	.00028	1.6033

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	Hf2322	Hf2641
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00078	.00146	.00366	.00308	3.8724	.05209	.41888
Stddev	.00015	.00035	.00057	.00023	.3668	.00468	.27671
%RSD	18.642	23.664	15.500	7.3914	9.4717	8.9904	66.061

#1	.00091	.00154	.00308	.00333	3.4520	.05013	.43448
#2	.00062	.00108	.00368	.00289	4.0383	.04872	.13469
#3	.00081	.00176	.00421	.00302	4.1270	.05744	.68746

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Hf2773	Hf3399	K_7664	Li6707	Mg2790	Mn2576	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.4010	-0.00900	1.3790	.02516	1.1270	.03257	.00020
Stddev	1.0071	.23756	.1177	.00385	.1344	.00237	.00037
%RSD	71.884	2638.5	8.5318	15.291	11.925	7.2619	185.09

#1	.68608	-24332	1.2793	.02690	.97369	.02984	-0.0013
#2	.96422	-0.1535	1.3491	.02075	1.1827	.03392	.00059
#3	2.5528	.23167	1.5088	.02783	1.2246	.03395	.00014

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: July 27, 2012



Sample Name: L1207065825 Acquired: 7/25/2012 18:01:48 Type: Unk
 Method: ICP-THERMO2_6010_200.7(v1999) Mode: CONC Corr. Factor: 1.000000
 User: KHR Custom ID1: Custom ID2: Custom ID3:
 Comment:

Elem	Na5895	Ni2316	P_2149	Pb2203	Rb7800	S_1807	S_1820
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	27.394	.00224	274.53	.00306	6.9447	F 14.123	F -430.21
Stddev	2.537	.00026	18.35	.00178	14.078	.203	3.64
%RSD	9.2619	11.375	6.6850	58.349	202.71	1.4351	.84716

#1	24.489	.00227	254.85	.00163	-2.1611	14.353	-432.26
#2	28.517	.00248	277.56	.00248	-.16390	13.973	-432.37
#3	29.176	.00197	291.18	.00506	23.159	14.042	-426.00

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Fail
High Limit						9.0000	9.0000
Low Limit						-0.0400	-0.0400

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3372	Tl1908
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00105	-.00315	37.993	-.00116	.04771	.05248	.00017
Stddev	.00259	.00142	.099	.00072	.00491	.00812	.00206
%RSD	246.71	44.994	.26033	62.315	10.283	15.474	1180.7

#1	.00264	-.00264	37.951	-.00036	.04212	.04338	.00150
#2	.00246	-.00474	38.106	-.00176	.04972	.05899	-.00220
#3	-.00194	-.00205	37.923	-.00137	.05130	.05506	.00123

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm
Avg	.00747	.02850	.00058
Stddev	.00037	.00010	.40271
%RSD	5.0047	.36358	69059.

#1	.00786	.02862	.43640
#2	.00711	.02843	-.07688
#3	.00743	.02846	-.35777

Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Approved: July 27, 2012



Sample Name: L1207065825 Acquired: 7/25/2012 18:01:48 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1999) Mode: CONC Corr. Factor: 1.000000
User: KHR Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	23445.	15375.
Stddev	971.	682.
%RSD	4.1434	4.4356
#1	24508.	16149.
#2	23221.	15115.
#3	22604.	14862.

Approved: July 27, 2012



Sample Name: L1207065826 Acquired: 7/25/2012 18:04:53 Type: Unk
 Method: ICP-THERMO2_6010_200.7(v1999) Mode: CONC Corr. Factor: 1.000000
 User: KHR Custom ID1: Custom ID2: Custom ID3:
 Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00133	62.564	.00635	.00845	.32280	.00286	3.4008
Stddev	.00142	4.879	.00245	.00218	.02615	.00018	.3110
%RSD	106.60	7.7979	38.632	25.837	8.0995	6.4209	9.1463

#1	.00006	57.042	.00918	.00620	.29286	.00306	3.0433
#2	.00286	64.360	.00501	.01057	.33444	.00270	3.5495
#3	.00107	66.290	.00485	.00859	.34111	.00283	3.6095

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	Hf2322	Hf2641
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00084	.01955	.06793	.03107	40.417	.32821	F -.25115
Stddev	.00004	.00005	.00543	.00135	3.324	.00238	.47397
%RSD	4.4802	.23219	7.9996	4.3466	8.2236	.72406	188.72

#1	.00081	.01953	.07328	.03262	36.628	.32636	.08673
#2	.00084	.01960	.06241	.03047	41.786	.33089	-.04723
#3	.00088	.01952	.06811	.03013	42.838	.32739	-.79294

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit							45.000
Low Limit							-.10000

Elem	Hf2773	Hf3399	K_7664	Li6707	Mg2790	Mn2576	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.1841	1.8005	3.7189	.04228	5.8382	.15566	.00027
Stddev	.4932	.6227	.3098	.00096	.5289	.01288	.00036
%RSD	41.656	34.586	8.3311	2.2675	9.0584	8.2758	132.93

#1	.94732	2.5041	3.3792	.04120	5.2369	.14090	.00014
#2	.85383	1.3204	3.7915	.04302	6.0468	.16147	.00000
#3	1.7510	1.5769	3.9860	.04264	6.2310	.16462	.00068

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: July 27, 2012



Sample Name: L1207065826 Acquired: 7/25/2012 18:04:53 Type: Unk
 Method: ICP-THERMO2_6010_200.7(v1999) Mode: CONC Corr. Factor: 1.000000
 User: KHR Custom ID1: Custom ID2: Custom ID3:
 Comment:

Elem	Na5895	Ni2316	P_2149	Pb2203	Rb7800	S_1807	S_1820
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	28.623	.04408	816.18	.02487	F 11.550	F 188.06	F -6371.4
Stddev	2.298	.00056	10.62	.00364	5.866	1.92	14.0
%RSD	8.0271	1.2658	1.3014	14.639	50.784	1.0205	.22006

#1	26.010	.04455	820.16	.02892	18.220	188.81	-6367.8
#2	29.532	.04423	804.14	.02381	9.2398	189.50	-6386.9
#3	30.328	.04347	824.23	.02188	7.1918	185.88	-6359.6

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Fail	Chk Fail
High Limit					9.0000	9.0000	9.0000
Low Limit					-0.0400	-0.0400	-0.0400

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3372	Tl1908
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00397	-0.0340	F 101.80	.00054	.10830	.28024	.00152
Stddev	.00214	.00326	1.13	.00016	.00900	.02120	.00137
%RSD	53.991	96.046	1.1126	30.230	8.3076	7.5653	90.344

#1	.00596	.00037	102.38	.00055	.09820	.25586	.00217
#2	.00425	-0.0535	102.53	.00037	.11125	.29048	.00245
#3	.00170	-0.0521	100.50	.00069	.11545	.29438	-0.0006

Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit			90.000				
Low Limit			-1.0000				

Elem	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm
Avg	.08563	.16610	5.1589
Stddev	.00733	.00009	.5281
%RSD	8.5606	.05248	10.236

#1	.09337	.16620	4.5505
#2	.07879	.16608	5.4271
#3	.08473	.16603	5.4990

Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

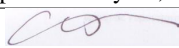
Approved: July 27, 2012



Sample Name: L1207065826 Acquired: 7/25/2012 18:04:53 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1999) Mode: CONC Corr. Factor: 1.000000
User: KHR Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	23189.	15564.
Stddev	284.	168.
%RSD	1.2237	1.0816
#1	22862.	15481.
#2	23327.	15758.
#3	23376.	15454.

Approved: July 27, 2012



Sample Name: L1207069501 Acquired: 7/25/2012 18:07:56 Type: Unk
 Method: ICP-THERMO2_6010_200.7(v1999) Mode: CONC Corr. Factor: 1.000000
 User: KHR Custom ID1: Custom ID2: Custom ID3:
 Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00031	.09131	-.00117	.00111	.00046	.00000	.02846
Stddev	.00071	.06316	.00070	.00172	.00045	.00006	.04720
%RSD	229.84	69.170	59.799	154.88	99.568	3919.7	165.87

#1	-.00050	.14899	-.00103	.00108	.00097	-.00007	-.02556
#2	.00083	.10110	-.00055	.00284	.00011	.00001	.04919
#3	.00060	.02383	-.00192	-.00060	.00029	.00006	.06175

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	Hf2322	Hf2641
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00022	.00010	-.00106	.00039	.03840	-.00947	.12103
Stddev	.00018	.00016	.00033	.00003	.05556	.00806	.69206
%RSD	81.974	160.93	31.428	7.7135	144.66	85.134	571.81

#1	.00043	-.00004	-.00070	.00040	.10216	-.00079	.05688
#2	.00016	.00007	-.00135	.00042	.01267	-.01671	-.53672
#3	.00008	.00028	-.00114	.00036	.00038	-.01090	.84293

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Hf2773	Hf3399	K_7664	Li6707	Mg2790	Mn2576	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.75456	.10182	.18921	-.00946	-.02079	.00112	.00007
Stddev	.07169	1.0547	.08975	.00043	.03037	.00212	.00039
%RSD	9.5003	1035.9	47.436	4.5712	146.13	189.61	594.86

#1	.71434	.65840	.28062	-.00912	-.03850	.00305	.00024
#2	.83732	.76167	.18579	-.00931	.01429	-.00115	-.00038
#3	.71201	-1.1146	.10122	-.00994	-.03814	.00146	.00034

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: July 27, 2012



Sample Name: L1207069501 Acquired: 7/25/2012 18:07:56 Type: Unk
 Method: ICP-THERMO2_6010_200.7(v1999) Mode: CONC Corr. Factor: 1.000000
 User: KHR Custom ID1: Custom ID2: Custom ID3:
 Comment:

Elem	Na5895	Ni2316	P_2149	Pb2203	Rb7800	S_1807	S_1820
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.12972	.00101	6.0007	.00012	F 23.529	.13235	.49042
Stddev	.05429	.00051	15.355	.00099	8.313	.02650	2.5683
%RSD	41.850	50.546	255.89	823.75	35.332	20.024	523.69

#1	.17841	.00160	-2.3679	-.00102	32.897	.13685	-1.2418
#2	.07118	.00070	23.722	.00077	17.031	.10389	-.72808
#3	.13957	.00074	-3.3525	.00062	20.659	.15632	3.4411

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass
High Limit					9.0000		
Low Limit					-.00400		

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3372	Tl1908
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.00006	-.00030	.06646	-.00111	.00107	.00067	.00058
Stddev	.00445	.00295	.00449	.00046	.00053	.00174	.00072
%RSD	7073.1	985.06	6.7609	41.575	49.882	258.99	124.05

#1	-.00094	.00160	.07141	-.00164	.00168	-.00118	.00138
#2	.00476	-.00370	.06263	-.00088	.00087	.00091	.00000
#3	-.00401	.00120	.06533	-.00081	.00067	.00228	.00035

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm
Avg	-.00045	.00154	F -.68363
Stddev	.00082	.00013	.18497
%RSD	182.09	8.6339	27.058

#1	-.00135	.00144	-.77565
#2	-.00026	.00169	-.80455
#3	.00026	.00148	-.47069

Check ?	Chk Pass	Chk Pass	Chk Fail
High Limit			45.000
Low Limit			-.00400


Approved: July 27, 2012



Sample Name: L1207069501 Acquired: 7/25/2012 18:07:56 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1999) Mode: CONC Corr. Factor: 1.000000
User: KHR Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	25466.	15032.
Stddev	301.	403.
%RSD	1.1804	2.6830
#1	25189.	14597.
#2	25785.	15395.
#3	25424.	15103.

Approved: July 27, 2012



Sample Name: L1207069502 Acquired: 7/25/2012 18:11:05 Type: Unk
 Method: ICP-THERMO2_6010_200.7(v1999) Mode: CONC Corr. Factor: 1.000000
 User: KHR Custom ID1: Custom ID2: Custom ID3:
 Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.00003	.01535	-.00297	-.00064	.00017	-.00005	-.03032
Stddev	.00230	.01149	.00181	.00131	.00085	.00002	.03576
%RSD	7648.6	74.843	61.023	203.40	493.39	48.054	117.96

#1	-.00246	.02856	-.00162	.00026	-.00031	-.00003	.00367
#2	.00210	.00773	-.00227	-.00214	.00116	-.00007	-.02700
#3	.00027	.00975	-.00503	-.00004	-.00033	-.00004	-.06762

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	Hf2322	Hf2641
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00009	-.00003	-.00018	-.00011	-.01273	-.01077	.62929
Stddev	.00003	.00014	.00070	.00032	.00615	.00405	.48254
%RSD	30.126	544.05	399.91	298.75	48.270	37.562	76.680

#1	.00007	-.00004	.00051	-.00025	-.01771	-.01346	.77873
#2	.00013	-.00016	-.00089	.00026	-.01462	-.00612	.08971
#3	.00008	.00013	-.00014	-.00034	-.00586	-.01274	1.0194

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Hf2773	Hf3399	K_7664	Li6707	Mg2790	Mn2576	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.2049	F -.66758	.17452	-.00492	-.00095	-.00005	-.00025
Stddev	.4720	1.2517	.10722	.00211	.01359	.00042	.00037
%RSD	39.172	187.50	61.438	42.978	1425.5	792.52	145.80

#1	.66153	.44529	.08112	-.00279	-.00917	-.00003	.00016
#2	1.5129	-2.0227	.15083	-.00495	.01474	-.00048	-.00053
#3	1.4404	-.42535	.29160	-.00701	-.00843	.00036	-.00039

Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit		45.000					
Low Limit		-.10000					

Approved: July 27, 2012



Sample Name: L1207069502 Acquired: 7/25/2012 18:11:05 Type: Unk
 Method: ICP-THERMO2_6010_200.7(v1999) Mode: CONC Corr. Factor: 1.000000
 User: KHR Custom ID1: Custom ID2: Custom ID3:
 Comment:

Elem	Na5895	Ni2316	P_2149	Pb2203	Rb7800	S_1807	S_1820
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.11003	-.00072	7.3879	-.00088	F 29.228	F -.04953	4.0878
Stddev	.04269	.00119	22.157	.00173	11.982	.04627	.6742
%RSD	38.794	164.00	299.91	196.80	40.995	93.412	16.492

#1	.13748	-.00198	-13.468	-.00163	15.840	-.02959	4.3389
#2	.13176	-.00057	30.650	-.00211	32.897	-.01658	4.6004
#3	.06085	.00038	4.9815	.00110	38.945	-.10243	3.3242

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Fail	Chk Pass
High Limit					9.0000	9.0000	
Low Limit					-.00400	-.00400	

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3372	Tl1908
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.00333	-.00392	.03098	-.00118	.00060	-.00033	-.00102
Stddev	.00175	.00075	.00059	.00027	.00035	.00238	.00286
%RSD	52.446	19.027	1.8949	22.893	57.262	713.04	279.06

#1	-.00267	-.00412	.03044	-.00128	.00021	.00118	.00211
#2	-.00201	-.00309	.03089	-.00140	.00075	-.00307	-.00170
#3	-.00531	-.00454	.03161	-.00088	.00085	.00089	-.00348

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm
Avg	-.00015	.00208	F -.64833
Stddev	.00036	.00012	.62151
%RSD	238.36	5.6282	95.864

#1	-.00034	.00195	-.71407
#2	-.00037	.00212	.00344
#3	.00026	.00217	-1.2344

Check ?	Chk Pass	Chk Pass	Chk Fail
High Limit			45.000
Low Limit			-.00400

Approved: July 27, 2012



Sample Name: L1207069502 Acquired: 7/25/2012 18:11:05 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1999) Mode: CONC Corr. Factor: 1.000000
User: KHR Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	24216.	15098.
Stddev	49.	632.
%RSD	.20245	4.1872
#1	24272.	15828.
#2	24196.	14732.
#3	24180.	14734.

Approved: July 27, 2012



Sample Name: L1207069503 Acquired: 7/25/2012 18:14:15 Type: Unk
 Method: ICP-THERMO2_6010_200.7(v1999) Mode: CONC Corr. Factor: 1.000000
 User: KHR Custom ID1: Custom ID2: Custom ID3:
 Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.00011	.05310	-.00128	-.00063	.00106	-.00003	-.05409
Stddev	.00262	.01848	.00225	.00132	.00087	.00007	.01191
%RSD	2343.4	34.802	176.06	211.06	82.338	218.15	22.016

#1	.00235	.07054	-.00366	-.00206	.00043	-.00009	-.05640
#2	.00018	.05503	-.00098	.00054	.00205	.00004	-.04119
#3	-.00287	.03373	.00081	-.00036	.00069	-.00004	-.06467

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	Hf2322	Hf2641
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00009	.00015	-.00021	.00045	-.00837	-.01818	F -.23227
Stddev	.00025	.00026	.00056	.00071	.01379	.01032	.59204
%RSD	283.64	173.62	272.52	158.61	164.86	56.759	254.90

#1	.00034	.00016	-.00051	.00039	.00299	-.00681	-.05902
#2	-.00015	-.00011	.00044	-.00023	-.02371	-.02076	.25382
#3	.00007	.00041	-.00055	.00119	-.00437	-.02696	-.89161

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit							45.000
Low Limit							-.10000

Elem	Hf2773	Hf3399	K_7664	Li6707	Mg2790	Mn2576	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.10069	.45353	.14655	-.00106	-.01743	.00077	-.00006
Stddev	.25653	.39000	.03620	.00178	.02425	.00033	.00029
%RSD	254.76	85.993	24.704	168.42	139.13	43.160	486.60

#1	-.16032	.60250	.10892	.00082	-.00973	.00091	-.00033
#2	.35248	.01100	.18114	-.00127	.00204	.00039	-.00009
#3	.10992	.74708	.14958	-.00273	-.04459	.00101	.00024

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: July 27, 2012



Sample Name: L1207069503 Acquired: 7/25/2012 18:14:15 Type: Unk
 Method: ICP-THERMO2_6010_200.7(v1999) Mode: CONC Corr. Factor: 1.000000
 User: KHR Custom ID1: Custom ID2: Custom ID3:
 Comment:

Elem	Na5895	Ni2316	P_2149	Pb2203	Rb7800	S_1807	S_1820
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.11091	-.00106	12.348	-.00090	F 30.482	F -.14126	4.1445
Stddev	.01521	.00063	6.039	.00233	8.359	.07030	2.2076
%RSD	13.715	59.551	48.908	258.96	27.422	49.767	53.265

#1	.12844	-.00172	17.011	.00144	26.665	-.13878	5.5246
#2	.10321	-.00101	14.508	-.00091	40.068	-.07224	1.5984
#3	.10110	-.00046	5.5260	-.00323	24.713	-.21278	5.3104

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Fail	Chk Pass
High Limit					9.0000	9.0000	
Low Limit					-.00400	-.00400	

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3372	Tl1908
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.00181	-.00417	.01278	-.00067	.00031	-.00221	-.00076
Stddev	.00072	.00291	.00289	.00034	.00041	.00385	.00162
%RSD	40.074	69.763	22.630	50.293	131.67	174.01	212.80

#1	-.00256	-.00591	.01262	-.00067	.00016	-.00058	.00064
#2	-.00176	-.00580	.01576	-.00033	.00077	.00055	-.00253
#3	-.00111	-.00081	.00998	-.00101	.00000	-.00661	-.00039

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm
Avg	-.00048	.00127	F -.34201
Stddev	.00048	.00003	.17100
%RSD	99.786	2.5777	49.998

#1	-.00098	.00123	-.52228
#2	-.00045	.00130	-.32162
#3	-.00002	.00127	-.18212

Check ?	Chk Pass	Chk Pass	Chk Fail
High Limit			45.000
Low Limit			-.00400

Approved: July 27, 2012



Sample Name: L1207069503 Acquired: 7/25/2012 18:14:15 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1999) Mode: CONC Corr. Factor: 1.000000
User: KHR Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	23988.	14794.
Stddev	82.	629.
%RSD	.34361	4.2534
#1	24005.	15519.
#2	24061.	14389.
#3	23899.	14474.

Approved: July 27, 2012



Sample Name: L1207069801 Acquired: 7/25/2012 18:17:24 Type: Unk
 Method: ICP-THERMO2_6010_200.7(v1999) Mode: CONC Corr. Factor: 1.000000
 User: KHR Custom ID1: Custom ID2: Custom ID3:
 Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00069	.02786	-.00002	.00045	.00075	-.00002	-.03795
Stddev	.00080	.04151	.00113	.00075	.00022	.00006	.02322
%RSD	114.88	149.02	6992.7	165.93	29.334	349.92	61.179

#1	-.00018	.02902	-.00088	-.00024	.00063	-.00009	-.01806
#2	.00138	.06878	-.00043	.00124	.00101	.00001	-.03233
#3	.00089	-.01422	.00126	.00035	.00062	.00003	-.06346

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	Hf2322	Hf2641
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00007	-.00015	-.00044	.00077	-.00761	-.00556	.66679
Stddev	.00006	.00010	.00098	.00019	.00309	.00427	.28253
%RSD	86.891	65.904	223.81	24.169	40.564	76.713	42.372

#1	.00003	-.00019	.00061	.00072	-.01111	-.01015	.76215
#2	.00013	-.00004	-.00133	.00098	-.00526	-.00171	.34892
#3	.00004	-.00022	-.00059	.00061	-.00646	-.00484	.88929

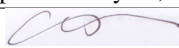
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Hf2773	Hf3399	K_7664	Li6707	Mg2790	Mn2576	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.3126	.54027	.17055	-.00361	-.01732	-.00014	-.00056
Stddev	.5307	1.8861	.08740	.00202	.01400	.00033	.00034
%RSD	40.428	349.11	51.249	56.043	80.820	236.82	61.130

#1	.70101	-.01676	.08088	-.00459	-.00746	-.00006	-.00083
#2	1.5861	2.6422	.25550	-.00128	-.01116	.00014	-.00017
#3	1.6509	-1.0046	.17526	-.00495	-.03335	-.00051	-.00068

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: July 27, 2012



Sample Name: L1207069801 Acquired: 7/25/2012 18:17:24 Type: Unk
 Method: ICP-THERMO2_6010_200.7(v1999) Mode: CONC Corr. Factor: 1.000000
 User: KHR Custom ID1: Custom ID2: Custom ID3:
 Comment:

Elem	Na5895	Ni2316	P_2149	Pb2203	Rb7800	S_1807	S_1820
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.06241	-.00178	F -2.9061	.00068	F 28.801	F -.12469	6.1698
Stddev	.01458	.00034	21.522	.00113	11.849	.04639	.6777
%RSD	23.365	18.830	740.58	165.16	41.142	37.203	10.984

#1	.06500	-.00174	-27.379	-.00028	16.669	-.08271	5.4690
#2	.07553	-.00214	13.070	.00041	40.346	-.11686	6.2186
#3	.04671	-.00147	5.5909	.00192	29.387	-.17449	6.8218

Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Fail	Chk Fail	Chk Pass
High Limit			900.00		9.0000	9.0000	
Low Limit			-.00400		-.00400	-.00400	

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3372	Tl1908
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.00260	-.00555	.01600	-.00096	.00023	-.00025	-.00058
Stddev	.00308	.00316	.00625	.00025	.00048	.00284	.00254
%RSD	118.44	57.032	39.088	25.492	206.47	1122.4	435.79

#1	-.00041	-.00385	.01073	-.00093	-.00024	.00135	-.00218
#2	-.00612	-.00920	.02291	-.00074	.00021	.00142	-.00192
#3	-.00127	-.00360	.01436	-.00122	.00072	-.00353	.00235

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm
Avg	-.00009	.00510	F -1.6849
Stddev	.00031	.00009	.3953
%RSD	356.56	1.6836	23.459

#1	-.00035	.00501	-1.5336
#2	.00025	.00513	-2.1335
#3	-.00015	.00517	-1.3877

Check ?	Chk Pass	Chk Pass	Chk Fail
High Limit			45.000
Low Limit			-.00400

Approved: July 27, 2012



Sample Name: L1207069801 Acquired: 7/25/2012 18:17:24 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1999) Mode: CONC Corr. Factor: 1.000000
User: KHR Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	23583.	14913.
Stddev	432.	592.
%RSD	1.8301	3.9707
#1	23967.	15597.
#2	23116.	14568.
#3	23666.	14574.

Approved: July 27, 2012



Sample Name: CCV Acquired: 7/25/2012 18:20:41 Type: QC
 Method: ICP-THERMO2_6010_200.7(v1999) Mode: CONC Corr. Factor: 1.000000
 User: KHR Custom ID1: Custom ID2: Custom ID3:
 Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.40059	10.176	.39030	.50689	1.0411	.05199	10.248
Stddev	.01699	.630	.00304	.01930	.0646	.00222	.602
%RSD	4.2401	6.1882	.77955	3.8070	6.2101	4.2651	5.8761

#1	.41316	9.4585	.39095	.52180	.96716	.05371	9.5626
#2	.40734	10.430	.38699	.51378	1.0689	.05277	10.488
#3	.38126	10.638	.39297	.48510	1.0871	.04949	10.693

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	Hf2322	Hf2641
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.05016	.20102	.50446	.50268	4.1998	1.0077	F .47082
Stddev	.00012	.00017	.02369	.00056	.2671	.0061	.62554
%RSD	.24617	.08351	4.6955	.11157	6.3606	.60589	132.86

#1	.05005	.20085	.52501	.50205	3.8956	1.0010	1.1863
#2	.05029	.20104	.50980	.50287	4.3074	1.0091	.02707
#3	.05013	.20118	.47855	.50312	4.3963	1.0130	.19912

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
Value							1.0000
Range							-10.000%

Elem	Hf2773	Hf3399	K_7664	Li6707	Mg2790	Mn2576	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F .59257	F 1.1134	52.166	.99646	10.712	.50189	1.0049
Stddev	1.2113	.4563	3.233	.06702	.690	.03139	.0018
%RSD	204.41	40.980	6.1968	6.7254	6.4366	6.2551	.18074

#1	-.79152	.68601	48.461	.91988	9.9252	.46632	1.0040
#2	1.4588	1.5939	53.626	1.0251	11.002	.51364	1.0070
#3	1.1104	1.0602	54.411	1.0444	11.210	.52572	1.0038

Check ?	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	1.0000	1.0000					
Range	-10.000%	10.000%					

Approved: July 27, 2012



Sample Name: CCV Acquired: 7/25/2012 18:20:41 Type: QC
 Method: ICP-THERMO2_6010_200.7(v1999) Mode: CONC Corr. Factor: 1.000000
 User: KHR Custom ID1: Custom ID2: Custom ID3:
 Comment:

Elem	Na5895	Ni2316	P_2149	Pb2203	Rb7800	S_1807	S_1820
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	53.058	.52956	F 22.975	.52346	F 15.342	10.496	10.902
Stddev	3.289	.00091	13.881	.00273	17.001	.157	1.642
%RSD	6.1993	.17156	60.419	.52152	110.82	1.4944	15.060

#1	49.301	.52924	21.360	.52259	-.21688	10.531	9.2225
#2	54.452	.53059	37.593	.52127	12.753	10.324	12.503
#3	55.421	.52886	9.9720	.52652	33.489	10.632	10.980

Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Fail	Chk Pass	Chk Pass
Value			10.000		10.000		
Range			10.000%		10.000%		

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3372	Ti1908
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.2773	.39494	F 5.8203	1.0526	1.0616	.99650	.54046
Stddev	.0045	.00269	.0198	.0011	.0688	.06557	.00657
%RSD	.35194	.68044	.33972	.10126	6.4802	6.5798	1.2148

#1	1.2823	.39233	5.8416	1.0518	.98281	.92221	.54697
#2	1.2760	.39480	5.8024	1.0538	1.0920	1.0210	.54057
#3	1.2736	.39770	5.8169	1.0523	1.1099	1.0463	.53384


Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value			5.0000				
Range			10.000%				

Elem	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm
Avg	.96596	1.0357	F .72086
Stddev	.04679	.0012	.46071
%RSD	4.8440	.11711	63.911

#1	1.0070	1.0345	1.1782
#2	.97581	1.0369	.72756
#3	.91503	1.0356	.25684

Check ?	Chk Pass	Chk Pass	Chk Fail
Value			1.0000
Range			-10.000%

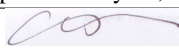
Approved: July 27, 2012



Sample Name: CCV Acquired: 7/25/2012 18:20:41 Type: QC
Method: ICP-THERMO2_6010_200.7(v1999) Mode: CONC Corr. Factor: 1.000000
User: KHR Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	24217.	15289.
Stddev	381.	406.
%RSD	1.5724	2.6586
#1	23778.	15757.
#2	24451.	15082.
#3	24422.	15027.

Approved: July 27, 2012



Sample Name: CCB Acquired: 7/25/2012 18:23:46 Type: Blank
 Method: ICP-THERMO2_6010_200.7(v1999) Mode: CONC Corr. Factor: 1.000000
 User: KHR Custom ID1: Custom ID2: Custom ID3:
 Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00035	.03529	.00078	.00348	.00154	-.00002	.00526
Stddev	.00156	.09254	.00199	.00121	.00130	.00003	.01330
%RSD	442.64	262.24	254.08	34.861	83.929	148.02	252.69

#1	.00211	.04786	-.00144	.00360	.00261	.00002	.01740
#2	-.00023	-.06289	.00240	.00464	.00010	-.00003	-.00896
#3	-.00083	.12089	.00138	.00222	.00191	-.00005	.00736

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	Hf2322	Hf2641
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00011	.00019	-.00093	.00030	-.00379	-.01076	F .59092
Stddev	.00003	.00012	.00119	.00021	.01328	.00362	.08562
%RSD	22.871	63.683	127.62	71.471	350.73	33.636	14.489

#1	.00009	.00007	.00030	.00024	-.00018	-.00864	.54760
#2	.00014	.00020	-.00103	.00053	-.01850	-.01494	.68955
#3	.00010	.00031	-.00207	.00012	.00732	-.00870	.53563

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit							.10000
Low Limit							-.10000

Elem	Hf2773	Hf3399	K_7664	Li6707	Mg2790	Mn2576	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F .86918	F .55571	.33456	-.00478	-.00722	.00021	.00032
Stddev	.16382	.90537	.08313	.00805	.02440	.00188	.00005
%RSD	18.847	162.92	24.846	168.38	337.99	915.58	13.973

#1	.68341	-.45899	.42158	.00334	.00541	.00228	.00027
#2	.93118	1.2809	.25597	-.01276	.00828	-.00026	.00034
#3	.99293	.84520	.32612	-.00492	-.03535	-.00140	.00035

Check ?	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	.10000	.10000					
Low Limit	-.10000	-.10000					

Approved: July 27, 2012



Sample Name: CCB Acquired: 7/25/2012 18:23:46 Type: Blank
 Method: ICP-THERMO2_6010_200.7(v1999) Mode: CONC Corr. Factor: 1.000000
 User: KHR Custom ID1: Custom ID2: Custom ID3:
 Comment:

Elem	Na5895	Ni2316	P_2149	Pb2203	Rb7800	S_1807	S_1820
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.18502	-.00122	F 18.200	-.00175	F 14.336	F -.10058	F 5.6657
Stddev	.11263	.00026	2.083	.00239	10.370	.06589	2.3062
%RSD	60.875	21.314	11.444	136.23	72.338	65.507	40.705

#1	.30604	-.00141	18.322	-.00241	13.181	-.13762	3.1427
#2	.16573	-.00092	20.219	-.00374	4.5911	-.13961	6.1894
#3	.08328	-.00133	16.059	.00089	25.235	-.02451	7.6651

Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Fail	Chk Fail	Chk Fail
High Limit			.01000		.01000	.01000	.01000
Low Limit			-.01000		-.01000	-.01000	-.01000

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3372	Tl1908
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00112	-.00284	.00821	-.00055	.00188	.00002	.00124
Stddev	.00280	.00554	.00422	.00024	.00165	.00423	.00277
%RSD	249.85	195.09	51.397	44.428	87.704	17364.	223.08

#1	.00335	-.00919	.01232	-.00061	.00379	.00077	.00294
#2	-.00203	-.00034	.00843	-.00076	.00109	.00383	-.00195
#3	.00205	.00101	.00388	-.00028	.00078	-.00452	.00273

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm
Avg	-.00006	-.00024	F -1.4447
Stddev	.00090	.00012	.5418
%RSD	1562.2	52.040	37.504

#1	.00007	-.00037	-1.7928
#2	-.00102	-.00021	-1.7208
#3	.00077	-.00013	-.82043

Check ?	Chk Pass	Chk Pass	Chk Fail
High Limit			.10000
Low Limit			-.10000

Approved: July 27, 2012



Sample Name: CCB Acquired: 7/25/2012 18:23:46 Type: Blank
Method: ICP-THERMO2_6010_200.7(v1999) Mode: CONC Corr. Factor: 1.000000
User: KHR Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	24257.	15188.
Stddev	153.	513.
%RSD	.62995	3.3791
#1	24237.	15780.
#2	24116.	14924.
#3	24419.	14861.

Approved: July 27, 2012



Sample Name: PBW 92 Acquired: 7/25/2012 18:26:57 Type: Unk
 Method: ICP-THERMO2_6010_200.7(v1999) Mode: CONC Corr. Factor: 1.000000
 User: KHR Custom ID1: Custom ID2: Custom ID3:
 Comment: WG404367-02

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00040	.00644	-.00218	.00233	-.00031	-.00002	-.07032
Stddev	.00133	.04225	.00189	.00066	.00017	.00003	.01111
%RSD	332.49	655.58	86.555	28.399	53.439	205.93	15.803

#1	.00001	.04346	-.00420	.00191	-.00012	-.00005	-.06159
#2	.00188	-.03958	-.00046	.00309	-.00044	-.00001	-.06655
#3	-.00069	.01546	-.00188	.00198	-.00037	.00001	-.08283

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	Hf2322	Hf2641
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00025	-.00003	-.00060	-.00075	F -.02032	-.00832	.04879
Stddev	.00023	.00013	.00016	.00078	.01329	.00110	.45675
%RSD	90.475	407.10	27.445	103.83	65.410	13.263	936.20

#1	.00007	.00003	-.00045	-.00079	-.01693	-.00731	-.11277
#2	.00017	-.00018	-.00057	-.00151	-.03499	-.00815	-.30523
#3	.00051	.00005	-.00077	.00005	-.00906	-.00950	.56436

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass
High Limit					900.00		
Low Limit					-.02000		

Elem	Hf2773	Hf3399	K_7664	Li6707	Mg2790	Mn2576	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.92136	.46536	.23650	-.00050	-.01343	.00031	-.00007
Stddev	.31642	1.6227	.06979	.00617	.01361	.00085	.00018
%RSD	34.342	348.70	29.509	1225.0	101.38	275.54	269.24

#1	1.0358	-.79216	.30079	.00651	-.02605	-.00040	-.00023
#2	.56365	-.10887	.24644	-.00507	-.01523	.00007	.00012
#3	1.1646	2.2971	.16228	-.00295	.00100	.00125	-.00009

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: July 27, 2012



Sample Name: PBW 92 Acquired: 7/25/2012 18:26:57 Type: Unk
 Method: ICP-THERMO2_6010_200.7(v1999) Mode: CONC Corr. Factor: 1.000000
 User: KHR Custom ID1: Custom ID2: Custom ID3:
 Comment: WG404367-02

Elem	Na5895	Ni2316	P_2149	Pb2203	Rb7800	S_1807	S_1820
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.08987	.00079	8.0698	-.00163	F 22.105	.11151	F -2.4807
Stddev	.03103	.00016	4.5694	.00065	11.349	.07075	.7088
%RSD	34.526	20.495	56.623	39.835	51.344	63.449	28.571

#1	.12481	.00066	9.4390	-.00181	9.1692	.11447	-1.9166
#2	.06553	.00097	11.798	-.00091	30.394	.18073	-2.2494
#3	.07928	.00073	2.9724	-.00218	26.751	.03932	-3.2763

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Fail
High Limit					9.0000		9.0000
Low Limit					-.00400		-.00400

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3372	Tl1908
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.00211	-.00072	.00476	-.00077	.00021	.00054	.00318
Stddev	.00122	.00301	.00318	.00056	.00031	.00171	.00158
%RSD	57.930	418.37	66.951	73.213	147.14	315.79	49.675

#1	-.00322	.00221	.00261	-.00096	.00035	.00043	.00174
#2	-.00080	-.00056	.00324	-.00013	-.00014	-.00111	.00292
#3	-.00232	-.00381	.00842	-.00120	.00042	.00230	.00487

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm
Avg	-.00008	.00136	F -.98663
Stddev	.00021	.00016	.61847
%RSD	270.45	11.653	62.685

#1	-.00023	.00122	-1.6222
#2	-.00015	.00132	-.95080
#3	.00016	.00153	-.38685

Check ?	Chk Pass	Chk Pass	Chk Fail
High Limit			45.000
Low Limit			-.00400

Approved: July 27, 2012



Sample Name: PBW 92 Acquired: 7/25/2012 18:26:57 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1999) Mode: CONC Corr. Factor: 1.000000
User: KHR Custom ID1: Custom ID2: Custom ID3:
Comment: WG404367-02

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	25480.	15480.
Stddev	126.	652.
%RSD	.49586	4.2120
#1	25334.	16233.
#2	25565.	15099.
#3	25540.	15109.

Approved: July 27, 2012



Sample Name: LCSW 92 Acquired: 7/25/2012 18:30:05 Type: Unk
 Method: ICP-THERMO2_6010_200.7(v1999) Mode: CONC Corr. Factor: 1.000000
 User: KHR Custom ID1: Custom ID2: Custom ID3:
 Comment: WG404367-03

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.19176	4.9620	.19058	.96089	.50084	.02477	4.8843
Stddev	.00444	.4154	.00157	.01498	.03893	.00040	.3176
%RSD	2.3151	8.3712	.82245	1.5594	7.7724	1.6061	6.5026

#1	.19565	4.4837	.18943	.97572	.45613	.02512	4.5188
#2	.18692	5.1707	.19236	.94576	.51921	.02434	5.0409
#3	.19269	5.2317	.18995	.96118	.52718	.02485	5.0932

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	Hf2322	Hf2641
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.02452	.09839	.23887	.24659	1.9730	.48204	.37775
Stddev	.00014	.00015	.00338	.00054	.1498	.00527	.41079
%RSD	.56543	.15017	1.4145	.21705	7.5932	1.0939	108.75

#1	.02455	.09842	.24208	.24717	1.8000	.47730	.40756
#2	.02463	.09852	.23534	.24610	2.0567	.48772	.77282
#3	.02436	.09823	.23920	.24652	2.0623	.48109	-.04714

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Hf2773	Hf3399	K_7664	Li6707	Mg2790	Mn2576	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.89874	F -.27257	25.039	.49801	5.2165	.24406	.48676
Stddev	.29515	1.4462	1.926	.04614	.4012	.01869	.00030
%RSD	32.840	530.59	7.6931	9.2655	7.6918	7.6589	.06181

#1	1.2171	-1.1104	22.818	.44474	4.7597	.22256	.48642
#2	.63427	1.3974	26.034	.52359	5.3779	.25310	.48684
#3	.84482	-1.1047	26.264	.52570	5.5119	.25651	.48701

Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit		45.000					
Low Limit		-.10000					

Approved: July 27, 2012



Sample Name: LCSW 92 Acquired: 7/25/2012 18:30:05 Type: Unk
 Method: ICP-THERMO2_6010_200.7(v1999) Mode: CONC Corr. Factor: 1.000000
 User: KHR Custom ID1: Custom ID2: Custom ID3:
 Comment: WG404367-03

Elem	Na5895	Ni2316	P_2149	Pb2203	Rb7800	S_1807	S_1820
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	26.235	.26042	5.9494	.25494	6.4040	5.2907	4.3758
Stddev	2.025	.00048	12.166	.00133	8.1306	.0223	2.5598
%RSD	7.7171	.18350	204.49	.52222	126.96	.42150	58.498

#1	23.908	.26096	-3.0379	.25646	.82847	5.2666	4.9797
#2	27.200	.26005	1.0925	.25433	15.733	5.2947	1.5681
#3	27.597	.26025	19.794	.25402	2.6503	5.3107	6.5797

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3372	Tl1908
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.61767	.19641	2.8916	.52372	.50683	.48177	.26367
Stddev	.00613	.00025	.0239	.00217	.03974	.03506	.00298
%RSD	.99325	.12515	.82572	.41455	7.8409	7.2774	1.1302

#1	.61393	.19653	2.8721	.52352	.46107	.44170	.26392
#2	.61433	.19612	2.8844	.52165	.52677	.49681	.26057
#3	.62475	.19657	2.9182	.52598	.53265	.50680	.26652

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm
Avg	.45829	.51504	.08755
Stddev	.00895	.00033	.25399
%RSD	1.9531	.06343	290.09

#1	.46705	.51479	.33697
#2	.44916	.51492	.09647
#3	.45865	.51541	-.17077

Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

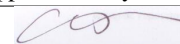
Approved: July 27, 2012



Sample Name: LCSW 92 Acquired: 7/25/2012 18:30:05 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1999) Mode: CONC Corr. Factor: 1.000000
User: KHR Custom ID1: Custom ID2: Custom ID3:
Comment: WG404367-03

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	25450.	15703.
Stddev	29.	526.
%RSD	.11473	3.3502
#1	25470.	16299.
#2	25417.	15301.
#3	25464.	15509.

Approved: July 27, 2012



Sample Name: L1207068701 Acquired: 7/25/2012 18:33:10 Type: Unk
 Method: ICP-THERMO2_6010_200.7(v1999) Mode: CONC Corr. Factor: 1.000000
 User: KHR Custom ID1: Custom ID2: Custom ID3:
 Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-0.0001	.09302	-0.00061	.00399	.00162	.00002	.12421
Stddev	.00076	.03384	.00258	.00105	.00063	.00002	.02794
%RSD	5631.4	36.378	423.30	26.263	38.949	111.02	22.493

#1	-0.00088	.08944	.00002	.00511	.00184	.00005	.12675
#2	.00054	.06112	.00160	.00303	.00091	.00000	.09509
#3	.00030	.12851	-0.00345	.00384	.00211	.00002	.15080

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	Hf2322	Hf2641
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00013	-0.00016	-0.00034	.00052	-0.01041	-0.00097	F -0.47447
Stddev	.00020	.00020	.00040	.00007	.00105	.00203	.69439
%RSD	149.87	128.29	119.53	13.844	10.072	209.75	146.35

#1	.00018	.00008	-0.00002	.00044	-0.01103	-0.00290	.30891
#2	-0.00009	-0.00028	-0.00020	.00058	-0.01099	.00115	-0.71815
#3	.00030	-0.00027	-0.00079	.00054	-0.00920	-0.00116	-1.0142

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit							45.000
Low Limit							-1.0000

Elem	Hf2773	Hf3399	K_7664	Li6707	Mg2790	Mn2576	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.3839	-0.06279	.27215	-0.00466	.04429	.00081	.00019
Stddev	.4475	.79903	.09838	.00583	.00862	.00077	.00022
%RSD	32.338	1272.6	36.148	125.10	19.462	94.492	118.27

#1	1.5455	-0.91422	.38229	.00037	.05412	.00125	.00045
#2	1.7281	.67075	.19300	-0.00330	.03805	-0.00007	.00007
#3	.87800	.05510	.24115	-0.01106	.04068	.00127	.00005

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: July 27, 2012



Sample Name: L1207068701 Acquired: 7/25/2012 18:33:10 Type: Unk
 Method: ICP-THERMO2_6010_200.7(v1999) Mode: CONC Corr. Factor: 1.000000
 User: KHR Custom ID1: Custom ID2: Custom ID3:
 Comment:

Elem	Na5895	Ni2316	P_2149	Pb2203	Rb7800	S_1807	S_1820
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.24412	.00039	F -3.8488	-.00186	6.6028	.65355	F -13.491
Stddev	.03171	.00124	8.5542	.00193	5.6648	.08088	.748
%RSD	12.988	316.86	222.26	103.56	85.793	12.376	5.5466

#1	.26658	.00173	4.0823	-.00195	11.829	.74249	-12.645
#2	.20785	.00018	-2.7154	-.00374	.58338	.63376	-14.067
#3	.25793	-.00073	-12.913	.00011	7.3957	.58440	-13.760

Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit			900.00				9.0000
Low Limit			-.00400				-.00400

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3372	Tl1908
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.00297	-.00054	.07755	-.00115	.00137	.00069	.00392
Stddev	.00344	.00434	.00553	.00021	.00061	.00202	.00264
%RSD	115.75	797.13	7.1283	18.021	44.204	290.56	67.529

#1	-.00604	-.00068	.07328	-.00115	.00207	-.00164	.00651
#2	-.00361	-.00482	.08380	-.00094	.00098	.00179	.00122
#3	.00074	.00386	.07559	-.00136	.00107	.00193	.00401

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm
Avg	-.00072	.00201	F -.61873
Stddev	.00042	.00004	.46618
%RSD	58.814	2.0341	75.344

#1	-.00054	.00205	-.74996
#2	-.00121	.00197	-.10101
#3	-.00042	.00200	-1.0052

Check ?	Chk Pass	Chk Pass	Chk Fail
High Limit			45.000
Low Limit			-.00400


Approved: July 27, 2012



Sample Name: L1207068701 Acquired: 7/25/2012 18:33:10 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1999) Mode: CONC Corr. Factor: 1.000000
User: KHR Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	25306.	15662.
Stddev	252.	721.
%RSD	.99395	4.6011
#1	25281.	16487.
#2	25068.	15350.
#3	25569.	15150.

Approved: July 27, 2012



Sample Name: L1207068702 Acquired: 7/25/2012 18:36:19 Type: Unk
 Method: ICP-THERMO2_6010_200.7(v1999) Mode: CONC Corr. Factor: 1.000000
 User: KHR Custom ID1: Custom ID2: Custom ID3:
 Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00118	.01733	-.00064	.00360	.00161	.00003	.10860
Stddev	.00109	.02311	.00303	.00057	.00062	.00003	.03858
%RSD	92.567	133.33	472.42	15.939	38.429	102.42	35.525

#1	.00244	.02630	.00273	.00414	.00133	.00007	.08286
#2	.00054	-.00892	-.00315	.00366	.00231	.00000	.15296
#3	.00056	.03461	-.00151	.00300	.00117	.00003	.08999

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	Hf2322	Hf2641
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00015	.00008	-.00041	.00201	-.00768	-.01007	.13441
Stddev	.00020	.00011	.00037	.00048	.01425	.00619	.44695
%RSD	135.66	143.17	88.995	23.871	185.66	61.510	332.53

#1	.00034	.00012	-.00074	.00246	-.02236	-.01609	.64788
#2	-.00006	.00016	-.00001	.00150	.00611	-.00372	-.16730
#3	.00017	-.00005	-.00049	.00208	-.00678	-.01040	-.07736

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Hf2773	Hf3399	K_7664	Li6707	Mg2790	Mn2576	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.84700	.95075	.16522	.00110	.06474	-.00003	-.00022
Stddev	.66167	.69359	.04437	.00131	.02584	.00046	.00041
%RSD	78.119	72.952	26.855	119.42	39.920	1672.2	184.87

#1	1.3180	.75391	.15628	.00251	.09189	.00045	-.00009
#2	1.1325	.37685	.21338	-.00008	.06189	-.00045	.00011
#3	.09050	1.7215	.12600	.00086	.04044	-.00008	-.00068

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: July 27, 2012



Sample Name: L1207068702 Acquired: 7/25/2012 18:36:19 Type: Unk
 Method: ICP-THERMO2_6010_200.7(v1999) Mode: CONC Corr. Factor: 1.000000
 User: KHR Custom ID1: Custom ID2: Custom ID3:
 Comment:

Elem	Na5895	Ni2316	P_2149	Pb2203	Rb7800	S_1807	S_1820
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.22124	.00078	.63728	.00237	F 14.034	1.4950	F -40.381
Stddev	.02707	.00096	11.738	.00055	2.930	.0290	1.161
%RSD	12.235	123.14	1842.0	22.962	20.876	1.9387	2.8745

#1	.22327	.00177	-12.694	.00190	10.959	1.5264	-41.565
#2	.19321	.00070	9.4221	.00225	16.793	1.4693	-39.245
#3	.24723	-.00014	5.1842	.00297	14.351	1.4891	-40.331

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Fail
High Limit					9.0000		9.0000
Low Limit					-.00400		-.00400

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3372	Tl1908
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.00109	-.00169	.07930	-.00092	.00088	-.00044	.00273
Stddev	.00303	.00432	.00530	.00027	.00018	.00115	.00230
%RSD	278.96	256.23	6.6867	29.609	20.156	262.39	84.169

#1	.00051	.00151	.07525	-.00081	.00084	.00080	.00036
#2	.00081	-.00660	.08530	-.00073	.00073	-.00063	.00288
#3	-.00458	.00003	.07735	-.00124	.00108	-.00148	.00494

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm
Avg	.00008	.00205	F -1.2931
Stddev	.00062	.00009	.3093
%RSD	742.41	4.1936	23.920

#1	-.00002	.00206	-.93973
#2	.00075	.00213	-1.4246
#3	-.00048	.00196	-1.5149

Check ?	Chk Pass	Chk Pass	Chk Fail
High Limit			45.000
Low Limit			-.00400

Approved: July 27, 2012



Sample Name: L1207068702 Acquired: 7/25/2012 18:36:19 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1999) Mode: CONC Corr. Factor: 1.000000
User: KHR Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	25690.	15726.
Stddev	157.	470.
%RSD	.60968	2.9876
#1	25676.	16260.
#2	25541.	15539.
#3	25853.	15378.

Approved: July 27, 2012



Sample Name: L1207068703 Acquired: 7/25/2012 18:39:27 Type: Unk
 Method: ICP-THERMO2_6010_200.7(v1999) Mode: CONC Corr. Factor: 1.000000
 User: KHR Custom ID1: Custom ID2: Custom ID3:
 Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00077	.02165	-.00226	.00170	.00127	-.00002	.02830
Stddev	.00097	.06125	.00141	.00044	.00077	.00008	.03717
%RSD	125.61	282.97	62.672	25.876	60.440	319.06	131.31

#1	.00184	-.00447	-.00310	.00211	.00049	.00001	.06124
#2	.00053	-.02222	-.00305	.00175	.00203	.00003	-.01199
#3	-.00005	.09162	-.00062	.00124	.00130	-.00011	.03567

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	Hf2322	Hf2641
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00015	-.00001	.00019	.00169	.01673	-.01250	.15323
Stddev	.00016	.00037	.00052	.00042	.00859	.00445	.29293
%RSD	107.33	5245.8	272.03	24.856	51.363	35.599	191.17

#1	.00020	-.00025	.00041	.00156	.02033	-.01354	-.14598
#2	-.00003	-.00019	.00056	.00216	.02294	-.00762	.43945
#3	.00027	.00042	-.00040	.00135	.00692	-.01634	.16622

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Hf2773	Hf3399	K_7664	Li6707	Mg2790	Mn2576	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.0554	1.0589	.28375	-.00372	.03512	.00070	-.00003
Stddev	.6428	1.8026	.00518	.00329	.02308	.00080	.00030
%RSD	60.904	170.24	1.8264	88.683	65.717	115.57	1165.1

#1	1.6505	1.6754	.28875	-.00276	.01774	.00022	.00019
#2	1.1420	2.4723	.28408	-.00100	.02632	.00162	-.00037
#3	.37371	-.97115	.27841	-.00738	.06130	.00024	.00010

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: July 27, 2012



Sample Name: L1207068703 Acquired: 7/25/2012 18:39:27 Type: Unk
 Method: ICP-THERMO2_6010_200.7(v1999) Mode: CONC Corr. Factor: 1.000000
 User: KHR Custom ID1: Custom ID2: Custom ID3:
 Comment:

Elem	Na5895	Ni2316	P_2149	Pb2203	Rb7800	S_1807	S_1820
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.23804	.00121	4.6474	-.00116	F 20.886	.80756	F -21.348
Stddev	.04045	.00093	4.5785	.00196	8.416	.04898	.690
%RSD	16.994	76.933	98.518	169.69	40.297	6.0653	3.2308

#1	.22739	.00183	6.6439	-.00046	13.609	.79077	-21.986
#2	.20397	.00014	-.59033	.00036	30.103	.86273	-21.441
#3	.28275	.00166	7.8885	-.00337	18.947	.76919	-20.616

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Fail
High Limit					9.0000		9.0000
Low Limit					-.00400		-.00400

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3372	Tl1908
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.00251	-.00087	.07154	-.00084	.00085	.00016	.00007
Stddev	.00336	.00130	.00789	.00023	.00032	.00221	.00302
%RSD	134.17	149.08	11.033	27.134	37.662	1410.1	4320.8

#1	-.00266	.00011	.07597	-.00107	.00061	.00269	-.00208
#2	-.00579	-.00038	.06243	-.00085	.00073	-.00085	-.00123
#3	.00093	-.00234	.07622	-.00061	.00121	-.00137	.00352

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm
Avg	-.00003	.00204	F -.12897
Stddev	.00059	.00004	.35938
%RSD	1756.5	2.0388	278.65

#1	.00061	.00199	.02163
#2	-.00018	.00207	.13061
#3	-.00054	.00206	-.53915

Check ?	Chk Pass	Chk Pass	Chk Fail
High Limit			45.000
Low Limit			-.00400

Approved: July 27, 2012



Sample Name: L1207068703 Acquired: 7/25/2012 18:39:27 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1999) Mode: CONC Corr. Factor: 1.000000
User: KHR Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	25237.	15368.
Stddev	117.	626.
%RSD	.46489	4.0704
#1	25358.	16089.
#2	25124.	15049.
#3	25230.	14967.

Approved: July 27, 2012



Sample Name: L1207068704 Acquired: 7/25/2012 18:42:36 Type: Unk
 Method: ICP-THERMO2_6010_200.7(v1999) Mode: CONC Corr. Factor: 1.000000
 User: KHR Custom ID1: Custom ID2: Custom ID3:
 Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00082	-.01683	-.00160	.00198	.00190	.00000	.09190
Stddev	.00150	.06105	.00077	.00114	.00012	.00005	.01718
%RSD	182.25	362.79	47.883	57.349	6.4130	10962.	18.699

#1	-.00029	-.05750	-.00073	.00312	.00187	-.00003	.07688
#2	.00023	-.04635	-.00191	.00084	.00179	-.00002	.08818
#3	.00253	.05337	-.00217	.00199	.00203	.00005	.11064

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	Hf2322	Hf2641
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00026	-.00004	-.00004	.00116	-.01724	-.00608	.46432
Stddev	.00028	.00027	.00040	.00070	.00756	.00289	.56044
%RSD	105.17	778.93	1035.6	60.398	43.845	47.533	120.70

#1	-.00002	-.00032	.00040	.00119	-.02459	-.00667	.99917
#2	.00053	.00023	-.00015	.00184	-.01765	-.00294	.51240
#3	.00029	-.00001	-.00037	.00044	-.00949	-.00863	-.11860

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Hf2773	Hf3399	K_7664	Li6707	Mg2790	Mn2576	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.74022	F -.78032	.14420	-.00367	.09169	.00009	-.00010
Stddev	.48828	1.2681	.14157	.00137	.03457	.00077	.00037
%RSD	65.965	162.52	98.174	37.414	37.702	823.92	386.26

#1	.27509	-1.9633	.21248	-.00295	.05179	-.00036	.00033
#2	.69680	.55858	.23870	-.00525	.11249	-.00034	-.00030
#3	1.2488	-.93626	-.01856	-.00280	.11079	.00099	-.00032

Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit		45.000					
Low Limit		-.10000					

Approved: July 27, 2012



Sample Name: L1207068704 Acquired: 7/25/2012 18:42:36 Type: Unk
 Method: ICP-THERMO2_6010_200.7(v1999) Mode: CONC Corr. Factor: 1.000000
 User: KHR Custom ID1: Custom ID2: Custom ID3:
 Comment:

Elem	Na5895	Ni2316	P_2149	Pb2203	Rb7800	S_1807	S_1820
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.26011	.00004	5.6298	.00008	F 19.304	.91449	F -26.771
Stddev	.01850	.00045	2.5878	.00049	2.202	.02621	2.280
%RSD	7.1133	1126.6	45.965	641.68	11.406	2.8662	8.5182

#1	.27415	-.00019	2.6417	.00019	16.830	.90016	-25.819
#2	.23915	.00056	7.1367	-.00046	20.035	.89856	-29.373
#3	.26704	-.00025	7.1109	.00051	21.048	.94474	-25.121

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Fail
High Limit					9.0000		9.0000
Low Limit					-.00400		-.00400

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3372	Tl1908
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00089	-.00305	.09009	-.00084	.00083	-.00129	.00123
Stddev	.00502	.00152	.01123	.00062	.00009	.00184	.00116
%RSD	564.37	49.972	12.468	74.269	10.894	142.65	94.574

#1	-.00449	-.00217	.10290	-.00030	.00093	.00050	.00051
#2	.00545	-.00481	.08544	-.00153	.00079	-.00120	.00061
#3	.00171	-.00217	.08193	-.00069	.00076	-.00317	.00257

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm
Avg	.00030	.00328	F -1.1161
Stddev	.00068	.00010	.2983
%RSD	223.91	2.9710	26.728

#1	-.00032	.00324	-.77656
#2	.00020	.00339	-1.3362
#3	.00103	.00320	-1.2356

Check ?	Chk Pass	Chk Pass	Chk Fail
High Limit			45.000
Low Limit			-.00400

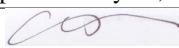
Approved: July 27, 2012



Sample Name: L1207068704 Acquired: 7/25/2012 18:42:36 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1999) Mode: CONC Corr. Factor: 1.000000
User: KHR Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	25069.	15201.
Stddev	177.	515.
%RSD	.70546	3.3892
#1	25026.	15793.
#2	25264.	14862.
#3	24918.	14946.

Approved: July 27, 2012



Sample Name: L1207068705 Acquired: 7/25/2012 18:45:45 Type: Unk
 Method: ICP-THERMO2_6010_200.7(v1999) Mode: CONC Corr. Factor: 1.000000
 User: KHR Custom ID1: Custom ID2: Custom ID3:
 Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.00029	.11000	-.00079	.00650	.00729	.00001	1.3961
Stddev	.00181	.06345	.00039	.00175	.00160	.00005	.0801
%RSD	613.05	57.684	50.083	26.968	21.986	539.55	5.7376

#1	-.00148	.05339	-.00094	.00467	.00545	.00006	1.3070
#2	-.00118	.17859	-.00034	.00816	.00840	.00001	1.4191
#3	.00178	.09803	-.00108	.00669	.00802	-.00004	1.4622

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	Hf2322	Hf2641
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00027	-.00009	-.00020	.05181	.03773	-.00383	.23103
Stddev	.00025	.00024	.00066	.00033	.00774	.00236	.24930
%RSD	92.264	266.86	331.39	.64568	20.517	61.502	107.91

#1	.00023	.00018	-.00012	.05185	.03283	-.00639	-.02365
#2	.00054	-.00017	.00042	.05212	.03371	-.00176	.47458
#3	.00004	-.00027	-.00089	.05145	.04666	-.00334	.24215

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Hf2773	Hf3399	K_7664	Li6707	Mg2790	Mn2576	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.1520	F -1.0256	.44881	-.00593	.51600	.00523	.00009
Stddev	.9549	1.7812	.08158	.00733	.07240	.00146	.00025
%RSD	82.896	173.68	18.178	123.52	14.031	27.951	271.62

#1	1.1346	.06917	.36573	.00253	.43728	.00361	.00029
#2	.20587	-.06506	.45187	-.01016	.53097	.00645	.00017
#3	2.1155	-3.0809	.52881	-.01017	.57974	.00564	-.00019

Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit		45.000					
Low Limit		-.10000					

Approved: July 27, 2012



Sample Name: L1207068705 Acquired: 7/25/2012 18:45:45 Type: Unk
 Method: ICP-THERMO2_6010_200.7(v1999) Mode: CONC Corr. Factor: 1.000000
 User: KHR Custom ID1: Custom ID2: Custom ID3:
 Comment:

Elem	Na5895	Ni2316	P_2149	Pb2203	Rb7800	S_1807	S_1820
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.82559	.00143	24.104	.00275	F 21.560	3.2068	F -53.355
Stddev	.03019	.00104	15.170	.00164	5.761	.1587	.755
%RSD	3.6569	72.638	62.938	59.474	26.723	4.9486	1.4143

#1	.79259	.00141	41.114	.00111	16.209	3.3363	-53.971
#2	.85181	.00040	19.224	.00438	20.813	3.0298	-52.513
#3	.83239	.00248	11.973	.00277	27.658	3.2542	-53.580

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Fail
High Limit					9.0000		9.0000
Low Limit					-.00400		-.00400

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3372	Tl1908
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.00378	.00063	.44326	-.00075	.00389	.00003	.00069
Stddev	.00182	.00250	.00653	.00022	.00044	.00356	.00223
%RSD	48.031	396.16	1.4740	29.645	11.413	12324.	322.97

#1	-.00450	-.00208	.44781	-.00089	.00350	.00107	.00250
#2	-.00513	.00111	.43578	-.00049	.00378	-.00394	.00138
#3	-.00172	.00286	.44621	-.00088	.00437	.00296	-.00181

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm
Avg	.00117	.01861	.08986
Stddev	.00038	.00017	.45326
%RSD	32.954	.88791	504.39

#1	.00155	.01867	.38147
#2	.00117	.01843	.32045
#3	.00078	.01874	-.43233

Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

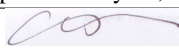
Approved: July 27, 2012



Sample Name: L1207068705 Acquired: 7/25/2012 18:45:45 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1999) Mode: CONC Corr. Factor: 1.000000
User: KHR Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	25248.	15094.
Stddev	448.	568.
%RSD	1.7736	3.7618
#1	25148.	15713.
#2	24858.	14971.
#3	25737.	14597.

Approved: July 27, 2012



Sample Name: L1207068706 Acquired: 7/25/2012 18:48:53 Type: Unk
 Method: ICP-THERMO2_6010_200.7(v1999) Mode: CONC Corr. Factor: 1.000000
 User: KHR Custom ID1: Custom ID2: Custom ID3:
 Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00111	.09025	-.00176	.07452	.00183	.00003	.21682
Stddev	.00093	.01936	.00048	.00381	.00066	.00009	.01783
%RSD	83.912	21.448	27.509	5.1087	36.240	339.12	8.2246

#1	.00112	.08293	-.00126	.07887	.00111	-.00003	.23035
#2	.00017	.11220	-.00222	.07293	.00242	-.00002	.19661
#3	.00203	.07562	-.00180	.07177	.00196	.00012	.22348

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	Hf2322	Hf2641
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00024	-.00005	-.00076	.01413	.03818	-.01349	F -.53969
Stddev	.00018	.00013	.00036	.00065	.00877	.00458	.33118
%RSD	74.768	243.29	46.766	4.6042	22.971	33.944	61.365

#1	.00005	-.00015	-.00052	.01339	.03419	-.01746	-.91642
#2	.00026	-.00010	-.00117	.01437	.04824	-.01454	-.40816
#3	.00042	.00009	-.00059	.01462	.03212	-.00848	-.29447

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit							45.000
Low Limit							-.10000

Elem	Hf2773	Hf3399	K_7664	Li6707	Mg2790	Mn2576	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.1873	F -1.8248	.48586	-.00213	.04214	.00328	-.00008
Stddev	.2972	.8669	.08166	.00174	.00271	.00169	.00015
%RSD	25.029	47.505	16.807	81.907	6.4351	51.499	190.14

#1	1.3845	-1.5252	.39294	-.00179	.04036	.00140	-.00024
#2	.84550	-1.1474	.51846	-.00402	.04526	.00468	-.00006
#3	1.3319	-2.8017	.54618	-.00058	.04080	.00375	.00006

Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit		45.000					
Low Limit		-.10000					

Approved: July 27, 2012



Sample Name: L1207068706 Acquired: 7/25/2012 18:48:53 Type: Unk
 Method: ICP-THERMO2_6010_200.7(v1999) Mode: CONC Corr. Factor: 1.000000
 User: KHR Custom ID1: Custom ID2: Custom ID3:
 Comment:

Elem	Na5895	Ni2316	P_2149	Pb2203	Rb7800	S_1807	S_1820
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.0464	.00054	6.4493	.00023	F 10.290	1.8517	F -48.203
Stddev	.1447	.00062	15.509	.00124	1.460	.0185	1.790
%RSD	7.0707	115.02	240.48	538.82	14.190	.99653	3.7135

#1	1.8795	-0.0001	-3.3299	.00138	8.9556	1.8488	-49.807
#2	2.1228	.00042	-1.6541	-.00108	10.065	1.8349	-48.530
#3	2.1368	.00121	24.332	.00040	11.850	1.8715	-46.272

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Fail
High Limit					9.0000		9.0000
Low Limit					-.00400		-.00400

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3372	Tl1908
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00436	.00033	.64249	-.00022	.00072	.00420	.00156
Stddev	.00099	.00004	.00405	.00048	.00017	.00416	.00188
%RSD	22.825	13.090	.63096	213.52	23.107	98.997	120.67

#1	.00337	.00028	.64357	-.00067	.00067	.00299	.00360
#2	.00536	.00035	.64589	-.00028	.00091	.00078	-.00010
#3	.00434	.00035	.63800	.00028	.00059	.00883	.00117

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm
Avg	-.00059	.00640	F -.25825
Stddev	.00073	.00011	.68542
%RSD	123.24	1.6685	265.41

#1	-.00094	.00643	-.73314
#2	.00025	.00648	-.56913
#3	-.00108	.00628	.52753

Check ?	Chk Pass	Chk Pass	Chk Fail
High Limit			45.000
Low Limit			-.00400

Approved: July 27, 2012



Sample Name: L1207068706 Acquired: 7/25/2012 18:48:53 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1999) Mode: CONC Corr. Factor: 1.000000
User: KHR Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	25637.	15798.
Stddev	335.	728.
%RSD	1.3054	4.6051
#1	25347.	16594.
#2	25561.	15634.
#3	26003.	15167.

Approved: July 27, 2012



Sample Name: L1207068706PS Acquired: 7/25/2012 18:52:02 Type: Unk
 Method: ICP-THERMO2_6010_200.7(v1999) Mode: CONC Corr. Factor: 1.000000
 User: KHR Custom ID1: Custom ID2: Custom ID3:
 Comment: WG404498-01

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.19811	4.9194	.18873	1.0598	.50572	.02537	5.1105
Stddev	.00419	.4369	.00270	.0237	.04719	.00047	.4421
%RSD	2.1137	8.8815	1.4313	2.2313	9.3302	1.8376	8.6508

#1	.20262	4.4214	.19183	1.0819	.45177	.02586	4.6011
#2	.19434	5.0986	.18689	1.0348	.52611	.02493	5.3363
#3	.19738	5.2383	.18746	1.0626	.53929	.02533	5.3940

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	Hf2322	Hf2641
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.02454	.09860	.24604	.25950	2.0472	.49362	.05093
Stddev	.00011	.00043	.00484	.00066	.1937	.00477	.24826
%RSD	.44901	.43141	1.9657	.25244	9.4615	.96571	487.46

#1	.02454	.09812	.25090	.25987	1.8258	.49246	.32649
#2	.02465	.09873	.24123	.25989	2.1306	.49886	-.01841
#3	.02443	.09893	.24598	.25874	2.1852	.48954	-.15529

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Hf2773	Hf3399	K_7664	Li6707	Mg2790	Mn2576	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.70273	.44863	25.603	.48985	5.2919	.24756	.48991
Stddev	.29388	.41170	2.382	.04809	.5090	.02393	.00124
%RSD	41.820	91.767	9.3018	9.8172	9.6190	9.6678	.25263

#1	.80423	.13331	22.888	.43551	4.7055	.21993	.48960
#2	.37155	.29820	26.583	.50716	5.5492	.26090	.49128
#3	.93240	.91439	27.339	.52690	5.6208	.26186	.48886

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: July 27, 2012



Sample Name: L1207068706PS Acquired: 7/25/2012 18:52:02 Type: Unk
 Method: ICP-THERMO2_6010_200.7(v1999) Mode: CONC Corr. Factor: 1.000000
 User: KHR Custom ID1: Custom ID2: Custom ID3:
 Comment: WG404498-01

Elem	Na5895	Ni2316	P_2149	Pb2203	Rb7800	S_1807	S_1820
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	28.126	.26206	16.332	.25945	F 14.627	7.1590	F -51.382
Stddev	2.572	.00067	9.335	.00152	11.862	.0451	.595
%RSD	9.1434	.25577	57.154	.58436	81.097	.63019	1.1587

#1	25.191	.26138	6.2824	.26108	3.1404	7.1794	-52.041
#2	29.205	.26272	24.732	.25918	13.908	7.1904	-51.222
#3	29.983	.26207	17.983	.25808	26.832	7.1073	-50.884

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Fail
High Limit					9.0000		9.0000
Low Limit					-.00400		-.00400

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3372	Tl1908
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.62013	.19860	3.5325	.00083	.51374	.47585	.27146
Stddev	.00261	.00218	.0191	.00061	.04588	.04368	.00109
%RSD	.42019	1.0988	.54155	73.635	8.9315	9.1791	.40141

#1	.61734	.20112	3.5189	.00148	.46136	.42554	.27265
#2	.62250	.19725	3.5544	.00026	.53300	.49789	.27123
#3	.62054	.19744	3.5242	.00075	.54685	.50411	.27051

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm
Avg	.47004	.52556	.02622
Stddev	.01070	.00075	.47429
%RSD	2.2768	.14191	1808.7

#1	.48001	.52473	-.41261
#2	.45873	.52618	-.03813
#3	.47139	.52578	.52941

Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Approved: July 27, 2012



Sample Name: L1207068706PS Acquired: 7/25/2012 18:52:02 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1999) Mode: CONC Corr. Factor: 1.000000
User: KHR Custom ID1: Custom ID2: Custom ID3:
Comment: WG404498-01

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	25361.	15820.
Stddev	57.	678.
%RSD	.22460	4.2842
#1	25426.	16598.
#2	25318.	15511.
#3	25338.	15353.

Approved: July 27, 2012



Sample Name: L1207068706SDL Acquired: 7/25/2012 18:55:08 Type: Unk
 Method: ICP-THERMO2_6010_200.7(v1999) Mode: CONC Corr. Factor: 1.000000
 User: KHR Custom ID1: 5 Custom ID2: Custom ID3:
 Comment: WG404498-02

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00013	.03563	-.00213	.02100	.00104	.00000	.00648
Stddev	.00051	.06751	.00115	.00041	.00081	.0001	.05419
%RSD	399.04	189.49	53.923	1.9555	78.084	25437.	835.76

#1	.00028	-.04226	-.00129	.02056	.00170	.00006	.06389
#2	.00054	.07185	-.00344	.02107	.00013	.00002	-.04379
#3	-.00044	.07730	-.00166	.02138	.00128	-.00007	-.00064

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	Hf2322	Hf2641
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00016	.00004	-.00070	.00307	-.00541	-.00068	F -.22795
Stddev	.00016	.00055	.00098	.00033	.00895	.00195	.94111
%RSD	99.824	1326.1	139.90	10.819	165.41	288.71	412.85

#1	.00016	.00002	-.00114	.00292	.00493	-.00255	-.27127
#2	.00000	-.00050	.00042	.00345	-.01070	-.00083	-1.1466
#3	.00033	.00060	-.00139	.00283	-.01046	.00135	.73406

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit							45.000
Low Limit							-.10000

Elem	Hf2773	Hf3399	K_7664	Li6707	Mg2790	Mn2576	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.71054	F -.39903	.32141	-.00280	-.01377	.00099	.00015
Stddev	.43578	1.5075	.08126	.00319	.03125	.00119	.00036
%RSD	61.331	377.80	25.282	113.84	226.87	120.02	239.38

#1	1.1886	1.0845	.22875	-.00574	-.04598	.00199	-.00021
#2	.60759	-1.9295	.35499	-.00324	.01643	-.00032	.00014
#3	.33545	-.35209	.38051	.00058	-.01177	.00130	.00051

Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit		45.000					
Low Limit		-.10000					

Approved: July 27, 2012



Sample Name: L1207068706SDL Acquired: 7/25/2012 18:55:08 Type: Unk
 Method: ICP-THERMO2_6010_200.7(v1999) Mode: CONC Corr. Factor: 1.000000
 User: KHR Custom ID1: 5 Custom ID2: Custom ID3:
 Comment: WG404498-02

Elem	Na5895	Ni2316	P_2149	Pb2203	Rb7800	S_1807	S_1820
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.54137	-.00054	F -.54742	.00068	F 24.406	.29533	F -7.1504
Stddev	.04157	.00053	5.0077	.00206	13.066	.09320	1.2506
%RSD	7.6787	99.570	914.78	302.22	53.536	31.559	17.490

#1	.57487	-.00114	-5.3605	.00002	10.957	.39303	-5.8206
#2	.49485	-.00012	-.91623	.00299	25.209	.28556	-8.3028
#3	.55440	-.00035	4.6345	-.00097	37.052	.20740	-7.3279

Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Fail	Chk Pass	Chk Fail
High Limit			900.00		9.0000		9.0000
Low Limit			-.00400		-.00400		-.00400

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3372	Tl1908
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.00153	.00142	.14427	-.00153	.00061	.00142	.00309
Stddev	.00167	.00052	.00900	.00059	.00101	.00181	.00107
%RSD	108.75	36.712	6.2419	38.313	165.98	127.64	34.691

#1	.00018	.00120	.15205	-.00212	.00168	-.00047	.00185
#2	-.00163	.00201	.14635	-.00095	.00045	.00314	.00364
#3	-.00315	.00104	.13440	-.00153	-.00031	.00159	.00378

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm
Avg	-.00065	.00532	F -.29926
Stddev	.00010	.00008	.12659
%RSD	14.888	1.4779	42.300

#1	-.00060	.00532	-.44233
#2	-.00076	.00524	-.20180
#3	-.00059	.00539	-.25365

Check ?	Chk Pass	Chk Pass	Chk Fail
High Limit			45.000
Low Limit			-.00400

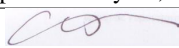
Approved: July 27, 2012



Sample Name: L1207068706SDL Acquired: 7/25/2012 18:55:08 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1999) Mode: CONC Corr. Factor: 1.000000
User: KHR Custom ID1: 5 Custom ID2: Custom ID3:
Comment: WG404498-02

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	25060.	15428.
Stddev	445.	501.
%RSD	1.7775	3.2483
#1	25436.	16005.
#2	25175.	15172.
#3	24568.	15106.

Approved: July 27, 2012



Sample Name: CCV Acquired: 7/25/2012 18:58:17 Type: QC
 Method: ICP-THERMO2_6010_200.7(v1999) Mode: CONC Corr. Factor: 1.000000
 User: KHR Custom ID1: Custom ID2: Custom ID3:
 Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.39460	9.8623	.38193	.50368	1.0154	.05133	9.9205
Stddev	.00145	.7409	.00343	.00251	.0734	.00015	.6699
%RSD	.36716	7.5127	.89729	.49770	7.2272	.29454	6.7531

#1	.39358	9.0096	.37910	.50616	.93165	.05143	9.1504
#2	.39626	10.228	.38574	.50114	1.0458	.05116	10.242
#3	.39396	10.349	.38094	.50374	1.0686	.05140	10.369

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value Range							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	Hf2322	Hf2641
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.04866	.19551	.49710	.48844	4.0963	.98205	F .59396
Stddev	.00023	.00025	.00115	.00263	.2889	.00412	.39427
%RSD	.48245	.12655	.23066	.53749	7.0527	.41924	66.380

#1	.04852	.19526	.49829	.48816	3.7668	.98030	1.0435
#2	.04853	.19552	.49701	.48596	4.2162	.97909	.43180
#3	.04893	.19576	.49600	.49119	4.3060	.98675	.30663

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
Value Range							1.0000 -10.000%

Elem	Hf2773	Hf3399	K_7664	Li6707	Mg2790	Mn2576	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.93650	F .21976	50.864	.95777	10.435	.48532	.97828
Stddev	.70792	1.2631	3.765	.07288	.810	.03858	.00216
%RSD	75.592	574.75	7.4011	7.6091	7.7603	7.9491	.22115

#1	1.0062	1.3699	46.571	.87415	9.5066	.44103	.97696
#2	.19632	.42146	52.422	.99143	10.804	.50334	.97710
#3	1.6070	-1.1321	53.600	1.0077	10.995	.51160	.98078

Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value Range		1.0000 -10.000%					

Approved: July 27, 2012



Sample Name: CCV Acquired: 7/25/2012 18:58:17 Type: QC
 Method: ICP-THERMO2_6010_200.7(v1999) Mode: CONC Corr. Factor: 1.000000
 User: KHR Custom ID1: Custom ID2: Custom ID3:
 Comment:

Elem	Na5895	Ni2316	P_2149	Pb2203	Rb7800	S_1807	S_1820
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	51.925	.51692	F 29.300	.50861	F 34.571	10.304	9.4820
Stddev	3.698	.00168	19.898	.00251	12.982	.028	2.7075
%RSD	7.1210	.32427	67.911	.49403	37.552	.26972	28.554

#1	47.702	.51550	52.032	.51057	48.343	10.294	8.5857
#2	53.491	.51648	15.037	.50577	22.558	10.283	12.524
#3	54.581	.51877	20.832	.50948	32.812	10.336	7.3363

Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Fail	Chk Pass	Chk Pass
Value			10.000		10.000		
Range			10.000%		10.000%		

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3372	Ti1908
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.2480	.38979	F 5.7117	1.0271	1.0375	.95735	.52691
Stddev	.0010	.00441	.0283	.0015	.0738	.08043	.00165
%RSD	.08164	1.1317	.49510	.14731	7.1098	8.4010	.31364

#1	1.2478	.39439	5.7314	1.0271	.95338	.86558	.52840
#2	1.2472	.38559	5.7243	1.0256	1.0682	.99090	.52514
#3	1.2492	.38941	5.6793	1.0287	1.0910	1.0156	.52720


Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value			5.0000				
Range			10.000%				

Elem	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm
Avg	.94431	1.0116	F .53299
Stddev	.00592	.0012	.41894
%RSD	.62704	.11483	78.601

#1	.94324	1.0110	.98631
#2	.95069	1.0109	.16008
#3	.93899	1.0129	.45260

Check ?	Chk Pass	Chk Pass	Chk Fail
Value			1.0000
Range			-10.000%


Approved: July 27, 2012



Sample Name: CCV Acquired: 7/25/2012 18:58:17 Type: QC
Method: ICP-THERMO2_6010_200.7(v1999) Mode: CONC Corr. Factor: 1.000000
User: KHR Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	23975.	14568.
Stddev	125.	521.
%RSD	.51934	3.5774
#1	23859.	15169.
#2	23958.	14235.
#3	24106.	14301.

Approved: July 27, 2012



Sample Name: CCB Acquired: 7/25/2012 19:01:21 Type: Blank
 Method: ICP-THERMO2_6010_200.7(v1999) Mode: CONC Corr. Factor: 1.000000
 User: KHR Custom ID1: Custom ID2: Custom ID3:
 Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.00076	-.00426	-.00166	.00460	.00200	-.00004	-.01131
Stddev	.00147	.10009	.00090	.00087	.00168	.00003	.04763
%RSD	192.81	2351.5	53.949	18.879	83.987	70.166	421.23

#1	-.00190	.00695	-.00229	.00473	.00385	-.00001	.04323
#2	.00090	-.10947	-.00206	.00540	.00057	-.00004	-.04473
#3	-.00129	.08976	-.00064	.00368	.00159	-.00006	-.03243

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	Hf2322	Hf2641
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00008	.00015	-.00008	.00018	-.00561	-.00386	-.09091
Stddev	.00014	.00022	.00075	.00081	.00791	.00325	.74183
%RSD	185.45	147.31	953.46	457.08	141.07	84.237	816.04

#1	-.00006	.00026	.00017	.00052	.00349	-.00702	.35977
#2	.00023	.00028	.00051	.00076	-.01085	-.00404	.31462
#3	.00006	-.00010	-.00092	-.00075	-.00946	-.00052	-.94710

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Hf2773	Hf3399	K_7664	Li6707	Mg2790	Mn2576	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F 1.1451	F .52689	.38764	-.00414	-.01181	.00112	.00030
Stddev	1.0038	.56348	.10205	.00340	.02696	.00041	.00032
%RSD	87.662	106.95	26.324	82.188	228.40	36.388	104.45

#1	.43870	.82001	.50431	-.00183	.00254	.00074	.00002
#2	.70245	-.12274	.31501	-.00804	.00495	.00155	.00064
#3	2.2942	.88339	.34361	-.00254	-.04291	.00107	.00025

Check ?	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	.10000	.10000					
Low Limit	-.10000	-.10000					

Approved: July 27, 2012



Sample Name: CCB Acquired: 7/25/2012 19:01:21 Type: Blank
 Method: ICP-THERMO2_6010_200.7(v1999) Mode: CONC Corr. Factor: 1.000000
 User: KHR Custom ID1: Custom ID2: Custom ID3:
 Comment:

Elem	Na5895	Ni2316	P_2149	Pb2203	Rb7800	S_1807	S_1820
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.15004	-.00088	F 11.838	-.00039	F 28.279	F -.11880	F 4.3451
Stddev	.14689	.00115	12.265	.00134	19.357	.06013	1.5413
%RSD	97.903	130.50	103.61	345.87	68.448	50.614	35.472

#1	.31959	-.00220	25.953	-.00027	9.3326	-.05534	5.8514
#2	.06121	-.00034	5.7809	.00089	27.484	-.12613	2.7711
#3	.06931	-.00010	3.7800	-.00178	48.021	-.17493	4.4127

Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Fail	Chk Fail	Chk Fail
High Limit			.01000		.01000	.01000	.01000
Low Limit			-.01000		-.01000	-.01000	-.01000

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3372	Tl1908
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00089	-.00408	.00393	-.00057	.00204	.00091	.00133
Stddev	.00225	.00382	.00594	.00039	.00145	.00351	.00215
%RSD	251.63	93.569	151.13	68.274	71.225	387.01	161.43

#1	-.00150	-.00287	-.00211	-.00096	.00371	.00387	.00276
#2	.00296	-.00101	.00414	-.00057	.00109	-.00297	-.00114
#3	.00122	-.00836	.00975	-.00018	.00132	.00182	.00238

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm
Avg	.00024	.00012	F -.53567
Stddev	.00037	.00004	.66025
%RSD	151.68	30.734	123.26

#1	-.00010	.00008	.14611
#2	.00019	.00014	-1.1721
#3	.00063	.00013	-5.8107

Check ?	Chk Pass	Chk Pass	Chk Fail
High Limit			.10000
Low Limit			-.10000

Approved: July 27, 2012



Sample Name: CCB Acquired: 7/25/2012 19:01:21 Type: Blank
Method: ICP-THERMO2_6010_200.7(v1999) Mode: CONC Corr. Factor: 1.000000
User: KHR Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	24054.	14522.
Stddev	69.	645.
%RSD	.28514	4.4392
#1	23976.	15263.
#2	24101.	14213.
#3	24086.	14090.

Approved: July 27, 2012



Sample Name: L1207068707 Acquired: 7/25/2012 19:04:34 Type: Unk
 Method: ICP-THERMO2_6010_200.7(v1999) Mode: CONC Corr. Factor: 1.000000
 User: KHR Custom ID1: Custom ID2: Custom ID3:
 Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00037	.07004	-.00166	.00209	.00216	.00000	.36179
Stddev	.00106	.03763	.00117	.00139	.00050	.0000	.02810
%RSD	288.68	53.727	70.200	66.329	23.043	1544.0	7.7677

#1	-.00019	.08091	-.00089	.00304	.00160	.00002	.33051
#2	-.00030	.10105	-.00301	.00273	.00255	-.00002	.36997
#3	.00159	.02817	-.00109	.00050	.00234	.00000	.38491

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	Hf2322	Hf2641
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00001	.00035	-.00014	.01424	.01375	-.00892	.10459
Stddev	.00012	.00028	.00046	.00062	.00293	.00661	.89538
%RSD	1863.3	80.654	333.58	4.3675	21.328	74.126	856.07

#1	-.00008	.00055	-.00066	.01432	.01341	-.01502	-.91874
#2	-.00004	.00047	.00008	.01482	.01101	-.00983	.48860
#3	.00014	.00003	.00017	.01359	.01684	-.00190	.74392

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Hf2773	Hf3399	K_7664	Li6707	Mg2790	Mn2576	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.0283	.95467	.25826	-.00348	.06875	.00272	.00012
Stddev	.7003	1.1016	.06246	.00544	.04880	.00075	.00024
%RSD	68.102	115.39	24.186	156.37	70.985	27.556	200.15

#1	1.8368	1.8218	.32988	-.00972	.04580	.00303	.00030
#2	.61036	1.3271	.21509	.00028	.03565	.00327	-.00015
#3	.63776	-.28482	.22980	-.00100	.12480	.00187	.00020

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: July 27, 2012



Sample Name: L1207068707 Acquired: 7/25/2012 19:04:34 Type: Unk
 Method: ICP-THERMO2_6010_200.7(v1999) Mode: CONC Corr. Factor: 1.000000
 User: KHR Custom ID1: Custom ID2: Custom ID3:
 Comment:

Elem	Na5895	Ni2316	P_2149	Pb2203	Rb7800	S_1807	S_1820
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.36727	-.00066	16.961	.00165	F 9.5733	1.4330	F -30.784
Stddev	.00583	.00070	8.688	.00083	11.082	.0919	.340
%RSD	1.5866	106.69	51.226	50.223	115.76	6.4119	1.1053

#1	.36056	-.00146	14.787	.00102	-.18972	1.3605	-30.486
#2	.37099	-.00014	26.529	.00135	7.2904	1.5363	-31.155
#3	.37027	-.00038	9.5655	.00259	21.619	1.4021	-30.711

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Fail
High Limit					9.0000		9.0000
Low Limit					-.00400		-.00400

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3372	Tl1908
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.00226	.00065	.18149	-.00087	.00073	.00714	.00207
Stddev	.00626	.00429	.00959	.00028	.00045	.01222	.00278
%RSD	277.27	657.29	5.2821	32.374	61.274	171.32	134.01

#1	-.00664	.00414	.17238	-.00096	.00076	.02115	-.00112
#2	.00491	.00195	.18058	-.00055	.00027	-.00134	.00346
#3	-.00504	-.00414	.19149	-.00109	.00117	.00159	.00388

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm
Avg	-.00059	.00480	F -.92254
Stddev	.00083	.00007	.27089
%RSD	141.82	1.5487	29.363

#1	-.00027	.00475	-1.1913
#2	-.00153	.00489	-.92671
#3	.00004	.00477	-.64959

Check ?	Chk Pass	Chk Pass	Chk Fail
High Limit			45.000
Low Limit			-.00400

Approved: July 27, 2012



Sample Name: L1207068707 Acquired: 7/25/2012 19:04:34 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1999) Mode: CONC Corr. Factor: 1.000000
User: KHR Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	25220.	15318.
Stddev	155.	705.
%RSD	.61347	4.6036
#1	25042.	16128.
#2	25303.	14983.
#3	25316.	14843.

Approved: July 27, 2012



Sample Name: L1207068708 Acquired: 7/25/2012 19:07:42 Type: Unk
 Method: ICP-THERMO2_6010_200.7(v1999) Mode: CONC Corr. Factor: 1.000000
 User: KHR Custom ID1: Custom ID2: Custom ID3:
 Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00128	.02919	-.00104	.00155	.00121	.00002	.27367
Stddev	.00058	.01312	.00171	.00275	.00026	.00004	.02397
%RSD	44.986	44.957	164.64	177.80	21.706	174.77	8.7591

#1	.00076	.01879	-.00297	-.00161	.00123	.00006	.25360
#2	.00190	.04393	.00030	.00280	.00094	.00003	.26719
#3	.00119	.02484	-.00045	.00346	.00147	-.00002	.30021

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	Hf2322	Hf2641
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00034	.00019	.00178	.00680	.15821	-.00800	.06899
Stddev	.00012	.00010	.00015	.00044	.00927	.00197	.48391
%RSD	33.946	52.865	8.2500	6.5303	5.8604	24.645	701.42

#1	.00046	.00018	.00194	.00655	.14764	-.00605	.00122
#2	.00023	.00009	.00177	.00731	.16199	-.00797	.58321
#3	.00034	.00029	.00165	.00654	.16499	-.00999	-.37746

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Hf2773	Hf3399	K_7664	Li6707	Mg2790	Mn2576	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.81578	-.05142	.27580	.00048	.02437	.00288	-.00004
Stddev	.57695	1.3890	.09801	.00700	.01971	.00046	.00013
%RSD	70.724	2701.4	35.536	1466.2	80.874	15.913	289.82

#1	1.1390	-.07482	.18680	.00484	.02554	.00302	-.00019
#2	1.1587	-1.4285	.25977	-.00760	.00410	.00326	.00005
#3	.14967	1.3491	.38083	.00419	.04347	.00237	.00000

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: July 27, 2012



Sample Name: L1207068708 Acquired: 7/25/2012 19:07:42 Type: Unk
 Method: ICP-THERMO2_6010_200.7(v1999) Mode: CONC Corr. Factor: 1.000000
 User: KHR Custom ID1: Custom ID2: Custom ID3:
 Comment:

Elem	Na5895	Ni2316	P_2149	Pb2203	Rb7800	S_1807	S_1820
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.40374	.00146	3.7056	-.00037	6.4744	1.6662	F -39.419
Stddev	.03234	.00073	12.631	.00198	6.2342	.0531	2.059
%RSD	8.0092	49.981	340.86	534.12	96.289	3.1868	5.2226

#1	.37372	.00146	14.548	-.00129	-.30489	1.6075	-39.221
#2	.43798	.00219	6.7321	.00190	7.7675	1.6802	-41.570
#3	.39951	.00073	-10.164	-.00172	11.961	1.7109	-37.467

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit							9.0000
Low Limit							-.00400

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3372	Tl1908
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.00369	.00038	.13244	-.00104	.00075	.00260	.00251
Stddev	.00081	.00307	.00276	.00035	.00053	.00304	.00056
%RSD	21.981	813.77	2.0822	33.763	69.661	116.74	22.366

#1	-.00462	.00306	.13562	-.00083	.00053	.00228	.00303
#2	-.00325	.00105	.13072	-.00145	.00136	-.00026	.00256
#3	-.00319	-.00298	.13097	-.00085	.00038	.00580	.00192

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm
Avg	-.00031	.00400	F -.47779
Stddev	.00028	.00012	.10164
%RSD	89.035	2.9851	21.273

#1	-.00047	.00387	-.53576
#2	-.00048	.00404	-.53719
#3	.00001	.00410	-.36043

Check ?	Chk Pass	Chk Pass	Chk Fail
High Limit			45.000
Low Limit			-.00400

Approved: July 27, 2012



Sample Name: L1207068708 Acquired: 7/25/2012 19:07:42 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1999) Mode: CONC Corr. Factor: 1.000000
User: KHR Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	26236.	16263.
Stddev	86.	644.
%RSD	.32900	3.9597
#1	26163.	17004.
#2	26331.	15945.
#3	26212.	15840.

Approved: July 27, 2012



Sample Name: L1207068709 Acquired: 7/25/2012 19:10:51 Type: Unk
 Method: ICP-THERMO2_6010_200.7(v1999) Mode: CONC Corr. Factor: 1.000000
 User: KHR Custom ID1: Custom ID2: Custom ID3:
 Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00049	.00889	-.00073	.00420	.00505	-.00003	.88132
Stddev	.00049	.02662	.00110	.00164	.00046	.00007	.05628
%RSD	98.650	299.37	149.94	39.037	9.0493	223.93	6.3863

#1	.00105	-.01969	.00052	.00609	.00502	-.00010	.81634
#2	.00026	.01338	-.00121	.00322	.00460	.00004	.91287
#3	.00017	.03299	-.00152	.00328	.00551	-.00003	.91476

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	Hf2322	Hf2641
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00031	-.00010	.00060	.00999	.02068	-.00185	F -.15410
Stddev	.00009	.00010	.00074	.00028	.00519	.00762	.40995
%RSD	30.825	100.90	123.61	2.7943	25.107	412.48	266.03

#1	.00027	-.00006	.00119	.00975	.01468	-.00628	.28953
#2	.00023	-.00002	.00085	.01030	.02370	.00695	-.23288
#3	.00041	-.00021	-.00023	.00992	.02364	-.00621	-.51894

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit							45.000
Low Limit							-.10000

Elem	Hf2773	Hf3399	K_7664	Li6707	Mg2790	Mn2576	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.79896	.04286	.32103	-.00560	.34980	.00088	-.00043
Stddev	.80875	1.2819	.04288	.00335	.08606	.00124	.00017
%RSD	101.22	2990.7	13.356	59.883	24.603	141.11	38.964

#1	-.11787	1.3703	.28587	-.00500	.25045	.00229	-.00041
#2	1.1037	-1.1880	.36880	-.00921	.40146	.00001	-.00061
#3	1.4111	-.05365	.30842	-.00259	.39749	.00033	-.00027

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: July 27, 2012



Sample Name: L1207068709 Acquired: 7/25/2012 19:10:51 Type: Unk
 Method: ICP-THERMO2_6010_200.7(v1999) Mode: CONC Corr. Factor: 1.000000
 User: KHR Custom ID1: Custom ID2: Custom ID3:
 Comment:

Elem	Na5895	Ni2316	P_2149	Pb2203	Rb7800	S_1807	S_1820
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.60858	.00024	24.495	.00010	6.6425	2.0251	F -34.864
Stddev	.03983	.00066	20.551	.00002	16.969	.0219	2.606
%RSD	6.5443	281.37	83.898	23.465	255.46	1.0836	7.4739

#1	.56531	.00083	48.205	.00009	-12.319	2.0460	-31.866
#2	.61674	-.00048	11.789	.00009	11.845	2.0271	-36.587
#3	.64370	.00035	13.491	.00013	20.401	2.0023	-36.138

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit							9.0000
Low Limit							-.00400

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3372	Tl1908
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00086	-.00317	.26068	-.00110	.00287	.00323	.00035
Stddev	.00034	.00337	.01209	.00089	.00045	.00395	.00350
%RSD	39.240	106.18	4.6364	81.087	15.841	122.25	987.46

#1	.00121	-.00293	.27425	-.00081	.00235	-.00126	-.00351
#2	.00054	.00007	.25106	-.00038	.00317	.00618	.00124
#3	.00083	-.00665	.25673	-.00209	.00309	.00477	.00333

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm
Avg	.00038	.01928	F -1.2241
Stddev	.00014	.00003	.0598
%RSD	37.786	.15386	4.8819

#1	.00053	.01929	-1.1677
#2	.00026	.01930	-1.2179
#3	.00033	.01925	-1.2868

Check ?	Chk Pass	Chk Pass	Chk Fail
High Limit			45.000
Low Limit			-.00400

Approved: July 27, 2012



Sample Name: L1207068709 Acquired: 7/25/2012 19:10:51 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1999) Mode: CONC Corr. Factor: 1.000000
User: KHR Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	24794.	16039.
Stddev	47.	792.
%RSD	.18802	4.9372
#1	24744.	16952.
#2	24836.	15628.
#3	24801.	15538.

Approved: July 27, 2012



Sample Name: L1207068710 Acquired: 7/25/2012 19:14:00 Type: Unk
 Method: ICP-THERMO2_6010_200.7(v1999) Mode: CONC Corr. Factor: 1.000000
 User: KHR Custom ID1: Custom ID2: Custom ID3:
 Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00071	.01716	-.00134	.00018	.00229	-.00001	.13794
Stddev	.00059	.09715	.00092	.00147	.00102	.00003	.02494
%RSD	83.420	566.30	68.598	828.01	44.503	378.65	18.079

#1	.00092	-.08520	-.00040	.00188	.00119	.00001	.12074
#2	.00004	.02858	-.00138	-.00068	.00320	-.00004	.16654
#3	.00117	.10809	-.00224	-.00067	.00248	.00001	.12654

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	Hf2322	Hf2641
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00024	.00017	-.00055	.00881	.01937	-.00691	.75639
Stddev	.00005	.00009	.00029	.00028	.00595	.00658	.39163
%RSD	21.749	54.190	52.537	3.2312	30.719	95.243	51.776

#1	.00020	.00020	-.00024	.00892	.01805	-.00600	.37442
#2	.00022	.00024	-.00059	.00849	.01419	-.01390	1.1570
#3	.00029	.00007	-.00081	.00903	.02587	-.00083	.73773

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Hf2773	Hf3399	K_7664	Li6707	Mg2790	Mn2576	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.2252	F -.54698	.45654	-.00719	.03068	.00254	-.00042
Stddev	.4994	.53299	.06146	.00327	.03985	.00018	.00047
%RSD	40.760	97.442	13.461	45.445	129.91	7.0020	111.14

#1	1.0622	-.08608	.52748	-.01038	.02321	.00265	-.00080
#2	.82764	-.42422	.41984	-.00385	-.00491	.00233	-.00057
#3	1.7857	-1.1306	.42228	-.00734	.07374	.00262	.00010

Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit		45.000					
Low Limit		-.10000					

Approved: July 27, 2012



Sample Name: L1207068710 Acquired: 7/25/2012 19:14:00 Type: Unk
 Method: ICP-THERMO2_6010_200.7(v1999) Mode: CONC Corr. Factor: 1.000000
 User: KHR Custom ID1: Custom ID2: Custom ID3:
 Comment:

Elem	Na5895	Ni2316	P_2149	Pb2203	Rb7800	S_1807	S_1820
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.41265	.00170	24.305	.00164	F 9.8876	1.9911	F -54.081
Stddev	.02143	.00037	12.371	.00038	5.5240	.0699	2.273
%RSD	5.1935	21.807	50.899	23.439	55.868	3.5085	4.2030

#1	.40284	.00184	12.121	.00124	3.7470	1.9570	-55.725
#2	.43723	.00198	36.854	.00168	11.463	2.0714	-55.030
#3	.39787	.00128	23.940	.00200	14.453	1.9448	-51.487

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Fail
High Limit					9.0000		9.0000
Low Limit					-.00400		-.00400

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3372	Tl1908
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.00393	-.00173	.11518	-.00123	.00067	.00098	.00187
Stddev	.00293	.00254	.00168	.00043	.00010	.00335	.00083
%RSD	74.528	146.38	1.4568	34.820	14.153	343.19	44.496

#1	-.00443	.00119	.11335	-.00123	.00057	-.00051	.00277
#2	-.00658	-.00304	.11554	-.00165	.00076	.00481	.00113
#3	-.00078	-.00335	.11664	-.00080	.00068	-.00137	.00171

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm
Avg	-.00038	.00376	F -.56319
Stddev	.00034	.00009	.58845
%RSD	89.712	2.2942	104.48

#1	-.00042	.00384	.11418
#2	-.00070	.00378	-.85551
#3	-.00002	.00367	-.94825

Check ?	Chk Pass	Chk Pass	Chk Fail
High Limit			45.000
Low Limit			-.00400

Approved: July 27, 2012



Sample Name: L1207068710 Acquired: 7/25/2012 19:14:00 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1999) Mode: CONC Corr. Factor: 1.000000
User: KHR Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	26030.	15708.
Stddev	57.	568.
%RSD	.21725	3.6130
#1	26022.	16355.
#2	26090.	15476.
#3	25978.	15293.

Approved: July 27, 2012



Sample Name: L1207071601 Acquired: 7/25/2012 19:17:08 Type: Unk
 Method: ICP-THERMO2_6010_200.7(v1999) Mode: CONC Corr. Factor: 1.000000
 User: KHR Custom ID1: Custom ID2: Custom ID3:
 Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00008	.07317	-.00323	.02832	.07943	.00000	82.583
Stddev	.00043	.02208	.00074	.00067	.00791	.00003	7.111
%RSD	575.33	30.175	22.774	2.3714	9.9577	767.16	8.6112

#1	.00051	.05014	-.00250	.02858	.07043	.00003	74.446
#2	-.00035	.09416	-.00321	.02755	.08260	-.00003	85.698
#3	.00006	.07521	-.00397	.02882	.08527	.00002	87.606

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	Hf2322	Hf2641
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00036	.00021	.00245	.00054	.27540	.60223	1.0887
Stddev	.00007	.00016	.00056	.00050	.02615	.00147	.5592
%RSD	20.365	76.419	22.933	91.717	9.4971	.24326	51.367

#1	.00033	.00037	.00305	.00096	.24693	.60390	.44804
#2	.00030	.00023	.00194	-.00001	.28089	.60114	1.4791
#3	.00044	.00004	.00235	.00069	.29837	.60166	1.3390

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Hf2773	Hf3399	K_7664	Li6707	Mg2790	Mn2576	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.5802	-.03746	3.1538	.00636	16.794	.00132	.00088
Stddev	1.1953	.82480	.2835	.00222	1.560	.00066	.00017
%RSD	75.647	2202.0	8.9905	34.943	9.2867	50.030	19.208

#1	1.0693	.90953	2.8910	.00713	15.028	.00060	.00092
#2	2.9460	-.42323	3.1159	.00809	17.372	.00146	.00069
#3	.72511	-.59868	3.4543	.00385	17.981	.00190	.00102

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: July 27, 2012



Sample Name: L1207071601 Acquired: 7/25/2012 19:17:08 Type: Unk
 Method: ICP-THERMO2_6010_200.7(v1999) Mode: CONC Corr. Factor: 1.000000
 User: KHR Custom ID1: Custom ID2: Custom ID3:
 Comment:

Elem	Na5895	Ni2316	P_2149	Pb2203	Rb7800	S_1807	S_1820
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	35.269	.00108	61.506	.00274	F -8.3957	F 1014.3	F -31105.
Stddev	3.144	.00027	8.376	.00046	10.407	4.0	31.
%RSD	8.9131	25.445	13.618	16.959	123.96	.38986	.09879

#1	31.719	.00114	59.993	.00300	-15.219	1009.7	-31071.
#2	36.389	.00078	53.990	.00301	-13.552	1016.7	-31130.
#3	37.699	.00131	70.535	.00220	3.5832	1016.4	-31115.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Fail	Chk Fail
High Limit					9.0000	9.0000	9.0000
Low Limit					-0.00400	-0.00400	-0.00400

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3372	Tl1908
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.00089	-.00038	21.164	-.00123	.65195	.00095	.00287
Stddev	.00316	.00358	.084	.00040	.06199	.00196	.00226
%RSD	354.85	940.11	.39904	33.052	9.5092	206.40	78.783

#1	.00216	.00212	21.067	-.00097	.58284	-.00062	.00540
#2	-.00414	-.00449	21.210	-.00101	.67033	.00315	.00215
#3	-.00068	.00122	21.216	-.00169	.70267	.00032	.00105

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm
Avg	.00315	.01356	F -.29148
Stddev	.00001	.00006	.46944
%RSD	.21273	.44520	161.05

#1	.00315	.01360	.24783
#2	.00315	.01358	-.60845
#3	.00314	.01349	-.51382

Check ?	Chk Pass	Chk Pass	Chk Fail
High Limit			45.000
Low Limit			-0.00400

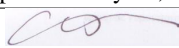
Approved: July 27, 2012



Sample Name: L1207071601 Acquired: 7/25/2012 19:17:08 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1999) Mode: CONC Corr. Factor: 1.000000
User: KHR Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	26432.	16396.
Stddev	68.	656.
%RSD	.25780	4.0032
#1	26354.	17136.
#2	26463.	16170.
#3	26480.	15883.

Approved: July 27, 2012



Sample Name: L1207071601 Acquired: 7/25/2012 19:20:14 Type: Unk
 Method: ICP-THERMO2_6010_200.7(v1999) Mode: CONC Corr. Factor: 1.000000
 User: KHR Custom ID1: 10 Custom ID2: Custom ID3:
 Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00151	.02282	-.00165	.00196	.00833	.00002	8.6848
Stddev	.00055	.04477	.00161	.00121	.00125	.00003	.6485
%RSD	36.618	196.19	97.392	61.710	15.056	173.29	7.4668

#1	.00212	.04336	-.00337	.00332	.00689	.00003	7.9459
#2	.00105	.05363	-.00139	.00158	.00921	.00005	8.9489
#3	.00135	-.02853	-.00019	.00099	.00889	-.00002	9.1595

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	Hf2322	Hf2641
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00018	-.00001	-.00006	.00011	.00978	.05737	.35175
Stddev	.00018	.00015	.00002	.00064	.00517	.00512	.42084
%RSD	98.509	1353.6	43.704	579.88	52.897	8.9251	119.64

#1	.00034	.00012	-.00003	.00001	.01441	.06323	.40360
#2	.00022	.00002	-.00006	.00079	.00420	.05512	.74427
#3	-.00001	-.00017	-.00008	-.00047	.01072	.05376	-.09261

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Hf2773	Hf3399	K_7664	Li6707	Mg2790	Mn2576	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.77134	.51775	.54561	-.00528	1.7393	.00055	-.00016
Stddev	.30961	1.1887	.10287	.00505	.1615	.00044	.00010
%RSD	40.140	229.58	18.854	95.714	9.2825	78.924	61.524

#1	.41393	1.8900	.43817	-.00566	1.5584	.00030	-.00007
#2	.95725	-.19224	.55544	-.01013	1.7909	.00105	-.00016
#3	.94285	-.14453	.64320	-.00004	1.8687	.00030	-.00027

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: July 27, 2012



Sample Name: L1207071601 Acquired: 7/25/2012 19:20:14 Type: Unk
 Method: ICP-THERMO2_6010_200.7(v1999) Mode: CONC Corr. Factor: 1.000000
 User: KHR Custom ID1: 10 Custom ID2: Custom ID3:
 Comment:

Elem	Na5895	Ni2316	P_2149	Pb2203	Rb7800	S_1807	S_1820
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	3.7901	.00135	18.435	.00142	2.3553	F 102.99	F -3141.1
Stddev	.2898	.00022	8.106	.00145	11.453	.67	29.7
%RSD	7.6457	16.441	43.972	102.64	486.26	.65315	.94448

#1	3.4593	.00112	9.1231	.00309	-1.7808	102.69	-3121.0
#2	3.9114	.00156	22.266	.00065	-6.4549	102.52	-3127.2
#3	3.9994	.00136	23.915	.00050	15.302	103.76	-3175.2

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Fail
High Limit						9.0000	9.0000
Low Limit						-.00400	-.00400

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3372	Tl1908
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00327	.00008	2.1380	-.00138	.06759	.00134	.00346
Stddev	.00101	.00146	.0131	.00052	.00590	.00382	.00101
%RSD	30.889	1746.6	.61262	37.512	8.7305	284.30	29.295

#1	.00290	.00011	2.1316	-.00120	.06095	.00308	.00232
#2	.00250	-.00139	2.1293	-.00197	.06956	.00399	.00381
#3	.00441	.00153	2.1531	-.00098	.07225	-.00304	.00425

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm
Avg	-.00029	.00204	.13071
Stddev	.00063	.00005	.67394
%RSD	216.49	2.2916	515.59

#1	-.00045	.00203	.20066
#2	-.00083	.00209	-.57547
#3	.00040	.00199	.76695

Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Approved: July 27, 2012



Sample Name: L1207071601 Acquired: 7/25/2012 19:20:14 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1999) Mode: CONC Corr. Factor: 1.000000
User: KHR Custom ID1: 10 Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	27083.	16508.
Stddev	123.	789.
%RSD	.45231	4.7767
#1	27010.	17410.
#2	27015.	16165.
#3	27225.	15950.

Approved: July 27, 2012



Sample Name: L1207072401 Acquired: 7/25/2012 19:23:19 Type: Unk
 Method: ICP-THERMO2_6010_200.7(v1999) Mode: CONC Corr. Factor: 1.000000
 User: KHR Custom ID1: Custom ID2: Custom ID3:
 Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-0.0039	.38261	.00082	.03129	.13287	-0.0001	201.16
Stddev	.00093	.02170	.00237	.00370	.00691	.00004	9.63
%RSD	235.66	5.6704	290.29	11.821	5.1973	327.28	4.7874

#1	-0.0117	.40384	.00195	.03523	.12491	-0.0006	190.05
#2	.00063	.36048	.00240	.02789	.13646	.00003	206.37
#3	-0.0063	.38352	-0.0190	.03074	.13725	-0.0001	207.07

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	Hf2322	Hf2641
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-0.0022	.00147	.00037	.00355	42.772	1.7006	1.1181
Stddev	.00005	.00013	.00049	.00076	2.173	.0130	.4942
%RSD	22.518	8.9219	131.18	21.475	5.0814	.76578	44.197

#1	-0.0018	.00161	.00070	.00436	40.263	1.6855	1.4524
#2	-0.0027	.00147	-0.0019	.00342	44.000	1.7086	1.3516
#3	-0.0020	.00134	.00062	.00286	44.054	1.7076	.55048

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Hf2773	Hf3399	K_7664	Li6707	Mg2790	Mn2576	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.2226	.40093	4.0886	.01474	23.736	.52350	.00098
Stddev	.2823	2.4913	.2290	.00094	1.221	.02452	.00052
%RSD	23.092	621.38	5.6004	6.4069	5.1428	4.6842	52.792

#1	.92886	1.2666	3.8338	.01539	22.327	.49534	.00144
#2	1.4919	2.3439	4.2773	.01366	24.410	.53505	.00042
#3	1.2471	-2.4077	4.1546	.01518	24.471	.54012	.00107

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: July 27, 2012



Sample Name: L1207072401 Acquired: 7/25/2012 19:23:19 Type: Unk
 Method: ICP-THERMO2_6010_200.7(v1999) Mode: CONC Corr. Factor: 1.000000
 User: KHR Custom ID1: Custom ID2: Custom ID3:
 Comment:

Elem	Na5895	Ni2316	P_2149	Pb2203	Rb7800	S_1807	S_1820
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	64.945	.00453	F 1948.9	.00203	F -5.2760	F 243.31	F -766.06
Stddev	3.531	.00043	12.5	.00272	11.171	.52	4.33
%RSD	5.4370	9.5210	.64267	134.33	211.73	.21212	.56573

#1	60.868	.00413	1934.9	.00026	-13.678	243.85	-761.22
#2	66.930	.00499	1959.1	.00516	7.4009	242.82	-769.59
#3	67.037	.00449	1952.7	.00066	-9.5514	243.26	-767.36

Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Fail	Chk Fail	Chk Fail
High Limit			900.00		9.0000	9.0000	9.0000
Low Limit			-.00400		-.00400	-.00400	-.00400

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3372	Tl1908
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.00006	-.00299	21.643	-.00115	1.5841	.00014	.00164
Stddev	.00255	.00356	.111	.00084	.0884	.00384	.00272
%RSD	4352.3	119.02	.51110	72.503	5.5777	2689.6	165.99

#1	-.00298	.00109	21.517	-.00209	1.4821	.00456	.00420
#2	.00108	-.00464	21.686	-.00089	1.6361	-.00172	.00194
#3	.00173	-.00542	21.726	-.00048	1.6341	-.00241	-.00122


Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm
Avg	.00159	.02333	F -3.1718
Stddev	.00013	.00011	.8324
%RSD	8.3035	.48223	26.244

#1	.00144	.02322	-3.7583
#2	.00162	.02344	-3.5381
#3	.00170	.02332	-2.2190

Check ?	Chk Pass	Chk Pass	Chk Fail
High Limit			45.000
Low Limit			-.00400

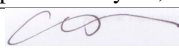
Approved: July 27, 2012



Sample Name: L1207072401 Acquired: 7/25/2012 19:23:19 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1999) Mode: CONC Corr. Factor: 1.000000
User: KHR Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	22847.	16353.
Stddev	705.	580.
%RSD	3.0875	3.5493
#1	22073.	17021.
#2	23452.	16065.
#3	23017.	15973.

Approved: July 27, 2012



Sample Name: L1207072402 Acquired: 7/25/2012 19:26:24 Type: Unk
 Method: ICP-THERMO2_6010_200.7(v1999) Mode: CONC Corr. Factor: 1.000000
 User: KHR Custom ID1: Custom ID2: Custom ID3:
 Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00044	2.4017	.00253	.04362	.10096	.00023	21.983
Stddev	.00182	.0932	.00206	.00379	.00282	.00002	.531
%RSD	418.72	3.8803	81.375	8.6839	2.7941	10.050	2.4159

#1	.00175	2.3511	.00342	.04099	.09780	.00026	21.397
#2	.00120	2.5093	.00398	.04192	.10187	.00022	22.117
#3	-.00165	2.3448	.00017	.04797	.10321	.00021	22.433

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	Hf2322	Hf2641
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00127	.00067	.00132	.00109	1.7322	.06177	.55891
Stddev	.00011	.00019	.00047	.00045	.0319	.00422	.37667
%RSD	8.6448	28.621	35.529	41.659	1.8431	6.8380	67.393

#1	.00115	.00049	.00086	.00103	1.6954	.05883	.82077
#2	.00134	.00087	.00131	.00157	1.7494	.05988	.12723
#3	.00133	.00066	.00180	.00067	1.7519	.06661	.72873

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Hf2773	Hf3399	K_7664	Li6707	Mg2790	Mn2576	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.2329	.35821	1.9867	-.00152	1.3507	.02606	.00077
Stddev	.2103	1.4117	.1470	.00729	.0732	.00064	.00011
%RSD	17.060	394.11	7.3974	479.43	5.4206	2.4723	14.233

#1	1.4597	1.1004	1.8215	.00128	1.2978	.02541	.00078
#2	1.1948	1.2440	2.1030	-.00980	1.4343	.02669	.00087
#3	1.0443	-1.2698	2.0355	.00395	1.3201	.02607	.00066

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: July 27, 2012



Sample Name: L1207072402 Acquired: 7/25/2012 19:26:24 Type: Unk
 Method: ICP-THERMO2_6010_200.7(v1999) Mode: CONC Corr. Factor: 1.000000
 User: KHR Custom ID1: Custom ID2: Custom ID3:
 Comment:

Elem	Na5895	Ni2316	P_2149	Pb2203	Rb7800	S_1807	S_1820
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	9.8667	.00140	470.67	.00341	F 31.839	F 177.67	F -5204.0
Stddev	.3149	.00020	2.78	.00260	13.407	1.00	15.6
%RSD	3.1914	14.400	.58992	76.282	42.109	.56344	.30012

#1	9.5362	.00126	469.99	.00624	41.917	176.63	-5200.2
#2	9.9007	.00163	473.72	.00285	36.976	177.77	-5190.6
#3	10.163	.00130	468.29	.00113	16.623	178.62	-5221.2

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Fail	Chk Fail
High Limit					9.0000	9.0000	9.0000
Low Limit					-0.0400	-0.0400	-0.0400

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3372	Tl1908
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00189	.00292	6.8728	-.00064	.06691	.04643	.00151
Stddev	.00177	.00297	.0601	.00050	.00103	.00526	.00054
%RSD	94.027	101.81	.87484	78.090	1.5365	11.327	35.977

#1	.00153	.00215	6.8041	-.00118	.06604	.04091	.00129
#2	.00381	.00620	6.9160	-.00018	.06665	.04699	.00111
#3	.00032	.00040	6.8983	-.00056	.06804	.05138	.00213

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm
Avg	.00397	.00872	.87709
Stddev	.00098	.00010	.80026
%RSD	24.628	1.1312	91.241

#1	.00287	.00862	.92761
#2	.00472	.00872	.05276
#3	.00433	.00882	1.6509

Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Approved: July 27, 2012



Sample Name: L1207072402 Acquired: 7/25/2012 19:26:24 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1999) Mode: CONC Corr. Factor: 1.000000
User: KHR Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	25736.	13784.
Stddev	394.	782.
%RSD	1.5322	5.6750
#1	26115.	13147.
#2	25766.	13548.
#3	25328.	14657.

Approved: July 27, 2012



Sample Name: L1207072403 Acquired: 7/25/2012 19:29:29 Type: Unk
 Method: ICP-THERMO2_6010_200.7(v1999) Mode: CONC Corr. Factor: 1.000000
 User: KHR Custom ID1: Custom ID2: Custom ID3:
 Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00085	.01219	-.00247	.01480	.03591	.00012	27.270
Stddev	.00121	.01947	.00256	.00043	.00287	.00004	2.284
%RSD	141.14	159.66	103.85	2.9287	7.9830	33.011	8.3744

#1	.00166	.03457	-.00533	.01529	.03262	.00016	24.663
#2	-.00053	.00288	-.00040	.01466	.03720	.00009	28.231
#3	.00143	-.00086	-.00167	.01445	.03790	.00010	28.917

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	Hf2322	Hf2641
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00013	.00008	.00018	.00039	5.6241	.16725	F -.60281
Stddev	.00009	.00007	.00085	.00092	.4948	.00449	.66929
%RSD	68.822	86.366	477.85	236.76	8.7974	2.6857	111.03

#1	.00014	.00000	.00115	.00077	5.0573	.16608	.16095
#2	.00004	.00013	-.00046	.00106	5.8454	.16345	-1.0869
#3	.00022	.00010	-.00015	-.00066	5.9696	.17221	-.88247

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit							45.000
Low Limit							-.10000

Elem	Hf2773	Hf3399	K_7664	Li6707	Mg2790	Mn2576	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.70806	.70501	1.3204	.00329	1.7446	.08781	-.00058
Stddev	.80712	1.5960	.1789	.00594	.1906	.00731	.00019
%RSD	113.99	226.37	13.547	180.71	10.923	8.3215	33.075

#1	-.22191	-.68512	1.1208	.00182	1.5331	.07952	-.00049
#2	1.1200	2.4478	1.3744	.00983	1.7978	.09061	-.00044
#3	1.2261	.35235	1.4661	-.00179	1.9029	.09330	-.00080

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: July 27, 2012



Sample Name: L1207072403 Acquired: 7/25/2012 19:29:29 Type: Unk
 Method: ICP-THERMO2_6010_200.7(v1999) Mode: CONC Corr. Factor: 1.000000
 User: KHR Custom ID1: Custom ID2: Custom ID3:
 Comment:

Elem	Na5895	Ni2316	P_2149	Pb2203	Rb7800	S_1807	S_1820
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	9.5483	.00073	F 1790.1	.00198	F 9.7798	F 122.43	F -3110.7
Stddev	.7803	.00107	13.3	.00216	5.2841	.65	5.4
%RSD	8.1718	146.16	.74161	109.17	54.031	.52728	.17429

#1	8.6589	.00197	1776.8	-.00050	5.4841	121.74	-3108.2
#2	9.8679	.00002	1790.3	.00302	8.1750	123.01	-3116.9
#3	10.118	.00021	1803.3	.00341	15.680	122.54	-3107.0

Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Fail	Chk Fail	Chk Fail
High Limit			900.00		9.0000	9.0000	9.0000
Low Limit			-.00400		-.00400	-.00400	-.00400

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3372	Tl1908
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.00281	-.00097	15.887	-.00135	.14892	.00021	.00277
Stddev	.00351	.00465	.070	.00023	.01309	.00631	.00309
%RSD	125.01	478.95	.43745	17.292	8.7927	3067.8	111.48

#1	-.00489	.00358	15.809	-.00108	.13398	.00515	.00624
#2	-.00478	-.00571	15.940	-.00146	.15442	.00236	.00029
#3	.00125	-.00079	15.913	-.00150	.15837	-.00690	.00179


Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm
Avg	.00142	.00133	F -.72572
Stddev	.00029	.00013	.19843
%RSD	20.473	10.092	27.342

#1	.00173	.00127	-.90463
#2	.00140	.00148	-.51230
#3	.00114	.00123	-.76024

Check ?	Chk Pass	Chk Pass	Chk Fail
High Limit			45.000
Low Limit			-.00400

Approved: July 27, 2012



Sample Name: L1207072403 Acquired: 7/25/2012 19:29:29 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1999) Mode: CONC Corr. Factor: 1.000000
User: KHR Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	26431.	15933.
Stddev	123.	489.
%RSD	.46638	3.0711
#1	26343.	16489.
#2	26571.	15745.
#3	26377.	15566.

Approved: July 27, 2012



Sample Name: L1207072404 Acquired: 7/25/2012 19:32:33 Type: Unk
 Method: ICP-THERMO2_6010_200.7(v1999) Mode: CONC Corr. Factor: 1.000000
 User: KHR Custom ID1: Custom ID2: Custom ID3:
 Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00098	.01239	-.00182	.01305	.03573	.00013	26.174
Stddev	.00087	.06383	.00167	.00089	.00312	.00006	1.952
%RSD	88.908	515.15	91.715	6.8170	8.7408	42.799	7.4564

#1	.00063	.02995	-.00110	.01208	.03213	.00018	23.943
#2	.00034	-.05838	-.00374	.01383	.03764	.00015	27.013
#3	.00198	.06560	-.00064	.01325	.03743	.00007	27.566

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	Hf2322	Hf2641
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00005	.00003	-.00011	.00104	5.7096	.16604	.76766
Stddev	.00005	.00016	.00063	.00049	.4533	.00371	.34607
%RSD	89.661	594.30	583.78	46.874	7.9385	2.2350	45.082

#1	.00000	-.00011	-.00083	.00147	5.1904	.16224	.61946
#2	.00005	-.00001	.00032	.00051	5.9124	.16622	.52037
#3	.00010	.00020	.00018	.00116	6.0261	.16965	1.1632


Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Hf2773	Hf3399	K_7664	Li6707	Mg2790	Mn2576	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.6019	.46335	1.3682	.00626	1.6890	.08604	-.00027
Stddev	.2094	1.5002	.1182	.00400	.1165	.00603	.00058
%RSD	13.069	323.78	8.6355	63.949	6.8959	7.0122	219.85

#1	1.5285	.11350	1.2873	.00249	1.5554	.07927	-.00091
#2	1.8381	2.1076	1.3134	.01046	1.7687	.08800	-.00013
#3	1.4392	-.83104	1.5038	.00582	1.7431	.09085	.00024

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: July 27, 2012



Sample Name: L1207072404 Acquired: 7/25/2012 19:32:33 Type: Unk
 Method: ICP-THERMO2_6010_200.7(v1999) Mode: CONC Corr. Factor: 1.000000
 User: KHR Custom ID1: Custom ID2: Custom ID3:
 Comment:

Elem	Na5895	Ni2316	P_2149	Pb2203	Rb7800	S_1807	S_1820
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	9.5155	.00150	F 1800.1	.00261	3.4387	F 122.31	F -3143.6
Stddev	.7338	.00040	23.4	.00010	8.9917	.64	17.0
%RSD	7.7115	26.878	1.2972	3.9131	261.48	.52455	.54071

#1	8.6808	.00144	1815.4	.00257	-6.3646	122.47	-3135.7
#2	9.8072	.00193	1773.3	.00273	5.3786	121.60	-3132.1
#3	10.059	.00113	1811.8	.00254	11.302	122.86	-3163.2

Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Fail	Chk Fail
High Limit			900.00			9.0000	9.0000
Low Limit			-.00400			-.00400	-.00400

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3372	Tl1908
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.00221	-.00146	15.764	.00633	.14402	-.00115	.00038
Stddev	.00266	.00240	.150	.00022	.01173	.00305	.00455
%RSD	120.05	164.20	.95044	3.5191	8.1430	265.10	1213.5

#1	-.00010	-.00410	15.936	.00652	.13072	.00204	.00035
#2	-.00134	.00058	15.688	.00640	.14843	-.00405	-.00416
#3	-.00520	-.00086	15.667	.00608	.15290	-.00144	.00494

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm
Avg	.00175	.00237	F -.47410
Stddev	.00054	.00021	.53794
%RSD	30.701	8.6909	113.47

#1	.00129	.00230	-.56980
#2	.00160	.00220	.10527
#3	.00234	.00260	-.95777

Check ?	Chk Pass	Chk Pass	Chk Fail
High Limit			45.000
Low Limit			-.00400

Approved: July 27, 2012



Sample Name: L1207072404 Acquired: 7/25/2012 19:32:33 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1999) Mode: CONC Corr. Factor: 1.000000
User: KHR Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	26929.	16367.
Stddev	100.	767.
%RSD	.37293	4.6880
#1	26837.	17245.
#2	27036.	16030.
#3	26913.	15826.

Approved: July 27, 2012



Sample Name: CCV Acquired: 7/25/2012 19:35:44 Type: QC
 Method: ICP-THERMO2_6010_200.7(v1999) Mode: CONC Corr. Factor: 1.000000
 User: KHR Custom ID1: Custom ID2: Custom ID3:
 Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.40139	9.6952	.38364	.50641	.99901	.05242	9.8310
Stddev	.00118	1.0096	.00055	.00484	.10202	.00027	.9068
%RSD	.29352	10.414	.14273	.95573	10.212	.52049	9.2238

#1	.40231	8.5375	.38370	.50982	.88204	.05242	8.7944
#2	.40179	10.155	.38415	.50853	1.0453	.05269	10.221
#3	.40006	10.393	.38306	.50087	1.0696	.05214	10.477

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	Hf2322	Hf2641
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.04906	.19633	.50140	.49147	4.0477	.98024	F .53422
Stddev	.00029	.00027	.00445	.00075	.4104	.00130	.11222
%RSD	.58318	.13588	.88796	.15172	10.139	.13225	21.006

#1	.04915	.19605	.50513	.49205	3.5781	.97917	.65380
#2	.04928	.19658	.50259	.49173	4.2277	.98168	.51765
#3	.04874	.19636	.49647	.49063	4.3373	.97986	.43121

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
Value							1.0000
Range							-10.000%

Elem	Hf2773	Hf3399	K_7664	Li6707	Mg2790	Mn2576	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F 1.3916	F -.04835	49.860	.94964	10.354	.48383	.98283
Stddev	.6326	.26692	4.986	.10038	1.051	.04998	.00140
%RSD	45.462	552.03	10.000	10.570	10.155	10.330	.14261

#1	2.0174	-.10564	44.131	.83405	9.1497	.42654	.98159
#2	1.4050	-.28197	52.229	.99995	10.827	.50645	.98255
#3	.75232	.24256	53.220	1.0149	11.087	.51851	.98435

Check ?	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	1.0000	1.0000					
Range	10.000%	-10.000%					

Approved: July 27, 2012



Sample Name: CCV Acquired: 7/25/2012 19:35:44 Type: QC
 Method: ICP-THERMO2_6010_200.7(v1999) Mode: CONC Corr. Factor: 1.000000
 User: KHR Custom ID1: Custom ID2: Custom ID3:
 Comment:

Elem	Na5895	Ni2316	P_2149	Pb2203	Rb7800	S_1807	S_1820
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	50.973	.52472	F 22.647	.51839	F 4.7509	10.482	F 6.8848
Stddev	5.179	.00055	15.787	.00215	15.884	.058	.7943
%RSD	10.160	.10438	69.709	.41512	334.34	.55358	11.537

#1	45.028	.52494	34.692	.52033	-12.345	10.475	7.3643
#2	53.386	.52409	4.7747	.51877	19.052	10.543	7.3221
#3	54.505	.52512	28.475	.51608	7.5451	10.427	5.9679

Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Fail	Chk Pass	Chk Fail
Value			10.000		10.000		10.000
Range			10.000%		-10.000%		-10.000%

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3372	Ti1908
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.2605	.39205	F 5.8676	1.0392	1.0222	.95787	.53401
Stddev	.0059	.00429	.0260	.0019	.1046	.09286	.00410
%RSD	.46726	1.0932	.44319	.18312	10.231	9.6944	.76838

#1	1.2658	.39310	5.8973	1.0411	.90195	.85162	.53858
#2	1.2614	.39572	5.8566	1.0392	1.0727	.99850	.53282
#3	1.2542	.38734	5.8488	1.0373	1.0919	1.0235	.53063

Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value			5.0000				
Range			10.000%				

Elem	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm
Avg	.95351	1.0204	F 1.2246
Stddev	.00824	.0010	.4014
%RSD	.86367	.10087	32.775

#1	.96115	1.0215	1.5988
#2	.95459	1.0199	.80067
#3	.94479	1.0196	1.2745

Check ?	Chk Pass	Chk Pass	Chk Fail
Value			1.0000
Range			10.000%

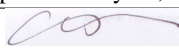
Approved: July 27, 2012



Sample Name: CCV Acquired: 7/25/2012 19:35:44 Type: QC
Method: ICP-THERMO2_6010_200.7(v1999) Mode: CONC Corr. Factor: 1.000000
User: KHR Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	26252.	16635.
Stddev	146.	978.
%RSD	.55578	5.8777
#1	26227.	17764.
#2	26120.	16085.
#3	26408.	16057.

Approved: July 27, 2012



Sample Name: CCB Acquired: 7/25/2012 19:38:47 Type: Blank
 Method: ICP-THERMO2_6010_200.7(v1999) Mode: CONC Corr. Factor: 1.000000
 User: KHR Custom ID1: Custom ID2: Custom ID3:
 Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00115	.05184	-.00186	.00324	.00076	.00003	.06070
Stddev	.00083	.01205	.00179	.00148	.00124	.00005	.04320
%RSD	72.110	23.242	96.102	45.700	162.08	154.11	71.164

#1	.00211	.03797	-.00294	.00249	.00218	.00009	.11024
#2	.00077	.05971	-.00285	.00229	-.00009	-.00001	.04097
#3	.00058	.05784	.00020	.00494	.00020	.00003	.03089

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	Hf2322	Hf2641
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00021	-.00003	-.00097	.00011	.00247	-.01312	.08229
Stddev	.00013	.00034	.00033	.00024	.00634	.00350	.46914
%RSD	61.938	1184.2	34.436	211.83	257.24	26.689	570.09

#1	.00008	.00010	-.00125	-.00001	.00958	-.00934	-.40189
#2	.00021	.00023	-.00060	.00038	-.00261	-.01625	.53477
#3	.00033	-.00042	-.00105	-.00003	.00043	-.01377	.11400

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Hf2773	Hf3399	K_7664	Li6707	Mg2790	Mn2576	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F .89653	.01216	.36139	.00322	-.03684	.00050	.00017
Stddev	.55214	1.1419	.07056	.00630	.02602	.00228	.00039
%RSD	61.587	9386.5	19.525	195.44	70.649	452.01	230.66

#1	1.0705	-1.2606	.35740	.00764	-.01253	.00310	.00047
#2	.27835	.94668	.29291	.00602	-.06429	-.00117	-.00027
#3	1.3407	.35041	.43387	-.00399	-.03368	-.00041	.00030

Check ?	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	.10000						
Low Limit	-.10000						

Approved: July 27, 2012



Sample Name: CCB Acquired: 7/25/2012 19:38:47 Type: Blank
 Method: ICP-THERMO2_6010_200.7(v1999) Mode: CONC Corr. Factor: 1.000000
 User: KHR Custom ID1: Custom ID2: Custom ID3:
 Comment:

Elem	Na5895	Ni2316	P_2149	Pb2203	Rb7800	S_1807	S_1820
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.19269	.00050	F 1.1438	-.00091	F 1.4622	F -.01561	F 6.1550
Stddev	.15569	.00153	8.9846	.00349	13.069	.10593	2.6044
%RSD	80.799	306.95	785.51	384.93	893.78	678.52	42.314

#1	.36981	.00143	-9.2138	.00275	-10.056	.08536	3.6615
#2	.13077	-.00127	6.8352	-.00420	-1.2222	-.12588	8.8577
#3	.07748	.00134	5.8100	-.00126	15.665	-.00631	5.9457

Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Fail	Chk Fail	Chk Fail
High Limit			.01000		.01000	.01000	.01000
Low Limit			-.01000		-.01000	-.01000	-.01000

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3372	Tl1908
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00147	.00151	.00414	-.00074	.00188	.00132	.00110
Stddev	.00079	.00072	.00577	.00021	.00137	.00347	.00224
%RSD	54.019	47.211	139.43	28.813	72.889	263.35	203.04

#1	.00075	.00234	-.00033	-.00067	.00346	.00523	.00307
#2	.00133	.00112	.01065	-.00056	.00112	-.00137	.00157
#3	.00232	.00108	.00209	-.00097	.00105	.00009	-.00133

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm
Avg	-.00033	.00020	F -.59722
Stddev	.00014	.00025	.54234
%RSD	43.055	125.35	90.810

#1	-.00049	.00027	-.26931
#2	-.00030	-.00008	-1.2232
#3	-.00021	.00040	-.29913

Check ?	Chk Pass	Chk Pass	Chk Fail
High Limit			.10000
Low Limit			-.10000

Approved: July 27, 2012



Sample Name: CCB Acquired: 7/25/2012 19:38:47 Type: Blank
Method: ICP-THERMO2_6010_200.7(v1999) Mode: CONC Corr. Factor: 1.000000
User: KHR Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	25583.	16544.
Stddev	1472.	694.
%RSD	5.7542	4.1955
#1	26439.	17336.
#2	23883.	16255.
#3	26428.	16041.

Approved: July 27, 2012



Sample Name: L1207072405 Acquired: 7/25/2012 19:42:01 Type: Unk
 Method: ICP-THERMO2_6010_200.7(v1999) Mode: CONC Corr. Factor: 1.000000
 User: KHR Custom ID1: Custom ID2: Custom ID3:
 Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00057	.13946	.00073	.02123	.04171	.00005	52.204
Stddev	.00059	.04273	.00013	.00291	.00433	.00005	4.400
%RSD	102.67	30.640	17.710	13.688	10.380	100.21	8.4290

#1	.00070	.10999	.00087	.02281	.03709	.00002	47.190
#2	-.00007	.18846	.00068	.01788	.04234	.00002	54.002
#3	.00109	.11992	.00063	.02301	.04568	.00011	55.421

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	Hf2322	Hf2641
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00028	.00020	.00008	.00014	2.3376	.24392	.89346
Stddev	.00016	.00002	.00046	.00080	.2028	.00186	.18064
%RSD	56.244	9.4422	577.73	551.73	8.6749	.76442	20.218

#1	.00027	.00019	.00058	.00056	2.1052	.24194	.96806
#2	.00013	.00022	-.00001	-.00078	2.4288	.24418	.68747
#3	.00044	.00020	-.00033	.00065	2.4787	.24565	1.0249

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Hf2773	Hf3399	K_7664	Li6707	Mg2790	Mn2576	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.79238	-.05187	1.4604	.00058	2.9056	.08481	.00072
Stddev	.40114	3.1959	.1306	.00171	.2513	.00745	.00036
%RSD	50.625	6161.4	8.9443	297.39	8.6501	8.7882	50.692

#1	.94542	-3.7415	1.3241	-.00020	2.6248	.07627	.00030
#2	.33724	1.8520	1.5845	-.00061	2.9822	.08814	.00089
#3	1.0945	1.7338	1.4726	.00254	3.1097	.09002	.00097

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: July 27, 2012



Sample Name: L1207072405 Acquired: 7/25/2012 19:42:01 Type: Unk
 Method: ICP-THERMO2_6010_200.7(v1999) Mode: CONC Corr. Factor: 1.000000
 User: KHR Custom ID1: Custom ID2: Custom ID3:
 Comment:

Elem	Na5895	Ni2316	P_2149	Pb2203	Rb7800	S_1807	S_1820
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	9.7796	.00158	699.35	.00109	1.5726	F 67.179	F -309.65
Stddev	.7923	.00033	8.80	.00059	12.422	.399	2.97
%RSD	8.1019	20.864	1.2578	54.151	789.88	.59345	.95799

#1	8.8804	.00163	705.62	.00041	-6.2948	66.944	-306.85
#2	10.083	.00123	689.30	.00147	-4.8800	66.953	-309.34
#3	10.375	.00188	703.13	.00139	15.893	67.639	-312.76

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Fail
High Limit						9.0000	9.0000
Low Limit						-.00400	-.00400

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3372	Tl1908
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.00019	-.00257	8.9247	-.00076	.24912	.00409	.00060
Stddev	.00389	.00302	.0432	.00027	.02173	.00003	.00387
%RSD	2018.2	117.47	.48424	35.858	8.7212	.67118	648.94

#1	.00252	-.00010	8.8919	-.00050	.22440	.00410	-.00368
#2	.00156	-.00594	8.9085	-.00104	.25777	.00410	.00385
#3	-.00466	-.00167	8.9737	-.00074	.26519	.00405	.00161

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm
Avg	.00016	.00225	F -.10121
Stddev	.00074	.00012	.39146
%RSD	464.06	5.3782	386.77

#1	.00053	.00237	-.46402
#2	-.00069	.00224	.31369
#3	.00065	.00213	-.15331

Check ?	Chk Pass	Chk Pass	Chk Fail
High Limit			45.000
Low Limit			-.00400

Approved: July 27, 2012



Sample Name: L1207072405 Acquired: 7/25/2012 19:42:01 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1999) Mode: CONC Corr. Factor: 1.000000
User: KHR Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	26602.	16492.
Stddev	110.	791.
%RSD	.41256	4.7939
#1	26685.	17373.
#2	26477.	16258.
#3	26642.	15845.

Approved: July 27, 2012



Sample Name: L1207072406 Acquired: 7/25/2012 19:45:05 Type: Unk
 Method: ICP-THERMO2_6010_200.7(v1999) Mode: CONC Corr. Factor: 1.000000
 User: KHR Custom ID1: Custom ID2: Custom ID3:
 Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.19513	4.8571	.18819	.99896	.52978	.02560	57.464
Stddev	.00094	.3971	.00048	.00779	.04200	.00014	4.404
%RSD	.48093	8.1761	.25544	.77966	7.9281	.55759	7.6644

#1	.19431	4.4104	.18853	.99363	.48195	.02548	52.449
#2	.19494	4.9909	.18764	.99536	.54677	.02557	59.236
#3	.19615	5.1701	.18840	1.0079	.56063	.02576	60.706

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	Hf2322	Hf2641
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.02395	.09524	.24070	.23868	3.5423	.70587	.38152
Stddev	.00016	.00030	.00125	.00052	.2656	.00713	.06234
%RSD	.67439	.31844	.51869	.21749	7.4978	1.0107	16.341

#1	.02383	.09490	.23944	.23915	3.2435	.70413	.39854
#2	.02414	.09534	.24072	.23878	3.6321	.71371	.31243
#3	.02389	.09548	.24194	.23812	3.7514	.69976	.43359


Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Hf2773	Hf3399	K_7664	Li6707	Mg2790	Mn2576	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.5625	.60644	26.024	.47925	7.9712	.31777	.47779
Stddev	.5173	1.1525	1.899	.03727	.6099	.02583	.00117
%RSD	33.106	190.05	7.2963	7.7769	7.6513	8.1296	.24514

#1	1.9542	1.6474	23.870	.43648	7.2766	.28843	.47900
#2	1.7570	.80402	26.748	.49648	8.2180	.32780	.47771
#3	.97613	-.63210	27.455	.50478	8.4190	.33709	.47666

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: July 27, 2012



Sample Name: L1207072406 Acquired: 7/25/2012 19:45:05 Type: Unk
 Method: ICP-THERMO2_6010_200.7(v1999) Mode: CONC Corr. Factor: 1.000000
 User: KHR Custom ID1: Custom ID2: Custom ID3:
 Comment:

Elem	Na5895	Ni2316	P_2149	Pb2203	Rb7800	S_1807	S_1820
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	35.268	.25451	500.71	.25203	F -.03104	F 70.369	F -287.85
Stddev	2.704	.00075	16.60	.00200	10.853	.237	2.35
%RSD	7.6682	.29467	3.3150	.79339	34961.	.33746	.81745

#1	32.221	.25486	513.79	.25264	-12.046	70.642	-289.18
#2	36.200	.25502	506.29	.24980	9.0622	70.261	-289.23
#3	37.383	.25365	482.04	.25366	2.8911	70.205	-285.13

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Fail	Chk Fail
High Limit					9.0000	9.0000	9.0000
Low Limit					-.00400	-.00400	-.00400

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3372	Tl1908
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.60555	.18974	11.903	.51507	.74400	.46713	.25887
Stddev	.00556	.00519	.033	.00015	.05749	.03638	.00180
%RSD	.91867	2.7343	.27457	.02966	7.7273	7.7887	.69679

#1	.59973	.19082	11.929	.51513	.68017	.42559	.25754
#2	.61081	.19430	11.912	.51519	.76012	.48245	.26092
#3	.60610	.18410	11.866	.51490	.79171	.49334	.25814

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm
Avg	.46179	.50583	-.00182
Stddev	.00375	.00084	.49401
%RSD	.81113	.16526	27182.

#1	.46156	.50679	-.22844
#2	.45817	.50532	-.34186
#3	.46565	.50537	.56484

Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

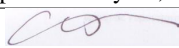
Approved: July 27, 2012



Sample Name: L1207072406 Acquired: 7/25/2012 19:45:05 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1999) Mode: CONC Corr. Factor: 1.000000
User: KHR Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	26784.	16531.
Stddev	56.	489.
%RSD	.20811	2.9575
#1	26725.	17088.
#2	26836.	16334.
#3	26790.	16171.

Approved: July 27, 2012



Sample Name: L1207072407 Acquired: 7/25/2012 19:48:08 Type: Unk
 Method: ICP-THERMO2_6010_200.7(v1999) Mode: CONC Corr. Factor: 1.000000
 User: KHR Custom ID1: Custom ID2: Custom ID3:
 Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.19527	5.4686	.18538	.99820	.52183	.02550	55.731
Stddev	.00079	.4668	.00286	.00352	.05255	.00021	5.495
%RSD	.40420	8.5352	1.5404	.35236	10.070	.82757	9.8590

#1	.19442	4.9302	.18208	.99417	.46180	.02525	49.429
#2	.19598	5.7165	.18715	1.0006	.54419	.02562	58.251
#3	.19540	5.7591	.18690	.99985	.55951	.02562	59.514

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	Hf2322	Hf2641
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.02379	.09504	.24220	.23750	4.1442	.70320	F -.41905
Stddev	.00010	.00016	.00143	.00056	.4127	.00394	.16697
%RSD	.40319	.16332	.58838	.23758	9.9588	.56000	39.846

#1	.02386	.09490	.24058	.23703	3.6729	.70583	-.42387
#2	.02368	.09520	.24326	.23813	4.3189	.69867	-.24973
#3	.02384	.09500	.24275	.23734	4.4409	.70509	-.58357

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit							45.000
Low Limit							-.10000

Elem	Hf2773	Hf3399	K_7664	Li6707	Mg2790	Mn2576	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.5100	1.2750	25.551	.47405	7.8609	.31207	.47489
Stddev	.2042	2.1931	2.532	.05242	.7994	.03268	.00151
%RSD	13.524	172.01	9.9079	11.059	10.169	10.473	.31862

#1	1.4531	-1.1354	22.648	.41377	6.9437	.27467	.47316
#2	1.7366	3.1526	26.708	.49942	8.2295	.32639	.47597
#3	1.3403	1.8078	27.298	.50897	8.4095	.33515	.47553

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: July 27, 2012



Sample Name: L1207072407 Acquired: 7/25/2012 19:48:08 Type: Unk
 Method: ICP-THERMO2_6010_200.7(v1999) Mode: CONC Corr. Factor: 1.000000
 User: KHR Custom ID1: Custom ID2: Custom ID3:
 Comment:

Elem	Na5895	Ni2316	P_2149	Pb2203	Rb7800	S_1807	S_1820
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	34.607	.25392	529.31	.25085	F -4.9440	F 75.560	F -492.93
Stddev	3.367	.00127	21.86	.00140	4.7809	.173	2.56
%RSD	9.7302	.49930	4.1293	.55985	96.701	.22962	.51962

#1	30.742	.25248	530.34	.25056	-9.9993	75.533	-491.47
#2	36.171	.25485	506.95	.25238	-4.3373	75.745	-495.89
#3	36.908	.25444	550.63	.24961	-.49545	75.402	-491.43

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Fail	Chk Fail
High Limit					9.0000	9.0000	9.0000
Low Limit					-.00400	-.00400	-.00400

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3372	Tl1908
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.59941	.19013	13.065	.51918	.73149	.47061	.25621
Stddev	.00202	.00375	.038	.00095	.07138	.04563	.00292
%RSD	.33640	1.9716	.29115	.18305	9.7582	9.6964	1.1409

#1	.60142	.18678	13.021	.51809	.64952	.41792	.25291
#2	.59942	.19418	13.089	.51985	.76500	.49659	.25845
#3	.59739	.18943	13.086	.51960	.77996	.49732	.25728

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm
Avg	.45993	.51515	F -.06487
Stddev	.00168	.00107	.59169
%RSD	.36493	.20860	912.15

#1	.45801	.51396	-.04154
#2	.46064	.51605	.51481
#3	.46113	.51544	-.66788

Check ?	Chk Pass	Chk Pass	Chk Fail
High Limit			45.000
Low Limit			-.00400


Approved: July 27, 2012



Sample Name: L1207072407 Acquired: 7/25/2012 19:48:08 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1999) Mode: CONC Corr. Factor: 1.000000
User: KHR Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	26707.	16838.
Stddev	106.	924.
%RSD	.39677	5.4890
#1	26656.	17903.
#2	26829.	16375.
#3	26636.	16238.

Approved: July 27, 2012



Sample Name: L1207072408 Acquired: 7/25/2012 19:51:09 Type: Unk
 Method: ICP-THERMO2_6010_200.7(v1999) Mode: CONC Corr. Factor: 1.000000
 User: KHR Custom ID1: Custom ID2: Custom ID3:
 Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00059	.51392	-.00160	.03764	.02552	.00006	58.220
Stddev	.00139	.04483	.00068	.00138	.00139	.00001	5.109
%RSD	234.48	8.7223	42.170	3.6733	5.4530	23.108	8.7753

#1	.00160	.46488	-.00188	.03605	.02394	.00005	52.393
#2	.00116	.55278	-.00209	.03859	.02607	.00007	60.338
#3	-.00099	.52409	-.00083	.03828	.02655	.00006	61.929

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	Hf2322	Hf2641
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00018	.00013	.00061	.00132	2.8507	.36260	-.00559
Stddev	.00021	.00008	.00053	.00041	.2569	.00192	.66987
%RSD	118.07	61.256	88.054	30.912	9.0119	.52967	11982.

#1	.00007	.00004	.00089	.00106	2.5580	.36065	.10881
#2	.00005	.00018	.00094	.00179	2.9553	.36449	.59971
#3	.00042	.00018	-.00001	.00111	3.0388	.36265	-.72530

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Hf2773	Hf3399	K_7664	Li6707	Mg2790	Mn2576	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.68027	.26887	2.0778	.00271	5.6745	.07936	.00155
Stddev	.48325	1.9414	.1372	.00362	.5241	.00764	.00019
%RSD	71.038	722.08	6.6035	133.57	9.2361	9.6320	12.204

#1	.93726	1.9104	1.9202	.00271	5.0842	.07060	.00134
#2	.12283	-1.8741	2.1424	.00634	5.8543	.08281	.00170
#3	.98072	.77032	2.1707	-.00091	6.0850	.08467	.00161

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: July 27, 2012



Sample Name: L1207072408 Acquired: 7/25/2012 19:51:09 Type: Unk
 Method: ICP-THERMO2_6010_200.7(v1999) Mode: CONC Corr. Factor: 1.000000
 User: KHR Custom ID1: Custom ID2: Custom ID3:
 Comment:

Elem	Na5895	Ni2316	P_2149	Pb2203	Rb7800	S_1807	S_1820
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	10.483	.00058	399.83	.00278	F -8.4422	F 70.050	F -165.58
Stddev	.857	.00082	10.29	.00050	13.914	.264	2.51
%RSD	8.1795	141.67	2.5728	17.857	164.81	.37637	1.5148

#1	9.5045	.00063	406.28	.00222	-24.150	69.830	-168.38
#2	10.843	.00137	387.97	.00294	2.3336	69.978	-164.83
#3	11.102	-.00027	405.25	.00317	-3.5100	70.342	-163.54

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Fail	Chk Fail
High Limit					9.0000	9.0000	9.0000
Low Limit					-.00400	-.00400	-.00400

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3372	Tl1908
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.00015	.00243	11.028	-.00078	.36566	.01340	.00275
Stddev	.00428	.00314	.084	.00041	.03214	.00423	.00205
%RSD	2928.8	129.33	.76574	52.373	8.7903	31.572	74.704

#1	.00015	.00258	10.938	-.00084	.32882	.01671	.00442
#2	.00398	.00549	11.042	-.00115	.38020	.01485	.00046
#3	-.00456	-.00078	11.105	-.00034	.38796	.00863	.00336

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm
Avg	.00101	.02314	F -.42928
Stddev	.00028	.00010	.62306
%RSD	28.157	.41652	145.14

#1	.00110	.02305	-1.0541
#2	.00123	.02324	.19204
#3	.00069	.02311	-.42579

Check ?	Chk Pass	Chk Pass	Chk Fail
High Limit			45.000
Low Limit			-.00400

Approved: July 27, 2012



Sample Name: L1207072408 Acquired: 7/25/2012 19:51:09 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1999) Mode: CONC Corr. Factor: 1.000000
User: KHR Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	26545.	17142.
Stddev	299.	849.
%RSD	1.1248	4.9511
#1	26716.	18099.
#2	26718.	16847.
#3	26200.	16481.

Approved: July 27, 2012



Sample Name: CCV Acquired: 7/25/2012 19:54:16 Type: QC
 Method: ICP-THERMO2_6010_200.7(v1999) Mode: CONC Corr. Factor: 1.000000
 User: KHR Custom ID1: Custom ID2: Custom ID3:
 Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.39657	9.8721	.38594	.50887	1.0151	.05214	10.034
Stddev	.00468	.9139	.00179	.00566	.0901	.00024	.727
%RSD	1.1802	9.2575	.46507	1.1123	8.8809	.45435	7.2415

#1	.39654	8.8222	.38674	.51121	.91253	.05210	9.2080
#2	.39190	10.305	.38389	.50241	1.0512	.05193	10.317
#3	.40126	10.489	.38720	.51299	1.0817	.05240	10.576

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	Hf2322	Hf2641
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.04924	.19676	.49687	.49326	4.1117	.98239	.95224
Stddev	.00009	.00028	.00281	.00123	.3656	.00308	.16446
%RSD	.18658	.14362	.56475	.24901	8.8930	.31399	17.271

#1	.04914	.19649	.49810	.49375	3.6942	.97884	.92766
#2	.04929	.19673	.49366	.49186	4.2657	.98399	1.1276
#3	.04930	.19705	.49885	.49416	4.3751	.98435	.80145

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Hf2773	Hf3399	K_7664	Li6707	Mg2790	Mn2576	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F .36933	F 1.3342	50.809	.96083	10.519	.49018	.98568
Stddev	.82328	1.8049	4.298	.08258	.893	.04119	.00262
%RSD	222.91	135.28	8.4590	8.5946	8.4878	8.4036	.26544

#1	1.0965	3.1371	45.922	.86628	9.5011	.44377	.98509
#2	.53606	1.3383	52.501	.99736	10.886	.50438	.98340
#3	-.52456	-.47274	54.003	1.0188	11.170	.52240	.98854

Check ?	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	1.0000	1.0000					
Range	-10.000%	10.000%					

Approved: July 27, 2012



Sample Name: CCV Acquired: 7/25/2012 19:54:16 Type: QC
 Method: ICP-THERMO2_6010_200.7(v1999) Mode: CONC Corr. Factor: 1.000000
 User: KHR Custom ID1: Custom ID2: Custom ID3:
 Comment:

Elem	Na5895	Ni2316	P_2149	Pb2203	Rb7800	S_1807	S_1820
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	51.819	.52491	F 23.998	.51736	F 11.202	10.422	F 7.0798
Stddev	4.550	.00079	9.734	.00386	12.853	.060	1.5288
%RSD	8.7801	.15059	40.561	.74623	114.74	.57725	21.593

#1	46.636	.52524	35.219	.52153	-1.8671	10.417	7.3689
#2	53.665	.52548	17.820	.51391	11.645	10.364	5.4272
#3	55.155	.52400	18.956	.51664	23.828	10.484	8.4434

Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Fail	Chk Pass	Chk Fail
Value			10.000		10.000		10.000
Range			10.000%		10.000%		-10.000%

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3372	Ti1908
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.2652	.39753	F 5.8255	1.0408	1.0389	.96512	.53303
Stddev	.0049	.00819	.0424	.0032	.0950	.07720	.00106
%RSD	.39073	2.0593	.72843	.30592	9.1483	7.9993	.19943

#1	1.2650	.38914	5.8521	1.0391	.93090	.87704	.53414
#2	1.2702	.39797	5.8479	1.0445	1.0759	.99722	.53293
#3	1.2603	.40549	5.7766	1.0388	1.1099	1.0211	.53202


Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value			5.0000				
Range			10.000%				

Elem	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm
Avg	.94271	1.0225	F .85065
Stddev	.01011	.0003	.65891
%RSD	1.0720	.03325	77.459

#1	.94432	1.0222	1.5804
#2	.93190	1.0225	.29945
#3	.95191	1.0229	.67206

Check ?	Chk Pass	Chk Pass	Chk Fail
Value			1.0000
Range			-10.000%

Approved: July 27, 2012



Sample Name: CCV Acquired: 7/25/2012 19:54:16 Type: QC
Method: ICP-THERMO2_6010_200.7(v1999) Mode: CONC Corr. Factor: 1.000000
User: KHR Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	26188.	16086.
Stddev	42.	760.
%RSD	.16074	4.7276
#1	26154.	16962.
#2	26235.	15703.
#3	26175.	15594.

Approved: July 27, 2012



Sample Name: CCB Acquired: 7/25/2012 19:57:20 Type: Blank
 Method: ICP-THERMO2_6010_200.7(v1999) Mode: CONC Corr. Factor: 1.000000
 User: KHR Custom ID1: Custom ID2: Custom ID3:
 Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00100	.01789	-.00114	.00511	.00024	-.00001	.03944
Stddev	.00133	.03495	.00116	.00042	.00015	.00006	.01140
%RSD	132.98	195.37	101.20	8.1783	64.576	561.33	28.894

#1	-.00015	-.00046	-.00244	.00558	.00009	.00005	.05212
#2	.00245	.05818	-.00022	.00480	.00040	.00000	.03615
#3	.00070	-.00406	-.00076	.00493	.00023	-.00008	.03006

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	Hf2322	Hf2641
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00011	.00005	-.00044	-.00005	-.01383	-.01194	F .16209
Stddev	.00021	.00025	.00073	.00031	.01290	.00536	.25863
%RSD	197.03	476.83	164.02	594.40	93.321	44.898	159.56

#1	.00017	.00010	-.00085	-.00037	-.00486	-.00850	-.03190
#2	.00029	.00027	.00040	.00025	-.00801	-.00921	.45573
#3	-.00013	-.00022	-.00088	-.00004	-.02862	-.01812	.06245

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit							.10000
Low Limit							-.10000

Elem	Hf2773	Hf3399	K_7664	Li6707	Mg2790	Mn2576	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F 1.0628	-.09198	.35104	-.00244	.00523	.00117	.00035
Stddev	.1238	1.8955	.08920	.00209	.04728	.00050	.00008
%RSD	11.652	2060.7	25.410	85.599	903.38	42.969	24.006

#1	1.1321	-1.8931	.32724	-.00120	-.03084	.00175	.00027
#2	1.1364	-.26847	.44973	-.00127	.05876	.00090	.00035
#3	.91982	1.8856	.27615	-.00485	-.01222	.00086	.00043

Check ?	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	.10000						
Low Limit	-.10000						

Approved: July 27, 2012



Sample Name: CCB Acquired: 7/25/2012 19:57:20 Type: Blank
 Method: ICP-THERMO2_6010_200.7(v1999) Mode: CONC Corr. Factor: 1.000000
 User: KHR Custom ID1: Custom ID2: Custom ID3:
 Comment:

Elem	Na5895	Ni2316	P_2149	Pb2203	Rb7800	S_1807	S_1820
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.18792	.00032	F -.86775	.00121	F 5.8164	F .06958	F 5.2414
Stddev	.03527	.00071	18.552	.00077	13.777	.05136	1.0551
%RSD	18.770	221.08	2138.0	63.327	236.87	73.813	20.131

#1	.22504	.00097	18.167	.00189	-9.7453	.05913	4.2463
#2	.15485	.00044	-1.8730	.00135	16.460	.12535	5.1300
#3	.18388	-.00044	-18.897	.00038	10.735	.02425	6.3478

Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Fail	Chk Fail	Chk Fail
High Limit			.01000		.01000	.01000	.01000
Low Limit			-.01000		-.01000	-.01000	-.01000

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3372	Tl1908
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00035	.00137	-.00110	-.00080	.00074	-.00289	.00011
Stddev	.00164	.00250	.00656	.00064	.00083	.00268	.00101
%RSD	470.12	181.95	596.61	80.816	112.25	92.835	954.82

#1	-.00115	.00416	-.00265	-.00029	.00167	-.00045	.00127
#2	.00210	-.00067	-.00675	-.00058	.00051	-.00576	-.00046
#3	.00010	.00063	.00610	-.00152	.00005	-.00245	-.00049

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm
Avg	-.00027	.00029	F -.31354
Stddev	.00042	.00006	.15639
%RSD	154.16	21.995	49.879

#1	-.00011	.00035	-.45963
#2	.00004	.00030	-.33244
#3	-.00075	.00022	-.14856

Check ?	Chk Pass	Chk Pass	Chk Fail
High Limit			.10000
Low Limit			-.10000

Approved: July 27, 2012



Sample Name: CCB Acquired: 7/25/2012 19:57:20 Type: Blank
Method: ICP-THERMO2_6010_200.7(v1999) Mode: CONC Corr. Factor: 1.000000
User: KHR Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	26157.	16410.
Stddev	895.	959.
%RSD	3.4209	5.8441
#1	26730.	17517.
#2	26615.	15864.
#3	25126.	15849.

Approved: July 27, 2012



Sample Name: S0 Acquired: 7/30/2012 9:09:10 Type: Cal
 Method: ICP-THERMO2_6010_200.7(v2005) Mode: IR Corr. Factor: 1.000000
 User: KHR Custom ID1: Custom ID2: Custom ID3:
 Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	-.00375	.00173	.00011	.00296	.01028	-.00209	-.00931
Stddev	.00027	.00039	.00001	.00028	.00015	.00012	.00032
%RSD	7.0796	22.471	7.1721	9.3275	1.4245	5.7120	3.4548

#1	-.00403	.00149	.00011	.00328	.01042	-.00202	-.00895
#2	-.00351	.00218	.00012	.00279	.01027	-.00223	-.00942
#3	-.00372	.00153	.00011	.00281	.01013	-.00203	-.00956

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	Hf2322	Hf2641
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	-.00004	-.00004	.00143	.00000	-.00001	-.00003	.00021
Stddev	.00010	.00002	.00008	.00014	.00021	.00009	.00020
%RSD	267.83	41.098	5.4101	7629.1	1463.9	343.13	97.750

#1	-.00003	-.00003	.00135	-.00002	.00000	-.00003	.00009
#2	-.00014	-.00006	.00150	.00015	.00018	-.00011	.00009
#3	.00006	-.00004	.00144	-.00012	-.00023	.00007	.00044

Elem	Hf2773	Hf3399	K_7664	Li6707	Mg2790	Mn2576	Mo2020
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.00040	-.00064	.00138	-.00053	.00039	.00427	-.00004
Stddev	.00028	.00064	.00135	.00086	.00042	.00033	.00001
%RSD	70.026	98.795	97.932	161.91	107.22	7.6184	11.890

#1	.00072	-.00044	.00001	-.00072	.00079	.00389	-.00004
#2	.00024	-.00136	.00142	.00041	.00043	.00445	-.00005
#3	.00023	-.00013	.00272	-.00129	-.00005	.00446	-.00004

Elem	Na5895	Ni2316	P_2149	Pb2203	Rb7800	S_1807	S_1820
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	-.02443	-.00144	.00065	-.00083	-.02545	-.00065	-.00021
Stddev	.00158	.00004	.00005	.00013	.00190	.00002	.00002
%RSD	6.4762	2.8581	8.4055	15.542	7.4566	3.7085	11.235

#1	-.02314	-.00148	.00058	-.00081	-.02373	-.00063	-.00023
#2	-.02396	-.00140	.00067	-.00096	-.02514	-.00064	-.00018
#3	-.02620	-.00146	.00069	-.00071	-.02749	-.00067	-.00021

Approved: July 31, 2012



Sample Name: S0 Acquired: 7/30/2012 9:09:10 Type: Cal
 Method: ICP-THERMO2_6010_200.7(v2005) Mode: IR Corr. Factor: 1.000000
 User: KHR Custom ID1: Custom ID2: Custom ID3:
 Comment:

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3372	Tl1908
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.00016	-.00023	.00028	.00011	.00298	-.00145	-.00019
Stddev	.00007	.00004	.00002	.00004	.00042	.00010	.00002
%RSD	42.356	16.937	7.0442	33.788	13.968	6.9552	10.095

#1	.00025	-.00024	.00026	.00007	.00344	-.00134	-.00017
#2	.00013	-.00026	.00030	.00014	.00287	-.00154	-.00020
#3	.00012	-.00018	.00027	.00014	.00263	-.00148	-.00020


Elem	V_2924	Zn2062	Zr3391
Units	Cts/S	Cts/S	Cts/S
Avg	.00053	-.00076	-.00438
Stddev	.00027	.00002	.00023
%RSD	50.064	2.9069	5.1579

#1	.00070	-.00078	-.00448
#2	.00068	-.00074	-.00455
#3	.00023	-.00076	-.00412

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	30103.	16876.
Stddev	60.	754.
%RSD	.19822	4.4705

#1	30165.	17704.
#2	30098.	16696.
#3	30046.	16227.

Approved: July 31, 2012



Sample Name: S1 Acquired: 7/30/2012 9:12:50 Type: Cal
 Method: ICP-THERMO2_6010_200.7(v2005) Mode: IR Corr. Factor: 1.000000
 User: KHR Custom ID1: Custom ID2: Custom ID3:
 Comment:

Elem	Ag3280	Al3082	Ba4554	Be3131	Ca4226	Cd2288	Co2286
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	-.00235	.00246	.02354	.00159	-.00635	.00022	.00089
Stddev	.00027	.00023	.00129	.00008	.00020	.00010	.00012
%RSD	11.635	9.3969	5.4900	4.9464	3.2264	47.213	13.054

#1	-.00267	.00221	.02206	.00159	-.00617	.00011	.00084
#2	-.00219	.00251	.02445	.00166	-.00657	.00032	.00102
#3	-.00220	.00267	.02412	.00150	-.00631	.00022	.00081

Elem	Cr2677	Cu2247	Fe2611	Hf2322	Hf2641	Hf2773	Hf3399
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.00421	.00070	.00102	.00013	.00038	.00019	-.00037
Stddev	.00021	.00004	.00030	.00005	.00019	.00014	.00053
%RSD	4.9653	5.0142	29.174	36.028	50.405	75.856	144.88

#1	.00428	.00071	.00080	.00018	.00034	.00019	-.00055
#2	.00397	.00073	.00136	.00009	.00059	.00004	.00023
#3	.00437	.00066	.00089	.00012	.00021	.00032	-.00079

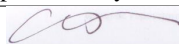
Elem	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.00957	.00406	.00103	.02747	.00145	.00483	-.00091
Stddev	.00110	.00179	.00019	.00098	.00005	.00163	.00009
%RSD	11.479	44.030	18.187	3.5770	3.4554	33.666	9.5772

#1	.00835	.00365	.00081	.02638	.00141	.00335	-.00100
#2	.00988	.00252	.00115	.02829	.00143	.00657	-.00083
#3	.01049	.00602	.00111	.02774	.00151	.00456	-.00089

Elem	P_2149	Pb2203	Rb7800	S_1807	S_1820	Sb2068	Si2124
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.00069	-.00040	-.02688	-.00061	-.00019	.00048	.00071
Stddev	.00001	.00009	.00057	.00002	.00002	.00005	.00004
%RSD	1.1964	22.725	2.1217	3.1265	12.201	11.013	6.0189

#1	.00069	-.00049	-.02631	-.00062	-.00020	.00047	.00068
#2	.00068	-.00031	-.02746	-.00059	-.00020	.00043	.00076
#3	.00068	-.00041	-.02687	-.00062	-.00016	.00053	.00070

Approved: July 31, 2012



Sample Name: S1 Acquired: 7/30/2012 9:12:50 Type: Cal
 Method: ICP-THERMO2_6010_200.7(v2005) Mode: IR Corr. Factor: 1.000000
 User: KHR Custom ID1: Custom ID2: Custom ID3:
 Comment:

Elem	Sn1899	Sr4077	Ti3372	V_2924	Zn2062	Zr3391
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.00116	.02179	-.00028	.00792	.00562	-.00476
Stddev	.00002	.00128	.00033	.00019	.00009	.00032
%RSD	1.5708	5.8560	115.49	2.4527	1.5627	6.8101

#1	.00115	.02039	-.00063	.00787	.00559	-.00443
#2	.00115	.02209	.00002	.00775	.00555	-.00476
#3	.00118	.02289	-.00025	.00813	.00572	-.00508

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	30021.	16774.
Stddev	179.	719.
%RSD	.59466	4.2837

#1	29880.	17597.
#2	30222.	16456.
#3	29962.	16269.

Approved: July 31, 2012



Sample Name: S2 Acquired: 7/30/2012 9:16:01 Type: Cal
 Method: ICP-THERMO2_6010_200.7(v2005) Mode: IR Corr. Factor: 1.000000
 User: KHR Custom ID1: Custom ID2: Custom ID3:
 Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	-.00026	.00329	.00048	.00431	.03816	.00565	-.00340
Stddev	.00042	.00071	.00004	.00007	.00197	.00009	.00023
%RSD	157.76	21.434	7.9848	1.5443	5.1667	1.5525	6.8629

#1	-.00029	.00261	.00049	.00427	.03596	.00566	-.00354
#2	-.00067	.00402	.00050	.00429	.03878	.00574	-.00313
#3	.00016	.00325	.00043	.00439	.03975	.00557	-.00353

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	Hf2322	Hf2641
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.00058	.00187	.00713	.00164	.00197	.00044	.00023
Stddev	.00010	.00007	.00010	.00002	.00020	.00009	.00017
%RSD	18.068	3.5586	1.4596	1.2434	10.402	21.365	71.403

#1	.00066	.00189	.00715	.00162	.00177	.00046	.00035
#2	.00061	.00192	.00722	.00166	.00196	.00034	.00004
#3	.00046	.00180	.00702	.00164	.00218	.00052	.00031

Elem	Hf2773	Hf3399	K_7664	Li6707	Mg2790	Mn2576	Mo2020
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.00025	-.00067	.01757	.00681	.00191	.05307	.00312
Stddev	.00005	.00039	.00078	.00088	.00014	.00168	.00003
%RSD	18.486	58.760	4.4234	12.898	7.3096	3.1626	1.0972

#1	.00025	-.00110	.01723	.00743	.00178	.05118	.00316
#2	.00021	-.00033	.01701	.00719	.00205	.05441	.00311
#3	.00030	-.00057	.01845	.00581	.00189	.05361	.00309

Elem	Na5895	Ni2316	P_2149	Pb2203	Rb7800	S_1807	S_1820
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.03907	-.00033	.00067	-.00007	-.02655	-.00054	-.00021
Stddev	.00495	.00005	.00006	.00007	.00076	.00000	.00003
%RSD	12.661	15.731	8.5986	102.14	2.8786	.65964	14.033

#1	.03337	-.00039	.00069	-.00007	-.02613	-.00055	-.00025
#2	.04163	-.00031	.00071	.00000	-.02610	-.00055	-.00019
#3	.04221	-.00029	.00060	-.00013	-.02744	-.00054	-.00020

Approved: July 31, 2012



Sample Name: S2 Acquired: 7/30/2012 9:16:01 Type: Cal
 Method: ICP-THERMO2_6010_200.7(v2005) Mode: IR Corr. Factor: 1.000000
 User: KHR Custom ID1: Custom ID2: Custom ID3:
 Comment:

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3372	Tl1908
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.00090	-.00007	.00125	.00233	.04161	.00139	.00003
Stddev	.00008	.00001	.00005	.00003	.00282	.00044	.00003
%RSD	8.8658	10.078	3.8332	1.2398	6.7760	31.352	100.51

#1	.00097	-.00006	.00131	.00235	.03848	.00090	.00005
#2	.00081	-.00006	.00122	.00232	.04242	.00171	-.00001
#3	.00093	-.00007	.00124	.00230	.04394	.00158	.00005


Elem	V_2924	Zn2062	Zr3391
Units	Cts/S	Cts/S	Cts/S
Avg	.01586	.01214	-.00455
Stddev	.00020	.00001	.00036
%RSD	1.2548	.12313	7.9360

#1	.01594	.01216	-.00438
#2	.01601	.01213	-.00496
#3	.01563	.01213	-.00430

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	30169.	16991.
Stddev	99.	541.
%RSD	.32658	3.1843

#1	30071.	17615.
#2	30168.	16660.
#3	30268.	16696.

Approved: July 31, 2012



Sample Name: S3 Acquired: 7/30/2012 9:19:10 Type: Cal
 Method: ICP-THERMO2_6010_200.7(v2005) Mode: IR Corr. Factor: 1.000000
 User: KHR Custom ID1: Custom ID2: Custom ID3:
 Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.16851	.09150	.01357	.07629	1.2817	.37066	.22997
Stddev	.00081	.00711	.00003	.00045	.0977	.00242	.01794
%RSD	.48105	7.7736	.19085	.58743	7.6224	.65365	7.8004

#1	.16835	.08352	.01360	.07640	1.1701	.36985	.20941
#2	.16778	.09378	.01355	.07580	1.3230	.36875	.23806
#3	.16938	.09719	.01356	.07667	1.3520	.37338	.24243

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	Hf2322	Hf2641
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.02968	.08262	.27163	.07657	.09739	.01666	.00034
Stddev	.00010	.00034	.00197	.00021	.00761	.00008	.00007
%RSD	.33012	.40782	.72622	.27772	7.8103	.48174	21.308

#1	.02977	.08269	.27155	.07665	.08881	.01671	.00026
#2	.02958	.08225	.26970	.07633	.10006	.01657	.00041
#3	.02969	.08292	.27364	.07674	.10330	.01671	.00036


Elem	Hf2773	Hf3399	K_7664	Li6707	Mg2790	Mn2576	Mo2020
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.00016	-0.00045	.70861	.30396	.06760	2.1784	.14526
Stddev	.00007	.00022	.05605	.02276	.00518	.0667	.00025
%RSD	44.141	48.460	7.9094	7.4865	7.6660	3.0607	.17243

#1	.00008	-0.00042	.64451	.27801	.06166	2.1018	.14540
#2	.00019	-0.00067	.73292	.31337	.06993	2.2108	.14497
#3	.00021	-0.00024	.74839	.32051	.07120	2.2228	.14540

Elem	Na5895	Ni2316	P_2149	Pb2203	Rb7800	S_1807	S_1820
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2.7490	.04352	.00067	.03292	-0.02637	.00418	-0.00030
Stddev	.2155	.00005	.00007	.00010	.00163	.00001	.00003
%RSD	7.8387	.12210	10.205	.30039	6.1773	.22715	9.5538

#1	2.5027	.04346	.00074	.03296	-0.02491	.00417	-0.00030
#2	2.8414	.04357	.00068	.03299	-0.02608	.00419	-0.00028
#3	2.9029	.04352	.00060	.03280	-0.02813	.00418	-0.00034

Approved: July 31, 2012



Sample Name: S3 Acquired: 7/30/2012 9:19:10 Type: Cal
 Method: ICP-THERMO2_6010_200.7(v2005) Mode: IR Corr. Factor: 1.000000
 User: KHR Custom ID1: Custom ID2: Custom ID3:
 Comment:

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3372	Tl1908
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.02816	.00755	.04529	.10041	1.7478	.12550	.00899
Stddev	.00007	.00006	.00013	.00015	.1407	.01001	.00007
%RSD	.23950	.72899	.29009	.14459	8.0500	7.9801	.82193

#1	.02821	.00752	.04514	.10038	1.5866	.11398	.00906
#2	.02809	.00751	.04534	.10028	1.8111	.13034	.00901
#3	.02820	.00761	.04539	.10056	1.8458	.13217	.00891


Elem	V_2924	Zn2062	Zr3391
Units	Cts/S	Cts/S	Cts/S
Avg	.69897	.58369	-.00307
Stddev	.00314	.00057	.00010
%RSD	.44974	.09839	3.1884

#1	.69969	.58429	-.00304
#2	.69553	.58315	-.00299
#3	.70169	.58362	-.00318

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	30067.	16842.
Stddev	132.	531.
%RSD	.43817	3.1511

#1	30101.	17453.
#2	30178.	16573.
#3	29921.	16499.

Approved: July 31, 2012



Sample Name: S4 Acquired: 7/30/2012 9:22:16 Type: Cal
 Method: ICP-THERMO2_6010_200.7(v2005) Mode: IR Corr. Factor: 1.000000
 User: KHR Custom ID1: Custom ID2: Custom ID3:
 Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.34234	.17818	.02721	.15134	2.5274	.74596	.45933
Stddev	.00129	.01389	.00005	.00080	.2013	.00317	.03585
%RSD	.37750	7.7976	.20091	.53152	7.9661	.42440	7.8044

#1	.34131	.16234	.02727	.15054	2.2988	.74378	.41891
#2	.34192	.18392	.02716	.15134	2.6049	.74449	.47183
#3	.34379	.18829	.02720	.15215	2.6784	.74959	.48725

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	Hf2322	Hf2641
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.05885	.16340	.54186	.15164	.19211	.03293	.00085
Stddev	.00012	.00024	.00333	.00016	.01559	.00008	.00014
%RSD	.20549	.14939	.61482	.10601	8.1126	.22884	17.044

#1	.05886	.16334	.54111	.15156	.17450	.03285	.00071
#2	.05873	.16319	.53897	.15153	.19772	.03298	.00084
#3	.05897	.16367	.54551	.15182	.20411	.03297	.00100


Elem	Hf2773	Hf3399	K_7664	Li6707	Mg2790	Mn2576	Mo2020
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.00011	.00008	1.3878	.59401	.13329	4.2492	.28923
Stddev	.00022	.00021	.1044	.04794	.01077	.1694	.00014
%RSD	204.23	252.61	7.5201	8.0710	8.0776	3.9870	.04684

#1	-.00005	.00021	1.2702	.53951	.12112	4.0752	.28923
#2	.00001	-.00016	1.4237	.61285	.13719	4.2588	.28909
#3	.00037	.00021	1.4695	.62968	.14157	4.4136	.28936

Elem	Na5895	Ni2316	P_2149	Pb2203	Rb7800	S_1807	S_1820
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5.3707	.08775	.00068	.06573	-.02548	.00889	-.00040
Stddev	.4206	.00022	.00004	.00021	.00091	.00000	.00002
%RSD	7.8312	.25235	6.0669	.32707	3.5724	.05328	4.2210

#1	4.8949	.08798	.00065	.06590	-.02446	.00888	-.00038
#2	5.5243	.08774	.00072	.06579	-.02580	.00888	-.00041
#3	5.6930	.08754	.00066	.06549	-.02620	.00889	-.00041

Approved: July 31, 2012



Sample Name: S4 Acquired: 7/30/2012 9:22:16 Type: Cal
 Method: ICP-THERMO2_6010_200.7(v2005) Mode: IR Corr. Factor: 1.000000
 User: KHR Custom ID1: Custom ID2: Custom ID3:
 Comment:

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3372	Tl1908
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.05604	.01532	.09062	.19956	3.4376	.24825	.01777
Stddev	.00002	.00001	.00031	.00026	.2649	.01920	.00005
%RSD	.04099	.08960	.34601	.13092	7.7062	7.7355	.29977

#1	.05604	.01531	.09053	.19972	3.1387	.22646	.01774
#2	.05602	.01533	.09097	.19970	3.5308	.25563	.01784
#3	.05607	.01532	.09036	.19926	3.6434	.26268	.01774


Elem	V_2924	Zn2062	Zr3391
Units	Cts/S	Cts/S	Cts/S
Avg	1.4069	1.1695	-.00293
Stddev	.0006	.0013	.00014
%RSD	.04606	.10736	4.7553

#1	1.4062	1.1708	-.00278
#2	1.4075	1.1694	-.00294
#3	1.4068	1.1682	-.00306

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	29816.	17101.
Stddev	36.	674.
%RSD	.12050	3.9421

#1	29857.	17806.
#2	29797.	17034.
#3	29793.	16462.

Approved: July 31, 2012



Sample Name: ICV Acquired: 7/30/2012 9:25:26 Type: QC
 Method: ICP-THERMO2_6010_200.7(v2005) Mode: CONC Corr. Factor: 1.000000
 User: KHR Custom ID1: Custom ID2: Custom ID3:
 Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.39833	10.123	.40231	.51098	1.0140	.05026	10.028
Stddev	.00435	.879	.00110	.00432	.0877	.00042	.821
%RSD	1.0917	8.6791	.27393	.84542	8.6481	.82974	8.1826

#1	.39953	9.1137	.40104	.51333	.91460	.05022	9.0997
#2	.39351	10.538	.40286	.50600	1.0470	.04987	10.326
#3	.40196	10.717	.40303	.51362	1.0804	.05070	10.658

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	Hf2322	Hf2641
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.05068	.20290	.50975	.51466	4.0767	1.0252	F 1.3833
Stddev	.00019	.00003	.00478	.00118	.3412	.0069	.6923
%RSD	.38335	.01402	.93806	.22874	8.3681	.67552	50.047

#1	.05059	.20292	.51064	.51331	3.6897	1.0225	.63043
#2	.05056	.20291	.50458	.51530	4.2067	1.0331	1.9925
#3	.05091	.20286	.51402	.51539	4.3338	1.0201	1.5270

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
Value							1.0000
Range							5.0000%

Elem	Hf2773	Hf3399	K_7664	Li6707	Mg2790	Mn2576	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F .29359	F .65171	50.280	1.0178	10.156	.51278	.98733
Stddev	.33054	.55758	4.134	.0944	.922	.01692	.00098
%RSD	112.59	85.557	8.2226	9.2771	9.0762	3.3000	.09904

#1	.35550	1.2955	45.580	.90968	9.1158	.49610	.98668
#2	-.06353	.33363	51.905	1.0597	10.479	.51232	.98685
#3	.58879	.32596	53.355	1.0840	10.872	.52993	.98845

Check ?	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	1.0000	1.0000					
Range	-5.0000%	-5.0000%					

Approved: July 31, 2012



Sample Name: ICV Acquired: 7/30/2012 9:25:26 Type: QC
 Method: ICP-THERMO2_6010_200.7(v2005) Mode: CONC Corr. Factor: 1.000000
 User: KHR Custom ID1: Custom ID2: Custom ID3:
 Comment:

Elem	Na5895	Ni2316	P_2149	Pb2203	Rb7800	S_1807	S_1820
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	50.429	.51481	F 23.785	.51262	F -.97440	10.237	F 8.2538
Stddev	4.284	.00222	13.625	.00247	2.9846	.015	.5651
%RSD	8.4947	.43137	57.284	.48111	306.30	.14567	6.8460

#1	45.572	.51258	9.3731	.51001	-3.3094	10.250	7.7182
#2	52.045	.51482	36.456	.51293	2.3883	10.239	8.8443
#3	53.669	.51702	25.527	.51491	-2.0020	10.221	8.1989

Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Fail	Chk Pass	Chk Fail
Value			10.000		10.000		10.000
Range			5.0000%		-5.0000%		-5.0000%

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3372	Tl1908
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.2439	.40679	4.9696	1.0338	1.0056	1.0179	.51653
Stddev	.0050	.00304	.0090	.0011	.0863	.0878	.00114
%RSD	.40483	.74839	.18138	.10590	8.5869	8.6216	.22167

#1	1.2420	.40357	4.9592	1.0339	.90868	.91740	.51558
#2	1.2400	.40962	4.9754	1.0326	1.0340	1.0567	.51621
#3	1.2496	.40717	4.9742	1.0348	1.0743	1.0795	.51780

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm
Avg	1.0066	1.0248	1.0370
Stddev	.0100	.0011	.0958
%RSD	.99039	.10794	9.2347

#1	1.0124	1.0236	1.1418
#2	.99505	1.0252	.95409
#3	1.0122	1.0257	1.0151

Check ?	Chk Pass	Chk Pass	Chk Pass
Value			
Range			

Approved: July 31, 2012



Sample Name: ICV Acquired: 7/30/2012 9:25:26 Type: QC
Method: ICP-THERMO2_6010_200.7(v2005) Mode: CONC Corr. Factor: 1.000000
User: KHR Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	30211.	17205.
Stddev	37.	596.
%RSD	.12171	3.4619
#1	30181.	17866.
#2	30252.	17039.
#3	30200.	16710.

Approved: July 31, 2012



Sample Name: ICB Acquired: 7/30/2012 9:28:30 Type: Blank
 Method: ICP-THERMO2_6010_200.7(v2005) Mode: CONC Corr. Factor: 1.000000
 User: KHR Custom ID1: Custom ID2: Custom ID3:
 Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.00098	-.06242	.00073	.00157	.00015	-.00001	.02700
Stddev	.00055	.01226	.00114	.00080	.00014	.00003	.02969
%RSD	56.356	19.644	155.19	51.304	96.463	281.95	109.98

#1	-.00119	-.06286	-.00006	.00241	.00027	.00001	.06124
#2	-.00035	-.04994	.00022	.00149	-.00001	-.00005	.01132
#3	-.00140	-.07445	.00203	.00081	.00018	.00001	.00843

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	Hf2322	Hf2641
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00015	.00037	-.00041	.00015	.00058	.00026	F .24494
Stddev	.00009	.00016	.00024	.00041	.00885	.00678	.93245
%RSD	58.552	43.516	57.920	277.57	1529.6	2595.3	380.69

#1	.00015	.00018	-.00030	.00062	.00088	-.00712	1.1604
#2	.00024	.00048	-.00025	-.00007	-.00842	.00622	.27808
#3	.00006	.00044	-.00068	-.00010	.00928	.00168	-.70364

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit							.10000
Low Limit							-.10000

Elem	Hf2773	Hf3399	K_7664	Li6707	Mg2790	Mn2576	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F .68375	F 1.2516	.50791	-.00036	-.00518	.00005	.00137
Stddev	.15427	1.2118	.08130	.00276	.03982	.00017	.00041
%RSD	22.562	96.819	16.008	767.08	768.40	341.23	29.573

#1	.64407	.09886	.59276	-.00119	.00571	-.00010	.00090
#2	.85398	1.1411	.50028	.00272	.02805	.00002	.00159
#3	.55320	2.5149	.43069	-.00261	-.04931	.00024	.00162

Check ?	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	.10000	.10000					
Low Limit	-.10000	-.10000					

Approved: July 31, 2012



Sample Name: ICB Acquired: 7/30/2012 9:28:30 Type: Blank
 Method: ICP-THERMO2_6010_200.7(v2005) Mode: CONC Corr. Factor: 1.000000
 User: KHR Custom ID1: Custom ID2: Custom ID3:
 Comment:

Elem	Na5895	Ni2316	P_2149	Pb2203	Rb7800	S_1807	S_1820
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.11318	.00181	F 18.589	.00121	F 3.5415	F -.04218	F 2.7787
Stddev	.04240	.00027	19.611	.00085	9.5731	.01778	2.8139
%RSD	37.463	15.051	105.50	70.435	270.31	42.149	101.27

#1	.15347	.00149	8.8850	.00193	-5.4869	-.02385	3.5192
#2	.06894	.00199	41.160	.00143	2.5322	-.04333	5.1482
#3	.11714	.00193	5.7223	.00027	13.579	-.05936	-.33143

Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Fail	Chk Fail	Chk Fail
High Limit			.01000		.01000	.01000	.01000
Low Limit			-.01000		-.01000	-.01000	-.01000

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3372	Tl1908
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00226	-.00223	.00402	.00048	.00065	.00001	.00181
Stddev	.00379	.00129	.00897	.00028	.00028	.00470	.00093
%RSD	167.44	57.986	223.42	57.951	43.116	69962.	51.365

#1	.00627	-.00260	.01240	.00041	.00097	.00519	.00286
#2	.00179	-.00079	-.00545	.00024	.00052	-.00397	.00109
#3	-.00127	-.00329	.00510	.00078	.00046	-.00120	.00148

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm
Avg	.00037	.00077	-.08913
Stddev	.00017	.00008	.44281
%RSD	47.131	9.7560	496.82

#1	.00017	.00069	.13962
#2	.00047	.00078	-.59953
#3	.00047	.00084	.19252

Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Approved: July 31, 2012



Sample Name: ICB Acquired: 7/30/2012 9:28:30 Type: Blank
Method: ICP-THERMO2_6010_200.7(v2005) Mode: CONC Corr. Factor: 1.000000
User: KHR Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	30295.	17080.
Stddev	171.	799.
%RSD	.56341	4.6783
#1	30200.	17994.
#2	30193.	16727.
#3	30492.	16518.

Approved: July 31, 2012



Sample Name: LLICV Acquired: 7/30/2012 9:31:39 Type: Unk
 Method: ICP-THERMO2_6010_200.7(v2005) Mode: CONC Corr. Factor: 1.000000
 User: KHR Custom ID1: Custom ID2: Custom ID3:
 Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00871	.23642	.00897	.01076	.02190	.00103	.22660
Stddev	.00073	.02557	.00097	.00038	.00214	.00003	.03352
%RSD	8.3363	10.817	10.820	3.5113	9.7810	2.9971	14.795

#1	.00850	.21054	.00817	.01073	.01958	.00100	.19067
#2	.00811	.23705	.00868	.01115	.02229	.00106	.23208
#3	.00952	.26167	.01005	.01040	.02381	.00105	.25704

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	Hf2322	Hf2641
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00112	.00471	.01107	.01077	.08670	.02429	.07018
Stddev	.00002	.00010	.00052	.00028	.00929	.00450	.27955
%RSD	1.6340	2.1334	4.7020	2.5912	10.717	18.518	398.35

#1	.00114	.00460	.01111	.01109	.07599	.01916	.23556
#2	.00110	.00474	.01157	.01061	.09266	.02616	.22755
#3	.00113	.00479	.01053	.01060	.09144	.02756	-.25258

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Hf2773	Hf3399	K_7664	Li6707	Mg2790	Mn2576	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.93887	1.3369	1.3481	.02533	.23022	.01147	.02221
Stddev	.68438	.3473	.0924	.00136	.01136	.00044	.00023
%RSD	72.894	25.977	6.8568	5.3762	4.9365	3.8171	1.0283

#1	1.1298	.97572	1.2414	.02488	.22048	.01115	.02199
#2	.17929	1.3665	1.3986	.02425	.22747	.01129	.02218
#3	1.5075	1.6684	1.4042	.02686	.24271	.01197	.02245

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: July 31, 2012



Sample Name: LLICV Acquired: 7/30/2012 9:31:39 Type: Unk
 Method: ICP-THERMO2_6010_200.7(v2005) Mode: CONC Corr. Factor: 1.000000
 User: KHR Custom ID1: Custom ID2: Custom ID3:
 Comment:

Elem	Na5895	Ni2316	P_2149	Pb2203	Rb7800	S_1807	S_1820
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.2080	.01175	4.8566	.01033	F -.60325	.16791	1.7576
Stddev	.0662	.00050	2.7280	.00063	9.4144	.02379	2.8511
%RSD	5.4826	4.2836	56.172	6.0763	1560.6	14.166	162.22

#1	1.1336	.01209	7.3141	.01053	-6.3827	.18338	2.3849
#2	1.2302	.01199	5.3344	.01083	-5.6872	.14052	4.2428
#3	1.2603	.01117	1.9212	.00962	10.260	.17982	-1.3550

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass
High Limit					9.0000		
Low Limit					-.00400		

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3372	Tl1908
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.02935	.00796	.10676	.02224	.02232	.02054	.01087
Stddev	.00202	.00112	.00431	.00038	.00168	.00073	.00140
%RSD	6.8973	14.136	4.0336	1.7051	7.5058	3.5766	12.849

#1	.02759	.00711	.10784	.02224	.02052	.02000	.01243
#2	.02890	.00753	.11042	.02262	.02259	.02024	.01045
#3	.03157	.00923	.10201	.02186	.02384	.02137	.00973


Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm
Avg	.02168	.02362	F -.18160
Stddev	.00093	.00012	.55324
%RSD	4.2786	.51579	304.65

#1	.02258	.02357	-.07746
#2	.02073	.02376	-.77952
#3	.02174	.02354	.31217

Check ?	Chk Pass	Chk Pass	Chk Fail
High Limit			45.000
Low Limit			-.00400

Approved: July 31, 2012



Sample Name: LLICV Acquired: 7/30/2012 9:31:39 Type: Unk
Method: ICP-THERMO2_6010_200.7(v2005) Mode: CONC Corr. Factor: 1.000000
User: KHR Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	30389.	16894.
Stddev	44.	674.
%RSD	.14455	3.9916
#1	30362.	17596.
#2	30365.	16833.
#3	30439.	16252.

Approved: July 31, 2012



Sample Name: ICSA Acquired: 7/30/2012 9:34:49 Type: QC
 Method: ICP-THERMO2_6010_200.7(v2005) Mode: CONC Corr. Factor: 1.000000
 User: KHR Custom ID1: Custom ID2: Custom ID3:
 Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-0.0029	249.18	.00079	.02429	.00036	.00003	229.70
Stddev	.00146	19.64	.00180	.00089	.00052	.00009	17.16
%RSD	500.92	7.8827	228.63	3.6433	145.10	288.38	7.4707

#1	.00128	226.98	.00091	.02409	.00012	.00013	210.30
#2	-.00159	256.25	.00253	.02352	.00095	-.00002	235.94
#3	-.00056	264.31	-.00107	.02526	.00000	-.00002	242.87

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	Hf2322	Hf2641
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00006	.00019	-.00015	-.00006	97.469	F .59437	F 15.999
Stddev	.00017	.00021	.00112	.00444	7.816	.00282	1.258
%RSD	298.88	108.75	735.66	7542.2	8.0192	.47402	7.8616

#1	.00023	.00042	.00105	.00495	88.600	.59472	14.644
#2	.00003	.00014	-.00035	-.00164	100.45	.59140	16.224
#3	-.00010	.00001	-.00115	-.00349	103.36	.59700	17.129

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Fail
High Limit						.10000	.10000
Low Limit						-.10000	-.10000

Elem	Hf2773	Hf3399	K_7664	Li6707	Mg2790	Mn2576	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F .59306	F -1.1373	.20252	.00815	245.27	-.00009	-.00085
Stddev	.80199	.8516	.07587	.00098	19.71	.00111	.00037
%RSD	135.23	74.882	37.464	12.034	8.0347	1306.4	43.054

#1	1.4260	-1.9970	.15701	.00867	222.81	.00118	-.00053
#2	-.17384	-1.1207	.16044	.00701	253.31	-.00051	-.00078
#3	.52699	-.29404	.29010	.00875	259.69	-.00092	-.00125

Check ?	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	.10000	.10000					
Low Limit	-.10000	-.10000					

Approved: July 31, 2012



Sample Name: ICSA Acquired: 7/30/2012 9:34:49 Type: QC
 Method: ICP-THERMO2_6010_200.7(v2005) Mode: CONC Corr. Factor: 1.000000
 User: KHR Custom ID1: Custom ID2: Custom ID3:
 Comment:

Elem	Na5895	Ni2316	P_2149	Pb2203	Rb7800	S_1807	S_1820
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F .10910	.00009	F 2.8043	.00005	F -1.2177	F 241.41	F 77.524
Stddev	.02004	.00141	36.682	.00795	6.4193	.57	2.901
%RSD	18.364	1516.4	1308.1	15503.	527.16	.23531	3.7419

#1	.08611	-.00016	-39.538	.00914	-8.5926	242.06	75.236
#2	.12286	.00162	24.940	-.00334	1.8245	241.07	76.550
#3	.11833	-.00117	23.011	-.00564	3.1149	241.09	80.787

Check ?	Chk Fail	Chk Pass	Chk Fail	Chk Pass	Chk Fail	Chk Fail	Chk Fail
High Limit	.10000		.50000		.04000	.04000	.04000
Low Limit	-.10000		-.50000		-.04000	-.04000	-.04000

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3372	Tl1908
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00045	.00645	.50461	-.00021	.00020	-.00756	.00332
Stddev	.00183	.00262	.00216	.00047	.00023	.00344	.00233
%RSD	408.70	40.560	.42815	227.60	114.02	45.513	70.234

#1	.00039	.00912	.50686	.00029	-.00006	-.00776	.00081
#2	-.00135	.00389	.50255	-.00027	.00036	-.01089	.00372
#3	.00230	.00634	.50442	-.00064	.00032	-.00402	.00541

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm
Avg	.00267	.00232	F -5.9299
Stddev	.00127	.00011	.4135
%RSD	47.491	4.6536	6.9736

#1	.00413	.00240	-5.5069
#2	.00202	.00235	-6.3332
#3	.00186	.00220	-5.9495

Check ?	Chk Pass	Chk Pass	Chk Fail
High Limit			.10000
Low Limit			-.10000

Approved: July 31, 2012



Sample Name: ICSA Acquired: 7/30/2012 9:34:49 Type: QC
Method: ICP-THERMO2_6010_200.7(v2005) Mode: CONC Corr. Factor: 1.000000
User: KHR Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	29433.	17040.
Stddev	145.	631.
%RSD	.49096	3.7040
#1	29311.	17765.
#2	29593.	16750.
#3	29397.	16607.

Approved: July 31, 2012



Sample Name: ICSAB Acquired: 7/30/2012 9:37:53 Type: QC
 Method: ICP-THERMO2_6010_200.7(v2005) Mode: CONC Corr. Factor: 1.000000
 User: KHR Custom ID1: Custom ID2: Custom ID3:
 Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.50891	248.82	.25089	-.04412	.25499	.25504	229.62
Stddev	.00091	20.07	.00145	.00115	.02232	.00082	17.81
%RSD	.17864	8.0666	.57765	2.6018	8.7521	.32104	7.7582

#1	.50788	225.93	.24967	-.04543	.22961	.25526	209.37
#2	.50960	257.14	.25249	-.04361	.26385	.25413	236.61
#3	.50925	263.40	.25050	-.04331	.27152	.25572	242.87

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	Hf2322	Hf2641
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.49137	.24451	.24871	.25078	97.650	F .57178	F 15.797
Stddev	.00047	.00030	.00035	.00397	8.165	.00565	1.038
%RSD	.09559	.12374	.14273	1.5842	8.3612	.98803	6.5726

#1	.49116	.24426	.24839	.25533	88.353	.57563	15.061
#2	.49105	.24485	.24864	.24902	100.94	.56530	15.345
#3	.49191	.24442	.24909	.24800	103.65	.57442	16.984

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Fail
High Limit						.10000	.10000
Low Limit						-.10000	-.10000

Elem	Hf2773	Hf3399	K_7664	Li6707	Mg2790	Mn2576	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F 1.6395	F -.49406	5.4412	.01001	245.63	.23985	-.00029
Stddev	.2286	.46026	.4248	.00237	20.71	.00869	.00036
%RSD	13.940	93.159	7.8062	23.726	8.4315	3.6221	123.24

#1	1.7176	-.66430	4.9559	.00812	222.08	.23038	-.00060
#2	1.8188	.02707	5.6228	.00923	253.79	.24172	.00010
#3	1.3822	-.84495	5.7451	.01267	261.02	.24745	-.00038

Check ?	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	.10000	.10000					
Low Limit	-.10000	-.10000					

Approved: July 31, 2012



Sample Name: ICSAB Acquired: 7/30/2012 9:37:53 Type: QC
 Method: ICP-THERMO2_6010_200.7(v2005) Mode: CONC Corr. Factor: 1.000000
 User: KHR Custom ID1: Custom ID2: Custom ID3:
 Comment:

Elem	Na5895	Ni2316	P_2149	Pb2203	Rb7800	S_1807	S_1820
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	5.4882	.49549	F -45.799	.49007	F -8.0997	F 240.87	F 73.774
Stddev	.4274	.00120	41.611	.00855	6.4101	.79	3.003
%RSD	7.7878	.24224	90.855	1.7448	79.140	.32721	4.0711

#1	5.0005	.49524	-76.314	.49947	-15.461	241.77	71.420
#2	5.6668	.49443	-62.684	.48800	-3.7490	240.31	77.156
#3	5.7974	.49679	1.6003	.48275	-5.0892	240.53	72.746

Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Fail	Chk Fail	Chk Fail
High Limit			.50000		.60000	.60000	.60000
Low Limit			-.50000		.40000	.40000	.40000

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3372	Tl1908
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.50583	.25764	-.00180	-.00008	-.00026	-.00326	.46718
Stddev	.00355	.00263	.00079	.00019	.00027	.00084	.00281
%RSD	.70247	1.0194	43.809	235.03	105.09	25.822	.60052

#1	.50979	.25924	-.00259	.00005	-.00046	-.00398	.46405
#2	.50292	.25461	-.00101	.00000	-.00037	-.00347	.46947
#3	.50478	.25908	-.00182	-.00031	.00005	-.00234	.46802

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm
Avg	.24768	.50175	F -6.6843
Stddev	.00062	.00039	.5231
%RSD	.24847	.07788	7.8258

#1	.24719	.50143	-6.1254
#2	.24837	.50163	-7.1621
#3	.24749	.50218	-6.7654

Check ?	Chk Pass	Chk Pass	Chk Fail
High Limit			.10000
Low Limit			-.10000

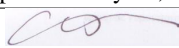
Approved: July 31, 2012



Sample Name: ICSAB Acquired: 7/30/2012 9:37:53 Type: QC
Method: ICP-THERMO2_6010_200.7(v2005) Mode: CONC Corr. Factor: 1.000000
User: KHR Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	29737.	17333.
Stddev	66.	650.
%RSD	.22031	3.7483
#1	29782.	18046.
#2	29766.	17178.
#3	29662.	16775.

Approved: July 31, 2012



Sample Name: CCV Acquired: 7/30/2012 9:41:01 Type: QC
 Method: ICP-THERMO2_6010_200.7(v2005) Mode: CONC Corr. Factor: 1.000000
 User: KHR Custom ID1: Custom ID2: Custom ID3:
 Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.40260	10.186	.40607	.50089	1.0046	.05036	10.161
Stddev	.00336	.723	.00169	.00260	.0881	.00036	.692
%RSD	.83528	7.1004	.41702	.51815	8.7642	.70653	6.8142

#1	.40640	9.3690	.40440	.50386	.90459	.05035	9.3770
#2	.40001	10.444	.40779	.49906	1.0388	.05001	10.420
#3	.40138	10.745	.40603	.49975	1.0704	.05073	10.688

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	Hf2322	Hf2641
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.05113	.20466	.50338	.51191	4.0705	1.0198	F 1.1070
Stddev	.00022	.00047	.00258	.00150	.2819	.0042	.3439
%RSD	.42633	.22853	.51239	.29275	6.9261	.40768	31.070

#1	.05092	.20423	.50565	.51244	3.7532	1.0159	.80940
#2	.05135	.20459	.50058	.51306	4.1665	1.0192	1.4836
#3	.05113	.20516	.50392	.51021	4.2920	1.0242	1.0281

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
Value							1.0000
Range							10.000%

Elem	Hf2773	Hf3399	K_7664	Li6707	Mg2790	Mn2576	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F .45206	F .02558	50.162	1.0075	10.192	.50361	1.0228
Stddev	.25456	1.3937	4.620	.0872	.680	.01939	.0008
%RSD	56.311	5447.9	9.2103	8.6547	6.6728	3.8504	.08175

#1	.73526	.76799	44.905	.90745	9.4221	.48183	1.0238
#2	.37863	-1.5822	52.004	1.0478	10.441	.51000	1.0226
#3	.24228	.89097	53.577	1.0673	10.712	.51900	1.0221

Check ?	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	1.0000	1.0000					
Range	-10.000%	-10.000%					

Approved: July 31, 2012



Sample Name: CCV Acquired: 7/30/2012 9:41:01 Type: QC
 Method: ICP-THERMO2_6010_200.7(v2005) Mode: CONC Corr. Factor: 1.000000
 User: KHR Custom ID1: Custom ID2: Custom ID3:
 Comment:

Elem	Na5895	Ni2316	P_2149	Pb2203	Rb7800	S_1807	S_1820
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	50.528	.51096	F 13.805	.51096	F 5.0449	10.245	F 13.010
Stddev	4.382	.00141	16.961	.00119	12.250	.123	2.746
%RSD	8.6733	.27650	122.86	.23337	242.81	1.1975	21.109

#1	45.545	.51202	-5.7793	.51226	-6.9676	10.239	10.531
#2	52.255	.51149	23.717	.50992	4.5834	10.125	15.962
#3	53.783	.50935	23.476	.51069	17.519	10.370	12.537

Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Fail	Chk Pass	Chk Fail
Value			10.000		10.000		10.000
Range			10.000%		-10.000%		10.000%

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3372	Ti1908
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.2212	.41003	4.9614	1.0182	1.0011	1.0176	.50976
Stddev	.0029	.00207	.0198	.0027	.0906	.0887	.00151
%RSD	.23677	.50383	.39823	.26248	9.0529	8.7139	.29587

#1	1.2203	.41239	4.9792	1.0207	.89797	.91629	.50981
#2	1.2188	.40914	4.9401	1.0154	1.0374	1.0552	.50823
#3	1.2244	.40856	4.9649	1.0184	1.0680	1.0812	.51125

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm
Avg	.99844	1.0166	.98901
Stddev	.00672	.0013	.38671
%RSD	.67280	.12454	39.101

#1	1.0036	1.0181	.61898
#2	.99084	1.0162	.95758
#3	1.0009	1.0157	1.3905

Check ?	Chk Pass	Chk Pass	Chk Pass
Value			
Range			

Approved: July 31, 2012



Sample Name: CCV Acquired: 7/30/2012 9:41:01 Type: QC
Method: ICP-THERMO2_6010_200.7(v2005) Mode: CONC Corr. Factor: 1.000000
User: KHR Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	31147.	17592.
Stddev	159.	692.
%RSD	.50985	3.9345
#1	30966.	18385.
#2	31264.	17288.
#3	31211.	17105.

Approved: July 31, 2012



Sample Name: CCB Acquired: 7/30/2012 9:44:05 Type: Blank
 Method: ICP-THERMO2_6010_200.7(v2004) Mode: CONC Corr. Factor: 1.000000
 User: KHR Custom ID1: Custom ID2: Custom ID3:
 Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-0.0058	-0.01028	-0.00094	.00103	.00035	.00000	.04307
Stddev	.00036	.02945	.00093	.00101	.00030	.00002	.02619
%RSD	61.432	286.44	98.784	97.908	84.197	391.79	60.804

#1	-0.0020	-0.00553	-0.00176	.00219	.00060	.00000	.06668
#2	-0.0090	-.04182	.00007	.00047	.00002	.00002	.04763
#3	-0.0064	.01651	-0.00113	.00043	.00044	-.00001	.01490

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	Hf2322	Hf2641
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00004	.00050	-0.00034	.00059	-0.00509	-0.00053	F .24173
Stddev	.00005	.00018	.00035	.00033	.00332	.00299	.64068
%RSD	115.86	35.098	104.01	56.377	65.201	561.45	265.05

#1	.00008	.00070	-0.00074	.00028	-0.00192	-0.00380	.70392
#2	-0.00001	.00045	-0.00009	.00054	-0.00480	.00207	-.48963
#3	.00006	.00036	-0.00019	.00095	-0.00854	.00013	.51089

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit							.10000
Low Limit							-.10000

Elem	Hf2773	Hf3399	K_7664	Li6707	Mg2790	Mn2576	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F 1.0802	F .65723	.28490	.00109	.01562	-0.00004	.00111
Stddev	.7993	.54463	.07487	.00332	.02039	.00013	.00007
%RSD	73.991	82.867	26.279	304.12	130.54	322.60	5.8519

#1	1.0579	.37364	.36422	.00492	.00638	-0.00012	.00111
#2	1.8904	1.2851	.27501	-0.00069	.03900	-0.00011	.00118
#3	.29235	.31292	.21547	-0.00095	.00149	.00011	.00105

Check ?	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	.10000	.10000					
Low Limit	-.10000	-.10000					

Approved: July 31, 2012



Sample Name: CCB Acquired: 7/30/2012 9:44:05 Type: Blank
 Method: ICP-THERMO2_6010_200.7(v2004) Mode: CONC Corr. Factor: 1.000000
 User: KHR Custom ID1: Custom ID2: Custom ID3:
 Comment:

Elem	Na5895	Ni2316	P_2149	Pb2203	Rb7800	S_1807	S_1820
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.11758	.00162	F 1.1736	.00001	F -7.2661	F -.09403	F .04991
Stddev	.02801	.00097	.7092	.00151	8.0135	.01961	.60941
%RSD	23.818	59.704	60.430	11617.	110.29	20.853	1221.1

#1	.14615	.00123	1.6507	-.00149	-13.588	-.07582	.62701
#2	.09017	.00091	1.5114	-.00001	-9.9568	-.11479	.11005
#3	.11642	.00273	.35863	.00153	1.7464	-.09148	-.58735

Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Fail	Chk Fail	Chk Fail
High Limit			.01000		.01000	.01000	.01000
Low Limit			-.01000		-.01000	-.01000	-.01000

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3372	Tl1908
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00009	.00115	-.00135	.00008	.00051	.00164	.00163
Stddev	.00193	.00348	.00299	.00026	.00093	.00129	.00124
%RSD	2086.4	303.99	221.52	316.93	182.66	78.440	76.027

#1	.00131	.00469	-.00132	.00033	.00152	.00102	.00307
#2	.00110	-.00226	-.00436	-.00020	.00032	.00078	.00096
#3	-.00213	.00101	.00163	.00012	-.00031	.00312	.00087

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm
Avg	-.00013	.00011	F .18852
Stddev	.00010	.00017	.30403
%RSD	80.658	164.00	161.27

#1	-.00001	.00003	.28699
#2	-.00018	-.00002	.43111
#3	-.00019	.00030	-.15254

Check ?	Chk Pass	Chk Pass	Chk Fail
High Limit			.10000
Low Limit			-.10000


Approved: July 31, 2012



Sample Name: CCB Acquired: 7/30/2012 9:44:05 Type: Blank
Method: ICP-THERMO2_6010_200.7(v2004) Mode: CONC Corr. Factor: 1.000000
User: KHR Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	31380.	17681.
Stddev	117.	733.
%RSD	.37222	4.1441
#1	31463.	18494.
#2	31430.	17478.
#3	31246.	17072.

Approved: July 31, 2012



Sample Name: L1207000101 Acquired: 7/30/2012 9:59:11 Type: Unk
 Method: ICP-THERMO2_6010_200.7(v2005) Mode: CONC Corr. Factor: 1.000000
 User: KHR Custom ID1: Custom ID2: Custom ID3:
 Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00309	.01247	.00406	.04780	.00179	.00053	.12602
Stddev	.00082	.02385	.00089	.00053	.00056	.00003	.02976
%RSD	26.575	191.19	21.794	1.1068	31.495	6.4716	23.614

#1	.00305	.01549	.00306	.04785	.00114	.00054	.15269
#2	.00229	-.01274	.00439	.04725	.00207	.00049	.09392
#3	.00393	.03467	.00474	.04830	.00216	.00055	.13144

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	Hf2322	Hf2641
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00023	.00307	.00246	.00341	.02037	.00386	.13644
Stddev	.00008	.00028	.00025	.00027	.00334	.00364	.39917
%RSD	35.428	9.2640	10.053	8.0623	16.421	94.239	292.57

#1	.00029	.00324	.00272	.00371	.01844	.00795	.24049
#2	.00026	.00274	.00224	.00318	.02423	.00263	-.30445
#3	.00014	.00324	.00241	.00333	.01843	.00100	.47328

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Hf2773	Hf3399	K_7664	Li6707	Mg2790	Mn2576	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.4088	.62970	.25030	.05921	.26185	.00499	.00549
Stddev	1.0165	.75812	.10753	.01005	.04328	.00019	.00012
%RSD	72.155	120.39	42.962	16.966	16.529	3.8047	2.2650

#1	1.1455	1.2738	.35989	.04779	.22356	.00482	.00552
#2	.54985	.82110	.14494	.06313	.25318	.00496	.00536
#3	2.5311	-.20577	.24607	.06670	.30881	.00520	.00561

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: July 31, 2012



Sample Name: L1207000101 Acquired: 7/30/2012 9:59:11 Type: Unk
 Method: ICP-THERMO2_6010_200.7(v2005) Mode: CONC Corr. Factor: 1.000000
 User: KHR Custom ID1: Custom ID2: Custom ID3:
 Comment:

Elem	Na5895	Ni2316	P_2149	Pb2203	Rb7800	S_1807	S_1820
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.32768	.00695	F 1557.4	.00563	F -17.185	.34423	F -28.098
Stddev	.01555	.00057	5.3	.00090	4.986	.07570	2.099
%RSD	4.7458	8.2404	.33750	15.931	29.015	21.992	7.4714

#1	.31029	.00684	1552.5	.00460	-22.915	.33697	-30.439
#2	.34025	.00644	1556.8	.00603	-13.831	.42330	-27.473
#3	.33251	.00757	1563.0	.00626	-14.809	.27242	-26.382

Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Fail	Chk Pass	Chk Fail
High Limit			900.00		9.0000		9.0000
Low Limit			-.00400		-.00400		-.00400

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3372	Tl1908
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.05298	.00820	.23321	.05120	.00487	.00582	.09981
Stddev	.00473	.00489	.00620	.00016	.00036	.00192	.00166
%RSD	8.9245	59.646	2.6575	.30420	7.4349	32.977	1.6588

#1	.05743	.01042	.23122	.05111	.00455	.00499	.09912
#2	.05350	.01159	.22826	.05138	.00481	.00801	.09861
#3	.04801	.00259	.24016	.05111	.00527	.00445	.10170

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm
Avg	.00531	.00864	F 50.547
Stddev	.00024	.00012	1.357
%RSD	4.4415	1.4273	2.6846

#1	.00540	.00868	52.099
#2	.00505	.00851	49.586
#3	.00549	.00875	49.955

Check ?	Chk Pass	Chk Pass	Chk Fail
High Limit			45.000
Low Limit			-.00400

Approved: July 31, 2012



Sample Name: L1207000101 Acquired: 7/30/2012 9:59:11 Type: Unk
Method: ICP-THERMO2_6010_200.7(v2005) Mode: CONC Corr. Factor: 1.000000
User: KHR Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	32067.	18095.
Stddev	160.	650.
%RSD	.50000	3.5902
#1	31905.	18845.
#2	32226.	17750.
#3	32071.	17691.

Approved: July 31, 2012



Sample Name: L1207000301 Acquired: 7/30/2012 10:02:20 Type: Unk
 Method: ICP-THERMO2_6010_200.7(v2005) Mode: CONC Corr. Factor: 1.000000
 User: KHR Custom ID1: Custom ID2: Custom ID3:
 Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00728	.08644	.00877	.09794	.00446	.00101	.23729
Stddev	.00047	.00642	.00039	.00105	.00072	.00003	.01740
%RSD	6.4571	7.4220	4.4103	1.0764	16.152	2.9310	7.3348

#1	.00779	.08348	.00883	.09874	.00365	.00100	.23556
#2	.00716	.09380	.00913	.09834	.00471	.00105	.22081
#3	.00688	.08204	.00836	.09675	.00502	.00100	.25549

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	Hf2322	Hf2641
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00058	.00553	.00515	.00516	.05349	.01312	.12811
Stddev	.00011	.00019	.00021	.00062	.00530	.00613	.55579
%RSD	19.648	3.4582	4.1059	11.985	9.8999	46.776	433.84

#1	.00048	.00567	.00524	.00572	.05328	.02018	.58065
#2	.00056	.00561	.00530	.00449	.05889	.01003	-.49225
#3	.00070	.00531	.00491	.00528	.04831	.00913	.29593

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Hf2773	Hf3399	K_7664	Li6707	Mg2790	Mn2576	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.01288	.99109	.52733	.11800	.51525	.00670	.01069
Stddev	.48590	.80214	.04145	.01116	.06275	.00036	.00043
%RSD	3771.6	80.935	7.8610	9.4601	12.178	5.3317	3.9872

#1	.28686	.15035	.51131	.10578	.44299	.00631	.01064
#2	-.54813	1.0749	.57440	.12057	.54686	.00679	.01028
#3	.29992	1.7481	.49627	.12766	.55592	.00700	.01113

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: July 31, 2012



Sample Name: L1207000301 Acquired: 7/30/2012 10:02:20 Type: Unk
 Method: ICP-THERMO2_6010_200.7(v2005) Mode: CONC Corr. Factor: 1.000000
 User: KHR Custom ID1: Custom ID2: Custom ID3:
 Comment:

Elem	Na5895	Ni2316	P_2149	Pb2203	Rb7800	S_1807	S_1820
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.55695	.01279	F 3130.6	.00505	F -14.251	.21462	F -1.2526
Stddev	.05584	.00047	15.8	.00056	14.257	.03565	2.0553
%RSD	10.027	3.6507	.50557	11.154	100.04	16.613	164.08

#1	.50044	.01227	3147.9	.00512	-28.862	.17345	-1.3837
#2	.61210	.01293	3116.8	.00559	-.3777	.23456	.86509
#3	.55831	.01317	3127.1	.00446	-13.512	.23584	-3.2393

Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Fail	Chk Pass	Chk Fail
High Limit			900.00		9.0000		9.0000
Low Limit			-.00400		-.00400		-.00400

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3372	Tl1908
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.10612	.01077	.47120	.10324	.01001	.00791	.20064
Stddev	.00161	.00060	.01046	.00032	.00113	.00277	.00188
%RSD	1.5133	5.5788	2.2200	.30861	11.268	35.043	.93547

#1	.10431	.01100	.46861	.10349	.00882	.00997	.20268
#2	.10665	.01123	.46228	.10334	.01013	.00900	.20022
#3	.10739	.01009	.48271	.10288	.01106	.00476	.19900

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm
Avg	.01088	.01247	F 114.80
Stddev	.00010	.00009	.81
%RSD	.90718	.75631	.70269

#1	.01097	.01241	115.55
#2	.01091	.01241	113.95
#3	.01078	.01257	114.91

Check ?	Chk Pass	Chk Pass	Chk Fail
High Limit			45.000
Low Limit			-.00400

Approved: July 31, 2012



Sample Name: L1207000301 Acquired: 7/30/2012 10:02:20 Type: Unk
Method: ICP-THERMO2_6010_200.7(v2005) Mode: CONC Corr. Factor: 1.000000
User: KHR Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	32157.	18081.
Stddev	198.	957.
%RSD	.61711	5.2951
#1	31985.	19187.
#2	32112.	17511.
#3	32374.	17546.

Approved: July 31, 2012



Sample Name: L1207054601 Acquired: 7/30/2012 10:05:27 Type: Unk
 Method: ICP-THERMO2_6010_200.7(v2005) Mode: CONC Corr. Factor: 1.000000
 User: KHR Custom ID1: 100 Custom ID2: Custom ID3:
 Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00092	.02790	-.00038	-.00073	.00375	-.00003	14.789
Stddev	.00072	.05119	.00148	.00157	.00026	.00001	1.100
%RSD	77.445	183.48	386.25	216.92	6.9555	49.323	7.4407

#1	.00174	-.00928	.00002	-.00253	.00360	-.00004	13.534
#2	.00040	.08629	.00085	.00005	.00405	-.00003	15.242
#3	.00063	.00669	-.00202	.00031	.00360	-.00001	15.590

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	Hf2322	Hf2641
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.00006	.00041	.00001	.00173	.04269	.01393	.32444
Stddev	.00013	.00014	.00035	.00032	.00676	.00329	.40818
%RSD	221.32	34.845	6496.6	18.753	15.828	23.647	125.81

#1	-.00020	.00025	.00023	.00210	.03690	.01028	.02405
#2	.00005	.00050	.00019	.00153	.04106	.01667	.78918
#3	-.00002	.00049	-.00040	.00155	.05011	.01483	.16009


Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Hf2773	Hf3399	K_7664	Li6707	Mg2790	Mn2576	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.61042	1.0534	.43333	.00237	.18023	.00487	.00036
Stddev	.30924	.5258	.00410	.00237	.02934	.00034	.00011
%RSD	50.660	49.909	.94558	100.17	16.278	7.0277	31.583

#1	.82829	.46228	.43317	.00059	.14642	.00450	.00048
#2	.25648	1.4687	.42931	.00145	.19537	.00517	.00035
#3	.74650	1.2293	.43750	.00506	.19891	.00495	.00025

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: July 31, 2012



Sample Name: L1207054601 Acquired: 7/30/2012 10:05:27 Type: Unk
 Method: ICP-THERMO2_6010_200.7(v2005) Mode: CONC Corr. Factor: 1.000000
 User: KHR Custom ID1: 100 Custom ID2: Custom ID3:
 Comment:

Elem	Na5895	Ni2316	P_2149	Pb2203	Rb7800	S_1807	S_1820
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.5697	.00123	524.61	.00037	F -7.6631	F 24.627	F -868.09
Stddev	.0956	.00052	11.83	.00042	9.7310	.126	2.99
%RSD	6.0919	42.153	2.2560	113.95	126.98	.51075	.34440

#1	1.4602	.00145	520.75	-.00011	-18.859	24.633	-870.54
#2	1.6118	.00161	515.18	.00069	-1.2357	24.498	-868.96
#3	1.6370	.00064	537.89	.00053	-2.8950	24.749	-864.76

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Fail	Chk Fail
High Limit					9.0000	9.0000	9.0000
Low Limit					-.00400	-.00400	-.00400

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3372	Tl1908
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.00103	.00297	.07202	-.00062	.01395	.00431	.00117
Stddev	.00087	.00065	.00363	.00030	.00127	.00123	.00133
%RSD	84.363	21.755	5.0389	48.217	9.0951	28.449	113.33

#1	-.00003	.00224	.07607	-.00063	.01248	.00530	.00220
#2	-.00157	.00348	.06906	-.00092	.01472	.00294	.00165
#3	-.00149	.00319	.07093	-.00032	.01464	.00471	-.00033

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm
Avg	.00009	.00557	.73639
Stddev	.00031	.00006	.18880
%RSD	340.48	1.0369	25.638

#1	.00027	.00552	.53002
#2	.00026	.00563	.77874
#3	-.00026	.00557	.90043

Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Approved: July 31, 2012



Sample Name: L1207054601 Acquired: 7/30/2012 10:05:27 Type: Unk
Method: ICP-THERMO2_6010_200.7(v2005) Mode: CONC Corr. Factor: 1.000000
User: KHR Custom ID1: 100 Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	32063.	17941.
Stddev	36.	785.
%RSD	.11279	4.3782
#1	32032.	18837.
#2	32103.	17611.
#3	32053.	17374.

Approved: July 31, 2012



Sample Name: L1207054604 Acquired: 7/30/2012 10:08:32 Type: Unk
 Method: ICP-THERMO2_6010_200.7(v2005) Mode: CONC Corr. Factor: 1.000000
 User: KHR Custom ID1: 100 Custom ID2: Custom ID3:
 Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00037	.39267	.00073	.00073	.02072	.00003	54.069
Stddev	.00034	.07302	.00168	.00078	.00112	.00003	3.460
%RSD	91.329	18.595	229.76	107.12	5.4079	91.181	6.3992

#1	.00067	.31126	-.00005	.00092	.01952	.00000	50.175
#2	.00000	.41440	.00265	-.00013	.02090	.00005	55.244
#3	.00046	.45236	-.00042	.00140	.02174	.00004	56.789

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	Hf2322	Hf2641
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00012	.00082	.00221	.00887	.43085	.05688	F -.19960
Stddev	.00009	.00024	.00019	.00008	.02786	.00332	.67511
%RSD	71.954	29.465	8.5150	.87279	6.4662	5.8347	338.23

#1	.00015	.00106	.00224	.00892	.39870	.05575	-.21752
#2	.00002	.00058	.00237	.00878	.44782	.06061	.48430
#3	.00019	.00080	.00200	.00891	.44603	.05427	-.86557

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit							45.000
Low Limit							-.10000

Elem	Hf2773	Hf3399	K_7664	Li6707	Mg2790	Mn2576	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.0578	.09937	.82629	-.00075	1.5182	.03641	.00041
Stddev	.1287	1.4248	.09349	.00331	.1139	.00131	.00018
%RSD	12.165	1433.8	11.314	442.25	7.5013	3.6093	43.472

#1	.91036	.07632	.71865	.00284	1.3869	.03494	.00040
#2	1.1474	1.5355	.87305	-.00140	1.5903	.03683	.00024
#3	1.1158	-1.3137	.88718	-.00368	1.5773	.03747	.00059

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: July 31, 2012



Sample Name: L1207054604 Acquired: 7/30/2012 10:08:32 Type: Unk
 Method: ICP-THERMO2_6010_200.7(v2005) Mode: CONC Corr. Factor: 1.000000
 User: KHR Custom ID1: 100 Custom ID2: Custom ID3:
 Comment:

Elem	Na5895	Ni2316	P_2149	Pb2203	Rb7800	S_1807	S_1820
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	3.9482	.00324	F 3036.3	.00176	F -15.891	F 72.723	F -1387.6
Stddev	.2304	.00032	3.1	.00169	8.034	.232	5.4
%RSD	5.8350	10.002	.10061	95.759	50.555	.31945	.39201

#1	3.6896	.00296	3038.5	-.00006	-24.886	72.835	-1381.7
#2	4.0235	.00360	3032.8	.00208	-9.4269	72.456	-1388.6
#3	4.1315	.00317	3037.7	.00327	-13.361	72.879	-1392.4

Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Fail	Chk Fail	Chk Fail
High Limit			900.00		9.0000	9.0000	9.0000
Low Limit			-.00400		-.00400	-.00400	-.00400

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3372	Tl1908
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00000	-.00038	.56941	-.00040	.05013	.00121	.00277
Stddev	.0010	.00216	.00252	.00023	.00383	.00296	.00015
%RSD	38675.	573.91	.44173	57.119	7.6320	244.95	5.3173

#1	-.00008	-.00259	.56751	-.00022	.04585	-.00216	.00262
#2	.00102	-.00027	.57226	-.00032	.05133	.00242	.00291
#3	-.00095	.00173	.56844	-.00065	.05321	.00337	.00278

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm
Avg	.00111	.02635	F -.07737
Stddev	.00022	.00008	.54866
%RSD	19.741	.29317	709.10

#1	.00122	.02634	-.70682
#2	.00086	.02628	.29965
#3	.00125	.02643	.17504

Check ?	Chk Pass	Chk Pass	Chk Fail
High Limit			45.000
Low Limit			-.00400

Approved: July 31, 2012



Sample Name: L1207054604 Acquired: 7/30/2012 10:08:32 Type: Unk
Method: ICP-THERMO2_6010_200.7(v2005) Mode: CONC Corr. Factor: 1.000000
User: KHR Custom ID1: 100 Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	31895.	18200.
Stddev	70.	669.
%RSD	.21888	3.6755
#1	31975.	18944.
#2	31863.	18009.
#3	31846.	17647.

Approved: July 31, 2012



Sample Name: L1207064901 Acquired: 7/30/2012 10:11:39 Type: Unk
 Method: ICP-THERMO2_6010_200.7(v2005) Mode: CONC Corr. Factor: 1.000000
 User: KHR Custom ID1: Custom ID2: Custom ID3:
 Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00201	.77674	.00234	.37413	.07021	.00006	87.097
Stddev	.00130	.07117	.00181	.00433	.00605	.00002	6.897
%RSD	64.820	9.1631	77.617	1.1564	8.6221	33.408	7.9191

#1	.00222	.70265	.00156	.37170	.06342	.00009	79.188
#2	.00318	.78299	.00104	.37156	.07214	.00006	90.245
#3	.00061	.84459	.00441	.37912	.07505	.00004	91.859

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	Hf2322	Hf2641
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00042	.00089	.00144	.00034	.82815	1.0414	3.6658
Stddev	.00021	.00011	.00019	.00058	.06693	.0042	.5250
%RSD	50.394	12.466	13.284	169.00	8.0821	.39817	14.322

#1	.00045	.00100	.00126	-.00019	.75131	1.0421	3.3005
#2	.00061	.00089	.00164	.00096	.85933	1.0369	3.4294
#3	.00019	.00078	.00140	.00026	.87380	1.0451	4.2675

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Hf2773	Hf3399	K_7664	Li6707	Mg2790	Mn2576	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.36819	1.1966	1.6323	.05695	29.146	.10125	.00225
Stddev	1.0476	.5786	.1557	.00228	2.482	.00548	.00015
%RSD	284.53	48.349	9.5361	4.0087	8.5149	5.4095	6.5967

#1	.93997	1.0672	1.4632	.05433	26.299	.09499	.00208
#2	-.84090	.69371	1.7696	.05802	30.287	.10361	.00233
#3	1.0055	1.8289	1.6640	.05850	30.852	.10515	.00234

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: July 31, 2012



Sample Name: L1207064901 Acquired: 7/30/2012 10:11:39 Type: Unk
 Method: ICP-THERMO2_6010_200.7(v2005) Mode: CONC Corr. Factor: 1.000000
 User: KHR Custom ID1: Custom ID2: Custom ID3:
 Comment:

Elem	Na5895	Ni2316	P_2149	Pb2203	Rb7800	S_1807	S_1820
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	95.271	.00388	271.40	.00322	F -22.175	F 431.07	F -33530.
Stddev	7.820	.00051	9.00	.00119	14.237	.49	39.
%RSD	8.2084	13.114	3.3151	36.862	64.203	.11387	.11708

#1	86.354	.00331	271.32	.00448	-29.072	430.77	-33562.
#2	98.498	.00430	262.44	.00212	-5.8028	430.80	-33486.
#3	100.96	.00401	280.44	.00306	-31.649	431.63	-33540.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Fail	Chk Fail
High Limit					9.0000	9.0000	9.0000
Low Limit					-0.00400	-0.00400	-0.00400

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3372	Tl1908
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00398	.00559	9.6409	.00008	1.0353	.02600	-.00064
Stddev	.00213	.00308	.0326	.00034	.0842	.00171	.00097
%RSD	53.573	55.006	.33862	457.12	8.1341	6.5591	150.53

#1	.00594	.00775	9.6052	-.00002	.93908	.02542	-.00175
#2	.00429	.00697	9.6485	-.00021	1.0711	.02466	.00003
#3	.00171	.00207	9.6692	.00046	1.0957	.02792	-.00021


Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm
Avg	.00610	.00404	3.4352
Stddev	.00062	.00007	.8819
%RSD	10.190	1.6416	25.673

#1	.00589	.00410	2.5087
#2	.00561	.00397	4.2644
#3	.00680	.00405	3.5324

Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Approved: July 31, 2012



Sample Name: L1207064901 Acquired: 7/30/2012 10:11:39 Type: Unk
Method: ICP-THERMO2_6010_200.7(v2005) Mode: CONC Corr. Factor: 1.000000
User: KHR Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	31174.	18122.
Stddev	54.	785.
%RSD	.17337	4.3302
#1	31135.	19027.
#2	31236.	17628.
#3	31150.	17711.

Approved: July 31, 2012



Sample Name: L1207064901PS Acquired: 7/30/2012 10:14:44 Type: Unk
 Method: ICP-THERMO2_6010_200.7(v2005) Mode: CONC Corr. Factor: 1.000000
 User: KHR Custom ID1: Custom ID2: Custom ID3:
 Comment: WG404484-01

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.21204	6.1057	.20876	1.3888	.58032	.02709	83.619
Stddev	.00288	.4893	.00064	.0080	.04114	.00014	5.755
%RSD	1.3581	8.0138	.30685	.57748	7.0883	.51587	6.8828

#1	.21093	5.5462	.20807	1.3858	.53378	.02693	77.063
#2	.20989	6.3175	.20889	1.3827	.59540	.02717	85.954
#3	.21531	6.4535	.20933	1.3979	.61180	.02718	87.840

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	Hf2322	Hf2641
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.02631	.10357	.26025	.25907	2.7955	1.4366	2.8172
Stddev	.00015	.00011	.00104	.00057	.1988	.0055	.2817
%RSD	.56569	.10414	.39830	.22064	7.1124	.38095	10.0000

#1	.02638	.10354	.25985	.25970	2.5693	1.4307	2.6024
#2	.02614	.10348	.25948	.25893	2.8743	1.4414	3.1361
#3	.02640	.10369	.26143	.25858	2.9427	1.4378	2.7130

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Hf2773	Hf3399	K_7664	Li6707	Mg2790	Mn2576	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.65166	.54016	27.200	.58299	31.305	.34833	.52392
Stddev	.40574	.61939	1.777	.04692	2.243	.01362	.00140
%RSD	62.263	114.67	6.5313	8.0488	7.1639	3.9089	.26678

#1	.54055	.32529	25.173	.52979	28.727	.33386	.52343
#2	1.1014	.05681	27.940	.60073	32.384	.35026	.52282
#3	.31305	1.2384	28.486	.61846	32.804	.36088	.52549

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: July 31, 2012



Sample Name: L1207064901PS Acquired: 7/30/2012 10:14:44 Type: Unk
 Method: ICP-THERMO2_6010_200.7(v2005) Mode: CONC Corr. Factor: 1.000000
 User: KHR Custom ID1: Custom ID2: Custom ID3:
 Comment: WG404484-01

Elem	Na5895	Ni2316	P_2149	Pb2203	Rb7800	S_1807	S_1820
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	110.93	.25744	207.28	.25628	F -8.5765	F 388.27	F -29992.
Stddev	7.66	.00091	6.70	.00301	7.0257	1.04	40.
%RSD	6.9063	.35270	3.2319	1.1750	81.919	.26847	.13201

#1	102.24	.25810	214.98	.25976	-16.321	389.38	-30027.
#2	113.86	.25782	204.07	.25458	-6.7973	388.14	-29949.
#3	116.70	.25641	202.79	.25451	-2.6113	387.31	-29999.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Fail	Chk Fail
High Limit					9.0000	9.0000	9.0000
Low Limit					-.00400	-.00400	-.00400

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3372	Tl1908
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.61286	.21318	11.351	.00213	1.4392	.57959	.25180
Stddev	.00173	.00075	.065	.00060	.0985	.05259	.00211
%RSD	.28258	.35011	.57291	28.299	6.8441	9.0731	.83658

#1	.61486	.21309	11.417	.00160	1.3271	.51983	.25368
#2	.61200	.21248	11.347	.00279	1.4783	.61879	.24952
#3	.61174	.21396	11.287	.00201	1.5121	.60016	.25220

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm
Avg	.53035	.52258	6.6358
Stddev	.00158	.00020	.4123
%RSD	.29768	.03815	6.2134

#1	.53057	.52247	6.1900
#2	.52867	.52281	7.0035
#3	.53181	.52245	6.7137

Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

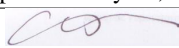
Approved: July 31, 2012



Sample Name: L1207064901PS Acquired: 7/30/2012 10:14:44 Type: Unk
Method: ICP-THERMO2_6010_200.7(v2005) Mode: CONC Corr. Factor: 1.000000
User: KHR Custom ID1: Custom ID2: Custom ID3:
Comment: WG404484-01

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	30949.	18038.
Stddev	220.	804.
%RSD	.71154	4.4599
#1	31196.	18952.
#2	30774.	17722.
#3	30877.	17439.

Approved: July 31, 2012



Sample Name: CCV Acquired: 7/30/2012 10:17:53 Type: QC
 Method: ICP-THERMO2_6010_200.7(v2005) Mode: CONC Corr. Factor: 1.000000
 User: KHR Custom ID1: Custom ID2: Custom ID3:
 Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.40594	10.209	.41223	.50927	1.0036	.05158	10.115
Stddev	.00382	.743	.00080	.00401	.0782	.00048	.729
%RSD	.94125	7.2826	.19515	.78781	7.7941	.93274	7.2080

#1	.40160	9.3556	.41179	.50469	.91444	.05103	9.2867
#2	.40877	10.555	.41173	.51215	1.0360	.05184	10.397
#3	.40747	10.717	.41315	.51097	1.0605	.05188	10.661

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	Hf2322	Hf2641
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.05144	.20589	.50759	.51596	3.9868	1.0282	F .51519
Stddev	.00011	.00037	.00444	.00044	.3026	.0019	.08705
%RSD	.20719	.18049	.87410	.08622	7.5894	.18701	16.896

#1	.05143	.20555	.50273	.51635	3.6424	1.0261	.42951
#2	.05134	.20582	.50862	.51607	4.1082	1.0290	.60354
#3	.05155	.20628	.51142	.51548	4.2099	1.0297	.51253

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
Value							1.0000
Range							-10.000%

Elem	Hf2773	Hf3399	K_7664	Li6707	Mg2790	Mn2576	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F .58879	F .69777	50.178	1.0300	9.9482	.51190	1.0290
Stddev	.87363	1.0794	3.829	.0857	.7697	.02115	.0004
%RSD	148.38	154.70	7.6298	8.3206	7.7372	4.1319	.04270

#1	1.5976	.37394	45.774	.93183	9.0633	.48799	1.0292
#2	.09023	1.9020	52.041	1.0681	10.319	.52817	1.0285
#3	.07860	-.18266	52.718	1.0900	10.463	.51954	1.0293

Check ?	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	1.0000	1.0000					
Range	-10.000%	-10.000%					

Approved: July 31, 2012



Sample Name: CCV Acquired: 7/30/2012 10:17:53 Type: QC
 Method: ICP-THERMO2_6010_200.7(v2005) Mode: CONC Corr. Factor: 1.000000
 User: KHR Custom ID1: Custom ID2: Custom ID3:
 Comment:

Elem	Na5895	Ni2316	P_2149	Pb2203	Rb7800	S_1807	S_1820
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	50.328	.50467	F 5.4110	.50657	F -10.256	10.296	F 13.378
Stddev	3.775	.00098	10.335	.00103	9.069	.067	3.430
%RSD	7.4997	.19480	191.00	.20280	88.425	.64990	25.640

#1	46.016	.50480	16.428	.50768	-19.609	10.254	17.299
#2	51.937	.50363	-4.0697	.50637	-1.5008	10.262	11.897
#3	53.032	.50558	3.8745	.50565	-9.6580	10.373	10.936

Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Fail	Chk Pass	Chk Fail
Value			10.000		10.000		10.000
Range			-10.000%		-10.000%		10.000%

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3372	Ti1908
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.2135	.41397	4.7709	1.0089	.99344	1.0362	.50594
Stddev	.0013	.00256	.0171	.0023	.07625	.0820	.00117
%RSD	.10929	.61870	.35953	.22628	7.6754	7.9103	.23122

#1	1.2148	.41688	4.7855	1.0113	.90630	.94245	.50631
#2	1.2136	.41293	4.7753	1.0068	1.0261	1.0720	.50689
#3	1.2121	.41209	4.7520	1.0084	1.0479	1.0942	.50464

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm
Avg	1.0292	1.0106	F 1.8438
Stddev	.0096	.0015	.5598
%RSD	.93072	.14468	30.362

#1	1.0191	1.0118	1.2993
#2	1.0381	1.0090	1.8142
#3	1.0306	1.0110	2.4178

Check ?	Chk Pass	Chk Pass	Chk Fail
Value			1.0000
Range			10.000%

Approved: July 31, 2012



Sample Name: CCV Acquired: 7/30/2012 10:17:53 Type: QC
Method: ICP-THERMO2_6010_200.7(v2005) Mode: CONC Corr. Factor: 1.000000
User: KHR Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	30986.	17678.
Stddev	92.	640.
%RSD	.29554	3.6227
#1	31066.	18404.
#2	30886.	17195.
#3	31006.	17434.

Approved: July 31, 2012



Sample Name: CCB Acquired: 7/30/2012 10:20:57 Type: Blank
 Method: ICP-THERMO2_6010_200.7(v2005) Mode: CONC Corr. Factor: 1.000000
 User: KHR Custom ID1: Custom ID2: Custom ID3:
 Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00037	.00345	.00054	.00078	.00019	.00000	.03457
Stddev	.00021	.02406	.00040	.00237	.00075	.00001	.01903
%RSD	56.923	697.62	75.117	304.33	388.08	751.70	55.035

#1	.00050	-.02432	.00098	-.00177	.00038	.00002	.05642
#2	.00013	.01666	.00018	.00119	-.00063	-.00001	.02167
#3	.00049	.01800	.00046	.00291	.00083	.00000	.02562

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	Hf2322	Hf2641
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00000	.00045	-.00037	-.00062	.00087	.00083	F .50076
Stddev	.0002	.00016	.00038	.00042	.01086	.00224	.75639
%RSD	4618.0	36.071	101.74	68.680	1241.9	269.37	151.05

#1	.00003	.00026	-.00033	-.00048	.00707	-.00002	.76027
#2	.00021	.00055	-.00002	-.00110	-.01167	.00337	-.35124
#3	-.00025	.00054	-.00077	-.00028	.00722	-.00086	1.0932

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit							.10000
Low Limit							-.10000

Elem	Hf2773	Hf3399	K_7664	Li6707	Mg2790	Mn2576	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F .55068	F .82712	.19837	.00630	-.00320	.00011	.00118
Stddev	.56806	.64714	.09336	.00188	.00201	.00005	.00033
%RSD	103.16	78.240	47.065	29.858	62.700	47.342	28.023

#1	.11080	1.4924	.25701	.00713	-.00424	.00005	.00086
#2	.34923	.78926	.24739	.00415	-.00089	.00015	.00115
#3	1.1920	.19975	.09071	.00762	-.00447	.00013	.00152

Check ?	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	.10000	.10000					
Low Limit	-.10000	-.10000					

Approved: July 31, 2012



Sample Name: CCB Acquired: 7/30/2012 10:20:57 Type: Blank
 Method: ICP-THERMO2_6010_200.7(v2005) Mode: CONC Corr. Factor: 1.000000
 User: KHR Custom ID1: Custom ID2: Custom ID3:
 Comment:

Elem	Na5895	Ni2316	P_2149	Pb2203	Rb7800	S_1807	S_1820
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.16545	.00196	F -2.8840	.00032	F -13.813	F -.01861	F 1.2649
Stddev	.05710	.00096	4.6418	.00109	20.267	.05275	1.7706
%RSD	34.514	48.972	160.95	341.47	146.73	283.51	139.98

#1	.23051	.00221	-7.4684	-.00073	-36.802	-.00563	.12193
#2	.14222	.00277	1.8132	.00144	1.4745	-.07664	.36821
#3	.12362	.00090	-2.9970	.00025	-6.1109	.02644	3.3044

Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Fail	Chk Fail	Chk Fail
High Limit			.01000		.01000	.01000	.01000
Low Limit			-.01000		-.01000	-.01000	-.01000

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3372	Tl1908
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00190	-.00240	.00030	.00000	.00017	.00160	.00110
Stddev	.00193	.00098	.00631	.0004	.00081	.00313	.00029
%RSD	101.82	40.969	2132.5	50890.	475.47	195.31	26.643

#1	.00217	-.00352	-.00657	.00047	.00110	.00370	.00138
#2	-.00016	-.00168	.00161	-.00028	-.00019	.00310	.00079
#3	.00368	-.00199	.00585	-.00020	-.00040	-.00199	.00113

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm
Avg	.00013	.00013	-.07018
Stddev	.00026	.00007	.47739
%RSD	193.60	54.422	680.20

#1	.00043	.00016	.46102
#2	-.00005	.00018	-.20823
#3	.00002	.00005	-.46334

Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Approved: July 31, 2012



Sample Name: CCB Acquired: 7/30/2012 10:20:57 Type: Blank
Method: ICP-THERMO2_6010_200.7(v2005) Mode: CONC Corr. Factor: 1.000000
User: KHR Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	31624.	17685.
Stddev	158.	854.
%RSD	.49814	4.8307
#1	31473.	18666.
#2	31612.	17281.
#3	31788.	17107.

Approved: July 31, 2012



Sample Name: PBW 92 Acquired: 7/30/2012 10:24:14 Type: Unk
 Method: ICP-THERMO2_6010_200.7(v2005) Mode: CONC Corr. Factor: 1.000000
 User: KHR Custom ID1: Custom ID2: Custom ID3:
 Comment: WG404367-02

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.00014	-.02688	-.00060	-.00109	-.00118	-.00001	.04229
Stddev	.00030	.02378	.00193	.00167	.00083	.00001	.02698
%RSD	214.99	88.483	322.20	153.70	70.050	103.01	63.789

#1	-.00027	-.04830	-.00277	-.00039	-.00205	.00000	.06388
#2	.00020	-.00129	.00093	.00012	-.00111	-.00002	.05093
#3	-.00035	-.03104	.00004	-.00300	-.00040	-.00002	.01205

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	Hf2322	Hf2641
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00003	.00027	-.00027	.00047	-.00197	.00360	.08762
Stddev	.00010	.00022	.00028	.00014	.01244	.00210	.59431
%RSD	331.94	82.763	102.45	29.494	633.09	58.355	678.30

#1	.00010	.00052	.00002	.00047	-.01600	.00119	-.14204
#2	-.00009	.00020	-.00054	.00062	.00238	.00454	.76249
#3	.00008	.00009	-.00029	.00034	.00772	.00507	-.35759

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Hf2773	Hf3399	K_7664	Li6707	Mg2790	Mn2576	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.56089	1.1521	.00402	.00382	-.02862	.00009	.00011
Stddev	.18339	.2003	.06741	.00112	.01149	.00007	.00035
%RSD	32.697	17.381	1675.9	29.271	40.153	70.439	326.37

#1	.61660	.92124	.06410	.00502	-.02557	.00005	-.00030
#2	.70997	1.2562	.01686	.00280	-.01896	.00006	.00034
#3	.35610	1.2789	-.06888	.00364	-.04133	.00017	.00028

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: July 31, 2012



Sample Name: PBW 92 Acquired: 7/30/2012 10:24:14 Type: Unk
 Method: ICP-THERMO2_6010_200.7(v2005) Mode: CONC Corr. Factor: 1.000000
 User: KHR Custom ID1: Custom ID2: Custom ID3:
 Comment: WG404367-02

Elem	Na5895	Ni2316	P_2149	Pb2203	Rb7800	S_1807	S_1820
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.10990	.00213	F -1.1163	.00071	F -14.220	.11903	F -11.380
Stddev	.01116	.00023	9.3306	.00114	3.027	.02671	3.564
%RSD	10.151	10.977	835.86	160.20	21.289	22.436	31.316

#1	.11647	.00218	-5.5118	-.00054	-17.376	.08863	-14.894
#2	.09702	.00233	-7.4372	.00100	-13.945	.13873	-7.7678
#3	.11621	.00188	9.6002	.00169	-11.340	.12972	-11.480

Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Fail	Chk Pass	Chk Fail
High Limit			900.00		9.0000		9.0000
Low Limit			-.00400		-.00400		-.00400

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3372	Tl1908
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00122	.00066	.00205	.00001	.00010	-.00004	.00198
Stddev	.00087	.00104	.00304	.00014	.00028	.00178	.00147
%RSD	71.623	156.13	148.14	1042.5	276.15	4123.0	74.289

#1	.00073	.00181	.00079	-.00010	.00021	.00054	.00310
#2	.00070	.00040	.00552	.00017	.00031	.00137	.00251
#3	.00223	-.00022	-.00015	-.00002	-.00022	-.00204	.00032

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm
Avg	.00004	.00184	.06289
Stddev	.00023	.00005	.08424
%RSD	651.67	2.7708	133.94

#1	-.00009	.00189	.15333
#2	-.00011	.00180	-.01333
#3	.00030	.00182	.04867

Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Approved: July 31, 2012



Sample Name: PBW 92 Acquired: 7/30/2012 10:24:14 Type: Unk
Method: ICP-THERMO2_6010_200.7(v2005) Mode: CONC Corr. Factor: 1.000000
User: KHR Custom ID1: Custom ID2: Custom ID3:
Comment: WG404367-02

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	32169.	18246.
Stddev	45.	785.
%RSD	.13876	4.3002
#1	32167.	19120.
#2	32126.	18014.
#3	32215.	17603.

Approved: July 31, 2012



Sample Name: LCSW 92 Acquired: 7/30/2012 10:27:22 Type: Unk
 Method: ICP-THERMO2_6010_200.7(v2005) Mode: CONC Corr. Factor: 1.000000
 User: KHR Custom ID1: Custom ID2: Custom ID3:
 Comment: WG404367-03

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.20581	5.0334	.20137	1.0027	.50610	.02569	5.0251
Stddev	.00131	.3664	.00089	.0089	.04044	.00021	.3815
%RSD	.63582	7.2796	.44059	.89218	7.9913	.81650	7.5914

#1	.20434	4.6173	.20073	.99286	.46030	.02545	4.6048
#2	.20686	5.1754	.20099	1.0049	.52105	.02577	5.1213
#3	.20623	5.3077	.20238	1.0103	.53693	.02585	5.3493

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	Hf2322	Hf2641
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.02546	.10258	.25373	.25569	1.9725	.50825	.46640
Stddev	.00012	.00034	.00182	.00081	.1611	.00197	.44250
%RSD	.48806	.32819	.71832	.31720	8.1684	.38834	94.876

#1	.02559	.10297	.25180	.25603	1.7875	.50905	.50517
#2	.02534	.10233	.25395	.25476	2.0481	.50600	.00579
#3	.02545	.10245	.25543	.25626	2.0819	.50970	.88824

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Hf2773	Hf3399	K_7664	Li6707	Mg2790	Mn2576	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.02258	1.0263	24.863	.52941	5.0354	.25196	.50840
Stddev	.68609	.8164	1.983	.03795	.4009	.01126	.00143
%RSD	3039.1	79.550	7.9762	7.1683	7.9617	4.4697	.28064

#1	.06839	.08818	22.618	.48623	4.5759	.23896	.50796
#2	.68461	1.5760	25.594	.54449	5.2171	.25811	.50724
#3	-.68527	1.4147	26.377	.55750	5.3133	.25881	.50999

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: July 31, 2012



Sample Name: LCSW 92 Acquired: 7/30/2012 10:27:22 Type: Unk
 Method: ICP-THERMO2_6010_200.7(v2005) Mode: CONC Corr. Factor: 1.000000
 User: KHR Custom ID1: Custom ID2: Custom ID3:
 Comment: WG404367-03

Elem	Na5895	Ni2316	P_2149	Pb2203	Rb7800	S_1807	S_1820
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	25.907	.25283	F -13.292	.25192	F -18.919	5.1721	.15892
Stddev	1.934	.00040	9.962	.00295	8.063	.0466	4.1884
%RSD	7.4634	.15988	74.947	1.1725	42.620	.90198	2635.5

#1	23.717	.25300	-17.339	.25502	-28.224	5.2251	-4.5808
#2	26.628	.25312	-1.9434	.25160	-14.547	5.1542	3.3620
#3	27.377	.25236	-20.594	.24914	-13.986	5.1371	1.6956

Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Fail	Chk Pass	Chk Pass
High Limit			900.00		9.0000		
Low Limit			-.00400		-.00400		

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3372	Tl1908
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.59845	.20705	2.3898	.51314	.49621	.51294	.25372
Stddev	.00394	.00317	.0231	.00065	.03880	.03600	.00131
%RSD	.65782	1.5318	.96475	.12682	7.8190	7.0189	.51671

#1	.60169	.20663	2.4086	.51384	.45247	.47221	.25522
#2	.59960	.20411	2.3967	.51302	.50965	.52612	.25313
#3	.59407	.21041	2.3641	.51255	.52649	.54051	.25281

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm
Avg	.50564	.51068	.75007
Stddev	.00257	.00099	.76231
%RSD	.50817	.19414	101.63

#1	.50282	.51179	1.2563
#2	.50624	.51034	-.12668
#3	.50786	.50990	1.1206

Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Approved: July 31, 2012



Sample Name: LCSW 92 Acquired: 7/30/2012 10:27:22 Type: Unk
Method: ICP-THERMO2_6010_200.7(v2005) Mode: CONC Corr. Factor: 1.000000
User: KHR Custom ID1: Custom ID2: Custom ID3:
Comment: WG404367-03

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	31722.	18088.
Stddev	155.	792.
%RSD	.48886	4.3798
#1	31873.	19000.
#2	31563.	17572.
#3	31729.	17692.

Approved: July 31, 2012



Sample Name: L1207072401 Acquired: 7/30/2012 10:30:27 Type: Unk
 Method: ICP-THERMO2_6010_200.7(v2005) Mode: CONC Corr. Factor: 1.000000
 User: KHR Custom ID1: Custom ID2: Custom ID3:
 Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00008	.32317	.00187	.03271	.13003	.00001	204.96
Stddev	.00149	.02543	.00240	.00125	.01016	.00002	13.63
%RSD	1799.9	7.8679	128.69	3.8273	7.8117	171.61	6.6510

#1	-0.0095	.30145	.00116	.03409	.11854	-0.0001	189.52
#2	.00179	.31692	-0.00010	.03165	.13373	.00003	209.99
#3	-0.0059	.35114	.00455	.03238	.13782	.00002	215.35

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	Hf2322	Hf2641
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-0.0030	.00178	-0.00018	-0.00210	40.955	1.7473	.95904
Stddev	.00004	.00019	.00029	.00161	2.958	.0014	.27902
%RSD	12.704	10.534	162.55	76.393	7.2213	.08078	29.094

#1	-0.0026	.00183	-0.00050	-0.00037	37.586	1.7489	.70125
#2	-0.0034	.00194	.00005	-0.00240	42.155	1.7466	.92057
#3	-0.0030	.00157	-0.00008	-0.00354	43.124	1.7463	1.2553


Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Hf2773	Hf3399	K_7664	Li6707	Mg2790	Mn2576	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.50430	.19632	3.8882	.01909	22.143	.52998	.00168
Stddev	.48360	.78203	.2693	.00366	1.721	.02482	.00013
%RSD	95.897	398.35	6.9272	19.160	7.7712	4.6831	7.7293

#1	-0.04942	.10503	3.5829	.01489	20.201	.50347	.00171
#2	.84376	1.0200	4.0921	.02077	22.750	.53378	.00154
#3	.71855	-0.53606	3.9896	.02160	23.478	.55267	.00179

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: July 31, 2012



Sample Name: L1207072401 Acquired: 7/30/2012 10:30:27 Type: Unk
 Method: ICP-THERMO2_6010_200.7(v2005) Mode: CONC Corr. Factor: 1.000000
 User: KHR Custom ID1: Custom ID2: Custom ID3:
 Comment:

Elem	Na5895	Ni2316	P_2149	Pb2203	Rb7800	S_1807	S_1820
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	62.300	.00746	F 2339.1	.00411	F -23.425	F 237.42	F -1854.0
Stddev	4.478	.00023	16.8	.00101	13.484	.14	2.5
%RSD	7.1882	3.1470	.71822	24.545	57.565	.05803	.13333

#1	57.203	.00740	2320.2	.00416	-36.890	237.53	-1856.9
#2	64.090	.00726	2352.3	.00307	-23.463	237.26	-1852.5
#3	65.606	.00772	2344.7	.00509	-9.9210	237.46	-1852.7

Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Fail	Chk Fail	Chk Fail
High Limit			900.00		9.0000	9.0000	9.0000
Low Limit			-.00400		-.00400	-.00400	-.00400

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3372	Tl1908
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00203	-.00062	17.830	-.00018	1.5020	-.00119	.00147
Stddev	.00200	.00258	.032	.00042	.1079	.00234	.00176
%RSD	98.619	413.95	.18085	228.09	7.1842	196.27	120.13

#1	.00080	.00109	17.853	.00030	1.3791	-.00080	.00060
#2	.00434	.00063	17.843	-.00047	1.5456	-.00370	.00350
#3	.00095	-.00359	17.793	-.00038	1.5813	.00093	.00031

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm
Avg	.00130	.02369	F -2.9812
Stddev	.00099	.00013	.2826
%RSD	75.883	.55572	9.4796

#1	.00236	.02384	-3.2536
#2	.00115	.02360	-2.6894
#3	.00040	.02364	-3.0007

Check ?	Chk Pass	Chk Pass	Chk Fail
High Limit			45.000
Low Limit			-.00400

Approved: July 31, 2012



Sample Name: L1207072401 Acquired: 7/30/2012 10:30:27 Type: Unk
Method: ICP-THERMO2_6010_200.7(v2005) Mode: CONC Corr. Factor: 1.000000
User: KHR Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	30730.	17745.
Stddev	119.	746.
%RSD	.38619	4.2040
#1	30867.	18568.
#2	30670.	17555.
#3	30654.	17113.

Approved: July 31, 2012



Sample Name: L1207072402 Acquired: 7/30/2012 10:33:30 Type: Unk
 Method: ICP-THERMO2_6010_200.7(v2005) Mode: CONC Corr. Factor: 1.000000
 User: KHR Custom ID1: Custom ID2: Custom ID3:
 Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00011	1.9210	.00179	.04275	.09579	.00017	21.570
Stddev	.00047	.0875	.00148	.00124	.00694	.00002	1.267
%RSD	431.04	4.5524	82.738	2.8982	7.2458	9.4313	5.8757

#1	-0.0035	1.8290	.00276	.04378	.08805	.00017	20.181
#2	.00008	1.9308	.00009	.04137	.09787	.00015	21.864
#3	.00059	2.0031	.00252	.04309	.10146	.00018	22.664

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	Hf2322	Hf2641
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00089	.00086	.00124	.00144	1.5930	.07413	F -.36234
Stddev	.00010	.00031	.00068	.00033	.0743	.00433	.58335
%RSD	11.617	36.386	55.234	23.121	4.6671	5.8376	160.99

#1	.00082	.00096	.00195	.00137	1.5140	.06921	.05810
#2	.00085	.00051	.00117	.00180	1.6033	.07737	-1.0283
#3	.00101	.00110	.00059	.00115	1.6616	.07580	-1.1680

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit							45.000
Low Limit							-1.1000

Elem	Hf2773	Hf3399	K_7664	Li6707	Mg2790	Mn2576	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.50413	.66853	1.6479	.00956	1.2182	.02670	.00118
Stddev	.74286	1.1426	.1321	.00225	.0457	.00088	.00012
%RSD	147.36	170.92	8.0155	23.568	3.7525	3.3006	9.8195

#1	-0.02155	1.7277	1.5043	.01080	1.1732	.02583	.00131
#2	.17995	.82027	1.6752	.01092	1.2168	.02668	.00110
#3	1.3540	-.54238	1.7642	.00696	1.2646	.02759	.00112

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: July 31, 2012



Sample Name: L1207072402 Acquired: 7/30/2012 10:33:30 Type: Unk
 Method: ICP-THERMO2_6010_200.7(v2005) Mode: CONC Corr. Factor: 1.000000
 User: KHR Custom ID1: Custom ID2: Custom ID3:
 Comment:

Elem	Na5895	Ni2316	P_2149	Pb2203	Rb7800	S_1807	S_1820
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	9.2963	.00326	535.21	.00268	F -9.8310	F 146.18	F -12209.
Stddev	.5732	.00103	6.98	.00214	7.9053	.95	21.
%RSD	6.1657	31.417	1.3040	79.791	80.412	.64734	.17557

#1	8.6557	.00319	539.54	.00021	-5.9250	145.20	-12206.
#2	9.4723	.00432	527.16	.00393	-4.6389	146.25	-12189.
#3	9.7608	.00228	538.92	.00390	-18.929	147.09	-12232.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Fail	Chk Fail
High Limit					9.0000	9.0000	9.0000
Low Limit					-.00400	-.00400	-.00400

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3372	Tl1908
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00012	.00332	4.9318	-.00032	.06201	.00752	.00164
Stddev	.00027	.00024	.0406	.00069	.00293	.00243	.00227
%RSD	224.27	7.2476	.82386	219.22	4.7237	32.353	138.88

#1	-.00008	.00356	4.8973	.00029	.05890	.00782	-.00098
#2	.00002	.00332	4.9216	-.00017	.06240	.00495	.00311
#3	.00043	.00308	4.9766	-.00107	.06472	.00978	.00278


Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm
Avg	.00434	.00814	.90767
Stddev	.00031	.00008	.53358
%RSD	7.0412	.95929	58.786

#1	.00452	.00807	1.0836
#2	.00399	.00813	.30833
#3	.00451	.00823	1.3310

Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

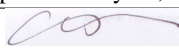
Approved: July 31, 2012



Sample Name: L1207072402 Acquired: 7/30/2012 10:33:30 Type: Unk
Method: ICP-THERMO2_6010_200.7(v2005) Mode: CONC Corr. Factor: 1.000000
User: KHR Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	32116.	17967.
Stddev	167.	585.
%RSD	.51853	3.2586
#1	32121.	18605.
#2	32281.	17842.
#3	31948.	17455.

Approved: July 31, 2012



Sample Name: L1207072403 Acquired: 7/30/2012 10:36:35 Type: Unk
 Method: ICP-THERMO2_6010_200.7(v2005) Mode: CONC Corr. Factor: 1.000000
 User: KHR Custom ID1: Custom ID2: Custom ID3:
 Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.00007	-.01396	-.00019	.01175	.03423	.00014	27.506
Stddev	.00070	.04705	.00167	.00179	.00315	.00001	1.955
%RSD	1075.6	336.96	862.53	15.241	9.2054	5.5473	7.1075

#1	.00027	-.03266	-.00210	.01305	.03062	.00014	25.271
#2	-.00087	-.04878	.00102	.01251	.03568	.00013	28.347
#3	.00041	.03956	.00050	.00971	.03640	.00014	28.900

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	Hf2322	Hf2641
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.00013	.00015	.00019	.00032	5.5022	.17505	-.06079
Stddev	.00016	.00014	.00094	.00026	.4201	.00511	.30911
%RSD	122.26	94.775	481.85	82.130	7.6344	2.9202	508.46

#1	.00004	.00021	-.00089	.00057	5.0251	.17245	-.38079
#2	-.00028	-.00001	.00071	.00005	5.6652	.18094	-.03774
#3	-.00015	.00026	.00076	.00034	5.8164	.17176	.23615

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Hf2773	Hf3399	K_7664	Li6707	Mg2790	Mn2576	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.71015	1.2069	1.1497	.01252	1.6788	.09132	.00000
Stddev	.79842	.9364	.0827	.00062	.1250	.00254	.0004
%RSD	112.43	77.584	7.1937	4.9851	7.4471	2.7827	31114.

#1	-.15112	.88088	1.0598	.01300	1.5399	.08858	-.00040
#2	.85594	2.2627	1.1669	.01275	1.7141	.09180	.00012
#3	1.4256	.47716	1.2225	.01181	1.7824	.09359	.00027

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: July 31, 2012



Sample Name: L1207072403 Acquired: 7/30/2012 10:36:35 Type: Unk
 Method: ICP-THERMO2_6010_200.7(v2005) Mode: CONC Corr. Factor: 1.000000
 User: KHR Custom ID1: Custom ID2: Custom ID3:
 Comment:

Elem	Na5895	Ni2316	P_2149	Pb2203	Rb7800	S_1807	S_1820
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	9.1986	.00138	F 2119.5	.00331	F -10.378	F 104.10	F -7416.0
Stddev	.6482	.00030	4.9	.00111	5.872	.48	12.6
%RSD	7.0463	21.415	.23143	33.484	56.583	.46138	.16925

#1	8.4623	.00104	2124.2	.00453	-8.6396	104.12	-7417.3
#2	9.4508	.00152	2114.4	.00236	-5.5715	104.57	-7427.8
#3	9.6828	.00158	2120.0	.00305	-16.923	103.61	-7402.8

Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Fail	Chk Fail	Chk Fail
High Limit			900.00		9.0000	9.0000	9.0000
Low Limit			-.00400		-.00400	-.00400	-.00400

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3372	Tl1908
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00173	.00161	12.923	-.00013	.14189	-.00007	.00176
Stddev	.00245	.00105	.050	.00026	.01031	.00214	.00159
%RSD	141.80	64.807	.38492	199.16	7.2651	3135.6	90.368

#1	-.00104	.00075	12.871	.00007	.13008	.00200	.00322
#2	.00261	.00131	12.969	-.00042	.14650	.00006	.00200
#3	.00360	.00278	12.930	-.00004	.14909	-.00227	.00006

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm
Avg	.00239	.00250	F -.01407
Stddev	.00046	.00009	.27292
%RSD	19.106	3.6350	1939.4

#1	.00205	.00260	-.12313
#2	.00291	.00243	.29651
#3	.00222	.00247	-.21560

Check ?	Chk Pass	Chk Pass	Chk Fail
High Limit			45.000
Low Limit			-.00400

Approved: July 31, 2012



Sample Name: L1207072403 Acquired: 7/30/2012 10:36:35 Type: Unk
Method: ICP-THERMO2_6010_200.7(v2005) Mode: CONC Corr. Factor: 1.000000
User: KHR Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	32134.	18264.
Stddev	108.	502.
%RSD	.33560	2.7460
#1	32050.	18834.
#2	32096.	18069.
#3	32255.	17890.

Approved: July 31, 2012



Sample Name: L1207072404 Acquired: 7/30/2012 10:39:40 Type: Unk
 Method: ICP-THERMO2_6010_200.7(v2005) Mode: CONC Corr. Factor: 1.000000
 User: KHR Custom ID1: Custom ID2: Custom ID3:
 Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00081	-.02590	-.00017	.01264	.03538	.00013	26.558
Stddev	.00029	.02051	.00070	.00077	.00293	.00002	1.706
%RSD	36.103	79.171	407.90	6.0955	8.2682	11.918	6.4225

#1	.00064	-.04225	-.00098	.01182	.03203	.00013	24.669
#2	.00065	-.03256	.00025	.01335	.03668	.00015	27.021
#3	.00115	-.00289	.00021	.01275	.03744	.00012	27.985

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	Hf2322	Hf2641
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.00006	.00028	.00020	.00074	5.5743	.17769	.21331
Stddev	.00014	.00031	.00074	.00048	.3462	.00368	.38562
%RSD	246.81	109.76	376.60	65.270	6.2112	2.0723	180.78

#1	.00007	.00064	-.00023	.00126	5.1831	.17346	.55228
#2	-.00004	.00010	-.00023	.00030	5.6983	.18015	.29389
#3	-.00020	.00010	.00105	.00066	5.8415	.17948	-.20623

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Hf2773	Hf3399	K_7664	Li6707	Mg2790	Mn2576	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.39171	1.7168	1.1507	.00745	1.6510	.08859	.00012
Stddev	.46910	.9905	.1227	.00240	.1021	.00262	.00023
%RSD	119.76	57.698	10.666	32.139	6.1848	2.9623	181.94

#1	-.11577	1.4866	1.0956	.00921	1.5342	.08586	-.00010
#2	.80946	2.8021	1.0651	.00843	1.6953	.08883	.00012
#3	.48146	.86158	1.2913	.00472	1.7235	.09109	.00035

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: July 31, 2012



Sample Name: L1207072404 Acquired: 7/30/2012 10:39:40 Type: Unk
 Method: ICP-THERMO2_6010_200.7(v2005) Mode: CONC Corr. Factor: 1.000000
 User: KHR Custom ID1: Custom ID2: Custom ID3:
 Comment:

Elem	Na5895	Ni2316	P_2149	Pb2203	Rb7800	S_1807	S_1820
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	9.2403	.00126	F 2147.1	.00266	F -26.380	F 102.91	F -7452.9
Stddev	.5787	.00024	6.6	.00080	9.843	.51	13.2
%RSD	6.2625	19.405	.30731	29.992	37.312	.49811	.17751

#1	8.5924	.00098	2143.4	.00346	-33.539	102.45	-7438.1
#2	9.4226	.00143	2143.2	.00187	-15.156	102.82	-7463.7
#3	9.7058	.00136	2154.7	.00265	-30.447	103.46	-7456.9

Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Fail	Chk Fail	Chk Fail
High Limit			900.00		9.0000	9.0000	9.0000
Low Limit			-.00400		-.00400	-.00400	-.00400

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3372	Tl1908
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00315	-.00218	12.750	.00715	.13810	-.00321	.00123
Stddev	.00134	.00240	.125	.00017	.00951	.00269	.00085
%RSD	42.476	109.91	.98420	2.3818	6.8860	83.947	69.108

#1	.00187	.00050	12.710	.00697	.12745	-.00057	.00025
#2	.00453	-.00292	12.648	.00718	.14111	-.00310	.00179
#3	.00304	-.00412	12.890	.00730	.14574	-.00595	.00165

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm
Avg	.00250	.00233	F -.18646
Stddev	.00036	.00010	.19919
%RSD	14.397	4.4862	106.83

#1	.00245	.00226	-.16773
#2	.00288	.00227	.00270
#3	.00217	.00245	-.39435

Check ?	Chk Pass	Chk Pass	Chk Fail
High Limit			45.000
Low Limit			-.00400

Approved: July 31, 2012



Sample Name: L1207072404 Acquired: 7/30/2012 10:39:40 Type: Unk
Method: ICP-THERMO2_6010_200.7(v2005) Mode: CONC Corr. Factor: 1.000000
User: KHR Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	32297.	18390.
Stddev	74.	521.
%RSD	.22786	2.8355
#1	32374.	18965.
#2	32287.	18256.
#3	32228.	17948.

Approved: July 31, 2012



Sample Name: L1207071601 Acquired: 7/30/2012 10:42:45 Type: Unk
 Method: ICP-THERMO2_6010_200.7(v2005) Mode: CONC Corr. Factor: 1.000000
 User: KHR Custom ID1: Custom ID2: Custom ID3:
 Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00018	.02505	.00002	.02805	.07901	.00002	84.543
Stddev	.00055	.03100	.00191	.00079	.00641	.00002	5.721
%RSD	310.27	123.76	10084.	2.8315	8.1114	134.95	6.7675

#1	-0.0034	.00938	-.00189	.02828	.07183	.00002	78.000
#2	.00076	.00501	.00001	.02871	.08107	.00004	87.019
#3	.00012	.06075	.00193	.02717	.08414	-.00001	88.608

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	Hf2322	Hf2641
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00030	.00053	.00231	.00101	.28347	.64048	1.8370
Stddev	.00008	.00027	.00063	.00093	.02194	.00815	.3271
%RSD	26.275	50.126	27.146	92.653	7.7396	1.2731	17.805

#1	.00021	.00082	.00271	.00158	.25903	.64543	1.8025
#2	.00035	.00029	.00159	-.00007	.28992	.63107	2.1799
#3	.00035	.00048	.00264	.00152	.30146	.64494	1.5285

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Hf2773	Hf3399	K_7664	Li6707	Mg2790	Mn2576	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F -.18170	.48483	3.0029	.01838	15.865	.00134	.00133
Stddev	.29125	1.6956	.2103	.00381	1.186	.00004	.00020
%RSD	160.30	349.73	7.0034	20.701	7.4765	2.7797	14.865

#1	-5.1405	-4.9505	2.7606	.01688	14.500	.00132	.00140
#2	-.06005	2.4427	3.1381	.01555	16.453	.00139	.00111
#3	.02901	-4.9321	3.1099	.02271	16.642	.00132	.00148

Check ?	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	45.000						
Low Limit	-.10000						

Approved: July 31, 2012



Sample Name: L1207071601 Acquired: 7/30/2012 10:42:45 Type: Unk
 Method: ICP-THERMO2_6010_200.7(v2005) Mode: CONC Corr. Factor: 1.000000
 User: KHR Custom ID1: Custom ID2: Custom ID3:
 Comment:

Elem	Na5895	Ni2316	P_2149	Pb2203	Rb7800	S_1807	S_1820
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	34.424	.00282	72.785	.00338	F -20.273	F 836.15	F -73846.
Stddev	2.495	.00097	15.846	.00086	6.051	3.01	171.
%RSD	7.2470	34.548	21.771	25.497	29.849	.35958	.23132

#1	31.575	.00388	89.736	.00434	-27.197	836.81	-73861.
#2	35.477	.00262	58.344	.00266	-17.630	832.87	-73668.
#3	36.220	.00196	70.274	.00315	-15.993	838.77	-74009.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Fail	Chk Fail
High Limit					9.0000	9.0000	9.0000
Low Limit					-.00400	-.00400	-.00400

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3372	Tl1908
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00447	.00236	17.399	-.00041	.62826	-.00182	.00096
Stddev	.00330	.00091	.070	.00038	.04404	.00274	.00028
%RSD	73.794	38.628	.40406	94.609	7.0094	150.60	29.770

#1	.00088	.00207	17.449	-.00041	.57791	.00134	.00124
#2	.00518	.00339	17.318	-.00002	.64731	-.00325	.00068
#3	.00736	.00163	17.429	-.00079	.65957	-.00356	.00095

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm
Avg	.00403	.01399	.19988
Stddev	.00018	.00009	.24476
%RSD	4.5727	.67058	122.46

#1	.00401	.01404	.04701
#2	.00422	.01389	.48218
#3	.00386	.01406	.07044

Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

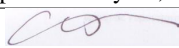
Approved: July 31, 2012



Sample Name: L1207071601 Acquired: 7/30/2012 10:42:45 Type: Unk
Method: ICP-THERMO2_6010_200.7(v2005) Mode: CONC Corr. Factor: 1.000000
User: KHR Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	31718.	18267.
Stddev	47.	669.
%RSD	.14946	3.6650
#1	31674.	19017.
#2	31768.	18053.
#3	31712.	17730.

Approved: July 31, 2012



Sample Name: L1207071601PS Acquired: 7/30/2012 10:45:51 Type: Unk
 Method: ICP-THERMO2_6010_200.7(v2005) Mode: CONC Corr. Factor: 1.000000
 User: KHR Custom ID1: Custom ID2: Custom ID3:
 Comment: WG404498-03

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.20883	5.1371	.20997	1.0642	.57765	.02670	80.492
Stddev	.00194	.5220	.00262	.0091	.05221	.00028	7.246
%RSD	.93018	10.161	1.2471	.85238	9.0375	1.0622	9.0019

#1	.20673	4.5358	.21066	1.0549	.51840	.02644	72.302
#2	.20921	5.4021	.21218	1.0645	.59765	.02667	83.106
#3	.21056	5.4734	.20708	1.0731	.61690	.02701	86.069

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	Hf2322	Hf2641
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.02632	.10328	.26024	.25925	2.2421	1.0757	1.8948
Stddev	.00010	.00033	.00187	.00098	.1996	.0050	.1173
%RSD	.36745	.31596	.71795	.37799	8.9029	.46051	6.1922

#1	.02625	.10314	.25825	.25829	2.0182	1.0781	2.0243
#2	.02643	.10366	.26052	.25921	2.3068	1.0791	1.8646
#3	.02629	.10305	.26196	.26025	2.4013	1.0701	1.7956

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Hf2773	Hf3399	K_7664	Li6707	Mg2790	Mn2576	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.66942	1.2888	27.960	.54208	19.053	.26153	.51859
Stddev	.44981	.7109	2.616	.04982	1.686	.01321	.00117
%RSD	67.194	55.161	9.3548	9.1897	8.8500	5.0518	.22584

#1	.26016	.48665	25.008	.48623	17.133	.24672	.51737
#2	1.1510	1.5387	28.881	.55807	19.733	.26574	.51870
#3	.59709	1.8409	29.990	.58193	20.293	.27212	.51970

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: July 31, 2012



Sample Name: L1207071601PS Acquired: 7/30/2012 10:45:51 Type: Unk
 Method: ICP-THERMO2_6010_200.7(v2005) Mode: CONC Corr. Factor: 1.000000
 User: KHR Custom ID1: Custom ID2: Custom ID3:
 Comment: WG404498-03

Elem	Na5895	Ni2316	P_2149	Pb2203	Rb7800	S_1807	S_1820
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	56.047	.25561	64.017	.25612	F -9.2781	F 751.85	F -66301.
Stddev	4.989	.00083	21.745	.00215	6.4227	3.19	75.
%RSD	8.9014	.32531	33.968	.84096	69.224	.42415	.11247

#1	50.387	.25545	85.172	.25597	-16.531	755.07	-66306.
#2	57.953	.25487	65.154	.25405	-4.3126	748.70	-66224.
#3	59.803	.25651	41.726	.25835	-6.9902	751.79	-66372.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Fail	Chk Fail
High Limit					9.0000	9.0000	9.0000
Low Limit					-0.0400	-0.0400	-0.0400

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3372	Tl1908
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.61364	.21151	17.982	.53950	1.0593	.51898	.25162
Stddev	.00514	.00108	.098	.00046	.0963	.04757	.00078
%RSD	.83785	.50987	.54262	.08521	9.0866	9.1651	.31154

#1	.61912	.21028	18.074	.53918	.95054	.46479	.25247
#2	.60892	.21228	17.880	.54003	1.0937	.53837	.25093
#3	.61287	.21197	17.992	.53930	1.1336	.55380	.25145


Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm
Avg	.52154	.53289	1.0248
Stddev	.00421	.00038	.5308
%RSD	.80680	.07068	51.795

#1	.51856	.53299	1.5709
#2	.51970	.53247	.99274
#3	.52635	.53321	.51074

Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			


Approved: July 31, 2012



Sample Name: L1207071601PS Acquired: 7/30/2012 10:45:51 Type: Unk
Method: ICP-THERMO2_6010_200.7(v2005) Mode: CONC Corr. Factor: 1.000000
User: KHR Custom ID1: Custom ID2: Custom ID3:
Comment: WG404498-03

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	31616.	18252.
Stddev	130.	910.
%RSD	.41189	4.9871
#1	31763.	19299.
#2	31517.	17813.
#3	31567.	17645.

Approved: July 31, 2012



Sample Name: L1207071601SDL Acquired: 7/30/2012 10:48:54 Type: Unk
 Method: ICP-THERMO2_6010_200.7(v2005) Mode: CONC Corr. Factor: 1.000000
 User: KHR Custom ID1: 5 Custom ID2: Custom ID3:
 Comment: WG404498-04

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.00047	.00091	-.00049	.00619	.01621	.00002	18.687
Stddev	.00043	.03190	.00056	.00110	.00107	.00003	1.547
%RSD	90.119	3503.5	113.86	17.806	6.5912	143.04	8.2761

#1	-.00045	-.03505	.00009	.00728	.01499	.00004	16.924
#2	-.00091	.01198	-.00102	.00621	.01664	-.00001	19.321
#3	-.00006	.02580	-.00054	.00508	.01699	.00003	19.816

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	Hf2322	Hf2641
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00017	.00030	-.00027	-.00102	.06214	.14332	.61655
Stddev	.00004	.00006	.00018	.00041	.01109	.00114	.87735
%RSD	22.402	21.772	67.118	40.824	17.848	.79823	142.30

#1	.00013	.00037	-.00047	-.00055	.05190	.14203	-.38735
#2	.00017	.00024	-.00020	-.00117	.06060	.14422	1.0007
#3	.00021	.00028	-.00013	-.00133	.07392	.14371	1.2363

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Hf2773	Hf3399	K_7664	Li6707	Mg2790	Mn2576	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.27960	2.5744	.85877	.00136	3.4952	.00036	.00087
Stddev	.32240	.3307	.07631	.00238	.2900	.00022	.00019
%RSD	115.31	12.844	8.8860	175.24	8.2982	61.811	22.345

#1	.64732	2.7052	.79553	.00408	3.1615	.00011	.00066
#2	.14602	2.8197	.94353	.00030	3.6369	.00045	.00104
#3	.04545	2.1984	.83725	-.00031	3.6871	.00052	.00091

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: July 31, 2012



Sample Name: L1207071601SDL Acquired: 7/30/2012 10:48:54 Type: Unk
 Method: ICP-THERMO2_6010_200.7(v2005) Mode: CONC Corr. Factor: 1.000000
 User: KHR Custom ID1: 5 Custom ID2: Custom ID3:
 Comment: WG404498-04

Elem	Na5895	Ni2316	P_2149	Pb2203	Rb7800	S_1807	S_1820
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	7.6582	.00211	16.986	.00228	F -7.9971	F 179.17	F -15891.
Stddev	.6059	.00047	6.988	.00130	3.9749	.56	59.
%RSD	7.9120	22.401	41.139	57.014	49.704	.31106	.37021

#1	6.9681	.00203	14.664	.00094	-7.1744	178.55	-15837.
#2	7.9035	.00168	24.839	.00353	-12.319	179.63	-15882.
#3	8.1030	.00262	11.455	.00237	-4.4979	179.34	-15953.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Fail	Chk Fail
High Limit					9.0000	9.0000	9.0000
Low Limit					-0.0400	-0.0400	-0.0400

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3372	Tl1908
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00331	-.00130	3.7296	.00005	.13732	-.00072	.00105
Stddev	.00326	.00133	.0188	.00032	.01135	.00454	.00120
%RSD	98.307	102.39	.50415	591.27	8.2651	630.39	114.38

#1	.00311	.00023	3.7080	.00043	.12435	.00276	-.00032
#2	.00016	-.00218	3.7425	-.00012	.14218	.00094	.00192
#3	.00667	-.00195	3.7384	-.00014	.14544	-.00585	.00155

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm
Avg	.00095	.00391	.29721
Stddev	.00019	.00013	.34870
%RSD	20.075	3.4265	117.32

#1	.00111	.00404	.63558
#2	.00099	.00392	-.06098
#3	.00074	.00377	.31704

Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Approved: July 31, 2012



Sample Name: L1207071601SDL Acquired: 7/30/2012 10:48:54 Type: Unk
Method: ICP-THERMO2_6010_200.7(v2005) Mode: CONC Corr. Factor: 1.000000
User: KHR Custom ID1: 5 Custom ID2: Custom ID3:
Comment: WG404498-04

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	31927.	18078.
Stddev	141.	922.
%RSD	.44211	5.0988
#1	31979.	19120.
#2	31767.	17743.
#3	32035.	17370.

Approved: July 31, 2012



Sample Name: CCV Acquired: 7/30/2012 10:52:04 Type: QC
 Method: ICP-THERMO2_6010_200.7(v2005) Mode: CONC Corr. Factor: 1.000000
 User: KHR Custom ID1: Custom ID2: Custom ID3:
 Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.40583	10.127	.41336	.50745	1.0022	.05194	10.095
Stddev	.00259	.932	.00117	.00289	.0887	.00039	.844
%RSD	.63877	9.2032	.28294	.56888	8.8526	.75361	8.3629

#1	.40299	9.0595	.41463	.50509	.90096	.05176	9.1332
#2	.40644	10.542	.41233	.50658	1.0391	.05166	10.442
#3	.40806	10.779	.41312	.51067	1.0664	.05238	10.712

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	Hf2322	Hf2641
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.05142	.20601	.50751	.51621	3.9770	1.0328	.92194
Stddev	.00019	.00054	.00187	.00091	.3462	.0025	.34898
%RSD	.36997	.26086	.36790	.17536	8.7054	.24089	37.852

#1	.05124	.20542	.50758	.51526	3.5890	1.0349	1.0619
#2	.05142	.20647	.50561	.51631	4.0874	1.0333	.52472
#3	.05162	.20615	.50934	.51706	4.2545	1.0300	1.1792

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Hf2773	Hf3399	K_7664	Li6707	Mg2790	Mn2576	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F .52598	F .87171	50.174	1.0274	9.8123	.51905	1.0290
Stddev	.85053	.71648	4.580	.0928	.8620	.02322	.0009
%RSD	161.70	82.193	9.1284	9.0326	8.7849	4.4736	.08989

#1	.83886	.10757	44.972	.92134	8.8226	.49360	1.0292
#2	1.1758	1.5284	51.946	1.0671	10.216	.52444	1.0280
#3	-.43667	.97918	53.602	1.0937	10.399	.53909	1.0298

Check ?	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	1.0000	1.0000					
Range	-10.000%	-10.000%					

Approved: July 31, 2012



Sample Name: CCV Acquired: 7/30/2012 10:52:04 Type: QC
 Method: ICP-THERMO2_6010_200.7(v2005) Mode: CONC Corr. Factor: 1.000000
 User: KHR Custom ID1: Custom ID2: Custom ID3:
 Comment:

Elem	Na5895	Ni2316	P_2149	Pb2203	Rb7800	S_1807	S_1820
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	50.090	.49927	F 15.160	.50505	F 4.5700	10.257	9.7048
Stddev	4.420	.00156	8.359	.00008	11.204	.051	1.7797
%RSD	8.8249	.31193	55.137	.01676	245.15	.49846	18.338

#1	45.060	.50058	9.0826	.50515	-4.8554	10.282	11.759
#2	51.850	.49969	24.693	.50500	1.6085	10.198	8.6367
#3	53.359	.49755	11.705	.50500	16.957	10.290	8.7184

Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Fail	Chk Pass	Chk Pass
Value			10.000		10.000		
Range			10.000%		-10.000%		

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3372	Ti1908
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.2059	.41671	4.6431	1.0046	.99155	1.0386	.49844
Stddev	.0012	.00257	.0223	.0016	.08848	.0954	.00151
%RSD	.09653	.61722	.48062	.15627	8.9237	9.1865	.30357

#1	1.2072	.41588	4.6542	1.0064	.89115	.93013	.49748
#2	1.2053	.41465	4.6174	1.0037	1.0253	1.0760	.50019
#3	1.2052	.41959	4.6575	1.0037	1.0582	1.1096	.49766


Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm
Avg	1.0366	1.0031	F 1.2326
Stddev	.0043	.0009	.0747
%RSD	.41334	.08791	6.0612

#1	1.0323	1.0024	1.1715
#2	1.0368	1.0028	1.3159
#3	1.0408	1.0041	1.2105

Check ?	Chk Pass	Chk Pass	Chk Fail
Value			1.0000
Range			10.000%

Approved: July 31, 2012



Sample Name: CCV Acquired: 7/30/2012 10:52:04 Type: QC
Method: ICP-THERMO2_6010_200.7(v2005) Mode: CONC Corr. Factor: 1.000000
User: KHR Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	31078.	17606.
Stddev	113.	762.
%RSD	.36280	4.3277
#1	31203.	18466.
#2	30985.	17337.
#3	31045.	17016.

Approved: July 31, 2012



Sample Name: CCB Acquired: 7/30/2012 10:55:08 Type: Blank
 Method: ICP-THERMO2_6010_200.7(v2005) Mode: CONC Corr. Factor: 1.000000
 User: KHR Custom ID1: Custom ID2: Custom ID3:
 Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.00018	-.04676	.00068	.00118	-.00017	.00000	.03525
Stddev	.00034	.03354	.00125	.00062	.00030	.0000	.03673
%RSD	191.01	71.731	182.29	52.852	181.47	318.93	104.22

#1	.00010	-.07597	.00006	.00165	-.00021	-.00002	.07751
#2	-.00008	-.05417	-.00013	.00047	.00015	.00000	.01105
#3	-.00055	-.01013	.00212	.00142	-.00044	.00001	.01717

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	Hf2322	Hf2641
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.00008	.00021	-.00050	.00027	-.00086	.00099	.08107
Stddev	.00006	.00016	.00042	.00025	.01344	.00490	.80764
%RSD	79.184	77.656	85.537	93.460	1568.5	494.91	996.21

#1	-.00001	.00025	-.00082	.00044	.01258	-.00431	-.69490
#2	-.00013	.00034	-.00002	.00039	-.00084	.00535	.02106
#3	-.00009	.00003	-.00065	-.00002	-.01431	.00193	.91705

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Hf2773	Hf3399	K_7664	Li6707	Mg2790	Mn2576	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F .81800	F .95918	.24158	-.00204	-.02283	.00009	.00136
Stddev	.22148	.31650	.06264	.00508	.01162	.00010	.00023
%RSD	27.075	32.997	25.931	248.96	50.896	105.21	16.710

#1	1.0735	1.3112	.16926	-.00083	-.00997	.00001	.00115
#2	.68115	.69805	.27662	.00232	-.03257	.00020	.00133
#3	.69933	.86832	.27887	-.00761	-.02595	.00008	.00160

Check ?	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	.10000	.10000					
Low Limit	-.10000	-.10000					

Approved: July 31, 2012



Sample Name: CCB Acquired: 7/30/2012 10:55:08 Type: Blank
 Method: ICP-THERMO2_6010_200.7(v2005) Mode: CONC Corr. Factor: 1.000000
 User: KHR Custom ID1: Custom ID2: Custom ID3:
 Comment:

Elem	Na5895	Ni2316	P_2149	Pb2203	Rb7800	S_1807	S_1820
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.11804	.00132	F 2.1498	.00093	F -3.1228	F -.10040	F 4.6703
Stddev	.05643	.00086	7.8006	.00070	13.013	.05956	1.3732
%RSD	47.805	64.831	362.84	75.322	416.72	59.322	29.403

#1	.18315	.00184	-4.0800	.00117	-15.245	-.16470	3.0848
#2	.08769	.00181	-.36908	.00014	-4.7518	-.08938	5.4792
#3	.08328	.00033	10.899	.00147	10.628	-.04712	5.4470

Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Fail	Chk Fail	Chk Fail
High Limit			.01000		.01000	.01000	.01000
Low Limit			-.01000		-.01000	-.01000	-.01000

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3372	Tl1908
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00550	-.00002	-.00849	.00031	.00053	.00232	.00069
Stddev	.00239	.00384	.00657	.00036	.00057	.00196	.00133
%RSD	43.466	17236.	77.394	115.41	109.26	84.486	192.54

#1	.00399	.00372	-.01487	-.00010	.00119	.00417	.00171
#2	.00826	-.00395	-.00887	.00056	.00023	.00027	-.00081
#3	.00426	.00016	-.00174	.00048	.00016	.00251	.00117

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm
Avg	.00021	.00025	-.04218
Stddev	.00026	.00011	.25504
%RSD	127.34	44.041	604.71

#1	.00011	.00023	.24167
#2	.00051	.00015	-.25206
#3	.00000	.00037	-.11614

Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

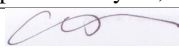
Approved: July 31, 2012



Sample Name: CCB Acquired: 7/30/2012 10:55:08 Type: Blank
Method: ICP-THERMO2_6010_200.7(v2005) Mode: CONC Corr. Factor: 1.000000
User: KHR Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	31101.	17344.
Stddev	96.	765.
%RSD	.30855	4.4132
#1	31192.	18216.
#2	31110.	17038.
#3	31001.	16780.

Approved: July 31, 2012



Sample Name: L1207072405 Acquired: 7/30/2012 10:58:24 Type: Unk
 Method: ICP-THERMO2_6010_200.7(v2005) Mode: CONC Corr. Factor: 1.000000
 User: KHR Custom ID1: Custom ID2: Custom ID3:
 Comment: WG404367-01

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00021	.02978	.00334	.01971	.04037	.00004	52.458
Stddev	.00062	.07346	.00116	.00173	.00396	.00001	5.139
%RSD	300.58	246.64	34.605	8.7793	9.8108	16.718	9.7967

#1	.00007	.05765	.00217	.01779	.03580	.00003	46.528
#2	.00089	.08523	.00449	.02016	.04261	.00003	55.239
#3	-.00033	-.05353	.00338	.02116	.04271	.00004	55.608

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	Hf2322	Hf2641
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00000	.00016	.00023	-.00069	2.2440	.26006	.69739
Stddev	.00003	.00017	.00022	.00045	.2285	.00315	.40924
%RSD	2645.6	106.42	95.710	64.770	10.183	1.2120	58.681

#1	-.00002	.00030	.00015	-.00032	1.9833	.26288	1.1668
#2	-.00002	.00020	.00048	-.00057	2.3393	.26064	.50967
#3	.00004	-.00003	.00006	-.00119	2.4095	.25665	.41569

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Hf2773	Hf3399	K_7664	Li6707	Mg2790	Mn2576	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.30444	.98250	1.2347	-.00053	2.7244	.08843	.00108
Stddev	.28672	.42442	.0806	.00360	.2960	.00509	.00027
%RSD	94.178	43.198	6.5311	681.35	10.865	5.7547	25.339

#1	-.02610	1.4711	1.1564	-.00308	2.3828	.08257	.00138
#2	.48594	.70526	1.3175	-.00210	2.8860	.09176	.00085
#3	.45347	.77114	1.2302	.00359	2.9044	.09095	.00101

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: July 31, 2012



Sample Name: L1207072405 Acquired: 7/30/2012 10:58:24 Type: Unk
 Method: ICP-THERMO2_6010_200.7(v2005) Mode: CONC Corr. Factor: 1.000000
 User: KHR Custom ID1: Custom ID2: Custom ID3:
 Comment: WG404367-01

Elem	Na5895	Ni2316	P_2149	Pb2203	Rb7800	S_1807	S_1820
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	9.3296	.00219	828.81	.00226	F -16.141	F 64.425	F -736.39
Stddev	.8867	.00023	15.08	.00124	6.563	.143	5.76
%RSD	9.5045	10.320	1.8193	54.989	40.661	.22246	.78215

#1	8.3116	.00199	812.69	.00115	-19.398	64.419	-740.51
#2	9.7436	.00215	831.16	.00203	-8.5864	64.571	-729.81
#3	9.9337	.00244	842.57	.00360	-20.439	64.284	-738.86

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Fail	Chk Fail
High Limit					9.0000	9.0000	9.0000
Low Limit					-0.0400	-0.0400	-0.0400

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3372	Tl1908
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00195	-.00183	7.1432	-.00021	.23483	-.00140	.00177
Stddev	.00328	.00201	.1044	.00038	.02335	.00223	.00095
%RSD	167.94	109.77	1.4621	185.25	9.9449	159.17	53.506

#1	.00374	.00021	7.0383	.00009	.20788	.00112	.00119
#2	-.00183	-.00380	7.2472	-.00007	.24756	-.00222	.00125
#3	.00395	-.00189	7.1440	-.00064	.24906	-.00311	.00286


Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm
Avg	.00046	.00259	.04523
Stddev	.00028	.00004	.45288
%RSD	59.656	1.3810	1001.2

#1	.00024	.00258	.17429
#2	.00077	.00263	-.45817
#3	.00037	.00255	.41958

Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

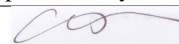
Approved: July 31, 2012



Sample Name: L1207072405 Acquired: 7/30/2012 10:58:24 Type: Unk
Method: ICP-THERMO2_6010_200.7(v2005) Mode: CONC Corr. Factor: 1.000000
User: KHR Custom ID1: Custom ID2: Custom ID3:
Comment: WG404367-01

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	31708.	18012.
Stddev	178.	972.
%RSD	.56023	5.3962
#1	31912.	19129.
#2	31591.	17352.
#3	31621.	17556.

Approved: July 31, 2012



Sample Name: L1207072406MS Acquired: 7/30/2012 11:01:28 Type: Unk
 Method: ICP-THERMO2_6010_200.7(v2005) Mode: CONC Corr. Factor: 1.000000
 User: KHR Custom ID1: Custom ID2: Custom ID3:
 Comment: WG404367-04

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.20060	5.0963	.19960	1.0053	.53554	.02584	59.317
Stddev	.00022	.3850	.00114	.0007	.03609	.00018	3.777
%RSD	.10934	7.5538	.57224	.06809	6.7396	.68973	6.3672

#1	.20052	4.6531	.20045	1.0057	.49443	.02564	54.993
#2	.20085	5.2887	.19830	1.0058	.55020	.02588	60.987
#3	.20043	5.3472	.20006	1.0045	.56200	.02599	61.972

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	Hf2322	Hf2641
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.02491	.10002	.24739	.24965	3.5133	.74547	1.0366
Stddev	.00011	.00011	.00064	.00033	.2473	.00519	.4155
%RSD	.44120	.10883	.25734	.13392	7.0381	.69559	40.079

#1	.02497	.10010	.24673	.24932	3.2298	.75145	1.2663
#2	.02478	.10006	.24743	.24966	3.6255	.74270	1.2865
#3	.02496	.09990	.24800	.24999	3.6845	.74226	.55700

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Hf2773	Hf3399	K_7664	Li6707	Mg2790	Mn2576	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.20045	1.1145	25.994	.52190	7.7299	.33662	.49945
Stddev	1.0627	.3083	1.811	.03724	.5198	.01342	.00102
%RSD	530.15	27.660	6.9683	7.1363	6.7244	3.9859	.20425

#1	1.4181	1.1072	23.925	.47945	7.1466	.32116	.49856
#2	-.27691	.80995	26.767	.53710	7.8989	.34530	.49924
#3	-.53984	1.4264	27.291	.54913	8.1441	.34339	.50056

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: July 31, 2012



Sample Name: L1207072406MS Acquired: 7/30/2012 11:01:28 Type: Unk
 Method: ICP-THERMO2_6010_200.7(v2005) Mode: CONC Corr. Factor: 1.000000
 User: KHR Custom ID1: Custom ID2: Custom ID3:
 Comment: WG404367-04

Elem	Na5895	Ni2316	P_2149	Pb2203	Rb7800	S_1807	S_1820
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	34.857	.24541	590.02	.24567	F -10.440	F 68.429	F -681.13
Stddev	2.274	.00037	5.18	.00120	18.139	.329	4.22
%RSD	6.5242	.14940	.87843	.48805	173.75	.48025	.61951

#1	32.261	.24561	595.38	.24666	-20.949	68.770	-685.61
#2	35.813	.24563	589.62	.24434	10.505	68.114	-677.23
#3	36.498	.24498	585.04	.24602	-20.876	68.403	-680.55

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Fail	Chk Fail
High Limit					9.0000	9.0000	9.0000
Low Limit					-.00400	-.00400	-.00400

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3372	Tl1908
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.58556	.20194	9.7208	.50279	.72792	.51655	.24464
Stddev	.00097	.00450	.0692	.00049	.04846	.03517	.00016
%RSD	.16532	2.2266	.71153	.09682	6.6572	6.8079	.06685

#1	.58598	.20015	9.7992	.50333	.67242	.47615	.24445
#2	.58445	.20705	9.6687	.50267	.74950	.53319	.24470
#3	.58624	.19861	9.6943	.50237	.76183	.54030	.24475

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm
Avg	.49985	.49924	.24543
Stddev	.00204	.00066	.45884
%RSD	.40765	.13134	186.95

#1	.49786	.49986	.45837
#2	.49976	.49930	-.28119
#3	.50193	.49855	.55911

Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Approved: July 31, 2012



Sample Name: L1207072406MS Acquired: 7/30/2012 11:01:28 Type: Unk
Method: ICP-THERMO2_6010_200.7(v2005) Mode: CONC Corr. Factor: 1.000000
User: KHR Custom ID1: Custom ID2: Custom ID3:
Comment: WG404367-04

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	31482.	17670.
Stddev	81.	650.
%RSD	.25637	3.6760
#1	31433.	18419.
#2	31575.	17260.
#3	31438.	17331.

Approved: July 31, 2012



Sample Name: L1207072407MSD Acquired: 7/30/2012 11:04:32 Type: Unk
 Method: ICP-THERMO2_6010_200.7(v2005) Mode: CONC Corr. Factor: 1.000000
 User: KHR Custom ID1: Custom ID2: Custom ID3:
 Comment: WG404367-05

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.20202	5.8531	.20031	1.0144	.53241	.02562	58.327
Stddev	.00070	.4408	.00179	.0051	.03628	.00020	3.917
%RSD	.34696	7.5311	.89270	.50461	6.8137	.76475	6.7147

#1	.20198	5.3483	.20017	1.0143	.49133	.02568	53.884
#2	.20134	6.0488	.19860	1.0093	.54583	.02540	59.816
#3	.20274	6.1622	.20217	1.0195	.56006	.02577	61.281

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	Hf2322	Hf2641
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.02486	.10000	.24844	.24874	4.1488	.74094	.84013
Stddev	.00011	.00017	.00286	.00022	.2817	.00441	.09492
%RSD	.42564	.17010	1.1524	.08818	6.7896	.59467	11.299

#1	.02481	.10009	.24862	.24879	3.8295	.74139	.73635
#2	.02498	.09980	.24549	.24894	4.2546	.74510	.92256
#3	.02479	.10010	.25121	.24851	4.3623	.73632	.86149

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Hf2773	Hf3399	K_7664	Li6707	Mg2790	Mn2576	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.0244	1.4550	25.862	.51502	7.6144	.33467	.49637
Stddev	.1605	.6702	1.891	.03667	.5081	.01501	.00061
%RSD	15.666	46.059	7.3101	7.1196	6.6734	4.4840	.12344

#1	1.0411	1.5474	23.716	.47320	7.0517	.31770	.49663
#2	.85615	2.0742	26.588	.53017	7.7518	.34011	.49567
#3	1.1758	.74343	27.282	.54168	8.0398	.34620	.49681

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: July 31, 2012



Sample Name: L1207072407MSD Acquired: 7/30/2012 11:04:32 Type: Unk
 Method: ICP-THERMO2_6010_200.7(v2005) Mode: CONC Corr. Factor: 1.000000
 User: KHR Custom ID1: Custom ID2: Custom ID3:
 Comment: WG404367-05

Elem	Na5895	Ni2316	P_2149	Pb2203	Rb7800	S_1807	S_1820
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	34.556	.24485	646.88	.24596	F -13.195	F 72.317	F -1170.8
Stddev	2.301	.00142	10.55	.00165	15.773	.331	2.5
%RSD	6.6573	.58070	1.6315	.66937	119.54	.45775	.21254

#1	31.947	.24645	653.73	.24765	-31.096	72.673	-1173.7
#2	35.428	.24433	634.73	.24436	-1.3353	72.258	-1169.2
#3	36.293	.24375	652.19	.24585	-7.1528	72.019	-1169.5

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Fail	Chk Fail
High Limit					9.0000	9.0000	9.0000
Low Limit					-.00400	-.00400	-.00400

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3372	Tl1908
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.57984	.19856	10.615	.50794	.71984	.51795	.24357
Stddev	.00144	.00255	.119	.00103	.04822	.03194	.00061
%RSD	.24900	1.2840	1.1206	.20351	6.6983	6.1658	.25169

#1	.58116	.19626	10.751	.50904	.66506	.48227	.24295
#2	.57830	.19812	10.569	.50779	.73857	.52774	.24360
#3	.58006	.20130	10.527	.50699	.75587	.54385	.24417

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm
Avg	.50083	.50935	1.1703
Stddev	.00185	.00100	.4583
%RSD	.36928	.19674	39.162

#1	.50162	.51031	1.5539
#2	.49872	.50943	1.2943
#3	.50215	.50831	.66277

Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

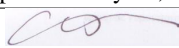
Approved: July 31, 2012



Sample Name: L1207072407MSD Acquired: 7/30/2012 11:04:32 Type: Unk
Method: ICP-THERMO2_6010_200.7(v2005) Mode: CONC Corr. Factor: 1.000000
User: KHR Custom ID1: Custom ID2: Custom ID3:
Comment: WG404367-05

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	31466.	17889.
Stddev	71.	845.
%RSD	.22534	4.7220
#1	31513.	18864.
#2	31385.	17443.
#3	31501.	17361.

Approved: July 31, 2012



Sample Name: L1207072408 Acquired: 7/30/2012 11:07:35 Type: Unk
 Method: ICP-THERMO2_6010_200.7(v2005) Mode: CONC Corr. Factor: 1.000000
 User: KHR Custom ID1: Custom ID2: Custom ID3:
 Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00011	.41125	.00045	.03355	.02480	.00001	60.191
Stddev	.00014	.03495	.00045	.00123	.00218	.00003	4.710
%RSD	131.27	8.4989	99.919	3.6716	8.7913	228.18	7.8249

#1	.00016	.44098	-.00006	.03463	.02271	.00004	54.872
#2	-.00005	.37275	.00064	.03381	.02463	.00000	61.868
#3	.00022	.42003	.00078	.03221	.02706	-.00001	63.832

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	Hf2322	Hf2641
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.00010	.00040	.00102	-.00001	2.8019	.38390	.19643
Stddev	.00015	.00021	.00023	.00049	.2065	.00217	.25173
%RSD	149.08	52.763	22.039	4977.6	7.3709	.56544	128.15

#1	-.00001	.00064	.00127	.00040	2.5659	.38594	-.09160
#2	-.00027	.00023	.00082	-.00056	2.8902	.38162	.37435
#3	-.00002	.00033	.00099	.00013	2.9497	.38415	.30653


Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Hf2773	Hf3399	K_7664	Li6707	Mg2790	Mn2576	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.63843	.70411	1.9014	.00046	5.3842	.08260	.00201
Stddev	.29129	.64535	.1911	.00410	.4161	.00289	.00007
%RSD	45.626	91.654	10.048	894.66	7.7289	3.5020	3.4415

#1	.30290	.12400	1.6852	.00044	4.9130	.07949	.00195
#2	.82654	1.3992	1.9714	.00456	5.5383	.08309	.00208
#3	.78585	.58910	2.0476	-.00363	5.7012	.08521	.00200

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: July 31, 2012



Sample Name: L1207072408 Acquired: 7/30/2012 11:07:35 Type: Unk
 Method: ICP-THERMO2_6010_200.7(v2005) Mode: CONC Corr. Factor: 1.000000
 User: KHR Custom ID1: Custom ID2: Custom ID3:
 Comment:

Elem	Na5895	Ni2316	P_2149	Pb2203	Rb7800	S_1807	S_1820
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	10.209	.00206	474.69	.00366	F -14.115	F 68.922	F -400.66
Stddev	.738	.00067	23.77	.00125	6.544	.199	3.85
%RSD	7.2333	32.582	5.0071	34.160	46.364	.28891	.96052

#1	9.3729	.00276	455.42	.00510	-20.089	69.041	-400.67
#2	10.481	.00199	467.40	.00290	-7.1205	68.692	-396.81
#3	10.772	.00143	501.25	.00297	-15.134	69.032	-404.50

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Fail	Chk Fail
High Limit					9.0000	9.0000	9.0000
Low Limit					-.00400	-.00400	-.00400

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3372	Tl1908
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00233	-.00171	8.9741	.00052	.35515	.00448	.00191
Stddev	.00201	.00179	.0674	.00034	.02853	.00205	.00061
%RSD	86.159	104.43	.75098	65.704	8.0343	45.674	32.157

#1	.00128	-.00367	8.9800	.00018	.32297	.00679	.00164
#2	.00464	-.00130	8.9039	.00086	.36513	.00288	.00261
#3	.00106	-.00016	9.0383	.00053	.37736	.00378	.00148

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm
Avg	.00118	.02319	.05186
Stddev	.00007	.00004	.57739
%RSD	6.2372	.18181	1113.4

#1	.00118	.02316	.44007
#2	.00125	.02316	.32717
#3	.00111	.02323	-.61166

Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

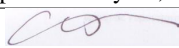
Approved: July 31, 2012



Sample Name: L1207072408 Acquired: 7/30/2012 11:07:35 Type: Unk
Method: ICP-THERMO2_6010_200.7(v2005) Mode: CONC Corr. Factor: 1.000000
User: KHR Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	31647.	17984.
Stddev	32.	624.
%RSD	.10006	3.4704
#1	31616.	18664.
#2	31679.	17851.
#3	31646.	17437.

Approved: July 31, 2012



Sample Name: CCV Acquired: 7/30/2012 11:10:46 Type: QC
 Method: ICP-THERMO2_6010_200.7(v2005) Mode: CONC Corr. Factor: 1.000000
 User: KHR Custom ID1: Custom ID2: Custom ID3:
 Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.40624	10.259	.41248	.50586	1.0135	.05156	10.173
Stddev	.00016	.720	.00185	.00182	.0732	.00029	.608
%RSD	.03840	7.0160	.44888	.36016	7.2201	.55768	5.9805

#1	.40642	9.4460	.41424	.50383	.93063	.05129	9.4790
#2	.40614	10.516	.41055	.50736	1.0407	.05186	10.428
#3	.40616	10.815	.41264	.50638	1.0692	.05153	10.613

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	Hf2322	Hf2641
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.05164	.20663	.50380	.51675	4.0155	1.0378	.93529
Stddev	.00014	.00031	.00103	.00095	.2791	.0006	.15239
%RSD	.27777	.15189	.20490	.18356	6.9511	.06049	16.294

#1	.05160	.20635	.50356	.51654	3.6988	1.0380	.76214
#2	.05151	.20657	.50493	.51592	4.1223	1.0371	1.0490
#3	.05179	.20697	.50290	.51778	4.2255	1.0383	.99474

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Hf2773	Hf3399	K_7664	Li6707	Mg2790	Mn2576	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F .55965	F .50303	50.609	1.0426	9.9689	.51925	1.0327
Stddev	.07540	1.4931	3.236	.0785	.7467	.01808	.0008
%RSD	13.473	296.82	6.3941	7.5308	7.4903	3.4810	.07245

#1	.53161	1.2267	46.924	.95455	9.1211	.49839	1.0330
#2	.64505	-1.2140	51.920	1.0680	10.257	.53015	1.0318
#3	.50228	1.4963	52.985	1.1053	10.529	.52922	1.0331

Check ?	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	1.0000	1.0000					
Range	-10.000%	-10.000%					

Approved: July 31, 2012



Sample Name: CCV Acquired: 7/30/2012 11:10:46 Type: QC
 Method: ICP-THERMO2_6010_200.7(v2005) Mode: CONC Corr. Factor: 1.000000
 User: KHR Custom ID1: Custom ID2: Custom ID3:
 Comment:

Elem	Na5895	Ni2316	P_2149	Pb2203	Rb7800	S_1807	S_1820
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	50.783	.50280	F -2.5093	.50520	F -7.4360	10.223	F 12.004
Stddev	3.497	.00103	16.084	.00242	7.6634	.088	1.281
%RSD	6.8859	.20413	640.95	.47919	103.06	.85884	10.670

#1	46.829	.50330	-2.1159	.50616	-15.643	10.214	10.743
#2	52.054	.50162	13.374	.50245	-.4663	10.140	11.965
#3	53.467	.50349	-18.786	.50699	-6.1992	10.315	13.304

Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Fail	Chk Pass	Chk Fail
Value			10.000		10.000		10.000
Range			-10.000%		-10.000%		10.000%

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3372	Tl1908
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.2096	.41667	4.6915	1.0079	.99901	1.0415	.50038
Stddev	.0027	.00121	.0346	.0007	.06731	.0691	.00169
%RSD	.22702	.28920	.73780	.07201	6.7377	6.6334	.33828

#1	1.2127	.41702	4.7269	1.0077	.92281	.96217	.49993
#2	1.2074	.41766	4.6578	1.0073	1.0238	1.0737	.49896
#3	1.2088	.41533	4.6898	1.0087	1.0504	1.0886	.50225

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm
Avg	1.0286	1.0068	F 1.1961
Stddev	.0018	.0017	.3840
%RSD	.17775	.17033	32.102

#1	1.0282	1.0072	.77460
#2	1.0305	1.0049	1.5259
#3	1.0269	1.0083	1.2879

Check ?	Chk Pass	Chk Pass	Chk Fail
Value			1.0000
Range			10.000%

Approved: July 31, 2012



Sample Name: CCV Acquired: 7/30/2012 11:10:46 Type: QC
Method: ICP-THERMO2_6010_200.7(v2005) Mode: CONC Corr. Factor: 1.000000
User: KHR Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	31103.	17492.
Stddev	37.	605.
%RSD	.11832	3.4581
#1	31080.	18191.
#2	31083.	17131.
#3	31145.	17155.

Approved: July 31, 2012



Sample Name: CCB Acquired: 7/30/2012 11:13:51 Type: Blank
 Method: ICP-THERMO2_6010_200.7(v2005) Mode: CONC Corr. Factor: 1.000000
 User: KHR Custom ID1: Custom ID2: Custom ID3:
 Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-0.0008	-0.00464	.00138	.00150	-0.00100	.00001	.03835
Stddev	.00046	.02403	.00213	.00136	.00052	.00003	.02656
%RSD	601.17	517.76	154.07	90.877	51.591	463.14	69.261

#1	.00020	-.03238	-.00060	.00197	-.00046	.00003	.06747
#2	-.00061	.01002	.00111	-.00004	-.00149	.00001	.03212
#3	.00018	.00843	.00364	.00256	-.00106	-.00002	.01545

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	Hf2322	Hf2641
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00004	.00013	-.00042	-.00058	-.00058	.00475	F .25382
Stddev	.00013	.00018	.00030	.00062	.00901	.00335	.22307
%RSD	314.91	139.33	72.297	107.33	1564.0	70.676	87.883

#1	-.00009	.00009	-.00070	-.00053	.00331	.00705	.29628
#2	.00005	-.00003	-.00010	-.00122	.00583	.00630	.01258
#3	.00017	.00033	-.00047	.00002	-.01087	.00090	.45261

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit							.10000
Low Limit							-.10000

Elem	Hf2773	Hf3399	K_7664	Li6707	Mg2790	Mn2576	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F 1.1651	F 1.8896	.24177	.00315	-.04233	.00010	.00134
Stddev	.5980	1.2060	.12586	.00729	.02547	.00010	.00035
%RSD	51.328	63.820	52.056	231.35	60.167	94.602	26.453

#1	.55550	2.0605	.34156	.00792	-.03160	.00000	.00135
#2	1.7509	3.0010	.28337	.00678	-.07141	.00010	.00097
#3	1.1890	.60735	.10038	-.00524	-.02398	.00019	.00168

Check ?	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	.10000	.10000					
Low Limit	-.10000	-.10000					

Approved: July 31, 2012



Sample Name: CCB Acquired: 7/30/2012 11:13:51 Type: Blank
 Method: ICP-THERMO2_6010_200.7(v2005) Mode: CONC Corr. Factor: 1.000000
 User: KHR Custom ID1: Custom ID2: Custom ID3:
 Comment:

Elem	Na5895	Ni2316	P_2149	Pb2203	Rb7800	S_1807	S_1820
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.12521	.00099	F 4.5334	.00050	F -12.143	F -.11552	F 3.7687
Stddev	.03720	.00049	5.2247	.00111	8.876	.05364	2.1320
%RSD	29.715	49.690	115.25	220.43	73.090	46.434	56.573

#1	.16805	.00152	-1.4600	-.00070	-17.813	-.15287	1.3295
#2	.10103	.00089	6.9320	.00072	-1.9147	-.05405	4.6993
#3	.10654	.00055	8.1281	.00149	-16.703	-.13963	5.2772

Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Fail	Chk Fail	Chk Fail
High Limit			.01000		.01000	.01000	.01000
Low Limit			-.01000		-.01000	-.01000	-.01000

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3372	Tl1908
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00153	-.00020	.00125	.00031	.00043	.00130	-.00105
Stddev	.00223	.00151	.00614	.00027	.00029	.00590	.00033
%RSD	145.96	770.05	492.57	86.769	68.997	453.65	31.768

#1	.00014	.00105	.00568	.00002	.00070	.00480	-.00141
#2	.00409	.00023	.00383	.00055	.00012	.00461	-.00076
#3	.00034	-.00187	-.00577	.00036	.00046	-.00551	-.00096

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm
Avg	.00020	.00024	.02119
Stddev	.00044	.00004	.64047
%RSD	217.18	17.715	3022.3

#1	.00054	.00025	.52126
#2	.00037	.00028	.24302
#3	-.00030	.00020	-.70070

Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Approved: July 31, 2012



Sample Name: CCB Acquired: 7/30/2012 11:13:51 Type: Blank
Method: ICP-THERMO2_6010_200.7(v2005) Mode: CONC Corr. Factor: 1.000000
User: KHR Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	31204.	17585.
Stddev	93.	656.
%RSD	.29661	3.7300
#1	31126.	18333.
#2	31306.	17315.
#3	31180.	17108.

Approved: July 31, 2012



Sample Name: LLCCV Acquired: 7/30/2012 11:17:03 Type: Unk
 Method: ICP-THERMO2_6010_200.7(v2005) Mode: CONC Corr. Factor: 1.000000
 User: KHR Custom ID1: Custom ID2: Custom ID3:
 Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00989	.21288	.00953	.01196	.02122	.00113	.25510
Stddev	.00047	.02968	.00082	.00027	.00244	.00002	.01461
%RSD	4.7414	13.941	8.6171	2.2415	11.514	1.6138	5.7260

#1	.01043	.18668	.00948	.01167	.01843	.00113	.24081
#2	.00963	.20685	.01038	.01220	.02228	.00115	.27001
#3	.00960	.24511	.00874	.01200	.02297	.00111	.25449

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	Hf2322	Hf2641
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00102	.00483	.01085	.01156	.08387	.02425	.02529
Stddev	.00012	.00012	.00041	.00013	.00512	.00540	.64380
%RSD	11.649	2.3966	3.7717	1.1290	6.1070	22.284	2546.1

#1	.00115	.00495	.01107	.01150	.07834	.02613	-.43011
#2	.00098	.00480	.01111	.01146	.08483	.02846	.76184
#3	.00093	.00473	.01038	.01171	.08844	.01816	-.25588

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Hf2773	Hf3399	K_7664	Li6707	Mg2790	Mn2576	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.98174	1.6937	1.2169	.02640	.19828	.01184	.02239
Stddev	.43743	1.7924	.1001	.00441	.01767	.00062	.00006
%RSD	44.557	105.83	8.2272	16.702	8.9122	5.2303	.27685

#1	.63713	-.12627	1.1173	.02407	.18948	.01114	.02237
#2	.83424	1.7502	1.2160	.02365	.18674	.01206	.02234
#3	1.4739	3.4573	1.3175	.03149	.21863	.01232	.02246

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: July 31, 2012



Sample Name: LLCCV Acquired: 7/30/2012 11:17:03 Type: Unk
 Method: ICP-THERMO2_6010_200.7(v2005) Mode: CONC Corr. Factor: 1.000000
 User: KHR Custom ID1: Custom ID2: Custom ID3:
 Comment:

Elem	Na5895	Ni2316	P_2149	Pb2203	Rb7800	S_1807	S_1820
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.2201	.01282	F -2.8084	.01196	F -5.8511	.12745	8.4807
Stddev	.0854	.00023	8.2494	.00119	14.110	.04219	2.4221
%RSD	6.9980	1.7566	293.74	9.9185	241.15	33.104	28.560

#1	1.1216	.01267	-1.9975	.01332	-21.657	.17608	9.7691
#2	1.2738	.01308	5.0057	.01143	5.4761	.10568	5.6868
#3	1.2648	.01271	-11.433	.01113	-1.3724	.10060	9.9863

Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Fail	Chk Pass	Chk Pass
High Limit			900.00		9.0000		
Low Limit			-.00400		-.00400		

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3372	Tl1908
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.02674	.00567	.10147	.02202	.02217	.02441	.01198
Stddev	.00327	.00489	.00231	.00072	.00211	.00331	.00153
%RSD	12.233	86.156	2.2770	3.2717	9.5354	13.555	12.772

#1	.02299	.00189	.10375	.02164	.01984	.02404	.01082
#2	.02902	.00394	.09913	.02158	.02269	.02130	.01141
#3	.02820	.01119	.10153	.02285	.02397	.02788	.01371

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm
Avg	.02217	.02320	.53991
Stddev	.00018	.00013	.42252
%RSD	.81620	.55981	78.257

#1	.02219	.02319	.14169
#2	.02197	.02308	.98313
#3	.02233	.02334	.49492

Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Approved: July 31, 2012



Sample Name: LLCCV Acquired: 7/30/2012 11:17:03 Type: Unk
Method: ICP-THERMO2_6010_200.7(v2005) Mode: CONC Corr. Factor: 1.000000
User: KHR Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	31404.	17449.
Stddev	93.	842.
%RSD	.29631	4.8255
#1	31357.	18409.
#2	31343.	17105.
#3	31511.	16835.

Approved: July 31, 2012



Sample Name: PBW 7A Acquired: 7/30/2012 11:21:24 Type: Unk
 Method: ICP-THERMO2_6010_200.7(v2005) Mode: CONC Corr. Factor: 1.000000
 User: KHR Custom ID1: Custom ID2: Custom ID3:
 Comment: WG404660-03

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00059	-.01572	-.00074	-.00050	-.00016	.00002	.04490
Stddev	.00060	.04173	.00022	.00141	.00034	.00001	.00397
%RSD	101.91	265.52	30.271	283.12	209.44	73.703	8.8437

#1	.00013	-.04924	-.00063	-.00006	-.00055	.00003	.04087
#2	.00128	.03102	-.00099	.00064	.00003	.00001	.04502
#3	.00037	-.02893	-.00058	-.00208	.00003	.00001	.04881

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	Hf2322	Hf2641
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00003	.00035	-.00073	-.00016	-.00249	.00229	F -.26485
Stddev	.00013	.00004	.00030	.00016	.01024	.00585	.30621
%RSD	501.61	12.342	40.811	104.10	411.72	255.66	115.62

#1	.00004	.00039	-.00044	-.00001	.00725	.00661	-.41599
#2	.00015	.00036	-.00104	-.00034	-.00155	.00463	-.46611
#3	-.00011	.00031	-.00071	-.00012	-.01317	-.00437	.08755

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit							45.000
Low Limit							-.10000

Elem	Hf2773	Hf3399	K_7664	Li6707	Mg2790	Mn2576	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.65674	.65942	.07796	.00053	-.00989	.00004	.00007
Stddev	.35887	.90708	.05203	.00336	.04053	.00007	.00019
%RSD	54.644	137.56	66.742	635.76	409.69	184.71	288.96

#1	.54727	-.38621	.11793	.00192	-.04735	.00006	-.00015
#2	1.0576	1.1294	.01913	-.00331	-.01547	-.00004	.00013
#3	.36535	1.2351	.09682	.00297	.03314	.00010	.00022

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: July 31, 2012



Sample Name: PBW 7A Acquired: 7/30/2012 11:21:24 Type: Unk
 Method: ICP-THERMO2_6010_200.7(v2005) Mode: CONC Corr. Factor: 1.000000
 User: KHR Custom ID1: Custom ID2: Custom ID3:
 Comment: WG404660-03

Elem	Na5895	Ni2316	P_2149	Pb2203	Rb7800	S_1807	S_1820
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.05238	.00081	F -7.1311	.00028	F -1.7359	F -.09074	6.8415
Stddev	.03896	.00071	16.097	.00152	13.056	.04380	2.1086
%RSD	74.377	87.110	225.73	553.81	752.12	48.276	30.820

#1	.09382	.00118	-9.7727	-.00104	-15.983	-.08055	7.8294
#2	.04682	.00126	10.123	-.00008	1.1163	-.13873	8.2747
#3	.01650	.00000	-21.744	.00195	9.6586	-.05292	4.4203

Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Fail	Chk Fail	Chk Pass
High Limit			900.00		9.0000	9.0000	
Low Limit			-.00400		-.00400	-.00400	

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3372	Tl1908
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.00067	-.00066	.00450	-.00030	.00000	.00011	.00154
Stddev	.00308	.00191	.00284	.00025	.0001	.00058	.00100
%RSD	462.54	291.31	63.021	82.363	23259.	506.43	64.845

#1	.00235	-.00257	.00149	-.00046	.00001	.00078	.00257
#2	-.00055	-.00067	.00713	-.00002	.00011	-.00026	.00149
#3	-.00381	.00126	.00488	-.00041	-.00013	-.00017	.00057

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm
Avg	.00033	.00154	.00487
Stddev	.00026	.00005	.52741
%RSD	78.435	3.5568	10825.

#1	.00026	.00159	-.41703
#2	.00012	.00148	.59616
#3	.00062	.00156	-.16452

Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

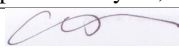
Approved: July 31, 2012



Sample Name: PBW 7A Acquired: 7/30/2012 11:21:24 Type: Unk
Method: ICP-THERMO2_6010_200.7(v2005) Mode: CONC Corr. Factor: 1.000000
User: KHR Custom ID1: Custom ID2: Custom ID3:
Comment: WG404660-03

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	31781.	17568.
Stddev	86.	634.
%RSD	.27104	3.6070
#1	31719.	18256.
#2	31744.	17438.
#3	31879.	17009.

Approved: July 31, 2012



Sample Name: LCSW 7A Acquired: 7/30/2012 11:24:35 Type: Unk
 Method: ICP-THERMO2_6010_200.7(v2005) Mode: CONC Corr. Factor: 1.000000
 User: KHR Custom ID1: Custom ID2: Custom ID3:
 Comment: WG404660-04

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.20854	5.1471	.20940	1.0323	.51139	.02637	5.1106
Stddev	.00048	.4198	.00186	.0072	.04381	.00014	.4004
%RSD	.22794	8.1550	.88593	.69850	8.5658	.52589	7.8340

#1	.20906	4.6720	.21107	1.0380	.46165	.02628	4.6691
#2	.20814	5.3014	.20972	1.0242	.52833	.02653	5.2125
#3	.20842	5.4679	.20740	1.0348	.54420	.02630	5.4501

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	Hf2322	Hf2641
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.02615	.10544	.25687	.26336	1.9918	.52995	.63289
Stddev	.00010	.00026	.00052	.00040	.1767	.00616	.16241
%RSD	.36652	.24262	.20244	.15270	8.8727	1.1620	25.662

#1	.02622	.10571	.25629	.26381	1.7941	.53528	.77343
#2	.02619	.10520	.25729	.26324	2.0468	.52321	.67017
#3	.02604	.10542	.25704	.26303	2.1345	.53136	.45509

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Hf2773	Hf3399	K_7664	Li6707	Mg2790	Mn2576	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.74296	.22715	25.128	.54193	5.0518	.26111	.52163
Stddev	.56482	1.1109	2.149	.04872	.5120	.01197	.00051
%RSD	76.022	489.05	8.5500	8.9901	10.134	4.5835	.09813

#1	.84630	1.0701	22.713	.48664	4.4636	.24730	.52128
#2	1.2490	-1.0316	25.848	.56054	5.2953	.26769	.52140
#3	.13361	.64296	26.825	.57859	5.3967	.26835	.52222

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: July 31, 2012



Sample Name: LCSW 7A Acquired: 7/30/2012 11:24:35 Type: Unk
 Method: ICP-THERMO2_6010_200.7(v2005) Mode: CONC Corr. Factor: 1.000000
 User: KHR Custom ID1: Custom ID2: Custom ID3:
 Comment: WG404660-04

Elem	Na5895	Ni2316	P_2149	Pb2203	Rb7800	S_1807	S_1820
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	26.219	.25840	F -.80694	.25998	F -12.587	5.3938	2.9152
Stddev	2.222	.00034	1.9058	.00123	11.176	.0471	2.6512
%RSD	8.4753	.13006	236.17	.47337	88.793	.87307	90.942

#1	23.694	.25804	-1.9745	.25857	-25.493	5.3430	-.13741
#2	27.090	.25870	-1.8385	.26051	-6.1477	5.4021	4.2422
#3	27.874	.25845	1.3923	.26086	-6.1211	5.4361	4.6409

Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Fail	Chk Pass	Chk Pass
High Limit			900.00		9.0000		
Low Limit			-.00400		-.00400		

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3372	Tl1908
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.60837	.21203	2.4218	-.00035	.49942	.52300	.25978
Stddev	.00609	.00156	.0042	.00003	.04186	.04431	.00118
%RSD	1.0013	.73583	.17359	8.5506	8.3813	8.4730	.45491

#1	.61403	.21371	2.4230	-.00035	.45208	.47318	.25937
#2	.60192	.21063	2.4171	-.00038	.51466	.53779	.25886
#3	.60914	.21174	2.4253	-.00032	.53152	.55803	.26111

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm
Avg	.51918	.52369	.70943
Stddev	.00130	.00042	.49585
%RSD	.25089	.08005	69.895

#1	.52056	.52323	1.2704
#2	.51902	.52380	.32953
#3	.51797	.52405	.52838

Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Approved: July 31, 2012



Sample Name: LCSW 7A Acquired: 7/30/2012 11:24:35 Type: Unk
Method: ICP-THERMO2_6010_200.7(v2005) Mode: CONC Corr. Factor: 1.000000
User: KHR Custom ID1: Custom ID2: Custom ID3:
Comment: WG404660-04

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	31566.	17795.
Stddev	150.	850.
%RSD	.47413	4.7751
#1	31570.	18774.
#2	31414.	17251.
#3	31714.	17360.

Approved: July 31, 2012



Sample Name: L1207074701 Acquired: 7/30/2012 11:27:48 Type: Unk
Method: ICP-THERMO2_6010_200.7(v2005) Mode: CONC Corr. Factor: 1.000000
User: KHR Custom ID1: Custom ID2: Custom ID3:
Comment: WG404660-01

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00020	-.03495	-.00019	.01576	.00974	-.00001
Stddev	.00038	.02522	.00069	.00096	.00058	.00002
%RSD	193.67	72.170	359.13	6.0900	5.9393	183.95

#1	.00054	-.01054	.00017	.01686	.00918	.00001
#2	-.00021	-.06091	.00024	.01519	.01034	-.00001
#3	.00026	-.03339	-.00098	.01522	.00971	-.00004

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Ca4226	Cd2288	Co2286	Cr2677	Cu2247	Fe2611
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	294.33	.00211	.00051	.00068	.00068	.04861
Stddev	21.13	.00017	.00017	.00043	.00069	.00470
%RSD	7.1779	7.8391	34.515	64.062	100.61	9.6669

#1	270.21	.00209	.00031	.00022	-.00001	.05260
#2	303.24	.00196	.00065	.00073	.00069	.04343
#3	309.55	.00228	.00056	.00108	.00137	.04980


Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Hf2322	Hf2641	Hf2773	Hf3399	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.41660	31.724	3.0669	.79486	16.487	.05922
Stddev	.00311	1.671	.4382	.45986	1.333	.00442
%RSD	.74642	5.2682	14.289	57.855	8.0852	7.4680

#1	.41557	29.805	2.6001	.45374	14.962	.05411
#2	.42010	32.856	3.4694	1.3178	17.070	.06166
#3	.41414	32.511	3.1312	.61299	17.430	.06188

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Approved: July 31, 2012



Sample Name: L1207074701 Acquired: 7/30/2012 11:27:48 Type: Unk
 Method: ICP-THERMO2_6010_200.7(v2005) Mode: CONC Corr. Factor: 1.000000
 User: KHR Custom ID1: Custom ID2: Custom ID3:
 Comment: WG404660-01

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	526.09	.05966	.00102	152.71	.00855	54.212
Stddev	44.30	.00187	.00017	12.16	.00007	7.273
%RSD	8.4212	3.1409	16.332	7.9594	.85430	13.415

#1	475.71	.05752	.00113	138.90	.00849	45.927
#2	543.60	.06042	.00083	157.45	.00853	57.167
#3	558.97	.06103	.00110	161.78	.00863	59.542

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Pb2203	Rb7800	S_1807	S_1820	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00084	F -36.624	F 14688.	F -1567e3	.00621	-.00151
Stddev	.00283	8.509	160.	19220.	.00171	.00101
%RSD	337.64	23.234	1.0904	1.2264	27.527	66.502

#1	.00394	-38.496	14601.	-1559e3	.00707	-.00244
#2	.00018	-44.041	14590.	-1589e3	.00424	-.00166
#3	-.00161	-27.334	14873.	-1553e3	.00732	-.00044


Check ?	Chk Pass	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass
High Limit		9.0000	9.0000	9.0000		
Low Limit		-.00400	-.00400	-.00400		

Elem	Si2124	Sn1899	Sr4077	Ti3372	Ti1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	5.0019	-.00011	.41570	-.00397	.00144	-.00060
Stddev	.0727	.00009	.03221	.00378	.00133	.00021
%RSD	1.4532	85.317	7.7494	95.207	91.860	35.288

#1	4.9198	-.00013	.37911	.00025	.00011	-.00071
#2	5.0275	-.00018	.42818	-.00703	.00276	-.00036
#3	5.0582	-.00001	.43981	-.00513	.00145	-.00074

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Approved: July 31, 2012



Sample Name: L1207074701 Acquired: 7/30/2012 11:27:48 Type: Unk
 Method: ICP-THERMO2_6010_200.7(v2005) Mode: CONC Corr. Factor: 1.000000
 User: KHR Custom ID1: Custom ID2: Custom ID3:
 Comment: WG404660-01

Elem	Zn2062	Zr3391
Units	ppm	ppm
Avg	.00439	F -.36548
Stddev	.00003	.30885
%RSD	.62863	84.506


#1	.00442	-.08056
#2	.00437	-.69370
#3	.00439	-.32218

Check ?	Chk Pass	Chk Fail
High Limit		45.000
Low Limit		-.00400

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	29880.	17758.
Stddev	86.	545.
%RSD	.28862	3.0699

#1	29800.	18384.
#2	29972.	17499.
#3	29869.	17390.

Approved: July 31, 2012



Sample Name: L1207074701DUP Acquired: 7/30/2012 11:31:14 Type: Unk
 Method: ICP-THERMO2_6010_200.7(v2005) Mode: CONC Corr. Factor: 1.000000
 User: KHR Custom ID1: Custom ID2: Custom ID3:
 Comment: WG404660-05

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-0.0019	-0.04855	.00016	.01320	.00879	.00001
Stddev	.00051	.05720	.00087	.00222	.00131	.00003
%RSD	263.93	117.82	550.19	16.814	14.864	224.34

#1	-0.0068	-0.10786	-0.00059	.01066	.00734	-0.00001
#2	-0.0023	.00629	-0.00005	.01477	.00915	.00004
#3	.00033	-0.04408	.00112	.01416	.00988	.00000

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Ca4226	Cd2288	Co2286	Cr2677	Cu2247	Fe2611
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	290.99	.00202	.00064	.00102	.00136	.05851
Stddev	27.38	.00012	.00034	.00027	.00037	.00825
%RSD	9.4080	6.0218	53.279	26.158	27.337	14.097

#1	259.96	.00197	.00054	.00095	.00179	.05113
#2	301.27	.00193	.00035	.00131	.00115	.05699
#3	311.73	.00216	.00101	.00079	.00113	.06741

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Hf2322	Hf2641	Hf2773	Hf3399	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.40797	31.206	1.6014	1.0972	16.355	.06102
Stddev	.00413	3.331	.5196	.5245	1.510	.00768
%RSD	1.0122	10.675	32.449	47.800	9.2327	12.585

#1	.40614	27.414	1.0526	.96478	14.664	.05495
#2	.40507	32.542	1.6655	.65164	16.830	.05845
#3	.41269	33.661	2.0860	1.6752	17.570	.06965

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Approved: July 31, 2012



Sample Name: L1207074701DUP Acquired: 7/30/2012 11:31:14 Type: Unk
 Method: ICP-THERMO2_6010_200.7(v2005) Mode: CONC Corr. Factor: 1.000000
 User: KHR Custom ID1: Custom ID2: Custom ID3:
 Comment: WG404660-05

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	514.44	.05897	.00053	150.12	.00841	57.889
Stddev	49.12	.00353	.00034	14.16	.00063	11.843
%RSD	9.5480	5.9934	64.643	9.4349	7.5068	20.458

#1	458.33	.05541	.00028	133.99	.00912	68.376
#2	535.31	.05902	.00092	155.86	.00822	60.246
#3	549.67	.06248	.00038	160.52	.00790	45.045

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Pb2203	Rb7800	S_1807	S_1820	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00305	F -23.018	F 14490.	F -1530e3	.00145	-.00341
Stddev	.00071	21.440	147.	19692.	.00012	.00277
%RSD	23.435	93.146	1.0128	1.2868	8.1953	81.358

#1	.00387	-47.681	14621.	-1553e3	.00133	-.00060
#2	.00258	-8.8289	14517.	-1517e3	.00144	-.00349
#3	.00269	-12.543	14331.	-1521e3	.00157	-.00613

Check ?	Chk Pass	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass
High Limit		9.0000	9.0000	9.0000		
Low Limit		-.00400	-.00400	-.00400		

Elem	Si2124	Sn1899	Sr4077	Ti3372	Ti1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	4.9067	-.00044	.40884	-.00599	-.00077	-.00051
Stddev	.0469	.00020	.04024	.00295	.00219	.00042
%RSD	.95560	44.496	9.8431	49.204	285.92	82.007

#1	4.9486	-.00059	.36298	-.00275	-.00160	-.00088
#2	4.9155	-.00022	.42529	-.00671	.00172	-.00005
#3	4.8561	-.00050	.43825	-.00851	-.00242	-.00060

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Approved: July 31, 2012



Sample Name: L1207074701DUP Acquired: 7/30/2012 11:31:14 Type: Unk
 Method: ICP-THERMO2_6010_200.7(v2005) Mode: CONC Corr. Factor: 1.000000
 User: KHR Custom ID1: Custom ID2: Custom ID3:
 Comment: WG404660-05

Elem	Zn2062	Zr3391
Units	ppm	ppm
Avg	.00432	F -.44451
Stddev	.00011	.07585
%RSD	2.4893	17.065


#1	.00421	-.38695
#2	.00432	-.53046
#3	.00443	-.41612

Check ?	Chk Pass	Chk Fail
High Limit		45.000
Low Limit		-.00400

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	29635.	17727.
Stddev	39.	1018.
%RSD	.13079	5.7446

#1	29666.	18862.
#2	29591.	17425.
#3	29648.	16893.

Approved: July 31, 2012



Sample Name: L1207074701MS Acquired: 7/30/2012 11:34:40 Type: Unk
 Method: ICP-THERMO2_6010_200.7(v2005) Mode: CONC Corr. Factor: 1.000000
 User: KHR Custom ID1: Custom ID2: Custom ID3:
 Comment: WG404660-06

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.21314	5.1377	.21254	1.0432	.52088	.02670
Stddev	.00161	.4413	.00159	.0022	.04765	.00013
%RSD	.75457	8.5897	.74948	.21432	9.1481	.50017

#1	.21395	4.6301	.21411	1.0457	.46672	.02655
#2	.21129	5.3519	.21258	1.0413	.53955	.02679
#3	.21418	5.4310	.21092	1.0426	.55636	.02678

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Ca4226	Cd2288	Co2286	Cr2677	Cu2247	Fe2611
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	299.02	.02839	.10166	.25401	.25335	2.0074
Stddev	24.66	.00015	.00024	.00096	.00044	.1888
%RSD	8.2456	.53019	.23851	.37656	.17404	9.4031

#1	271.08	.02840	.10188	.25306	.25380	1.7915
#2	308.21	.02854	.10170	.25400	.25292	2.0893
#3	317.75	.02824	.10140	.25497	.25334	2.1414

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Hf2322	Hf2641	Hf2773	Hf3399	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.91347	31.862	2.4570	.48220	42.868	.59289
Stddev	.00428	2.592	.2301	1.1189	3.906	.05209
%RSD	.46814	8.1361	9.3665	232.05	9.1118	8.7866

#1	.90998	28.876	2.1984	.55544	38.465	.53429
#2	.91824	33.177	2.5337	1.5627	44.222	.61040
#3	.91219	33.534	2.6391	-.67156	45.916	.63397

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Approved: July 31, 2012



Sample Name: L1207074701MS Acquired: 7/30/2012 11:34:40 Type: Unk
 Method: ICP-THERMO2_6010_200.7(v2005) Mode: CONC Corr. Factor: 1.000000
 User: KHR Custom ID1: Custom ID2: Custom ID3:
 Comment: WG404660-06

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	526.23	.30372	.52127	176.43	.25389	64.708
Stddev	47.04	.01082	.00094	15.44	.00084	22.587
%RSD	8.9385	3.5610	.18008	8.7527	.33218	34.906

#1	472.86	.29142	.52207	158.90	.25302	38.717
#2	544.20	.30802	.52150	182.33	.25470	79.576
#3	561.63	.31173	.52023	188.04	.25395	75.830

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Pb2203	Rb7800	S_1807	S_1820	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.24539	F -36.306	F 14617.	F -1563e3	.61359	.21158
Stddev	.00170	6.101	193.	41144.	.00400	.00202
%RSD	.69270	16.804	1.3212	2.6322	.65245	.95550

#1	.24616	-41.618	14827.	-1609e3	.60935	.21197
#2	.24344	-29.643	14578.	-1550e3	.61730	.21338
#3	.24657	-37.657	14447.	-1530e3	.61412	.20939

Check ?	Chk Pass	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass
High Limit		9.0000	9.0000	9.0000		
Low Limit		-.00400	-.00400	-.00400		

Elem	Si2124	Sn1899	Sr4077	Ti3372	Ti1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	7.3774	-.00033	.91474	.52205	.23416	.52397
Stddev	.0506	.00026	.08235	.04947	.00150	.00304
%RSD	.68620	77.370	9.0024	9.4769	.63988	.58033

#1	7.3282	-.00057	.82195	.46619	.23246	.52494
#2	7.3747	-.00006	.94317	.53965	.23528	.52056
#3	7.4293	-.00037	.97911	.56032	.23475	.52641

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Approved: July 31, 2012



Sample Name: L1207074701MS Acquired: 7/30/2012 11:34:40 Type: Unk
 Method: ICP-THERMO2_6010_200.7(v2005) Mode: CONC Corr. Factor: 1.000000
 User: KHR Custom ID1: Custom ID2: Custom ID3:
 Comment: WG404660-06

Elem	Zn2062	Zr3391
Units	ppm	ppm
Avg	.50432	.02406
Stddev	.00125	.24078
%RSD	.24746	1000.9

#1	.50300	.01997
#2	.50548	.26685
#3	.50449	-.21466

Check ?	Chk Pass	Chk Pass
High Limit		
Low Limit		

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	29655.	17613.
Stddev	50.	658.
%RSD	.16778	3.7381

#1	29658.	18373.
#2	29604.	17262.
#3	29703.	17205.

Approved: July 31, 2012



Sample Name: L1207081201 Acquired: 7/30/2012 11:38:01 Type: Unk
 Method: ICP-THERMO2_6010_200.7(v2005) Mode: CONC Corr. Factor: 1.000000
 User: KHR Custom ID1: Custom ID2: Custom ID3:
 Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00026	.15642	-.00113	.02924	.87736	-.00001	8.5158
Stddev	.00090	.03759	.00123	.00056	.06802	.00001	.4046
%RSD	341.52	24.033	108.78	1.9075	7.7529	250.25	4.7514

#1	-.00076	.11611	-.00212	.02859	.80103	-.00002	8.0850
#2	.00093	.19053	-.00151	.02957	.89949	.00001	8.5748
#3	.00061	.16261	.00024	.02954	.93156	.00000	8.8877

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	Hf2322	Hf2641
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00036	.00882	.02650	.07788	3.1817	.06087	.27176
Stddev	.00006	.00014	.00058	.00072	.2568	.00372	.62242
%RSD	16.768	1.6198	2.1855	.93051	8.0725	6.1098	229.03

#1	.00030	.00893	.02643	.07807	2.8970	.05688	-.00557
#2	.00042	.00888	.02596	.07707	3.2520	.06424	-.16379
#3	.00036	.00866	.02712	.07848	3.3961	.06148	.98463


Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Hf2773	Hf3399	K_7664	Li6707	Mg2790	Mn2576	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.84566	1.1895	8.2783	.00318	2.1208	.06818	.03308
Stddev	.79242	1.7656	.4472	.00433	.2441	.00218	.00016
%RSD	93.704	148.44	5.4016	135.94	11.511	3.2017	.49658

#1	.86338	2.8207	7.7701	-.00175	2.4019	.06567	.03293
#2	1.6291	-.68527	8.4534	.00634	1.9982	.06923	.03305
#3	.04453	1.4330	8.6115	.00496	1.9622	.06964	.03325

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: July 31, 2012



Sample Name: L1207081201 Acquired: 7/30/2012 11:38:01 Type: Unk
 Method: ICP-THERMO2_6010_200.7(v2005) Mode: CONC Corr. Factor: 1.000000
 User: KHR Custom ID1: Custom ID2: Custom ID3:
 Comment:

Elem	Na5895	Ni2316	P_2149	Pb2203	Rb7800	S_1807	S_1820
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	20.076	.01737	F 9821.5	.01032	F -11.551	F 65.729	F -5733.9
Stddev	1.407	.00043	37.3	.00083	10.537	.377	38.7
%RSD	7.0085	2.4553	.37999	8.0878	91.221	.57320	.67414

#1	18.506	.01715	9825.3	.01021	-12.620	65.712	-5725.4
#2	20.500	.01786	9782.5	.00954	-21.513	65.360	-5700.2
#3	21.223	.01710	9856.8	.01120	-.5206	66.113	-5776.1

Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Fail	Chk Fail	Chk Fail
High Limit			900.00		9.0000	9.0000	9.0000
Low Limit			-.00400		-.00400	-.00400	-.00400

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3372	Tl1908
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00395	-.00023	4.6057	.00712	.03602	.00249	.00195
Stddev	.00070	.00381	.0290	.00005	.00196	.00372	.00195
%RSD	17.622	1655.9	.63037	.73080	5.4391	149.52	100.08

#1	.00358	.00184	4.6392	.00718	.03400	.00656	.00249
#2	.00352	.00210	4.5883	.00708	.03616	-.00072	.00357
#3	.00476	-.00463	4.5896	.00709	.03791	.00161	-.00022

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm
Avg	.00758	.15985	.32696
Stddev	.00019	.00028	.28766
%RSD	2.4692	.17567	87.980

#1	.00742	.15986	.41034
#2	.00753	.15956	.00682
#3	.00779	.16012	.56371

Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

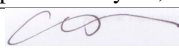
Approved: July 31, 2012



Sample Name: L1207081201 Acquired: 7/30/2012 11:38:01 Type: Unk
Method: ICP-THERMO2_6010_200.7(v2005) Mode: CONC Corr. Factor: 1.000000
User: KHR Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	31871.	17694.
Stddev	67.	543.
%RSD	.21043	3.0703
#1	31860.	18319.
#2	31810.	17418.
#3	31943.	17343.

Approved: July 31, 2012



Sample Name: L1207081301 Acquired: 7/30/2012 11:41:06 Type: Unk
 Method: ICP-THERMO2_6010_200.7(v2005) Mode: CONC Corr. Factor: 1.000000
 User: KHR Custom ID1: Custom ID2: Custom ID3:
 Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-0.0062	4.2450	.00061	8.8835	.01088	-.00001	186.26
Stddev	.00022	.3631	.00091	.1405	.00066	.00001	14.47
%RSD	35.096	8.5543	149.45	1.5817	6.0263	58.611	7.7711

#1	-0.0039	3.8283	.00002	9.0271	.01121	.00000	169.70
#2	-0.0082	4.4131	.00015	8.7462	.01012	-.00002	192.53
#3	-0.0065	4.4936	.00165	8.8772	.01130	-.00002	196.53

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	Hf2322	Hf2641
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00030	.00215	.03316	.30772	.11797	.09016	1.1044
Stddev	.00014	.00025	.00083	.00156	.00198	.00411	.4049
%RSD	48.428	11.543	2.5105	.50626	1.6811	4.5587	36.663

#1	.00019	.00235	.03406	.30911	.11664	.08551	.89897
#2	.00025	.00187	.03300	.30603	.11702	.09331	.84345
#3	.00046	.00223	.03242	.30800	.12025	.09166	1.5709

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Hf2773	Hf3399	K_7664	Li6707	Mg2790	Mn2576	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.12238	.61502	26.365	.00756	12.705	.01930	.00526
Stddev	.64196	.62668	2.096	.00241	1.105	.00065	.00006
%RSD	524.57	101.90	7.9497	31.869	8.6986	3.3849	1.0907

#1	.54134	-.09704	23.974	.01034	11.453	.01863	.00521
#2	-.61669	1.0827	27.237	.00623	13.119	.01935	.00526
#3	.44249	.85944	27.885	.00610	13.544	.01993	.00532

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: July 31, 2012



Sample Name: L1207081301 Acquired: 7/30/2012 11:41:06 Type: Unk
 Method: ICP-THERMO2_6010_200.7(v2005) Mode: CONC Corr. Factor: 1.000000
 User: KHR Custom ID1: Custom ID2: Custom ID3:
 Comment:

Elem	Na5895	Ni2316	P_2149	Pb2203	Rb7800	S_1807	S_1820
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	95.234	.07735	F 1505.4	.11920	F -12.621	F 510.41	F -31379.
Stddev	7.615	.00039	10.7	.00044	11.099	2.49	97.
%RSD	7.9959	.50979	.70813	.37045	87.940	.48855	.30989

#1	86.540	.07781	1517.0	.11931	-21.193	507.98	-31267.
#2	98.445	.07715	1496.0	.11871	-.0844	512.96	-31434.
#3	100.72	.07710	1503.2	.11958	-16.585	510.30	-31436.

Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Fail	Chk Fail	Chk Fail
High Limit			900.00		9.0000	9.0000	9.0000
Low Limit			-.00400		-.00400	-.00400	-.00400

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3372	Tl1908
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00431	.00002	3.8089	.00007	.09032	-.00285	.00199
Stddev	.00209	.00147	.0185	.00053	.00681	.00434	.00068
%RSD	48.333	8385.1	.48564	744.56	7.5396	152.40	34.119

#1	.00250	-.00162	3.8018	-.00027	.08246	-.00583	.00275
#2	.00385	.00124	3.8299	-.00020	.09413	.00213	.00146
#3	.00659	.00043	3.7950	.00068	.09437	-.00484	.00175

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm
Avg	.00058	.32777	F -.32444
Stddev	.00016	.00069	.50563
%RSD	26.826	.21165	155.85

#1	.00070	.32705	-.62896
#2	.00041	.32781	.25923
#3	.00064	.32844	-.60358

Check ?	Chk Pass	Chk Pass	Chk Fail
High Limit			45.000
Low Limit			-.00400

Approved: July 31, 2012



Sample Name: L1207081301 Acquired: 7/30/2012 11:41:06 Type: Unk
Method: ICP-THERMO2_6010_200.7(v2005) Mode: CONC Corr. Factor: 1.000000
User: KHR Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	30217.	17368.
Stddev	261.	698.
%RSD	.86425	4.0166
#1	29926.	18151.
#2	30431.	17139.
#3	30294.	16814.

Approved: July 31, 2012



Sample Name: L1207081301PS Acquired: 7/30/2012 11:44:12 Type: Unk
 Method: ICP-THERMO2_6010_200.7(v2005) Mode: CONC Corr. Factor: 1.000000
 User: KHR Custom ID1: Custom ID2: Custom ID3:
 Comment: WG404868-03

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.21014	8.9506	.21137	9.1510	.52252	.02696	171.70
Stddev	.00212	.7478	.00222	.0175	.04464	.00038	13.64
%RSD	1.0068	8.3551	1.0482	.19102	8.5440	1.4188	7.9416

#1	.20784	8.1014	.21295	9.1379	.47157	.02667	156.15
#2	.21060	9.2391	.21232	9.1442	.54115	.02682	177.32
#3	.21200	9.5111	.20884	9.1708	.55483	.02739	181.63

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	Hf2322	Hf2641
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.02669	.10629	.28658	.53594	2.1117	.59045	1.7687
Stddev	.00003	.00046	.00215	.00142	.1842	.00727	.7674
%RSD	.12491	.43030	.74944	.26405	8.7213	1.2309	43.389

#1	.02672	.10660	.28558	.53745	1.9029	.59872	1.0231
#2	.02666	.10650	.28511	.53574	2.1814	.58755	1.7268
#3	.02670	.10576	.28904	.53464	2.2509	.58507	2.5562

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Hf2773	Hf3399	K_7664	Li6707	Mg2790	Mn2576	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.82642	.95175	49.301	.53771	16.453	.27670	.52844
Stddev	.71352	1.0577	4.090	.04911	1.348	.01079	.00154
%RSD	86.339	111.14	8.2954	9.1339	8.1900	3.8978	.29208

#1	1.3956	1.8393	44.643	.48183	14.946	.26433	.53007
#2	.02595	-2.1867	50.958	.55731	16.870	.28162	.52827
#3	1.0577	1.2346	52.302	.57400	17.543	.28415	.52699

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: July 31, 2012



Sample Name: L1207081301PS Acquired: 7/30/2012 11:44:12 Type: Unk
 Method: ICP-THERMO2_6010_200.7(v2005) Mode: CONC Corr. Factor: 1.000000
 User: KHR Custom ID1: Custom ID2: Custom ID3:
 Comment: WG404868-03

Elem	Na5895	Ni2316	P_2149	Pb2203	Rb7800	S_1807	S_1820
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	110.42	.32351	F 1354.8	.35962	F -18.442	F 463.82	F -28245.
Stddev	9.17	.00036	10.9	.00195	8.808	1.51	33.
%RSD	8.3080	.11269	.80415	.54262	47.761	.32659	.11691

#1	99.987	.32392	1342.3	.36165	-27.377	462.15	-28219.
#2	114.06	.32322	1362.1	.35776	-9.7662	465.11	-28282.
#3	117.22	.32340	1360.1	.35944	-18.183	464.19	-28233.

Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Fail	Chk Fail	Chk Fail
High Limit			900.00		9.0000	9.0000	9.0000
Low Limit			-.00400		-.00400	-.00400	-.00400

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3372	Tl1908
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.60816	.21285	6.5311	.00212	.57901	.52811	.24803
Stddev	.00219	.00431	.0597	.00035	.04817	.04203	.00261
%RSD	.36031	2.0244	.91343	16.409	8.3187	7.9594	1.0532

#1	.60639	.21059	6.4649	.00173	.52444	.48001	.24605
#2	.61061	.21782	6.5479	.00238	.59698	.54651	.24705
#3	.60748	.21015	6.5806	.00226	.61560	.55780	.25099

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm
Avg	.52383	.81273	.14856
Stddev	.00402	.00092	.35844
%RSD	.76702	.11312	241.28

#1	.52078	.81228	.42644
#2	.52232	.81379	-.25602
#3	.52838	.81212	.27526

Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Approved: July 31, 2012



Sample Name: L1207081301PS Acquired: 7/30/2012 11:44:12 Type: Unk
Method: ICP-THERMO2_6010_200.7(v2005) Mode: CONC Corr. Factor: 1.000000
User: KHR Custom ID1: Custom ID2: Custom ID3:
Comment: WG404868-03

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	30164.	17306.
Stddev	18.	646.
%RSD	.06108	3.7311
#1	30184.	18052.
#2	30147.	16945.
#3	30161.	16922.

Approved: July 31, 2012



Sample Name: L1207081301SDL Acquired: 7/30/2012 11:47:15 Type: Unk
 Method: ICP-THERMO2_6010_200.7(v2005) Mode: CONC Corr. Factor: 1.000000
 User: KHR Custom ID1: 5 Custom ID2: Custom ID3:
 Comment: WG404868-04

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.00013	.86809	-.00080	1.8134	.00169	-.00001	39.116
Stddev	.00051	.03290	.00100	.0257	.00076	.00002	2.920
%RSD	387.26	3.7894	124.49	1.4196	44.801	315.98	7.4651

#1	-.00022	.83161	-.00020	1.7891	.00253	.00001	35.804
#2	.00041	.89549	-.00196	1.8106	.00150	-.00002	40.221
#3	-.00059	.87717	-.00026	1.8404	.00105	-.00001	41.322

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	Hf2322	Hf2641
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00002	.00056	.00650	.06224	.02088	.01610	.41353
Stddev	.00017	.00007	.00062	.00058	.00408	.00122	.49562
%RSD	716.08	11.822	9.5207	.92505	19.558	7.5794	119.85

#1	-.00005	.00063	.00598	.06163	.02246	.01746	.76716
#2	-.00010	.00053	.00719	.06277	.01624	.01509	.62640
#3	.00022	.00051	.00634	.06231	.02394	.01576	-.15296


Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Hf2773	Hf3399	K_7664	Li6707	Mg2790	Mn2576	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.68089	1.9810	5.6752	.00045	2.5799	.00491	.00166
Stddev	.45472	.4217	.3004	.00098	.2122	.00029	.00025
%RSD	66.783	21.287	5.2933	220.39	8.2237	5.9969	15.037

#1	1.1333	1.5040	5.3289	.00134	2.3349	.00458	.00189
#2	.68545	2.3042	5.8315	-.00061	2.6990	.00514	.00140
#3	.22390	2.1348	5.8653	.00061	2.7058	.00502	.00170

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: July 31, 2012



Sample Name: L1207081301SDL Acquired: 7/30/2012 11:47:15 Type: Unk
 Method: ICP-THERMO2_6010_200.7(v2005) Mode: CONC Corr. Factor: 1.000000
 User: KHR Custom ID1: 5 Custom ID2: Custom ID3:
 Comment: WG404868-04

Elem	Na5895	Ni2316	P_2149	Pb2203	Rb7800	S_1807	S_1820
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	19.917	.01693	276.70	.02583	F -11.727	F 105.46	F -6329.8
Stddev	1.464	.00094	15.89	.00098	10.617	.43	30.2
%RSD	7.3485	5.5574	5.7435	3.7981	90.534	.40309	.47729

#1	18.249	.01700	274.73	.02647	-21.634	105.36	-6324.6
#2	20.512	.01595	293.49	.02632	-.5194	105.09	-6302.6
#3	20.989	.01783	261.89	.02470	-13.028	105.92	-6362.3

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Fail	Chk Fail
High Limit					9.0000	9.0000	9.0000
Low Limit					-.00400	-.00400	-.00400

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3372	Tl1908
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00343	.00057	.79016	-.00024	.01874	-.00201	.00222
Stddev	.00040	.00046	.00255	.00008	.00091	.00129	.00057
%RSD	11.630	79.568	.32286	35.472	4.8435	64.105	25.711

#1	.00339	.00110	.79206	-.00016	.01769	-.00255	.00156
#2	.00385	.00028	.78726	-.00033	.01922	-.00294	.00258
#3	.00306	.00034	.79116	-.00023	.01930	-.00054	.00251

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm
Avg	.00024	.06841	.40117
Stddev	.00007	.00001	.79196
%RSD	28.077	.01501	197.41

#1	.00019	.06841	.01205
#2	.00032	.06842	1.3124
#3	.00022	.06840	-.12096

Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Approved: July 31, 2012



Sample Name: L1207081301SDL Acquired: 7/30/2012 11:47:15 Type: Unk
Method: ICP-THERMO2_6010_200.7(v2005) Mode: CONC Corr. Factor: 1.000000
User: KHR Custom ID1: 5 Custom ID2: Custom ID3:
Comment: WG404868-04

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	31777.	17973.
Stddev	237.	675.
%RSD	.74699	3.7560
#1	32022.	18748.
#2	31762.	17509.
#3	31548.	17663.

Approved: July 31, 2012



Sample Name: CCV Acquired: 7/30/2012 11:50:28 Type: QC
 Method: ICP-THERMO2_6010_200.7(v2005) Mode: CONC Corr. Factor: 1.000000
 User: KHR Custom ID1: Custom ID2: Custom ID3:
 Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.40654	10.257	.41315	.53155	1.0115	.05178	10.175
Stddev	.00184	.921	.00203	.00150	.0853	.00029	.802
%RSD	.45350	8.9772	.49230	.28130	8.4285	.56854	7.8816

#1	.40781	9.2215	.41524	.53262	.91472	.05152	9.2680
#2	.40442	10.567	.41118	.52984	1.0441	.05173	10.468
#3	.40738	10.983	.41302	.53220	1.0756	.05210	10.790

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value Range							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	Hf2322	Hf2641
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.05150	.20645	.50518	.51605	4.0086	1.0295	1.0877
Stddev	.00011	.00047	.00149	.00066	.3280	.0043	.3966
%RSD	.21690	.22980	.29583	.12803	8.1821	.41335	36.458

#1	.05163	.20697	.50585	.51664	3.6379	1.0327	.64704
#2	.05142	.20634	.50346	.51616	4.1265	1.0311	1.2004
#3	.05145	.20604	.50622	.51534	4.2613	1.0247	1.4158

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value Range							

Elem	Hf2773	Hf3399	K_7664	Li6707	Mg2790	Mn2576	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.95691	F .10659	50.871	1.0448	9.8950	.53080	1.0323
Stddev	.30675	.67419	4.530	.0840	.7305	.02104	.0010
%RSD	32.057	632.53	8.9053	8.0406	7.3829	3.9636	.10089

#1	1.3104	.88353	45.808	.94927	9.0767	.50732	1.0335
#2	.79912	-.23942	52.263	1.0779	10.126	.53713	1.0315
#3	.76117	-.32435	54.542	1.1072	10.482	.54794	1.0319

Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value Range		1.0000 -10.000%					

Approved: July 31, 2012



Sample Name: CCV Acquired: 7/30/2012 11:50:28 Type: QC
 Method: ICP-THERMO2_6010_200.7(v2005) Mode: CONC Corr. Factor: 1.000000
 User: KHR Custom ID1: Custom ID2: Custom ID3:
 Comment:

Elem	Na5895	Ni2316	P_2149	Pb2203	Rb7800	S_1807	S_1820
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	50.605	.50056	F 40.806	.50514	F -6.9920	F 11.139	F -66.688
Stddev	4.196	.00066	5.473	.00081	22.153	.221	19.564
%RSD	8.2926	.13274	13.413	.15992	316.83	1.9841	29.336

#1	45.846	.50057	41.060	.50422	-28.586	10.909	-45.494
#2	52.192	.49989	46.148	.50545	-8.0706	11.160	-70.513
#3	53.776	.50122	35.210	.50575	15.681	11.349	-84.057

Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Fail	Chk Fail	Chk Fail
Value			10.000		10.000	10.000	10.000
Range			10.000%		-10.000%	10.000%	-10.000%

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3372	Tl1908
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.2053	.41736	4.6579	1.0069	.99863	1.0519	.50057
Stddev	.0058	.00123	.0186	.0017	.08678	.0896	.00204
%RSD	.47974	.29541	.39977	.16650	8.6897	8.5224	.40704

#1	1.2088	.41767	4.6587	1.0076	.90079	.95053	.50103
#2	1.1986	.41841	4.6390	1.0050	1.0288	1.0843	.49835
#3	1.2083	.41600	4.6762	1.0081	1.0663	1.1208	.50235

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm
Avg	1.0398	1.0045	F 1.1143
Stddev	.0042	.0012	.2857
%RSD	.40480	.11861	25.636

#1	1.0409	1.0046	1.0308
#2	1.0351	1.0033	1.4323
#3	1.0433	1.0057	.87962

Check ?	Chk Pass	Chk Pass	Chk Fail
Value			1.0000
Range			10.000%

Approved: July 31, 2012



Sample Name: CCV Acquired: 7/30/2012 11:50:28 Type: QC
Method: ICP-THERMO2_6010_200.7(v2005) Mode: CONC Corr. Factor: 1.000000
User: KHR Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	31275.	17347.
Stddev	112.	731.
%RSD	.35711	4.2141
#1	31325.	18190.
#2	31147.	16974.
#3	31353.	16878.

Approved: July 31, 2012



Sample Name: CCB Acquired: 7/30/2012 11:53:33 Type: Blank
 Method: ICP-THERMO2_6010_200.7(v2005) Mode: CONC Corr. Factor: 1.000000
 User: KHR Custom ID1: Custom ID2: Custom ID3:
 Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.00011	-.01451	.00034	.01825	-.00061	.00004	.05619
Stddev	.00116	.03975	.00244	.00161	.00009	.00001	.01866
%RSD	1036.4	273.89	729.15	8.8435	15.240	20.842	33.210

#1	.00060	-.04684	.00090	.01847	-.00064	.00005	.06784
#2	-.00145	.02987	.00245	.01974	-.00069	.00005	.06607
#3	.00051	-.02657	-.00234	.01654	-.00051	.00003	.03467

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	Hf2322	Hf2641
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00008	.00028	-.00049	.00018	-.00432	.00049	.02635
Stddev	.00010	.00011	.00035	.00014	.00550	.00210	.85172
%RSD	119.59	39.601	71.472	78.203	127.50	426.43	3232.3

#1	.00004	.00028	-.00014	.00002	-.00031	.00251	1.0076
#2	.00020	.00017	-.00085	.00029	-.00205	.00064	-.52146
#3	.00001	.00038	-.00049	.00025	-.01059	-.00167	-.40709

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Hf2773	Hf3399	K_7664	Li6707	Mg2790	Mn2576	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F .85928	F 1.1561	.32622	-.00422	.00803	.00017	.00119
Stddev	.27090	.0953	.01931	.00183	.01042	.00009	.00041
%RSD	31.527	8.2447	5.9194	43.477	129.77	54.400	34.352

#1	.87774	1.0601	.30995	-.00338	.01964	.00013	.00123
#2	1.1205	1.1574	.34756	-.00295	.00496	.00010	.00077
#3	.57962	1.2507	.32114	-.00632	-.00051	.00027	.00158

Check ?	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	.10000	.10000					
Low Limit	-.10000	-.10000					

Approved: July 31, 2012



Sample Name: CCB Acquired: 7/30/2012 11:53:33 Type: Blank
 Method: ICP-THERMO2_6010_200.7(v2005) Mode: CONC Corr. Factor: 1.000000
 User: KHR Custom ID1: Custom ID2: Custom ID3:
 Comment:

Elem	Na5895	Ni2316	P_2149	Pb2203	Rb7800	S_1807	S_1820
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.17233	.00196	F 1.5432	.00218	F -11.978	F .70930	F -71.329
Stddev	.08163	.00046	13.843	.00143	8.940	.09867	4.019
%RSD	47.372	23.488	896.99	65.249	74.630	13.911	5.6339

#1	.26646	.00243	15.797	.00056	-12.220	.72974	-72.233
#2	.12956	.00194	.68054	.00278	-20.795	.79615	-74.819
#3	.12096	.00151	-11.848	.00321	-2.9208	.60201	-66.936

Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Fail	Chk Fail	Chk Fail
High Limit			.01000		.01000	.01000	.01000
Low Limit			-.01000		-.01000	-.01000	-.01000

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3372	Tl1908
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00301	.00167	.00799	.00041	.00066	.00119	.00215
Stddev	.00390	.00313	.00199	.00020	.00076	.00150	.00142
%RSD	129.48	187.57	24.906	48.349	115.93	126.02	65.741

#1	.00226	.00184	.00718	.00019	.00151	.00288	.00266
#2	-.00046	.00471	.01026	.00058	.00004	.00069	.00325
#3	.00723	-.00155	.00654	.00046	.00042	.00000	.00055

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm
Avg	.00013	.00023	F -.14334
Stddev	.00014	.00004	.59042
%RSD	101.44	18.940	411.90

#1	-.00002	.00027	.22935
#2	.00019	.00023	-.82408
#3	.00023	.00018	.16471

Check ?	Chk Pass	Chk Pass	Chk Fail
High Limit			.10000
Low Limit			-.10000

Approved: July 31, 2012



Sample Name: CCB Acquired: 7/30/2012 11:53:33 Type: Blank
Method: ICP-THERMO2_6010_200.7(v2005) Mode: CONC Corr. Factor: 1.000000
User: KHR Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	31434.	17346.
Stddev	96.	670.
%RSD	.30391	3.8639
#1	31400.	18096.
#2	31361.	17138.
#3	31542.	16805.

Approved: July 31, 2012



Sample Name: PBW AC Acquired: 7/30/2012 11:56:46 Type: Unk
 Method: ICP-THERMO2_6010_200.7(v2005) Mode: CONC Corr. Factor: 1.000000
 User: KHR Custom ID1: Custom ID2: Custom ID3:
 Comment: WG404866-02

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00033	-.00400	-.00001	.01137	-.00069	-.00003	.03440
Stddev	.00035	.02746	.00238	.00152	.00062	.00002	.00085
%RSD	105.36	686.31	16023.	13.408	89.505	86.819	2.4629

#1	.00019	-.01300	.00062	.01181	-.00066	-.00001	.03360
#2	.00007	.02683	.00199	.01262	-.00132	-.00002	.03431
#3	.00072	-.02583	-.00265	.00967	-.00009	-.00005	.03528

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	Hf2322	Hf2641
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.00015	.00028	-.00038	.00033	.00670	.00484	.09890
Stddev	.00015	.00011	.00024	.00027	.00467	.00885	.16090
%RSD	99.375	38.916	63.878	82.498	69.695	183.02	162.69

#1	-.00019	.00018	-.00038	.00064	.00203	-.00054	-.05288
#2	-.00027	.00040	-.00014	.00016	.00669	.00000	.08198
#3	.00002	.00026	-.00062	.00018	.01136	.01505	.26759

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Hf2773	Hf3399	K_7664	Li6707	Mg2790	Mn2576	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.88860	1.5868	.22703	.00284	.01133	.00031	.00008
Stddev	.23520	.7050	.04440	.00319	.03239	.00003	.00013
%RSD	26.469	44.430	19.555	112.14	285.87	9.7898	172.12

#1	1.1601	2.1857	.17680	.00453	.02957	.00033	.00001
#2	.74819	.80984	.24327	-.00083	-.02606	.00032	-.00001
#3	.75747	1.7647	.26102	.00484	.03048	.00027	.00023

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: July 31, 2012



Sample Name: PBW AC Acquired: 7/30/2012 11:56:46 Type: Unk
 Method: ICP-THERMO2_6010_200.7(v2005) Mode: CONC Corr. Factor: 1.000000
 User: KHR Custom ID1: Custom ID2: Custom ID3:
 Comment: WG404866-02

Elem	Na5895	Ni2316	P_2149	Pb2203	Rb7800	S_1807	S_1820
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.11076	.00207	F -7.8923	.00078	F -11.101	.67048	F -65.470
Stddev	.03198	.00039	15.604	.00129	4.088	.05258	4.650
%RSD	28.871	18.869	197.71	164.85	36.829	7.8419	7.1030

#1	.14051	.00190	2.4666	.00202	-6.6436	.67676	-64.630
#2	.11483	.00179	-25.839	-.00055	-14.676	.61504	-70.483
#3	.07694	.00252	-.3048	.00087	-11.983	.71964	-61.296

Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Fail	Chk Pass	Chk Fail
High Limit			900.00		9.0000		9.0000
Low Limit			-.00400		-.00400		-.00400

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3372	Tl1908
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00378	-.00004	.02917	.00012	.00014	.00002	.00027
Stddev	.00145	.00041	.00181	.00030	.00038	.00279	.00095
%RSD	38.338	1034.4	6.2113	245.40	280.50	16961.	358.78

#1	.00491	.00041	.02711	-.00021	.00046	-.00316	.00031
#2	.00215	-.00038	.03050	.00023	-.00029	.00206	.00120
#3	.00429	-.00015	.02990	.00035	.00024	.00114	-.00071

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm
Avg	.00037	.00214	.37191
Stddev	.00028	.00007	.17556
%RSD	77.169	3.2264	47.204

#1	.00014	.00209	.19456
#2	.00028	.00211	.54562
#3	.00069	.00222	.37555

Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

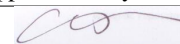
Approved: July 31, 2012



Sample Name: PBW AC Acquired: 7/30/2012 11:56:46 Type: Unk
Method: ICP-THERMO2_6010_200.7(v2005) Mode: CONC Corr. Factor: 1.000000
User: KHR Custom ID1: Custom ID2: Custom ID3:
Comment: WG404866-02

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	32050.	17485.
Stddev	85.	545.
%RSD	.26456	3.1186
#1	32096.	18093.
#2	31953.	17320.
#3	32103.	17041.

Approved: July 31, 2012



Sample Name: LCSW AC Acquired: 7/30/2012 11:59:57 Type: Unk
Method: ICP-THERMO2_6010_200.7(v2005) Mode: CONC Corr. Factor: 1.000000
User: KHR Custom ID1: Custom ID2: Custom ID3:
Comment: WG404866-03

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.21165	5.1955	.20684	1.0510	.51800	.02629	5.1857
Stddev	.00147	.4047	.00082	.0046	.04417	.00010	.4101
%RSD	.69297	7.7892	.39425	.43289	8.5278	.37753	7.9088

#1	.21041	4.7432	.20762	1.0462	.46767	.02629	4.7241
#2	.21127	5.3198	.20600	1.0516	.53599	.02620	5.3252
#3	.21327	5.5234	.20691	1.0553	.55034	.02640	5.5080

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	Hf2322	Hf2641
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.02613	.10584	.25915	.26298	2.0263	.53010	.73145
Stddev	.00012	.00030	.00148	.00132	.1687	.00136	.60399
%RSD	.44432	.28533	.57297	.50189	8.3267	.25697	82.574

#1	.02607	.10615	.26030	.26418	1.8346	.52860	1.4280
#2	.02626	.10555	.25747	.26320	2.0922	.53126	.41428
#3	.02605	.10583	.25967	.26157	2.1522	.53044	.35212


Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Hf2773	Hf3399	K_7664	Li6707	Mg2790	Mn2576	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.51060	.55241	25.723	.54572	5.1391	.26650	.52447
Stddev	.30959	1.0184	2.079	.04494	.3760	.01119	.00040
%RSD	60.631	184.35	8.0841	8.2344	7.3170	4.1971	.07695

#1	.63471	.20987	23.383	.49393	4.7097	.25385	.52439
#2	.73888	-.25051	26.422	.56889	5.2976	.27061	.52490
#3	.15822	1.6979	27.362	.57434	5.4098	.27506	.52411

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: July 31, 2012



Sample Name: LCSW AC Acquired: 7/30/2012 11:59:57 Type: Unk
 Method: ICP-THERMO2_6010_200.7(v2005) Mode: CONC Corr. Factor: 1.000000
 User: KHR Custom ID1: Custom ID2: Custom ID3:
 Comment: WG404866-03

Elem	Na5895	Ni2316	P_2149	Pb2203	Rb7800	S_1807	S_1820
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	26.720	.26136	8.5470	.26077	F -8.4200	6.1288	F -68.332
Stddev	2.150	.00098	11.923	.00222	14.058	.0019	1.772
%RSD	8.0450	.37586	139.49	.84970	166.96	.03018	2.5928

#1	24.262	.26226	2.5176	.26203	-22.448	6.1297	-69.997
#2	27.648	.26152	.84339	.26206	5.6678	6.1300	-68.528
#3	28.249	.26031	22.280	.25821	-8.4798	6.1267	-66.470

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Fail
High Limit					9.0000		9.0000
Low Limit					-.00400		-.00400

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3372	Tl1908
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.62274	.21239	2.5235	.47538	.50847	.52277	.26431
Stddev	.00378	.00079	.0218	.00182	.04111	.04122	.00102
%RSD	.60689	.37376	.86506	.38263	8.0843	7.8847	.38436

#1	.61838	.21155	2.5100	.47376	.46162	.47583	.26320
#2	.62485	.21249	2.5487	.47734	.52533	.53941	.26454
#3	.62500	.21313	2.5118	.47504	.53847	.55306	.26520

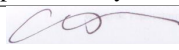
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm
Avg	.52105	.52766	.53531
Stddev	.00276	.00087	.52629
%RSD	.52919	.16550	98.314

#1	.52164	.52815	.15771
#2	.51804	.52818	.31175
#3	.52346	.52665	1.1365

Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

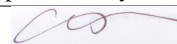
Approved: July 31, 2012



Sample Name: LCSW AC Acquired: 7/30/2012 11:59:57 Type: Unk
Method: ICP-THERMO2_6010_200.7(v2005) Mode: CONC Corr. Factor: 1.000000
User: KHR Custom ID1: Custom ID2: Custom ID3:
Comment: WG404866-03

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	31875.	17769.
Stddev	125.	676.
%RSD	.39095	3.8028
#1	31772.	18549.
#2	31840.	17397.
#3	32013.	17361.

Approved: July 31, 2012



Sample Name: L1207079206 Acquired: 7/30/2012 12:03:03 Type: Unk
 Method: ICP-THERMO2_6010_200.7(v2005) Mode: CONC Corr. Factor: 1.000000
 User: KHR Custom ID1: Custom ID2: Custom ID3:
 Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00020	1.4706	-.00069	.04851	.02631	.00011	44.176
Stddev	.00092	.0801	.00068	.00108	.00245	.00005	3.668
%RSD	458.45	5.4445	98.010	2.2242	9.3040	46.117	8.3034

#1	.00079	1.3799	.00002	.04951	.02348	.00015	40.004
#2	-.00086	1.5314	-.00077	.04866	.02782	.00011	45.631
#3	.00068	1.5005	-.00133	.04737	.02762	.00006	46.894

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	Hf2322	Hf2641
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00013	.00375	.00614	.00107	4.1759	.22434	.53128
Stddev	.00005	.00017	.00010	.00058	.3702	.00492	.46410
%RSD	36.827	4.5543	1.6845	53.916	8.8644	2.1920	87.356

#1	.00018	.00392	.00619	.00166	3.7541	.23001	.02974
#2	.00012	.00375	.00620	.00107	4.3268	.22172	.61854
#3	.00008	.00358	.00602	.00050	4.4467	.22129	.94556


Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Hf2773	Hf3399	K_7664	Li6707	Mg2790	Mn2576	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.0106	.81677	27.562	.01843	5.1172	.06927	.00110
Stddev	.4861	1.3717	2.262	.00310	.4556	.00323	.00011
%RSD	48.102	167.94	8.2061	16.825	8.9025	4.6572	9.9236

#1	1.5710	2.3956	24.990	.01485	4.5949	.06555	.00100
#2	.75855	.13695	28.453	.02014	5.3239	.07106	.00108
#3	.70227	-.08220	29.242	.02030	5.4327	.07120	.00122

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: July 31, 2012



Sample Name: L1207079206 Acquired: 7/30/2012 12:03:03 Type: Unk
 Method: ICP-THERMO2_6010_200.7(v2005) Mode: CONC Corr. Factor: 1.000000
 User: KHR Custom ID1: Custom ID2: Custom ID3:
 Comment:

Elem	Na5895	Ni2316	P_2149	Pb2203	Rb7800	S_1807	S_1820
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	62.921	.00547	F 15553.	.00395	F -5.7431	F 69.628	F -2345.2
Stddev	5.392	.00021	25.	.00148	10.847	.150	1.7
%RSD	8.5687	3.8553	.16191	37.387	188.87	.21533	.07192

#1	56.768	.00571	15524.	.00509	-14.905	69.506	-2346.4
#2	65.171	.00532	15566.	.00447	6.2336	69.795	-2345.9
#3	66.822	.00537	15570.	.00228	-8.5579	69.583	-2343.3

Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Fail	Chk Fail	Chk Fail
High Limit			900.00		9.0000	9.0000	9.0000
Low Limit			-.00400		-.00400	-.00400	-.00400

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3372	Tl1908
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00184	-.00062	24.732	.00031	.20108	.01838	.00204
Stddev	.00319	.00103	.288	.00007	.01679	.00323	.00039
%RSD	172.91	166.08	1.1640	23.064	8.3523	17.593	19.154

#1	.00271	-.00051	24.450	.00031	.18188	.01548	.00164
#2	.00451	-.00171	25.026	.00024	.20829	.01779	.00206
#3	-.00169	.00035	24.719	.00039	.21306	.02186	.00242

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm
Avg	.00554	.02025	1.8256
Stddev	.00032	.00013	.0879
%RSD	5.8047	.63526	4.8155

#1	.00545	.02010	1.8046
#2	.00590	.02032	1.9222
#3	.00528	.02032	1.7502

Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Approved: July 31, 2012



Sample Name: L1207079206 Acquired: 7/30/2012 12:03:03 Type: Unk
Method: ICP-THERMO2_6010_200.7(v2005) Mode: CONC Corr. Factor: 1.000000
User: KHR Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	30825.	17317.
Stddev	69.	773.
%RSD	.22538	4.4636
#1	30748.	18209.
#2	30844.	16895.
#3	30884.	16846.

Approved: July 31, 2012



Sample Name: L1207079207 Acquired: 7/30/2012 12:06:11 Type: Unk
 Method: ICP-THERMO2_6010_200.7(v2005) Mode: CONC Corr. Factor: 1.000000
 User: KHR Custom ID1: Custom ID2: Custom ID3:
 Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00036	.01321	-.00029	.03865	.08923	.00010	152.02
Stddev	.00017	.04879	.00093	.00132	.00754	.00002	12.30
%RSD	47.678	369.27	322.42	3.4090	8.4496	15.430	8.0937

#1	.00036	-.02695	-.00058	.03714	.08076	.00010	138.15
#2	.00052	.06751	.00075	.03959	.09173	.00012	156.27
#3	.00018	-.00093	-.00103	.03921	.09520	.00009	161.64

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	Hf2322	Hf2641
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00004	.00018	-.00017	-.00029	20.039	.88671	1.0854
Stddev	.00003	.00012	.00052	.00121	1.696	.00092	.8699
%RSD	80.175	66.476	300.52	415.11	8.4659	.10331	80.142

#1	.00007	.00025	.00012	.00104	18.131	.88568	1.0235
#2	.00000	.00025	-.00077	-.00059	20.608	.88744	.24816
#3	.00005	.00004	.00013	-.00133	21.378	.88701	1.9846

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Hf2773	Hf3399	K_7664	Li6707	Mg2790	Mn2576	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.36043	.49342	3.3748	.02893	14.166	.13781	.00039
Stddev	.63547	.91936	.2323	.00377	1.203	.00615	.00032
%RSD	176.31	186.32	6.8829	13.039	8.4919	4.4648	81.220

#1	-.07994	1.1703	3.1076	.02458	12.832	.13125	.00003
#2	.07230	.86323	3.4883	.03126	14.495	.13872	.00054
#3	1.0889	-.55326	3.5286	.03095	15.169	.14345	.00060

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: July 31, 2012



Sample Name: L1207079207 Acquired: 7/30/2012 12:06:11 Type: Unk
 Method: ICP-THERMO2_6010_200.7(v2005) Mode: CONC Corr. Factor: 1.000000
 User: KHR Custom ID1: Custom ID2: Custom ID3:
 Comment:

Elem	Na5895	Ni2316	P_2149	Pb2203	Rb7800	S_1807	S_1820
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	18.900	.00292	F 2593.8	.00432	F -10.633	F 179.44	F -1759.7
Stddev	1.460	.00085	15.7	.00151	6.499	.54	7.4
%RSD	7.7240	28.950	.60438	35.095	61.120	.29827	.42138

#1	17.258	.00281	2580.2	.00588	-17.484	180.02	-1757.1
#2	19.390	.00214	2610.9	.00286	-4.5553	179.34	-1768.1
#3	20.052	.00382	2590.3	.00421	-9.8595	178.96	-1753.9

Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Fail	Chk Fail	Chk Fail
High Limit			900.00		9.0000	9.0000	9.0000
Low Limit			-.00400		-.00400	-.00400	-.00400

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3372	Tl1908
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00374	-.00339	21.737	-.00002	.76259	-.00150	.00214
Stddev	.00158	.00194	.116	.00027	.06418	.00265	.00184
%RSD	42.287	57.397	.53204	1249.1	8.4163	176.17	85.826

#1	.00554	-.00120	21.845	.00017	.69052	-.00177	.00426
#2	.00256	-.00402	21.751	-.00034	.78367	.00127	.00095
#3	.00313	-.00493	21.615	.00010	.81359	-.00401	.00122

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm
Avg	.00097	.00167	F -1.0528
Stddev	.00044	.00004	.2805
%RSD	45.147	2.4555	26.644

#1	.00076	.00167	-1.3056
#2	.00148	.00171	-.75100
#3	.00068	.00163	-1.1019

Check ?	Chk Pass	Chk Pass	Chk Fail
High Limit			45.000
Low Limit			-.00400

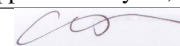
Approved: July 31, 2012



Sample Name: L1207079207 Acquired: 7/30/2012 12:06:11 Type: Unk
Method: ICP-THERMO2_6010_200.7(v2005) Mode: CONC Corr. Factor: 1.000000
User: KHR Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	31485.	17502.
Stddev	96.	683.
%RSD	.30628	3.9006
#1	31436.	18237.
#2	31424.	17382.
#3	31597.	16888.

Approved: July 31, 2012



Sample Name: L1207079208 Acquired: 7/30/2012 12:09:16 Type: Unk
 Method: ICP-THERMO2_6010_200.7(v2005) Mode: CONC Corr. Factor: 1.000000
 User: KHR Custom ID1: Custom ID2: Custom ID3:
 Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00069	.00385	.00161	.02918	.10458	.00003	148.52
Stddev	.00090	.07518	.00172	.00145	.00962	.00002	13.37
%RSD	129.82	1950.7	106.73	4.9655	9.1940	95.462	9.0047

#1	.00084	-.08239	-.00036	.02775	.09350	.00001	133.22
#2	-.00027	.03842	.00281	.03064	.10960	.00005	154.38
#3	.00151	.05553	.00238	.02916	.11066	.00002	157.97

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	Hf2322	Hf2641
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00002	.00050	.00246	-.00139	12.638	.73211	1.1770
Stddev	.00005	.00032	.00033	.00071	1.113	.00278	.5778
%RSD	228.02	64.246	13.298	50.756	8.8088	.38017	49.091

#1	.00008	.00084	.00222	-.00073	11.367	.73209	.68919
#2	-.00002	.00048	.00283	-.00130	13.101	.72934	1.0267
#3	.00001	.00019	.00233	-.00214	13.444	.73491	1.8151

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Hf2773	Hf3399	K_7664	Li6707	Mg2790	Mn2576	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F -.12033	.80205	13.134	.02975	12.270	.21662	.00030
Stddev	.17983	.73624	1.236	.00702	1.008	.00908	.00022
%RSD	149.44	91.795	9.4082	23.609	8.2110	4.1896	72.327

#1	-.28481	.19044	11.715	.02237	11.113	.20618	.00043
#2	.07167	.59648	13.712	.03051	12.745	.22111	.00044
#3	-.14785	1.6192	13.975	.03636	12.953	.22258	.00005

Check ?	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	45.000						
Low Limit	-.10000						

Approved: July 31, 2012



Sample Name: L1207079208 Acquired: 7/30/2012 12:09:16 Type: Unk
 Method: ICP-THERMO2_6010_200.7(v2005) Mode: CONC Corr. Factor: 1.000000
 User: KHR Custom ID1: Custom ID2: Custom ID3:
 Comment:

Elem	Na5895	Ni2316	P_2149	Pb2203	Rb7800	S_1807	S_1820
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	22.673	.00262	F 1153.3	.00354	F -15.340	F 166.87	F -847.87
Stddev	1.996	.00060	9.4	.00105	12.026	.58	7.97
%RSD	8.8040	23.020	.81845	29.681	78.394	.34920	.93980

#1	20.393	.00326	1145.7	.00475	-28.113	167.38	-857.07
#2	23.518	.00254	1150.5	.00290	-4.2356	166.98	-842.97
#3	24.106	.00206	1163.9	.00296	-13.672	166.23	-843.58

Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Fail	Chk Fail	Chk Fail
High Limit			900.00		9.0000	9.0000	9.0000
Low Limit			-.00400		-.00400	-.00400	-.00400

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3372	Tl1908
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00458	-.00070	17.326	-.00010	.64926	-.00027	.00289
Stddev	.00166	.00122	.105	.00017	.05976	.00198	.00201
%RSD	36.226	175.83	.60517	167.89	9.2042	740.57	69.471

#1	.00349	.00065	17.403	.00002	.58089	.00126	.00200
#2	.00376	-.00174	17.368	-.00002	.67534	.00043	.00149
#3	.00649	-.00100	17.206	-.00029	.69154	-.00250	.00519

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm
Avg	.00141	.00205	F -.60247
Stddev	.00009	.00005	.48973
%RSD	6.4718	2.5958	81.286

#1	.00149	.00211	-.05387
#2	.00131	.00201	-.75799
#3	.00142	.00201	-.99556

Check ?	Chk Pass	Chk Pass	Chk Fail
High Limit			45.000
Low Limit			-.00400

Approved: July 31, 2012



Sample Name: L1207079208 Acquired: 7/30/2012 12:09:16 Type: Unk
Method: ICP-THERMO2_6010_200.7(v2005) Mode: CONC Corr. Factor: 1.000000
User: KHR Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	31436.	17925.
Stddev	53.	808.
%RSD	.16889	4.5081
#1	31472.	18858.
#2	31461.	17465.
#3	31375.	17453.

Approved: July 31, 2012



Sample Name: L1207079209 Acquired: 7/30/2012 12:12:21 Type: Unk
 Method: ICP-THERMO2_6010_200.7(v2005) Mode: CONC Corr. Factor: 1.000000
 User: KHR Custom ID1: Custom ID2: Custom ID3:
 Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00049	1.7895	.00748	.01673	.12015	.00023	26.356
Stddev	.00058	.2133	.00157	.00182	.01043	.00004	2.359
%RSD	117.78	11.920	20.962	10.870	8.6826	18.398	8.9514

#1	-.00014	1.5437	.00861	.01467	.10817	.00018	23.657
#2	.00061	1.9262	.00814	.01812	.12507	.00026	27.391
#3	.00101	1.8985	.00569	.01740	.12722	.00025	28.021

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	Hf2322	Hf2641
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.00020	.00259	.00959	.00520	16.821	.30087	.07451
Stddev	.00005	.00012	.00026	.00090	1.607	.00582	.35767
%RSD	22.804	4.5738	2.6806	17.353	9.5537	1.9346	480.01

#1	-.00024	.00261	.00984	.00610	14.984	.30736	-.28436
#2	-.00015	.00269	.00932	.00519	17.515	.29914	.07694
#3	-.00019	.00246	.00962	.00430	17.965	.29611	.43097


Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Hf2773	Hf3399	K_7664	Li6707	Mg2790	Mn2576	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.7105	.77249	57.225	.00813	5.1104	.15572	.00129
Stddev	.5045	.76969	5.422	.00561	.5108	.00827	.00015
%RSD	29.497	99.638	9.4754	69.012	9.9951	5.3120	11.519

#1	2.0234	-.04414	51.020	.00179	4.5296	.14620	.00118
#2	1.1284	.87706	59.603	.01245	5.3122	.15973	.00122
#3	1.9796	1.4845	61.052	.01015	5.4895	.16121	.00146

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: July 31, 2012



Sample Name: L1207079209 Acquired: 7/30/2012 12:12:21 Type: Unk
 Method: ICP-THERMO2_6010_200.7(v2005) Mode: CONC Corr. Factor: 1.000000
 User: KHR Custom ID1: Custom ID2: Custom ID3:
 Comment:

Elem	Na5895	Ni2316	P_2149	Pb2203	Rb7800	S_1807	S_1820
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	67.582	.00978	F 11110.	.00474	F -16.538	F 122.59	F -9511.6
Stddev	6.359	.00049	29.	.00201	9.385	.22	14.4
%RSD	9.4098	5.0360	.25947	42.451	56.745	.18112	.15134

#1	60.306	.01006	11143.	.00403	-26.533	122.42	-9498.2
#2	70.365	.01006	11089.	.00701	-7.9155	122.52	-9509.8
#3	72.075	.00921	11099.	.00318	-15.165	122.84	-9526.8

Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Fail	Chk Fail	Chk Fail
High Limit			900.00		9.0000	9.0000	9.0000
Low Limit			-.00400		-.00400	-.00400	-.00400

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3372	Tl1908
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00270	-.00254	17.553	.00027	.19943	.02702	.00234
Stddev	.00281	.00114	.040	.00024	.01872	.00343	.00235
%RSD	104.19	45.094	.22640	86.819	9.3868	12.690	100.30

#1	.00095	-.00203	17.526	.00055	.17797	.02310	-.00032
#2	.00120	-.00173	17.535	.00010	.20789	.02945	.00323
#3	.00594	-.00384	17.599	.00018	.21242	.02850	.00411

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm
Avg	.01784	.35232	3.2406
Stddev	.00006	.00038	.1631
%RSD	.34435	.10842	5.0323

#1	.01779	.35235	3.4179
#2	.01782	.35192	3.0969
#3	.01791	.35269	3.2071

Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Approved: July 31, 2012



Sample Name: L1207079209 Acquired: 7/30/2012 12:12:21 Type: Unk
Method: ICP-THERMO2_6010_200.7(v2005) Mode: CONC Corr. Factor: 1.000000
User: KHR Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	31267.	17900.
Stddev	13.	832.
%RSD	.04054	4.6507
#1	31281.	18860.
#2	31265.	17462.
#3	31256.	17378.

Approved: July 31, 2012



Sample Name: L1207079210 Acquired: 7/30/2012 12:15:25 Type: Unk
 Method: ICP-THERMO2_6010_200.7(v2005) Mode: CONC Corr. Factor: 1.000000
 User: KHR Custom ID1: Custom ID2: Custom ID3:
 Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.00008	3.4401	.01435	.01725	.17320	.00026	181.33
Stddev	.00025	.2873	.00144	.00085	.01481	.00003	14.54
%RSD	332.78	8.3506	10.001	4.9489	8.5511	10.298	8.0161

#1	.00004	3.1088	.01412	.01627	.15632	.00027	164.79
#2	.00009	3.5909	.01589	.01766	.17925	.00023	187.13
#3	-.00037	3.6205	.01305	.01783	.18402	.00027	192.07

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	Hf2322	Hf2641
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.00017	.00095	.00428	.00207	29.419	1.2456	1.4986
Stddev	.00017	.00032	.00035	.00167	2.553	.0040	.2755
%RSD	102.05	33.899	8.1985	80.723	8.6784	.32232	18.382

#1	-.00019	.00090	.00420	.00396	26.517	1.2420	1.4897
#2	.00002	.00129	.00398	.00079	30.417	1.2499	1.2276
#3	-.00032	.00065	.00467	.00146	31.322	1.2449	1.7784

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Hf2773	Hf3399	K_7664	Li6707	Mg2790	Mn2576	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.92672	.22428	4.4387	.02642	19.599	.48815	.00160
Stddev	.53351	.45088	.2322	.00694	1.805	.02042	.00014
%RSD	57.570	201.03	5.2320	26.259	9.2101	4.1825	8.6352

#1	1.4035	.66614	4.1904	.01870	17.574	.46509	.00156
#2	.35048	-.23510	4.4754	.02843	20.187	.49542	.00149
#3	1.0262	.24181	4.6505	.03213	21.038	.50393	.00176

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: July 31, 2012



Sample Name: L1207079210 Acquired: 7/30/2012 12:15:25 Type: Unk
 Method: ICP-THERMO2_6010_200.7(v2005) Mode: CONC Corr. Factor: 1.000000
 User: KHR Custom ID1: Custom ID2: Custom ID3:
 Comment:

Elem	Na5895	Ni2316	P_2149	Pb2203	Rb7800	S_1807	S_1820
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	34.649	.00663	F 1127.1	.00807	F -19.560	F 235.91	F -3932.4
Stddev	2.894	.00101	12.4	.00251	4.124	.63	9.5
%RSD	8.3533	15.253	1.1000	31.090	21.085	.26762	.24246

#1	31.344	.00663	1115.5	.00686	-24.258	235.87	-3938.9
#2	35.875	.00561	1125.6	.01095	-16.538	235.30	-3921.5
#3	36.729	.00764	1140.1	.00639	-17.883	236.56	-3936.8

Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Fail	Chk Fail	Chk Fail
High Limit			900.00		9.0000	9.0000	9.0000
Low Limit			-.00400		-.00400	-.00400	-.00400

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3372	Tl1908
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00215	-.00157	24.626	.00003	1.0589	.02789	.00389
Stddev	.00218	.00149	.263	.00034	.0909	.00163	.00054
%RSD	101.45	94.921	1.0673	1235.6	8.5800	5.8317	13.872

#1	.00456	-.00019	24.553	.00029	.95557	.02809	.00360
#2	.00032	-.00138	24.407	-.00036	1.0947	.02618	.00451
#3	.00157	-.00315	24.917	.00016	1.1264	.02941	.00356

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm
Avg	.00563	.02627	F -1.3327
Stddev	.00048	.00010	.2342
%RSD	8.5891	.39812	17.575

#1	.00552	.02622	-1.0652
#2	.00616	.02619	-1.5011
#3	.00522	.02639	-1.4318

Check ?	Chk Pass	Chk Pass	Chk Fail
High Limit			45.000
Low Limit			-.00400

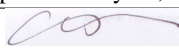
Approved: July 31, 2012



Sample Name: L1207079210 Acquired: 7/30/2012 12:15:25 Type: Unk
Method: ICP-THERMO2_6010_200.7(v2005) Mode: CONC Corr. Factor: 1.000000
User: KHR Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	31162.	17712.
Stddev	199.	662.
%RSD	.63818	3.7400
#1	31328.	18464.
#2	31218.	17453.
#3	30942.	17217.

Approved: July 31, 2012



Sample Name: L1207079211 Acquired: 7/30/2012 12:18:31 Type: Unk
 Method: ICP-THERMO2_6010_200.7(v2005) Mode: CONC Corr. Factor: 1.000000
 User: KHR Custom ID1: Custom ID2: Custom ID3:
 Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-0.0060	.04264	-0.0136	.03167	.09242	.00005	166.01
Stddev	.00041	.00958	.00062	.00094	.00511	.00003	10.87
%RSD	67.595	22.466	45.388	2.9658	5.5252	76.165	6.5461

#1	-0.0096	.03164	-0.0101	.03273	.08654	.00004	153.65
#2	-0.0069	.04916	-0.0100	.03094	.09504	.00002	170.28
#3	-0.0016	.04713	-0.0208	.03134	.09569	.00008	174.09

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	Hf2322	Hf2641
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00006	.00037	.00248	-0.0083	10.373	.79844	1.1452
Stddev	.00007	.00022	.00059	.00053	.673	.00624	.2148
%RSD	126.71	58.978	23.870	63.764	6.4893	.78098	18.761

#1	.00012	.00042	.00182	-0.0023	9.6094	.79284	1.1929
#2	-0.0002	.00013	.00297	-0.0103	10.630	.80516	.91047
#3	.00008	.00056	.00265	-0.0124	10.880	.79732	1.3321

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Hf2773	Hf3399	K_7664	Li6707	Mg2790	Mn2576	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.86527	.58585	8.0595	.02353	12.296	.20717	-0.0036
Stddev	.83280	.87459	.4964	.00709	.851	.00731	.00022
%RSD	96.247	149.29	6.1590	30.140	6.9195	3.5274	62.951

#1	-0.09364	1.1854	7.5059	.03134	11.316	.19889	-0.0014
#2	1.2821	-4.1771	8.2076	.02174	12.733	.20989	-0.0034
#3	1.4074	.98985	8.4650	.01750	12.840	.21273	-0.0059

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: July 31, 2012



Sample Name: L1207079211 Acquired: 7/30/2012 12:18:31 Type: Unk
 Method: ICP-THERMO2_6010_200.7(v2005) Mode: CONC Corr. Factor: 1.000000
 User: KHR Custom ID1: Custom ID2: Custom ID3:
 Comment:

Elem	Na5895	Ni2316	P_2149	Pb2203	Rb7800	S_1807	S_1820
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	24.711	.00714	F 1193.9	.00429	F -6.4912	F 208.11	F -3350.1
Stddev	1.686	.00028	4.3	.00137	4.1938	.52	11.1
%RSD	6.8213	3.9861	.35708	31.960	64.607	.25069	.33059

#1	22.794	.00711	1190.5	.00580	-11.226	208.62	-3359.2
#2	25.372	.00686	1198.7	.00312	-5.0013	208.13	-3353.3
#3	25.965	.00743	1192.7	.00395	-3.2457	207.58	-3337.8

Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Fail	Chk Fail	Chk Fail
High Limit			900.00		9.0000	9.0000	9.0000
Low Limit			-.00400		-.00400	-.00400	-.00400

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3372	Tl1908
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00216	-.00002	19.834	-.00034	.74973	-.00189	.00204
Stddev	.00553	.00129	.120	.00018	.05025	.00363	.00316
%RSD	256.22	7324.7	.60493	51.483	6.7021	192.42	154.74

#1	-.00038	-.00038	19.973	-.00043	.69270	.00226	.00300
#2	-.00164	.00141	19.764	-.00014	.76901	-.00447	-.00148
#3	.00850	-.00109	19.766	-.00046	.78748	-.00346	.00461

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm
Avg	.00192	.00259	F -.74062
Stddev	.00044	.00012	.38979
%RSD	22.884	4.5339	52.631

#1	.00240	.00251	-1.0973
#2	.00185	.00272	-.80006
#3	.00153	.00253	-.32452

Check ?	Chk Pass	Chk Pass	Chk Fail
High Limit			45.000
Low Limit			-.00400

Approved: July 31, 2012



Sample Name: L1207079211 Acquired: 7/30/2012 12:18:31 Type: Unk
Method: ICP-THERMO2_6010_200.7(v2005) Mode: CONC Corr. Factor: 1.000000
User: KHR Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	31241.	17284.
Stddev	26.	526.
%RSD	.08403	3.0425
#1	31262.	17878.
#2	31248.	17096.
#3	31211.	16878.

Approved: July 31, 2012



Sample Name: L1207079211PS Acquired: 7/30/2012 12:21:37 Type: Unk
 Method: ICP-THERMO2_6010_200.7(v2005) Mode: CONC Corr. Factor: 1.000000
 User: KHR Custom ID1: Custom ID2: Custom ID3:
 Comment: WG404921-01

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.20783	5.2190	.20318	1.0571	.58716	.02669	151.14
Stddev	.00317	.5363	.00275	.0133	.05178	.00039	12.18
%RSD	1.5264	10.277	1.3520	1.2593	8.8194	1.4543	8.0604

#1	.20513	4.6050	.20077	1.0482	.52792	.02633	137.12
#2	.20703	5.4563	.20259	1.0508	.60977	.02664	157.19
#3	.21132	5.5958	.20617	1.0724	.62379	.02710	159.12

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	Hf2322	Hf2641
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.02556	.10176	.25426	.25439	11.110	1.2135	1.1003
Stddev	.00009	.00008	.00304	.00055	.977	.0043	.3778
%RSD	.34547	.08172	1.1939	.21627	8.7965	.35268	34.338

#1	.02548	.10185	.25227	.25502	9.9924	1.2131	1.4648
#2	.02553	.10175	.25275	.25418	11.530	1.2093	1.1255
#3	.02565	.10169	.25775	.25398	11.806	1.2179	.71043

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Hf2773	Hf3399	K_7664	Li6707	Mg2790	Mn2576	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F -.12381	1.1461	32.376	.55477	15.716	.44795	.51134
Stddev	.42401	1.3565	2.768	.04793	1.338	.02436	.00051
%RSD	342.47	118.36	8.5508	8.6391	8.5153	5.4390	.09933

#1	.35929	-.18562	29.186	.49999	14.190	.42039	.51077
#2	-.43423	1.0979	33.793	.57535	16.267	.45681	.51173
#3	-.29649	2.5260	34.149	.58897	16.691	.46664	.51153

Check ?	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	45.000						
Low Limit	-.10000						

Approved: July 31, 2012



Sample Name: L1207079211PS Acquired: 7/30/2012 12:21:37 Type: Unk
 Method: ICP-THERMO2_6010_200.7(v2005) Mode: CONC Corr. Factor: 1.000000
 User: KHR Custom ID1: Custom ID2: Custom ID3:
 Comment: WG404921-01

Elem	Na5895	Ni2316	P_2149	Pb2203	Rb7800	S_1807	S_1820
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	47.300	.25668	F 1092.9	.25286	F -6.9360	F 190.60	F -3037.1
Stddev	3.982	.00160	19.9	.00061	13.434	.51	4.9
%RSD	8.4197	.62529	1.8218	.24099	193.69	.26782	.16000

#1	42.751	.25797	1074.1	.25243	-10.579	191.19	-3034.7
#2	48.992	.25718	1090.8	.25356	-18.173	190.34	-3042.7
#3	50.157	.25488	1113.8	.25260	7.9442	190.27	-3033.9

Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Fail	Chk Fail	Chk Fail
High Limit			900.00		9.0000	9.0000	9.0000
Low Limit			-.00400		-.00400	-.00400	-.00400

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3372	Tl1908
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.59590	.20329	20.435	.00181	1.1547	.52245	.24630
Stddev	.00361	.00186	.083	.00040	.0967	.04193	.00218
%RSD	.60598	.91683	.40534	21.897	8.3735	8.0264	.88648

#1	.59584	.20542	20.467	.00149	1.0435	.47407	.24836
#2	.59954	.20198	20.496	.00226	1.2018	.54497	.24401
#3	.59232	.20246	20.340	.00170	1.2188	.54832	.24652

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm
Avg	.51649	.51019	F -.09335
Stddev	.00765	.00019	.46837
%RSD	1.4806	.03676	501.73

#1	.51003	.51032	-.26284
#2	.51450	.51028	.43617
#3	.52493	.50998	-.45339

Check ?	Chk Pass	Chk Pass	Chk Fail
High Limit			45.000
Low Limit			-.00400

Approved: July 31, 2012



Sample Name: L1207079211PS Acquired: 7/30/2012 12:21:37 Type: Unk
Method: ICP-THERMO2_6010_200.7(v2005) Mode: CONC Corr. Factor: 1.000000
User: KHR Custom ID1: Custom ID2: Custom ID3:
Comment: WG404921-01

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	31164.	17479.
Stddev	143.	792.
%RSD	.45731	4.5310
#1	31221.	18388.
#2	31269.	17113.
#3	31001.	16936.

Approved: July 31, 2012



Sample Name: L1207079211SDL Acquired: 7/30/2012 12:24:46 Type: Unk
 Method: ICP-THERMO2_6010_200.7(v2005) Mode: CONC Corr. Factor: 1.000000
 User: KHR Custom ID1: 5 Custom ID2: Custom ID3:
 Comment: WG404921-02

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.00054	-.03404	.00007	.01066	.01965	-.00001	36.620
Stddev	.00125	.02980	.00102	.00141	.00202	.00002	2.866
%RSD	228.87	87.539	1364.4	13.199	10.285	185.89	7.8249

#1	-.00194	.00034	.00092	.01188	.01734	-.00003	33.351
#2	-.00016	-.04999	-.00105	.00912	.02054	.00001	37.813
#3	.00046	-.05248	.00035	.01098	.02108	-.00002	38.696

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	Hf2322	Hf2641
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.00003	.00033	-.00002	.00064	2.2411	.18271	.52224
Stddev	.00007	.00012	.00017	.00047	.2010	.00040	.36570
%RSD	250.37	34.770	800.89	73.861	8.9678	.21819	70.025

#1	-.00004	.00025	-.00014	.00083	2.0111	.18260	.39507
#2	.00005	.00028	-.00010	.00010	2.3297	.18315	.23711
#3	-.00010	.00047	.00018	.00098	2.3826	.18238	.93455

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Hf2773	Hf3399	K_7664	Li6707	Mg2790	Mn2576	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.94277	.27516	1.9190	.00897	2.7051	.04673	.00011
Stddev	.33211	.70163	.2488	.00383	.2055	.00268	.00021
%RSD	35.227	254.99	12.966	42.714	7.5963	5.7419	195.66

#1	.59710	.42461	1.6318	.01305	2.4731	.04376	-.00012
#2	1.2594	-.48915	2.0673	.00544	2.7779	.04745	.00028
#3	.97180	.89003	2.0580	.00842	2.8643	.04897	.00015

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: July 31, 2012



Sample Name: L1207079211SDL Acquired: 7/30/2012 12:24:46 Type: Unk
 Method: ICP-THERMO2_6010_200.7(v2005) Mode: CONC Corr. Factor: 1.000000
 User: KHR Custom ID1: 5 Custom ID2: Custom ID3:
 Comment: WG404921-02

Elem	Na5895	Ni2316	P_2149	Pb2203	Rb7800	S_1807	S_1820
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	5.4889	.00264	260.66	.00267	.06902	F 47.477	F -733.62
Stddev	.4161	.00046	11.33	.00094	1.5882	.188	4.87
%RSD	7.5803	17.294	4.3472	35.269	2301.1	.39680	.66393

#1	5.0186	.00290	255.49	.00261	-1.1924	47.359	-729.81
#2	5.6391	.00211	273.66	.00363	1.8525	47.377	-739.11
#3	5.8090	.00290	252.84	.00175	-4.5306	47.694	-731.93

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Fail
High Limit						9.0000	9.0000
Low Limit						-0.0400	-0.0400

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3372	Tl1908
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00430	-0.0023	4.3443	-0.0017	.16045	-0.0090	.00013
Stddev	.00136	.00390	.0645	.00054	.01318	.00265	.00106
%RSD	31.724	1694.8	1.4859	325.83	8.2127	295.56	831.16

#1	.00567	.00316	4.3053	.00043	.14537	.00165	-0.0103
#2	.00427	.00063	4.3088	-0.0062	.16625	-0.00364	.00035
#3	.00295	-0.00448	4.4188	-0.0031	.16973	-0.00070	.00106

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm
Avg	.00044	.00150	F -.20450
Stddev	.00026	.00004	.42433
%RSD	60.170	2.9229	207.50

#1	.00050	.00154	.25043
#2	.00066	.00150	-5.8956
#3	.00015	.00145	-2.7436

Check ?	Chk Pass	Chk Pass	Chk Fail
High Limit			45.000
Low Limit			-0.00400

Approved: July 31, 2012



Sample Name: L1207079211SDL Acquired: 7/30/2012 12:24:46 Type: Unk
Method: ICP-THERMO2_6010_200.7(v2005) Mode: CONC Corr. Factor: 1.000000
User: KHR Custom ID1: 5 Custom ID2: Custom ID3:
Comment: WG404921-02

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	31615.	17677.
Stddev	139.	930.
%RSD	.43819	5.2604
#1	31469.	18701.
#2	31745.	17446.
#3	31631.	16885.

Approved: July 31, 2012



Sample Name: CCV Acquired: 7/30/2012 12:28:01 Type: QC
 Method: ICP-THERMO2_6010_200.7(v2005) Mode: CONC Corr. Factor: 1.000000
 User: KHR Custom ID1: Custom ID2: Custom ID3:
 Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.40950	10.184	.41060	.51378	1.0140	.05137	10.181
Stddev	.00270	.993	.00121	.00500	.0998	.00020	.996
%RSD	.65968	9.7466	.29379	.97407	9.8425	.39404	9.7867

#1	.41198	9.0454	.40963	.51738	.90028	.05158	9.0410
#2	.40990	10.640	.41195	.51588	1.0549	.05137	10.618
#3	.40662	10.867	.41021	.50806	1.0869	.05117	10.884

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	Hf2322	Hf2641
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.05172	.20617	.50543	.51693	4.0147	1.0302	F .56206
Stddev	.00020	.00031	.00427	.00158	.3925	.0068	.27248
%RSD	.38829	.14920	.84568	.30615	9.7767	.66418	48.478

#1	.05193	.20635	.50974	.51702	3.5658	1.0334	.79181
#2	.05168	.20634	.50538	.51847	4.1848	1.0348	.26103
#3	.05153	.20581	.50119	.51531	4.2934	1.0223	.63335

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
Value							1.0000
Range							-10.000%

Elem	Hf2773	Hf3399	K_7664	Li6707	Mg2790	Mn2576	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F -.09698	F -.16242	51.167	1.0354	9.8888	.52675	1.0313
Stddev	.71596	1.1387	5.125	.1036	1.0223	.02732	.0020
%RSD	738.26	701.11	10.016	10.004	10.338	5.1868	.19110

#1	- .60025	- .50041	45.313	.91652	8.7240	.49546	1.0294
#2	.72267	-1.0939	53.347	1.0837	10.305	.53884	1.0333
#3	- .41335	1.1071	54.842	1.1061	10.637	.54593	1.0314

Check ?	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	1.0000	1.0000					
Range	-10.000%	-10.000%					

Approved: July 31, 2012



Sample Name: CCV Acquired: 7/30/2012 12:28:01 Type: QC
 Method: ICP-THERMO2_6010_200.7(v2005) Mode: CONC Corr. Factor: 1.000000
 User: KHR Custom ID1: Custom ID2: Custom ID3:
 Comment:

Elem	Na5895	Ni2316	P_2149	Pb2203	Rb7800	S_1807	S_1820
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	51.057	.50574	10.361	.50833	F 1.9241	10.361	F 7.7848
Stddev	4.889	.00147	13.539	.00111	11.019	.043	3.4140
%RSD	9.5760	.29032	130.67	.21896	572.71	.41060	43.854

#1	45.465	.50741	9.8788	.50830	-9.9028	10.339	11.689
#2	53.179	.50469	24.134	.50945	3.7729	10.410	5.3584
#3	54.526	.50510	-2.9301	.50722	11.902	10.333	6.3073

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Fail
Value					10.000		10.000
Range					-10.000%		-10.000%

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3372	Ti1908
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.2141	.41313	4.7493	1.0117	1.0073	1.0419	.50515
Stddev	.0068	.00028	.0354	.0009	.0992	.1053	.00285
%RSD	.56335	.06691	.74516	.08588	9.8446	10.104	.56432

#1	1.2063	.41283	4.7652	1.0127	.89388	.92129	.50596
#2	1.2170	.41320	4.7087	1.0110	1.0506	1.0894	.50198
#3	1.2189	.41337	4.7739	1.0114	1.0775	1.1152	.50750


Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm
Avg	1.0308	1.0128	F .86691
Stddev	.0073	.0019	.21632
%RSD	.70971	.18768	24.953

#1	1.0388	1.0147	1.1098
#2	1.0289	1.0129	.79613
#3	1.0246	1.0109	.69484

Check ?	Chk Pass	Chk Pass	Chk Fail
Value			1.0000
Range			-10.000%

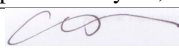
Approved: July 31, 2012



Sample Name: CCV Acquired: 7/30/2012 12:28:01 Type: QC
Method: ICP-THERMO2_6010_200.7(v2005) Mode: CONC Corr. Factor: 1.000000
User: KHR Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	30987.	17230.
Stddev	119.	948.
%RSD	.38347	5.5034
#1	30865.	18315.
#2	30994.	16817.
#3	31102.	16559.

Approved: July 31, 2012



Sample Name: CCB Acquired: 7/30/2012 12:31:04 Type: Blank
 Method: ICP-THERMO2_6010_200.7(v2005) Mode: CONC Corr. Factor: 1.000000
 User: KHR Custom ID1: Custom ID2: Custom ID3:
 Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00031	-.02057	-.00081	.00408	.00053	.00000	-.00249
Stddev	.00101	.04613	.00208	.00110	.00004	.00001	.03306
%RSD	331.21	224.26	255.53	26.904	8.0921	257.02	1327.9

#1	-.00085	.02487	-.00316	.00524	.00051	.00000	.03499
#2	.00073	-.06735	.00077	.00395	.00058	.00000	-.02748
#3	.00104	-.01923	-.00004	.00305	.00051	.00001	-.01499

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	Hf2322	Hf2641
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.00013	.00019	-.00024	-.00042	.00512	.00635	F .30906
Stddev	.00009	.00026	.00015	.00035	.00349	.00843	.04356
%RSD	75.072	135.95	61.292	83.391	68.231	132.80	14.094

#1	-.00022	.00050	-.00040	-.00021	.00524	-.00338	.26341
#2	-.00003	.00004	-.00012	-.00081	.00855	.01090	.31361
#3	-.00013	.00005	-.00019	-.00022	.00157	.01153	.35017

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit							.10000
Low Limit							-.10000

Elem	Hf2773	Hf3399	K_7664	Li6707	Mg2790	Mn2576	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F .52920	F .26714	.30686	.00339	-.00127	.00007	.00091
Stddev	.56720	1.3115	.08689	.00288	.00948	.00009	.00021
%RSD	107.18	490.95	28.317	84.953	748.40	129.39	23.512

#1	.40750	-1.1307	.33349	.00479	-.00188	-.00003	.00089
#2	.03272	.46154	.37732	.00531	-.01043	.00008	.00113
#3	1.1474	1.4706	.20977	.00008	.00850	.00015	.00071

Check ?	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	.10000	.10000					
Low Limit	-.10000	-.10000					

Approved: July 31, 2012



Sample Name: CCB Acquired: 7/30/2012 12:31:04 Type: Blank
 Method: ICP-THERMO2_6010_200.7(v2005) Mode: CONC Corr. Factor: 1.000000
 User: KHR Custom ID1: Custom ID2: Custom ID3:
 Comment:

Elem	Na5895	Ni2316	P_2149	Pb2203	Rb7800	S_1807	S_1820
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.14824	.00208	F -9.8324	.00140	F -1.9391	F -.05077	F 2.8924
Stddev	.05077	.00067	11.833	.00021	9.6755	.04469	1.1097
%RSD	34.251	32.285	120.34	14.675	498.96	88.026	38.365

#1	.20686	.00247	-.98082	.00123	-10.706	-.06439	2.5523
#2	.11961	.00130	-23.272	.00134	-3.5526	-.00085	4.1323
#3	.11824	.00245	-5.2444	.00163	8.4417	-.08707	1.9926

Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Fail	Chk Fail	Chk Fail
High Limit			.01000		.01000	.01000	.01000
Low Limit			-.01000		-.01000	-.01000	-.01000

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3372	Tl1908
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00340	-.00165	.00424	.00043	.00073	.00064	.00255
Stddev	.00346	.00404	.00296	.00028	.00049	.00312	.00181
%RSD	101.82	244.70	69.916	65.415	67.412	489.67	71.231

#1	-.00024	.00247	.00578	.00014	.00128	.00417	.00203
#2	.00378	-.00560	.00611	.00044	.00034	-.00174	.00456
#3	.00665	-.00181	.00082	.00070	.00056	-.00052	.00105

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm
Avg	.00023	.00017	F -.31928
Stddev	.00020	.00013	.39673
%RSD	84.695	74.438	124.26

#1	.00008	.00024	-.61586
#2	.00045	.00026	.13138
#3	.00016	.00003	-.47336

Check ?	Chk Pass	Chk Pass	Chk Fail
High Limit			.10000
Low Limit			-.10000

Approved: July 31, 2012



Sample Name: CCB Acquired: 7/30/2012 12:31:04 Type: Blank
Method: ICP-THERMO2_6010_200.7(v2005) Mode: CONC Corr. Factor: 1.000000
User: KHR Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	30948.	16876.
Stddev	20.	898.
%RSD	.06472	5.3230
#1	30967.	17908.
#2	30927.	16452.
#3	30951.	16269.

Approved: July 31, 2012



Sample Name: L1207079212 Acquired: 7/30/2012 12:34:19 Type: Unk
 Method: ICP-THERMO2_6010_200.7(v2005) Mode: CONC Corr. Factor: 1.000000
 User: KHR Custom ID1: Custom ID2: Custom ID3:
 Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00006	-.01723	.06282	.00421	.12580	.00004	88.228
Stddev	.00066	.00495	.00247	.00082	.01011	.00002	6.555
%RSD	1192.4	28.740	3.9269	19.439	8.0362	52.416	7.4294

#1	-.00044	-.01961	.06000	.00494	.11432	.00003	80.717
#2	-.00020	-.02054	.06459	.00332	.12973	.00007	91.175
#3	.00080	-.01154	.06387	.00436	.13335	.00003	92.793

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	Hf2322	Hf2641
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.00004	.01823	-.00007	-.00156	30.475	.91562	.56691
Stddev	.00016	.00015	.00009	.00106	2.333	.00720	1.4806
%RSD	410.77	.84301	121.25	68.014	7.6559	.78624	261.17

#1	-.00010	.01837	-.00016	-.00035	27.820	.91156	.23809
#2	.00014	.01806	-.00008	-.00199	31.408	.92393	-.72165
#3	-.00016	.01825	.00002	-.00233	32.198	.91136	2.1843

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Hf2773	Hf3399	K_7664	Li6707	Mg2790	Mn2576	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.57301	.98697	2.3913	.00379	15.863	1.1210	.00125
Stddev	.99594	.48757	.1616	.00239	1.251	.0521	.00034
%RSD	173.81	49.400	6.7561	62.980	7.8864	4.6444	26.809

#1	-.39798	1.0925	2.2109	.00654	14.452	1.0610	.00102
#2	.52485	.45528	2.5227	.00231	16.299	1.1482	.00110
#3	1.5922	1.4131	2.4402	.00252	16.837	1.1538	.00164

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: July 31, 2012



Sample Name: L1207079212 Acquired: 7/30/2012 12:34:19 Type: Unk
 Method: ICP-THERMO2_6010_200.7(v2005) Mode: CONC Corr. Factor: 1.000000
 User: KHR Custom ID1: Custom ID2: Custom ID3:
 Comment:

Elem	Na5895	Ni2316	P_2149	Pb2203	Rb7800	S_1807	S_1820
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	22.387	.00434	151.45	.00262	F -.47233	F 100.80	F -713.27
Stddev	1.683	.00074	11.79	.00078	13.176	.12	4.09
%RSD	7.5177	17.167	7.7819	29.917	2789.7	.11795	.57327

#1	20.466	.00506	155.00	.00214	-11.137	100.93	-708.55
#2	23.094	.00438	138.29	.00219	-4.5381	100.75	-715.54
#3	23.602	.00357	161.04	.00352	14.258	100.71	-715.73

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Fail	Chk Fail
High Limit					9.0000	9.0000	9.0000
Low Limit					-.00400	-.00400	-.00400

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3372	Tl1908
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00025	.00067	5.0813	-.00019	.72597	-.00240	.00340
Stddev	.00390	.00058	.0211	.00047	.05398	.00434	.00218
%RSD	1546.6	86.387	.41627	245.42	7.4350	181.12	64.156

#1	-.00306	.00005	5.0695	-.00057	.66420	-.00350	.00537
#2	-.00074	.00077	5.0687	-.00033	.74970	.00239	.00106
#3	.00455	.00120	5.1057	.00033	.76402	-.00608	.00377

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm
Avg	.00250	.00317	F -2.4041
Stddev	.00050	.00010	.7625
%RSD	19.839	3.2401	31.719

#1	.00286	.00320	-2.0941
#2	.00193	.00325	-3.2728
#3	.00269	.00306	-1.8453

Check ?	Chk Pass	Chk Pass	Chk Fail
High Limit			45.000
Low Limit			-.00400

Approved: July 31, 2012



Sample Name: L1207079212 Acquired: 7/30/2012 12:34:19 Type: Unk
Method: ICP-THERMO2_6010_200.7(v2005) Mode: CONC Corr. Factor: 1.000000
User: KHR Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	31021.	17234.
Stddev	67.	795.
%RSD	.21443	4.6113
#1	30958.	18150.
#2	31014.	16822.
#3	31090.	16730.

Approved: July 31, 2012



Sample Name: L1207079213 Acquired: 7/30/2012 12:37:24 Type: Unk
 Method: ICP-THERMO2_6010_200.7(v2005) Mode: CONC Corr. Factor: 1.000000
 User: KHR Custom ID1: Custom ID2: Custom ID3:
 Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.00052	.34298	.00146	.02064	.04814	.00009	33.242
Stddev	.00058	.03816	.00179	.00068	.00402	.00002	2.531
%RSD	113.15	11.127	122.36	3.2794	8.3464	27.565	7.6145

#1	-.00119	.32109	.00259	.02138	.04351	.00006	30.337
#2	-.00022	.32080	-.00060	.02047	.05021	.00011	34.422
#3	-.00014	.38705	.00240	.02006	.05070	.00010	34.968

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	Hf2322	Hf2641
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.00003	.00048	.00126	-.00053	2.2160	.21100	.75500
Stddev	.00014	.00012	.00031	.00020	.1572	.00397	.71508
%RSD	444.46	24.876	24.693	37.122	7.0946	1.8839	94.714

#1	.00006	.00050	.00094	-.00049	2.0374	.20700	1.5772
#2	-.00019	.00035	.00156	-.00074	2.2773	.21495	.27784
#3	.00004	.00058	.00129	-.00035	2.3333	.21104	.40997


Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Hf2773	Hf3399	K_7664	Li6707	Mg2790	Mn2576	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.65509	1.1929	1.9060	.01266	3.7599	.07489	.00112
Stddev	1.0102	.5395	.1709	.00556	.2728	.00255	.00043
%RSD	154.21	45.227	8.9678	43.937	7.2563	3.4072	38.513

#1	.29327	1.0687	1.7126	.00631	3.4484	.07194	.00087
#2	1.7964	1.7837	1.9685	.01665	3.8748	.07628	.00087
#3	-.12437	.72635	2.0369	.01501	3.9564	.07645	.00162

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: July 31, 2012



Sample Name: L1207079213 Acquired: 7/30/2012 12:37:24 Type: Unk
 Method: ICP-THERMO2_6010_200.7(v2005) Mode: CONC Corr. Factor: 1.000000
 User: KHR Custom ID1: Custom ID2: Custom ID3:
 Comment:

Elem	Na5895	Ni2316	P_2149	Pb2203	Rb7800	S_1807	S_1820
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	12.296	.00217	88.010	.00226	2.4750	F 36.140	F -88.099
Stddev	.922	.00109	24.904	.00049	3.7888	.146	5.821
%RSD	7.4962	50.457	28.297	21.653	153.08	.40321	6.6069

#1	11.242	.00342	84.161	.00211	-1.8962	36.170	-82.831
#2	12.695	.00161	114.62	.00280	4.8188	36.269	-94.348
#3	12.951	.00146	65.255	.00186	4.5023	35.982	-87.119

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Fail
High Limit						9.0000	9.0000
Low Limit						-0.0400	-0.0400

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3372	Tl1908
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00150	.00204	12.284	.00019	.19666	.01711	.00146
Stddev	.00454	.00251	.038	.00039	.01488	.00458	.00213
%RSD	303.12	122.95	.30804	202.07	7.5683	26.790	145.76

#1	.00667	-0.0011	12.292	-0.0012	.17956	.01306	-0.0040
#2	-0.0032	.00143	12.317	.00063	.20373	.01619	.00379
#3	-0.00185	.00480	12.243	.00006	.20670	.02209	.00101

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm
Avg	.00086	.00521	.73304
Stddev	.00011	.00001	1.0361
%RSD	13.243	.24910	141.34

#1	.00079	.00522	.65741
#2	.00099	.00520	1.8049
#3	.00080	.00522	-0.26313

Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Approved: July 31, 2012



Sample Name: L1207079213 Acquired: 7/30/2012 12:37:24 Type: Unk
Method: ICP-THERMO2_6010_200.7(v2005) Mode: CONC Corr. Factor: 1.000000
User: KHR Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	31265.	17088.
Stddev	101.	623.
%RSD	.32371	3.6449
#1	31322.	17807.
#2	31325.	16726.
#3	31148.	16730.

Approved: July 31, 2012



Sample Name: L1207079214 Acquired: 7/30/2012 12:40:29 Type: Unk
 Method: ICP-THERMO2_6010_200.7(v2005) Mode: CONC Corr. Factor: 1.000000
 User: KHR Custom ID1: Custom ID2: Custom ID3:
 Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.01435	152.75	.01447	.03264	.42472	.00536	244.39
Stddev	.00107	11.53	.00196	.00082	.03146	.00030	17.28
%RSD	7.4825	7.5486	13.523	2.5068	7.4080	5.5702	7.0718

#1	.01312	139.49	.01296	.03247	.38875	.00502	224.48
#2	.01508	158.38	.01378	.03192	.43828	.00549	253.21
#3	.01486	160.40	.01668	.03353	.44713	.00557	255.48

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	Hf2322	Hf2641
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00221	.02313	.12415	.18254	57.657	.65974	F -.21156
Stddev	.00010	.00028	.00043	.00244	4.401	.00474	.30057
%RSD	4.3967	1.1891	.34920	1.3369	7.6322	.71822	142.07

#1	.00209	.02340	.12368	.18525	52.638	.65614	-.36414
#2	.00226	.02285	.12426	.18185	59.480	.66511	-.40524
#3	.00227	.02315	.12452	.18052	60.853	.65798	.13469

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit							45.000
Low Limit							-.10000

Elem	Hf2773	Hf3399	K_7664	Li6707	Mg2790	Mn2576	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.11135	F -.42341	37.611	.07246	15.340	.50400	.00136
Stddev	.17892	.96628	2.924	.00602	1.244	.01707	.00021
%RSD	160.68	228.21	7.7739	8.3135	8.1109	3.3868	15.151

#1	-.08931	-.34837	34.253	.06567	13.940	.48430	.00113
#2	.25426	.50316	38.983	.07458	15.760	.51451	.00153
#3	.16910	-1.4250	39.596	.07714	16.319	.51318	.00143

Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit		45.000					
Low Limit		-.10000					

Approved: July 31, 2012



Sample Name: L1207079214 Acquired: 7/30/2012 12:40:29 Type: Unk
 Method: ICP-THERMO2_6010_200.7(v2005) Mode: CONC Corr. Factor: 1.000000
 User: KHR Custom ID1: Custom ID2: Custom ID3:
 Comment:

Elem	Na5895	Ni2316	P_2149	Pb2203	Rb7800	S_1807	S_1820
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	33.777	.04189	F 19890.	.06225	F -17.698	F 374.81	F -10771.
Stddev	2.451	.00073	37.	.00666	16.032	.10	17.
%RSD	7.2556	1.7354	.18621	10.691	90.588	.02713	.15609

#1	30.970	.04262	19897.	.06989	-32.154	374.92	-10769.
#2	34.869	.04117	19923.	.05917	-.4550	374.72	-10789.
#3	35.491	.04187	19850.	.05769	-20.484	374.78	-10756.

Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Fail	Chk Fail	Chk Fail
High Limit			900.00		9.0000	9.0000	9.0000
Low Limit			-.00400		-.00400	-.00400	-.00400

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3372	Tl1908
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.00095	.00432	71.221	.00338	.32145	2.1694	.00523
Stddev	.00377	.00293	.313	.00025	.02385	.1694	.00150
%RSD	395.94	67.798	.43976	7.4849	7.4194	7.8109	28.702

#1	-.00316	.00732	71.040	.00357	.29411	1.9745	.00642
#2	-.00310	.00418	71.583	.00309	.33226	2.2516	.00572
#3	.00340	.00146	71.040	.00347	.33798	2.2820	.00354

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm
Avg	.20157	.29125	15.051
Stddev	.00139	.00029	.352
%RSD	.68946	.10109	2.3389

#1	.20289	.29098	15.324
#2	.20012	.29156	14.654
#3	.20171	.29120	15.175

Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

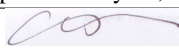
Approved: July 31, 2012



Sample Name: L1207079214 Acquired: 7/30/2012 12:40:29 Type: Unk
Method: ICP-THERMO2_6010_200.7(v2005) Mode: CONC Corr. Factor: 1.000000
User: KHR Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	30693.	17343.
Stddev	36.	599.
%RSD	.11758	3.4557
#1	30653.	18026.
#2	30702.	16903.
#3	30723.	17101.

Approved: July 31, 2012



Sample Name: L1207079215 Acquired: 7/30/2012 12:43:34 Type: Unk
 Method: ICP-THERMO2_6010_200.7(v2005) Mode: CONC Corr. Factor: 1.000000
 User: KHR Custom ID1: Custom ID2: Custom ID3:
 Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00122	26.239	.00536	.00993	.10644	.00081	27.817
Stddev	.00066	1.661	.00203	.00025	.00752	.00006	1.592
%RSD	54.328	6.3317	37.879	2.4937	7.0602	7.6697	5.7237

#1	.00088	24.395	.00302	.00990	.09800	.00074	26.038
#2	.00198	26.705	.00643	.01019	.10893	.00083	28.304
#3	.00079	27.618	.00662	.00969	.11240	.00086	29.109

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	Hf2322	Hf2641
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.00027	.00752	.02654	.01356	38.099	.36808	F -.40223
Stddev	.00007	.00021	.00081	.00141	2.814	.00322	.58200
%RSD	26.231	2.7563	3.0710	10.366	7.3855	.87542	144.69

#1	-.00030	.00768	.02699	.01511	34.924	.36436	.13260
#2	-.00032	.00729	.02702	.01324	39.091	.37006	-.31725
#3	-.00019	.00759	.02560	.01235	40.283	.36982	-1.0221

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit							45.000
Low Limit							-.10000

Elem	Hf2773	Hf3399	K_7664	Li6707	Mg2790	Mn2576	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.01056	F -.17199	57.902	.02342	5.3433	.18172	-.00008
Stddev	.49728	2.0752	4.117	.00087	.3705	.00597	.00013
%RSD	4709.9	1206.6	7.1098	3.7085	6.9347	3.2864	171.85

#1	.49722	-.99533	53.272	.02403	4.9202	.17487	-.00010
#2	-.49662	2.1885	59.285	.02382	5.4995	.18440	-.00020
#3	-.03228	-1.7092	61.149	.02243	5.6102	.18588	.00006

Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit		45.000					
Low Limit		-.10000					

Approved: July 31, 2012



Sample Name: L1207079215 Acquired: 7/30/2012 12:43:34 Type: Unk
 Method: ICP-THERMO2_6010_200.7(v2005) Mode: CONC Corr. Factor: 1.000000
 User: KHR Custom ID1: Custom ID2: Custom ID3:
 Comment:

Elem	Na5895	Ni2316	P_2149	Pb2203	Rb7800	S_1807	S_1820
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	54.796	.01185	F 36127.	.01601	F -2.2839	F 65.498	F -3649.1
Stddev	4.154	.00063	22.	.00170	4.1465	.252	2.3
%RSD	7.5818	5.3223	.06007	10.597	181.56	.38434	.06439

#1	50.083	.01245	36140.	.01729	.25323	65.755	-3649.1
#2	56.376	.01190	36138.	.01409	-7.0690	65.488	-3651.5
#3	57.929	.01119	36102.	.01666	-.03583	65.252	-3646.8

Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Fail	Chk Fail	Chk Fail
High Limit			900.00		9.0000	9.0000	9.0000
Low Limit			-.00400		-.00400	-.00400	-.00400

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3372	Tl1908
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00346	.00238	71.287	.00035	.14679	.26403	.00118
Stddev	.00297	.00267	.239	.00017	.01090	.01810	.00122
%RSD	85.796	112.27	.33463	49.238	7.4245	6.8565	103.35

#1	.00119	.00522	71.460	.00020	.13457	.24331	.00121
#2	.00238	.00201	71.386	.00053	.15030	.27195	-.00005
#3	.00682	-.00009	71.015	.00031	.15549	.27682	.00239

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm
Avg	.02367	.05534	8.7959
Stddev	.00032	.00004	.6006
%RSD	1.3380	.07839	6.8276

#1	.02401	.05537	9.0527
#2	.02364	.05536	8.1096
#3	.02338	.05529	9.2253

Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Approved: July 31, 2012



Sample Name: L1207079215 Acquired: 7/30/2012 12:43:34 Type: Unk
Method: ICP-THERMO2_6010_200.7(v2005) Mode: CONC Corr. Factor: 1.000000
User: KHR Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	30663.	16790.
Stddev	47.	539.
%RSD	.15415	3.2109
#1	30714.	17387.
#2	30621.	16641.
#3	30652.	16340.

Approved: July 31, 2012



Sample Name: L1207079216 Acquired: 7/30/2012 12:46:38 Type: Unk
 Method: ICP-THERMO2_6010_200.7(v2005) Mode: CONC Corr. Factor: 1.000000
 User: KHR Custom ID1: Custom ID2: Custom ID3:
 Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.00090	.03776	.00624	.02450	.05990	.00001	145.52
Stddev	.00052	.05206	.00191	.00034	.00522	.00002	11.61
%RSD	57.692	137.86	30.565	1.4020	8.7178	158.17	7.9774

#1	-.00133	.09666	.00611	.02445	.05411	.00002	132.29
#2	-.00103	.01872	.00821	.02418	.06133	-.00001	150.25
#3	-.00032	-.00210	.00440	.02486	.06425	.00003	154.01

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	Hf2322	Hf2641
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00003	.00066	.00113	-.00011	10.462	.72728	.92437
Stddev	.00014	.00007	.00047	.00078	.808	.00731	.52786
%RSD	462.53	10.480	41.364	740.35	7.7190	1.0055	57.105

#1	-.00010	.00059	.00059	.00078	9.5408	.72950	.42410
#2	.00018	.00073	.00134	-.00038	10.798	.73322	.87294
#3	.00001	.00066	.00144	-.00071	11.047	.71911	1.4761

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Hf2773	Hf3399	K_7664	Li6707	Mg2790	Mn2576	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.50614	-.07267	3.1519	.01926	10.287	.22068	.00018
Stddev	.34525	.57379	.1096	.00272	.828	.00742	.00030
%RSD	68.214	789.64	3.4785	14.140	8.0490	3.3627	165.61

#1	.22965	-.64787	3.0311	.01625	9.3390	.21217	.00053
#2	.39565	-.06983	3.2452	.02155	10.653	.22576	.00001
#3	.89311	.49970	3.1793	.01997	10.869	.22412	.00001

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: July 31, 2012



Sample Name: L1207079216 Acquired: 7/30/2012 12:46:38 Type: Unk
 Method: ICP-THERMO2_6010_200.7(v2005) Mode: CONC Corr. Factor: 1.000000
 User: KHR Custom ID1: Custom ID2: Custom ID3:
 Comment:

Elem	Na5895	Ni2316	P_2149	Pb2203	Rb7800	S_1807	S_1820
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	14.019	.00536	220.20	.00321	3.4659	F 162.76	F -657.08
Stddev	1.068	.00028	5.10	.00194	8.3146	.39	4.72
%RSD	7.6168	5.2469	2.3148	60.313	239.90	.24259	.71886

#1	12.801	.00530	214.44	.00532	-6.0829	162.67	-661.16
#2	14.460	.00511	222.02	.00152	7.3753	163.20	-658.17
#3	14.795	.00567	224.13	.00278	9.1053	162.43	-651.91

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Fail
High Limit						9.0000	9.0000
Low Limit						-.00400	-.00400

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3372	Tl1908
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00341	-.00040	18.387	.00001	.65434	-.00444	.00204
Stddev	.00175	.00075	.078	.00009	.05270	.00213	.00087
%RSD	51.230	188.36	.42667	855.80	8.0533	48.099	42.572

#1	.00515	.00025	18.381	-.00007	.59432	-.00306	.00182
#2	.00166	-.00123	18.312	.00000	.67567	-.00690	.00130
#3	.00343	-.00023	18.468	.00010	.69302	-.00336	.00299

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm
Avg	.00100	.00233	F -1.3519
Stddev	.00027	.00005	.5997
%RSD	27.068	2.3037	44.361

#1	.00084	.00233	-1.6344
#2	.00132	.00227	-1.7583
#3	.00085	.00238	-.66312

Check ?	Chk Pass	Chk Pass	Chk Fail
High Limit			45.000
Low Limit			-.00400

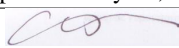
Approved: July 31, 2012



Sample Name: L1207079216 Acquired: 7/30/2012 12:46:38 Type: Unk
Method: ICP-THERMO2_6010_200.7(v2005) Mode: CONC Corr. Factor: 1.000000
User: KHR Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	30789.	16806.
Stddev	34.	576.
%RSD	.11175	3.4270
#1	30824.	17465.
#2	30787.	16397.
#3	30755.	16556.

Approved: July 31, 2012



Sample Name: L1207079217 Acquired: 7/30/2012 12:49:42 Type: Unk
 Method: ICP-THERMO2_6010_200.7(v2005) Mode: CONC Corr. Factor: 1.000000
 User: KHR Custom ID1: Custom ID2: Custom ID3:
 Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00005	-.01104	.00693	.05125	.19327	.00005	290.49
Stddev	.00020	.01863	.00282	.00073	.01734	.00003	22.80
%RSD	395.42	168.85	40.687	1.4332	8.9726	68.964	7.8482

#1	.00026	-.03134	.01018	.05191	.17364	.00009	264.75
#2	.00003	-.00704	.00505	.05046	.19967	.00004	298.58
#3	-.00014	.00527	.00557	.05139	.20651	.00002	308.14

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	Hf2322	Hf2641
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00002	.00040	.00271	-.00047	20.447	1.7679	2.5314
Stddev	.00010	.00022	.00024	.00163	1.752	.0023	.8137
%RSD	565.75	55.328	8.6788	347.33	8.5692	.12794	32.146

#1	.00009	.00035	.00268	.00139	18.453	1.7660	1.7365
#2	-.00009	.00021	.00296	-.00112	21.151	1.7673	2.4949
#3	.00006	.00065	.00249	-.00167	21.738	1.7704	3.3627


Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Hf2773	Hf3399	K_7664	Li6707	Mg2790	Mn2576	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.94806	.89104	8.9200	.04159	28.356	.31700	.00171
Stddev	.27360	.04956	.8049	.00319	2.493	.01280	.00031
%RSD	28.859	5.5622	9.0235	7.6792	8.7899	4.0386	18.008

#1	.79307	.94608	7.9977	.03953	25.499	.30235	.00137
#2	1.2640	.87710	9.2815	.04526	29.485	.32604	.00197
#3	.78715	.84994	9.4807	.03997	30.085	.32262	.00180

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: July 31, 2012



Sample Name: L1207079217 Acquired: 7/30/2012 12:49:42 Type: Unk
 Method: ICP-THERMO2_6010_200.7(v2005) Mode: CONC Corr. Factor: 1.000000
 User: KHR Custom ID1: Custom ID2: Custom ID3:
 Comment:

Elem	Na5895	Ni2316	P_2149	Pb2203	Rb7800	S_1807	S_1820
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	47.745	.01115	613.40	.00386	F -11.915	F 356.51	F -3878.7
Stddev	4.016	.00054	7.59	.00129	4.640	1.12	1.8
%RSD	8.4120	4.8251	1.2368	33.356	38.946	.31525	.04547

#1	43.180	.01065	621.23	.00512	-11.563	357.65	-3877.6
#2	49.319	.01109	612.89	.00390	-16.721	356.47	-3877.8
#3	50.736	.01172	606.08	.00255	-7.4605	355.40	-3880.7

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Fail	Chk Fail
High Limit					9.0000	9.0000	9.0000
Low Limit					-.00400	-.00400	-.00400

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3372	Tl1908
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00354	-.00096	24.678	-.00018	1.6775	-.00435	.00263
Stddev	.00276	.00302	.151	.00075	.1471	.00037	.00067
%RSD	77.925	314.22	.61041	414.35	8.7691	8.4746	25.582

#1	.00642	-.00100	24.765	-.00099	1.5117	-.00473	.00324
#2	.00329	.00208	24.765	.00047	1.7285	-.00432	.00274
#3	.00092	-.00396	24.504	-.00002	1.7923	-.00399	.00191

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm
Avg	.00190	.00280	F -1.0925
Stddev	.00024	.00012	.2963
%RSD	12.502	4.2551	27.121

#1	.00218	.00290	-1.0244
#2	.00174	.00285	-.83614
#3	.00179	.00267	-1.4169

Check ?	Chk Pass	Chk Pass	Chk Fail
High Limit			45.000
Low Limit			-.00400

Approved: July 31, 2012



Sample Name: L1207079217 Acquired: 7/30/2012 12:49:42 Type: Unk
Method: ICP-THERMO2_6010_200.7(v2005) Mode: CONC Corr. Factor: 1.000000
User: KHR Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	30403.	17034.
Stddev	70.	605.
%RSD	.22938	3.5526
#1	30484.	17732.
#2	30368.	16651.
#3	30358.	16720.

Approved: July 31, 2012



Sample Name: L1207083602 Acquired: 7/30/2012 12:52:47 Type: Unk
 Method: ICP-THERMO2_6010_200.7(v2005) Mode: CONC Corr. Factor: 1.000000
 User: KHR Custom ID1: Custom ID2: Custom ID3:
 Comment: WG404866-01

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-0.0095	-0.0285	.00048	.02492	.01258	.00001
Stddev	.00081	.01450	.00127	.00125	.00142	.00002
%RSD	84.584	508.40	264.63	5.0359	11.263	157.25

#1	-0.00006	-0.01873	-0.00003	.02590	.01142	-0.00001
#2	-0.00162	.00050	-0.00045	.02535	.01216	.00002
#3	-0.00119	.00968	.00193	.02350	.01416	.00003

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Ca4226	Cd2288	Co2286	Cr2677	Cu2247	Fe2611
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	457.85	.00119	.00196	.00090	.00281	.08313
Stddev	32.85	.00018	.00021	.00023	.00038	.00345
%RSD	7.1749	15.330	10.599	26.062	13.519	4.1544

#1	420.97	.00117	.00178	.00079	.00301	.08239
#2	468.62	.00102	.00219	.00117	.00305	.08689
#3	483.97	.00139	.00192	.00073	.00237	.08010


Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Hf2322	Hf2641	Hf2773	Hf3399	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.2733	10.258	.96488	.41422	3.4437	.01801
Stddev	.0039	.565	.68439	1.1330	.3213	.00559
%RSD	.30435	5.5117	70.930	273.54	9.3304	31.052

#1	1.2746	9.6172	1.7529	.42967	3.1350	.01311
#2	1.2689	10.687	.51956	1.5395	3.4197	.02410
#3	1.2763	10.469	.62216	-.72647	3.7763	.01681

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Approved: July 31, 2012



Sample Name: L1207083602 Acquired: 7/30/2012 12:52:47 Type: Unk
 Method: ICP-THERMO2_6010_200.7(v2005) Mode: CONC Corr. Factor: 1.000000
 User: KHR Custom ID1: Custom ID2: Custom ID3:
 Comment: WG404866-01

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	113.77	.13504	.04710	12.989	.39019	244.52
Stddev	8.76	.00563	.00038	.977	.00175	12.22
%RSD	7.6989	4.1692	.79808	7.5202	.44727	4.9963

#1	103.86	.12902	.04738	11.883	.38818	240.20
#2	116.96	.13594	.04724	13.347	.39131	258.31
#3	120.49	.14017	.04667	13.736	.39107	235.04

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Pb2203	Rb7800	S_1807	S_1820	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00250	F -18.016	F 8320.6	F -791900.	.00176	.16973
Stddev	.00140	3.320	21.0	441.	.00207	.00367
%RSD	55.979	18.427	.25248	.05570	117.70	2.1633

#1	.00094	-20.820	8309.6	-792040.	-.00062	.16916
#2	.00363	-14.351	8307.2	-791400.	.00274	.16637
#3	.00293	-18.877	8344.8	-792250.	.00315	.17365

Check ?	Chk Pass	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass
High Limit		9.0000	9.0000	9.0000		
Low Limit		-.00400	-.00400	-.00400		

Elem	Si2124	Sn1899	Sr4077	Ti3372	Tl1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	6.6444	-.00012	1.3267	-.00877	.00209	.00241
Stddev	.0092	.00016	.1067	.00085	.00199	.00064
%RSD	.13813	126.12	8.0449	9.7046	95.342	26.577

#1	6.6344	-.00025	1.2067	-.00921	.00124	.00312
#2	6.6467	.00005	1.3628	-.00779	.00436	.00186
#3	6.6523	-.00017	1.4108	-.00932	.00066	.00226

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Approved: July 31, 2012



Sample Name: L1207083602 Acquired: 7/30/2012 12:52:47 Type: Unk
 Method: ICP-THERMO2_6010_200.7(v2005) Mode: CONC Corr. Factor: 1.000000
 User: KHR Custom ID1: Custom ID2: Custom ID3:
 Comment: WG404866-01

Elem	Zn2062	Zr3391
Units	ppm	ppm
Avg	.11178	F -.24249
Stddev	.00022	.42143
%RSD	.20091	173.79

#1	.11197	.17481
#2	.11153	-.23436
#3	.11184	-.66792

Check ?	Chk Pass	Chk Fail
High Limit		45.000
Low Limit		-.00400

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	29728.	17062.
Stddev	95.	627.
%RSD	.32000	3.6732

#1	29647.	17746.
#2	29705.	16925.
#3	29833.	16516.

Approved: July 31, 2012



Sample Name: L1207083602MS Acquired: 7/30/2012 12:55:52 Type: Unk
 Method: ICP-THERMO2_6010_200.7(v2005) Mode: CONC Corr. Factor: 1.000000
 User: KHR Custom ID1: Custom ID2: Custom ID3:
 Comment: WG404866-04

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.21442	5.2425	.21373	1.0766	.53817	.02669
Stddev	.00108	.4994	.00327	.0021	.04206	.00017
%RSD	.50289	9.5264	1.5290	.19411	7.8148	.62185

#1	.21532	4.6693	.21005	1.0777	.49006	.02652
#2	.21323	5.4741	.21488	1.0742	.55650	.02669
#3	.21471	5.5841	.21628	1.0780	.56794	.02685

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Ca4226	Cd2288	Co2286	Cr2677	Cu2247	Fe2611
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	485.73	.02734	.10347	.25892	.25806	2.0700
Stddev	34.01	.00005	.00049	.00149	.00076	.1619
%RSD	7.0028	.17527	.47025	.57698	.29610	7.8198

#1	446.62	.02731	.10306	.25908	.25775	1.8855
#2	502.08	.02740	.10334	.25735	.25893	2.1365
#3	508.47	.02732	.10401	.26033	.25749	2.1880

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Hf2322	Hf2641	Hf2773	Hf3399	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.8594	10.735	.99527	1.6777	30.424	.56466
Stddev	.0108	.754	1.0859	.7129	2.481	.04324
%RSD	.58090	7.0235	109.11	42.493	8.1547	7.6579

#1	1.8573	9.8707	2.2196	1.2514	27.578	.51551
#2	1.8711	11.258	.61751	1.2810	31.564	.58159
#3	1.8498	11.075	.14868	2.5007	32.131	.59687

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Approved: July 31, 2012



Sample Name: L1207083602MS Acquired: 7/30/2012 12:55:52 Type: Unk
 Method: ICP-THERMO2_6010_200.7(v2005) Mode: CONC Corr. Factor: 1.000000
 User: KHR Custom ID1: Custom ID2: Custom ID3:
 Comment: WG404866-04

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	126.20	.40147	.57141	40.845	.65976	266.36
Stddev	9.68	.01395	.00034	3.193	.00265	4.15
%RSD	7.6703	3.4758	.06033	7.8183	.40237	1.5591

#1	115.13	.38539	.57107	37.191	.66164	263.24
#2	130.33	.40872	.57176	42.245	.66091	271.07
#3	133.12	.41031	.57139	43.099	.65672	264.77

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Pb2203	Rb7800	S_1807	S_1820	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.25229	F -9.0221	F 8770.6	F -846880.	.62191	.40022
Stddev	.00169	11.496	113.5	1155.	.00075	.00327
%RSD	.67081	127.42	1.2946	.13642	.12139	.81652

#1	.25419	-19.919	8901.7	-847930.	.62276	.39741
#2	.25171	-10.139	8707.1	-847080.	.62132	.40381
#3	.25096	2.9916	8703.0	-845640.	.62164	.39944

Check ?	Chk Pass	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass
High Limit		9.0000	9.0000	9.0000		
Low Limit		-.00400	-.00400	-.00400		

Elem	Si2124	Sn1899	Sr4077	Ti3372	Ti1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	9.5302	.52592	1.9291	.52099	.24421	.52528
Stddev	.1273	.00040	.1520	.03932	.00210	.00135
%RSD	1.3353	.07575	7.8807	7.5475	.85871	.25727

#1	9.6771	.52573	1.7545	.47582	.24645	.52518
#2	9.4597	.52565	2.0010	.53959	.24229	.52398
#3	9.4538	.52638	2.0319	.54757	.24390	.52668

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Approved: July 31, 2012



Sample Name: L1207083602MS Acquired: 7/30/2012 12:55:52 Type: Unk
 Method: ICP-THERMO2_6010_200.7(v2005) Mode: CONC Corr. Factor: 1.000000
 User: KHR Custom ID1: Custom ID2: Custom ID3:
 Comment: WG404866-04

Elem	Zn2062	Zr3391
Units	ppm	ppm
Avg	.62884	.04879
Stddev	.00109	.36667
%RSD	.17364	751.50


#1	.63000	.42016
#2	.62868	-.31300
#3	.62784	.03921

Check ?	Chk Pass	Chk Pass
High Limit		
Low Limit		

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	29338.	16744.
Stddev	29.	581.
%RSD	.09794	3.4713

#1	29345.	17414.
#2	29362.	16431.
#3	29306.	16386.

Approved: July 31, 2012



Sample Name: L1207083602MSD Acquired: 7/30/2012 12:58:55 Type: Unk
 Method: ICP-THERMO2_6010_200.7(v2005) Mode: CONC Corr. Factor: 1.000000
 User: KHR Custom ID1: Custom ID2: Custom ID3:
 Comment: WG404866-05

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.21206	5.2616	.21391	1.0766	.53681	.02656
Stddev	.00165	.4365	.00132	.0103	.04428	.00024
%RSD	.77776	8.2953	.61574	.95939	8.2489	.88654

#1	.21191	4.7766	.21499	1.0773	.48627	.02650
#2	.21048	5.3852	.21429	1.0659	.55538	.02636
#3	.21377	5.6229	.21244	1.0866	.56879	.02682

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Ca4226	Cd2288	Co2286	Cr2677	Cu2247	Fe2611
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	468.60	.02755	.10342	.25625	.25765	2.0640
Stddev	36.51	.00003	.00017	.00294	.00019	.1639
%RSD	7.7915	.12066	.16194	1.1475	.07313	7.9405

#1	426.78	.02759	.10324	.25630	.25769	1.8776
#2	484.92	.02753	.10347	.25328	.25782	2.1293
#3	494.11	.02754	.10356	.25916	.25745	2.1852

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Hf2322	Hf2641	Hf2773	Hf3399	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.7997	10.838	1.4319	2.0885	30.365	.57057
Stddev	.0037	.722	.9535	.9867	2.669	.04311
%RSD	.20496	6.6614	66.594	47.243	8.7898	7.5556

#1	1.7986	10.149	2.0610	1.7042	27.318	.52097
#2	1.8038	10.777	.33476	1.3518	31.485	.59171
#3	1.7967	11.589	1.8998	3.2095	32.291	.59903

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Approved: July 31, 2012



Sample Name: L1207083602MSD Acquired: 7/30/2012 12:58:55 Type: Unk
 Method: ICP-THERMO2_6010_200.7(v2005) Mode: CONC Corr. Factor: 1.000000
 User: KHR Custom ID1: Custom ID2: Custom ID3:
 Comment: WG404866-05

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	120.55	.39685	.56921	40.126	.65100	264.76
Stddev	9.83	.01811	.00044	3.241	.00282	11.33
%RSD	8.1573	4.5642	.07682	8.0778	.43309	4.2780

#1	109.33	.37717	.56908	36.419	.64792	270.95
#2	124.64	.40055	.56969	41.533	.65346	271.64
#3	127.68	.41283	.56885	42.427	.65162	251.69

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Pb2203	Rb7800	S_1807	S_1820	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.25459	F -13.347	F 8647.4	F -81700.	.62338	.38988
Stddev	.00082	5.111	57.7	1598.	.00210	.00292
%RSD	.32085	38.298	.66674	.19561	.33726	.74920

#1	.25452	-18.243	8581.2	-815290.	.62394	.39255
#2	.25381	-8.0439	8686.8	-818460.	.62513	.38676
#3	.25544	-13.753	8674.2	-817240.	.62105	.39034

Check ?	Chk Pass	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass
High Limit		9.0000	9.0000	9.0000		
Low Limit		-.00400	-.00400	-.00400		

Elem	Si2124	Sn1899	Sr4077	Ti3372	Tl1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	9.4922	.39190	1.8580	.52649	.24761	.52614
Stddev	.0617	.00054	.1589	.04708	.00125	.00471
%RSD	.64973	.13821	8.5518	8.9415	.50286	.89559

#1	9.4253	.39128	1.6758	.47361	.24657	.52693
#2	9.5467	.39220	1.9302	.54201	.24726	.52108
#3	9.5045	.39224	1.9680	.56384	.24899	.53041

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Approved: July 31, 2012



Sample Name: L1207083602MSD Acquired: 7/30/2012 12:58:55 Type: Unk
 Method: ICP-THERMO2_6010_200.7(v2005) Mode: CONC Corr. Factor: 1.000000
 User: KHR Custom ID1: Custom ID2: Custom ID3:
 Comment: WG404866-05

Elem	Zn2062	Zr3391
Units	ppm	ppm
Avg	.62919	.04670
Stddev	.00137	.23467
%RSD	.21737	502.50

#1	.62783	-.22386
#2	.63057	.19491
#3	.62917	.16905

Check ?	Chk Pass	Chk Pass
High Limit		
Low Limit		

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	29374.	16737.
Stddev	73.	766.
%RSD	.25019	4.5737

#1	29365.	17610.
#2	29452.	16420.
#3	29306.	16181.

Approved: July 31, 2012



Sample Name: L1207083604 Acquired: 7/30/2012 13:01:58 Type: Unk
 Method: ICP-THERMO2_6010_200.7(v2005) Mode: CONC Corr. Factor: 1.000000
 User: KHR Custom ID1: Custom ID2: Custom ID3:
 Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-0.0045	.00324	.00161	.04490	.07038	.00003
Stddev	.00124	.03199	.00127	.00062	.00581	.00002
%RSD	275.72	987.24	79.292	1.3818	8.2615	74.691

#1	.00097	-.01882	.00170	.04423	.06378	.00002
#2	-.00135	.03992	.00029	.04545	.07260	.00005
#3	-.00098	-.01139	.00283	.04502	.07476	.00001

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Ca4226	Cd2288	Co2286	Cr2677	Cu2247	Fe2611
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	458.98	.00142	.00211	.00092	-.00117	.07869
Stddev	33.91	.00014	.00012	.00051	.00067	.01221
%RSD	7.3875	9.9214	5.6965	55.854	56.660	15.515

#1	420.74	.00128	.00210	.00033	-.00098	.06923
#2	470.86	.00142	.00200	.00128	-.00063	.09248
#3	485.35	.00156	.00224	.00115	-.00192	.07438

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Hf2322	Hf2641	Hf2773	Hf3399	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.4349	11.916	.57558	.10899	6.1258	.02155
Stddev	.0042	1.119	1.2446	.17388	.4353	.00441
%RSD	.29258	9.3881	216.24	159.53	7.1056	20.469

#1	1.4398	10.630	1.1577	.11221	5.6593	.01769
#2	1.4325	12.460	-.85342	-.06648	6.1971	.02059
#3	1.4325	12.659	1.4224	.28124	6.5210	.02636

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Approved: July 31, 2012



Sample Name: L1207083604 Acquired: 7/30/2012 13:01:58 Type: Unk
 Method: ICP-THERMO2_6010_200.7(v2005) Mode: CONC Corr. Factor: 1.000000
 User: KHR Custom ID1: Custom ID2: Custom ID3:
 Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	128.46	.16695	.00325	16.607	.00393	F 3513.7
Stddev	10.39	.00812	.00010	1.277	.00020	9.7
%RSD	8.0872	4.8648	3.0692	7.6896	5.0536	.27564

#1	116.55	.15790	.00336	15.150	.00407	3522.3
#2	133.15	.16934	.00317	17.144	.00403	3503.2
#3	135.68	.17361	.00322	17.529	.00371	3515.5

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit						900.00
Low Limit						-.00400

Elem	Pb2203	Rb7800	S_1807	S_1820	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00063	F -9.5097	F 8853.6	F -850510.	.00483	.00873
Stddev	.00104	14.003	33.2	837.	.00173	.00297
%RSD	166.26	147.25	.37452	.09838	35.706	33.973

#1	.00000	-25.677	8870.2	-851250.	.00416	.01206
#2	.00183	-1.6442	8815.4	-849600.	.00679	.00638
#3	.00005	-1.2083	8875.2	-850680.	.00354	.00775

Check ?	Chk Pass	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass
High Limit		9.0000	9.0000	9.0000		
Low Limit		-.00400	-.00400	-.00400		

Elem	Si2124	Sn1899	Sr4077	Ti3372	Ti1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	13.644	-.00023	1.4809	-.01156	.00031	.00030
Stddev	.050	.00022	.1204	.00041	.00257	.00041
%RSD	.36875	95.117	8.1316	3.5771	826.18	139.43

#1	13.643	-.00037	1.3441	-.01156	.00227	.00040
#2	13.594	-.00034	1.5276	-.01198	-.00260	-.00016
#3	13.695	.00002	1.5710	-.01115	.00126	.00065

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Approved: July 31, 2012



Sample Name: L1207083604 Acquired: 7/30/2012 13:01:58 Type: Unk
 Method: ICP-THERMO2_6010_200.7(v2005) Mode: CONC Corr. Factor: 1.000000
 User: KHR Custom ID1: Custom ID2: Custom ID3:
 Comment:

Elem	Zn2062	Zr3391
Units	ppm	ppm
Avg	.00185	F -.60929
Stddev	.00006	.48480
%RSD	3.0172	79.567


#1	.00186	-.09825
#2	.00179	-.66695
#3	.00190	-1.0627

Check ?	Chk Pass	Chk Fail
High Limit		45.000
Low Limit		-.00400

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	29464.	16768.
Stddev	27.	784.
%RSD	.09227	4.6779

#1	29483.	17651.
#2	29476.	16498.
#3	29433.	16153.

Approved: July 31, 2012



Sample Name: CCV Acquired: 7/30/2012 13:07:59 Type: QC
 Method: ICP-THERMO2_6010_200.7(v2005) Mode: CONC Corr. Factor: 1.000000
 User: KHR Custom ID1: Custom ID2: Custom ID3:
 Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.40667	10.454	.40655	.50910	1.0422	.05118	10.553
Stddev	.00492	.732	.00073	.00328	.0637	.00051	.392
%RSD	1.2100	6.9977	.17878	.64470	6.1141	.99191	3.7132

#1	.40158	9.6274	.40690	.50540	.97024	.05079	10.121
#2	.40703	10.715	.40704	.51027	1.0650	.05099	10.650
#3	.41141	11.019	.40572	.51164	1.0915	.05175	10.887

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	Hf2322	Hf2641
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.05110	.20496	.50590	.51232	4.0777	1.0308	1.0797
Stddev	.00010	.00049	.00429	.00065	.2424	.0066	.2075
%RSD	.20500	.23757	.84831	.12702	5.9437	.64217	19.217

#1	.05112	.20518	.50332	.51300	3.8011	1.0372	.95068
#2	.05099	.20530	.50353	.51226	4.1792	1.0239	.96934
#3	.05119	.20440	.51086	.51170	4.2529	1.0313	1.3190

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Hf2773	Hf3399	K_7664	Li6707	Mg2790	Mn2576	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F .54457	F -.12031	52.883	1.0665	10.263	.54388	1.0283
Stddev	.49320	.92800	3.011	.0663	.589	.02241	.0021
%RSD	90.567	771.36	5.6947	6.2144	5.7387	4.1196	.20510

#1	1.0635	-.12074	49.440	.99268	9.5993	.51875	1.0306
#2	.08194	-1.0481	54.184	1.0859	10.464	.55115	1.0265
#3	.48827	.80791	55.025	1.1209	10.724	.56176	1.0278

Check ?	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	1.0000	1.0000					
Range	-10.000%	-10.000%					

Approved: July 31, 2012



Sample Name: CCV Acquired: 7/30/2012 13:07:59 Type: QC
 Method: ICP-THERMO2_6010_200.7(v2005) Mode: CONC Corr. Factor: 1.000000
 User: KHR Custom ID1: Custom ID2: Custom ID3:
 Comment:

Elem	Na5895	Ni2316	P_2149	Pb2203	Rb7800	S_1807	S_1820
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	52.638	.50446	9.4370	.51042	F 19.436	10.392	F 8.2799
Stddev	3.048	.00143	12.185	.00126	7.043	.053	1.7470
%RSD	5.7911	.28424	129.12	.24780	36.233	.50931	21.099

#1	49.192	.50591	-3.7032	.51110	11.440	10.428	9.0077
#2	53.740	.50305	20.364	.51121	22.154	10.331	9.5452
#3	54.981	.50441	11.650	.50896	24.716	10.417	6.2867

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Fail
Value					10.000		10.000
Range					10.000%		-10.000%

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3372	Tl1908
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.2182	.40847	4.8906	1.0166	1.0332	1.0696	.50793
Stddev	.0028	.00356	.0239	.0026	.0597	.0714	.00018
%RSD	.22806	.87112	.48769	.25703	5.7756	6.6710	.03606

#1	1.2202	.40936	4.8787	1.0196	.96509	.98871	.50808
#2	1.2151	.41150	4.8750	1.0149	1.0580	1.0967	.50799
#3	1.2194	.40455	4.9181	1.0153	1.0764	1.1235	.50773


Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm
Avg	1.0251	1.0131	F 1.3340
Stddev	.0107	.0021	.5210
%RSD	1.0452	.20796	39.057

#1	1.0177	1.0155	1.9339
#2	1.0204	1.0116	1.0737
#3	1.0374	1.0122	.99441

Check ?	Chk Pass	Chk Pass	Chk Fail
Value			1.0000
Range			10.000%

Approved: July 31, 2012



Sample Name: CCV Acquired: 7/30/2012 13:07:59 Type: QC
Method: ICP-THERMO2_6010_200.7(v2005) Mode: CONC Corr. Factor: 1.000000
User: KHR Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	30209.	16184.
Stddev	93.	595.
%RSD	.30644	3.6749
#1	30303.	16865.
#2	30204.	15920.
#3	30118.	15768.

Approved: July 31, 2012



Sample Name: CCB Acquired: 7/30/2012 13:11:06 Type: Blank
 Method: ICP-THERMO2_6010_200.7(v2005) Mode: CONC Corr. Factor: 1.000000
 User: KHR Custom ID1: Custom ID2: Custom ID3:
 Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.00129	-.01768	.00064	.00261	.00037	.00001	-.03490
Stddev	.00038	.02530	.00259	.00102	.00044	.00004	.03175
%RSD	29.671	143.05	406.91	39.041	118.95	346.64	90.968

#1	-.00089	-.01856	-.00032	.00153	.00041	.00005	.00109
#2	-.00166	.00804	-.00134	.00274	.00080	.00003	-.05893
#3	-.00132	-.04253	.00357	.00356	-.00009	-.00003	-.04687

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	Hf2322	Hf2641
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.00008	.00022	-.00004	-.00073	-.00435	.00526	F -.17005
Stddev	.00019	.00028	.00022	.00026	.00295	.00429	.75736
%RSD	253.09	126.92	581.16	36.279	67.950	81.656	445.37

#1	.00008	-.00003	.00019	-.00103	-.00775	.00990	.08697
#2	-.00001	.00052	-.00024	-.00052	-.00241	.00446	-1.0225
#3	-.00029	.00018	-.00007	-.00064	-.00289	.00142	.42534

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit							.10000
Low Limit							-.10000

Elem	Hf2773	Hf3399	K_7664	Li6707	Mg2790	Mn2576	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F .47046	F 1.4208	.34526	.00272	.00616	.00017	.00095
Stddev	.90261	.6777	.09036	.00389	.02127	.00005	.00021
%RSD	191.86	47.700	26.173	143.45	345.12	31.709	22.328

#1	.85996	.78169	.38216	.00552	.01353	.00019	.00120
#2	-.56150	1.3493	.41134	-.00173	.02278	.00011	.00086
#3	1.1129	2.1315	.24229	.00436	-.01781	.00020	.00081

Check ?	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	.10000	.10000					
Low Limit	-.10000	-.10000					

Approved: July 31, 2012



Sample Name: CCB Acquired: 7/30/2012 13:11:06 Type: Blank
 Method: ICP-THERMO2_6010_200.7(v2005) Mode: CONC Corr. Factor: 1.000000
 User: KHR Custom ID1: Custom ID2: Custom ID3:
 Comment:

Elem	Na5895	Ni2316	P_2149	Pb2203	Rb7800	S_1807	S_1820
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.09046	.00135	F -1.7292	.00117	F 14.333	-.00729	F -.72377
Stddev	.07827	.00076	3.3174	.00070	15.177	.06400	2.2167
%RSD	86.519	56.143	191.85	59.784	105.89	877.49	306.28

#1	.17935	.00108	1.6493	.00195	-3.1159	-.01579	1.2945
#2	.06016	.00220	-4.9821	.00063	21.649	.06053	-3.0963
#3	.03188	.00076	-1.8547	.00092	24.466	-.06661	-.36943

Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Fail	Chk Pass	Chk Fail
High Limit			.01000		.01000		.01000
Low Limit			-.01000		-.01000		-.01000

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3372	Tl1908
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00607	-.00209	.00566	.00022	.00063	-.00216	-.00002
Stddev	.00497	.00246	.00451	.00009	.00100	.00466	.00095
%RSD	81.831	117.68	79.736	40.475	158.42	215.67	5998.7

#1	.01138	-.00289	.00321	.00031	.00172	-.00011	-.00039
#2	.00153	.00067	.00290	.00022	-.00025	.00112	-.00072
#3	.00530	-.00405	.01086	.00013	.00043	-.00749	.00106

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm
Avg	.00035	.00017	F -.58739
Stddev	.00034	.00005	.43617
%RSD	98.941	29.808	74.257

#1	.00002	.00018	-1.0363
#2	.00032	.00021	-.16518
#3	.00070	.00011	-.56068

Check ?	Chk Pass	Chk Pass	Chk Fail
High Limit			.10000
Low Limit			-.10000

Approved: July 31, 2012



Sample Name: CCB Acquired: 7/30/2012 13:11:06 Type: Blank
Method: ICP-THERMO2_6010_200.7(v2005) Mode: CONC Corr. Factor: 1.000000
User: KHR Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	30251.	16269.
Stddev	122.	681.
%RSD	.40416	4.1829
#1	30389.	17042.
#2	30157.	16009.
#3	30208.	15758.

Approved: July 31, 2012



Sample Name: L1207083606 Acquired: 7/30/2012 13:14:21 Type: Unk
 Method: ICP-THERMO2_6010_200.7(v2005) Mode: CONC Corr. Factor: 1.000000
 User: KHR Custom ID1: Custom ID2: Custom ID3:
 Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-0.0133	-0.03674	-0.00026	.04332	.11674	.00004
Stddev	.00054	.01336	.00031	.00156	.00719	.00003
%RSD	40.622	36.360	120.25	3.5992	6.1604	70.465

#1	-0.0074	-0.04540	-0.00041	.04512	.10881	.00003
#2	-0.00144	-0.04346	-0.00046	.04228	.11857	.00002
#3	-0.00180	-0.02135	.00010	.04257	.12284	.00007

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Ca4226	Cd2288	Co2286	Cr2677	Cu2247	Fe2611
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	478.31	.00149	.00168	.00089	-0.00085	.16050
Stddev	24.94	.00002	.00023	.00074	.00044	.02158
%RSD	5.2136	1.4189	13.588	83.450	51.472	13.448

#1	450.86	.00149	.00142	.00070	-0.00039	.13676
#2	484.51	.00147	.00183	.00026	-0.00090	.17894
#3	499.57	.00152	.00180	.00171	-0.00126	.16581

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Hf2322	Hf2641	Hf2773	Hf3399	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.4938	11.773	-0.03238	1.1559	5.8130	.02389
Stddev	.0045	1.082	.46856	1.0220	.3430	.00147
%RSD	.29828	9.1915	1447.0	88.423	5.9006	6.1528

#1	1.4888	10.645	.50807	2.2809	5.4217	.02221
#2	1.4953	11.870	-0.32460	.28467	5.9554	.02493
#3	1.4973	12.803	-0.28061	.90201	6.0619	.02454

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Approved: July 31, 2012



Sample Name: L1207083606 Acquired: 7/30/2012 13:14:21 Type: Unk
 Method: ICP-THERMO2_6010_200.7(v2005) Mode: CONC Corr. Factor: 1.000000
 User: KHR Custom ID1: Custom ID2: Custom ID3:
 Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	133.31	.15288	.00198	17.860	.00347	F 3236.6
Stddev	7.55	.00415	.00008	.992	.00013	24.2
%RSD	5.6658	2.7152	4.2471	5.5544	3.8340	.74858

#1	125.06	.14868	.00197	16.783	.00332	3255.9
#2	135.00	.15300	.00191	18.061	.00352	3244.4
#3	139.88	.15698	.00207	18.737	.00356	3209.4

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit						900.00
Low Limit						-.00400

Elem	Pb2203	Rb7800	S_1807	S_1820	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00335	.80898	F 9267.1	F -896050.	.00255	.00605
Stddev	.00169	11.573	30.9	1748.	.00230	.00336
%RSD	50.387	1430.5	.33390	.19504	90.144	55.516

#1	.00145	-1.5745	9273.7	-896850.	.00023	.00289
#2	.00390	-9.3863	9233.3	-894040.	.00483	.00568
#3	.00469	13.388	9294.1	-897250.	.00260	.00958

Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Fail	Chk Pass	Chk Pass
High Limit			9.0000	9.0000		
Low Limit			-.00400	-.00400		

Elem	Si2124	Sn1899	Sr4077	Ti3372	Tl1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	16.354	-.00004	1.5569	-.01241	.00018	-.00009
Stddev	.054	.00042	.0914	.00214	.00167	.00061
%RSD	.32986	1204.4	5.8684	17.215	951.32	708.37

#1	16.352	.00012	1.4568	-.01051	.00182	-.00077
#2	16.302	.00029	1.5779	-.01201	-.00153	.00042
#3	16.410	-.00051	1.6359	-.01472	.00023	.00009

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Approved: July 31, 2012



Sample Name: L1207083606 Acquired: 7/30/2012 13:14:21 Type: Unk
 Method: ICP-THERMO2_6010_200.7(v2005) Mode: CONC Corr. Factor: 1.000000
 User: KHR Custom ID1: Custom ID2: Custom ID3:
 Comment:

Elem	Zn2062	Zr3391
Units	ppm	ppm
Avg	.00328	F -.27614
Stddev	.00004	.26332
%RSD	1.0843	95.359


#1	.00332	.01909
#2	.00325	-.36074
#3	.00327	-.48675

Check ?	Chk Pass	Chk Fail
High Limit		45.000
Low Limit		-.00400

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	29252.	16196.
Stddev	51.	459.
%RSD	.17395	2.8315

#1	29212.	16696.
#2	29235.	16097.
#3	29310.	15795.

Approved: July 31, 2012



Sample Name: L1207083608 Acquired: 7/30/2012 13:17:27 Type: Unk
 Method: ICP-THERMO2_6010_200.7(v2005) Mode: CONC Corr. Factor: 1.000000
 User: KHR Custom ID1: Custom ID2: Custom ID3:
 Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-0.0030	-0.09165	.00155	.06051	.10093	.00001
Stddev	.00065	.02852	.00144	.00147	.00863	.00003
%RSD	219.34	31.119	92.818	2.4366	8.5467	257.74

#1	-0.0105	-0.11541	.00319	.05907	.09117	.00002
#2	.00001	-0.09952	.00054	.06201	.10409	-.00002
#3	.00014	-0.06002	.00091	.06046	.10753	.00003

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Ca4226	Cd2288	Co2286	Cr2677	Cu2247	Fe2611
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	463.42	.00140	.00253	.00094	-.00111	.24203
Stddev	36.70	.00012	.00021	.00073	.00111	.02220
%RSD	7.9194	8.8263	8.3180	77.471	99.455	9.1706

#1	422.25	.00130	.00276	.00164	-.00132	.21657
#2	475.29	.00137	.00236	.00099	-.00210	.25221
#3	492.71	.00154	.00246	.00019	.00008	.25730


Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Hf2322	Hf2641	Hf2773	Hf3399	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.4864	12.100	.44065	2.1675	5.3583	.02293
Stddev	.0053	1.033	.73065	.6662	.4580	.00200
%RSD	.35382	8.5328	165.81	30.734	8.5478	8.7443

#1	1.4904	10.912	1.2806	2.8345	4.8301	.02096
#2	1.4883	12.776	.08895	2.1661	5.6450	.02284
#3	1.4804	12.613	-.04763	1.5021	5.5998	.02497

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Approved: July 31, 2012



Sample Name: L1207083608 Acquired: 7/30/2012 13:17:27 Type: Unk
 Method: ICP-THERMO2_6010_200.7(v2005) Mode: CONC Corr. Factor: 1.000000
 User: KHR Custom ID1: Custom ID2: Custom ID3:
 Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	130.49	.12777	.00938	17.429	.00789	F 3494.9
Stddev	10.71	.00534	.00034	1.455	.00126	9.1
%RSD	8.2081	4.1759	3.5813	8.3477	16.013	.25969

#1	118.32	.12171	.00910	15.781	.00818	3485.1
#2	134.66	.12982	.00975	17.967	.00650	3503.0
#3	138.49	.13176	.00929	18.538	.00898	3496.5

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit						900.00
Low Limit						-.00400

Elem	Pb2203	Rb7800	S_1807	S_1820	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00302	F -3.9818	F 9325.9	F -891560.	.00443	-.00366
Stddev	.00224	4.8030	82.2	600.	.00393	.00124
%RSD	74.062	120.62	.88111	.06726	88.617	33.940

#1	.00525	-8.5817	9247.3	-891730.	.00857	-.00509
#2	.00304	-4.3653	9411.2	-892050.	.00076	-.00279
#3	.00077	1.0014	9319.1	-890890.	.00396	-.00311

Check ?	Chk Pass	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass
High Limit		9.0000	9.0000	9.0000		
Low Limit		-.00400	-.00400	-.00400		

Elem	Si2124	Sn1899	Sr4077	Ti3372	Ti1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	18.003	-.00031	1.5178	-.01044	.00068	.00780
Stddev	.187	.00047	.1321	.00201	.00204	.00043
%RSD	1.0390	151.13	8.7004	19.220	299.94	5.5179

#1	17.824	-.00023	1.3690	-.00845	-.00046	.00826
#2	18.197	.00011	1.5631	-.01247	-.00054	.00774
#3	17.988	-.00083	1.6212	-.01041	.00303	.00740

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Approved: July 31, 2012



Sample Name: L1207083608 Acquired: 7/30/2012 13:17:27 Type: Unk
 Method: ICP-THERMO2_6010_200.7(v2005) Mode: CONC Corr. Factor: 1.000000
 User: KHR Custom ID1: Custom ID2: Custom ID3:
 Comment:

Elem	Zn2062	Zr3391
Units	ppm	ppm
Avg	.00313	F -.65386
Stddev	.00002	.79244
%RSD	.59539	121.19


#1	.00311	-1.5685
#2	.00313	-.22082
#3	.00315	-.17230

Check ?	Chk Pass	Chk Fail
High Limit		45.000
Low Limit		-.00400

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	29302.	16585.
Stddev	108.	761.
%RSD	.36970	4.5878

#1	29404.	17436.
#2	29188.	16346.
#3	29314.	15972.

Approved: July 31, 2012



Sample Name: L1207083610 Acquired: 7/30/2012 13:20:32 Type: Unk
 Method: ICP-THERMO2_6010_200.7(v2005) Mode: CONC Corr. Factor: 1.000000
 User: KHR Custom ID1: Custom ID2: Custom ID3:
 Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.00055	-.07878	.00200	.05135	.10282	.00002
Stddev	.00139	.01607	.00063	.00151	.00840	.00007
%RSD	252.03	20.394	31.429	2.9498	8.1683	413.06

#1	-0.0215	-.09200	.00272	.04961	.09323	.00010
#2	.00012	-.06090	.00155	.05206	.10634	-.00002
#3	.00037	-.08343	.00174	.05237	.10888	-.00003

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Ca4226	Cd2288	Co2286	Cr2677	Cu2247	Fe2611
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	469.19	.00144	.00212	.00137	-.00019	.09628
Stddev	34.30	.00015	.00023	.00060	.00038	.00941
%RSD	7.3112	10.760	10.662	43.778	200.38	9.7766

#1	430.81	.00161	.00203	.00097	.00001	.08677
#2	479.90	.00139	.00238	.00109	-.00063	.10560
#3	496.86	.00131	.00196	.00206	.00005	.09647


Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Hf2322	Hf2641	Hf2773	Hf3399	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.4825	11.623	.49680	.24305	5.8506	.01798
Stddev	.0032	1.234	.82783	.48724	.5474	.00027
%RSD	.21414	10.618	166.63	200.47	9.3555	1.5127

#1	1.4854	10.263	-.45896	.74686	5.2846	.01800
#2	1.4830	11.934	.96049	-.22574	5.8899	.01824
#3	1.4791	12.671	.98887	.20804	6.3772	.01770

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Approved: July 31, 2012



Sample Name: L1207083610 Acquired: 7/30/2012 13:20:32 Type: Unk
 Method: ICP-THERMO2_6010_200.7(v2005) Mode: CONC Corr. Factor: 1.000000
 User: KHR Custom ID1: Custom ID2: Custom ID3:
 Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	130.96	.15431	.00146	17.920	.00236	F 3545.0
Stddev	10.37	.00856	.00023	1.427	.00058	8.7
%RSD	7.9214	5.5473	15.553	7.9637	24.585	.24478

#1	119.29	.14448	.00172	16.310	.00170	3553.4
#2	134.47	.15833	.00131	18.421	.00264	3545.4
#3	139.12	.16011	.00135	19.028	.00276	3536.1

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit						900.00
Low Limit						-.00400

Elem	Pb2203	Rb7800	S_1807	S_1820	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00370	F -4.0799	F 9366.5	F -884950.	.00186	.00608
Stddev	.00231	13.247	21.9	1361.	.00075	.00436
%RSD	62.571	324.69	.23381	.15384	40.108	71.674

#1	.00342	-2.6859	9385.0	-886510.	.00100	.01095
#2	.00154	-17.969	9342.3	-884310.	.00223	.00252
#3	.00614	8.4150	9372.2	-884030.	.00236	.00478


Check ?	Chk Pass	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass
High Limit		9.0000	9.0000	9.0000		
Low Limit		-.00400	-.00400	-.00400		

Elem	Si2124	Sn1899	Sr4077	Ti3372	Ti1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	17.035	.00012	1.5418	-.00970	-.00054	.00060
Stddev	.041	.00063	.1209	.00225	.00197	.00016
%RSD	.23919	537.62	7.8433	23.188	365.32	27.209

#1	17.054	.00067	1.4062	-.00712	.00096	.00044
#2	16.988	.00024	1.5807	-.01070	-.00277	.00058
#3	17.063	-.00056	1.6385	-.01127	.00019	.00077

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Approved: July 31, 2012



Sample Name: L1207083610 Acquired: 7/30/2012 13:20:32 Type: Unk
 Method: ICP-THERMO2_6010_200.7(v2005) Mode: CONC Corr. Factor: 1.000000
 User: KHR Custom ID1: Custom ID2: Custom ID3:
 Comment:

Elem	Zn2062	Zr3391
Units	ppm	ppm
Avg	.00188	F -.81092
Stddev	.00002	.16372
%RSD	.93309	20.190


#1	.00187	-.89621
#2	.00189	-.62216
#3	.00190	-.91438

Check ?	Chk Pass	Chk Fail
High Limit		45.000
Low Limit		-.00400

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	29342.	16517.
Stddev	57.	818.
%RSD	.19427	4.9494

#1	29292.	17453.
#2	29404.	16156.
#3	29329.	15942.

Approved: July 31, 2012



Sample Name: L1207083612 Acquired: 7/30/2012 13:23:37 Type: Unk
 Method: ICP-THERMO2_6010_200.7(v2005) Mode: CONC Corr. Factor: 1.000000
 User: KHR Custom ID1: Custom ID2: Custom ID3:
 Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-0.0069	-0.02690	-0.00125	.04973	.09824	.00002
Stddev	.00008	.02089	.00177	.00037	.00983	.00001
%RSD	11.591	77.677	141.74	.74036	10.001	55.326

#1	-0.0060	-0.02605	.00076	.04959	.08692	.00001
#2	-0.0075	-0.04820	-0.00193	.04946	.10320	.00002
#3	-0.0071	-0.00644	-0.00258	.05015	.10459	.00002

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Ca4226	Cd2288	Co2286	Cr2677	Cu2247	Fe2611
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	470.42	.00143	.00249	.00133	-.00138	.14276
Stddev	37.50	.00008	.00020	.00049	.00027	.01480
%RSD	7.9719	5.9599	8.1246	36.763	19.980	10.365

#1	427.41	.00146	.00241	.00118	-.00169	.12653
#2	487.52	.00149	.00233	.00188	-.00120	.14623
#3	496.32	.00133	.00272	.00093	-.00124	.15551

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Hf2322	Hf2641	Hf2773	Hf3399	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.4760	12.053	.60205	1.1397	5.7958	.02850
Stddev	.0046	1.269	.57527	.7376	.4155	.00501
%RSD	.30985	10.528	95.551	64.716	7.1697	17.564

#1	1.4707	10.674	.25474	.49582	5.3182	.02340
#2	1.4782	13.172	.28534	.97889	6.0742	.02871
#3	1.4790	12.312	1.2661	1.9445	5.9950	.03340

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Approved: July 31, 2012



Sample Name: L1207083612 Acquired: 7/30/2012 13:23:37 Type: Unk
 Method: ICP-THERMO2_6010_200.7(v2005) Mode: CONC Corr. Factor: 1.000000
 User: KHR Custom ID1: Custom ID2: Custom ID3:
 Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	131.47	.15209	.00379	17.590	.00483	F 3471.8
Stddev	11.96	.00609	.00026	1.557	.00073	22.9
%RSD	9.1004	4.0015	6.9785	8.8495	15.200	.65992

#1	117.77	.14511	.00371	15.810	.00562	3469.5
#2	136.77	.15486	.00357	18.263	.00417	3495.8
#3	139.87	.15630	.00408	18.697	.00469	3450.2

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit						900.00
Low Limit						-.00400

Elem	Pb2203	Rb7800	S_1807	S_1820	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00429	F -.36760	F 9278.0	F -884430.	.00461	.00833
Stddev	.00140	18.749	74.0	1713.	.00067	.00040
%RSD	32.526	5100.4	.79709	.19366	14.514	4.8531

#1	.00454	-14.015	9266.6	-883600.	.00386	.00818
#2	.00555	21.011	9357.0	-886400.	.00485	.00879
#3	.00279	-8.0988	9210.5	-883300.	.00513	.00802

Check ?	Chk Pass	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass
High Limit		9.0000	9.0000	9.0000		
Low Limit		-.00400	-.00400	-.00400		

Elem	Si2124	Sn1899	Sr4077	Ti3372	Ti1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	16.350	-.00035	1.5384	-.01095	.00089	.00260
Stddev	.139	.00020	.1390	.00377	.00191	.00059
%RSD	.84714	55.161	9.0338	34.416	214.11	22.553

#1	16.283	-.00049	1.3790	-.00906	.00031	.00291
#2	16.509	-.00044	1.6023	-.01529	-.00066	.00192
#3	16.258	-.00013	1.6340	-.00849	.00303	.00296

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Approved: July 31, 2012



Sample Name: L1207083612 Acquired: 7/30/2012 13:23:37 Type: Unk
 Method: ICP-THERMO2_6010_200.7(v2005) Mode: CONC Corr. Factor: 1.000000
 User: KHR Custom ID1: Custom ID2: Custom ID3:
 Comment:

Elem	Zn2062	Zr3391
Units	ppm	ppm
Avg	.00339	F -.32993
Stddev	.00001	.65418
%RSD	.32777	198.28


#1	.00338	.05660
#2	.00340	.03885
#3	.00338	-1.0852

Check ?	Chk Pass	Chk Fail
High Limit		45.000
Low Limit		-.00400

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	29227.	16414.
Stddev	82.	713.
%RSD	.28177	4.3456

#1	29203.	17234.
#2	29319.	16079.
#3	29160.	15931.

Approved: July 31, 2012



Sample Name: CCV Acquired: 7/30/2012 13:29:29 Type: QC
 Method: ICP-THERMO2_6010_200.7(v2005) Mode: CONC Corr. Factor: 1.000000
 User: KHR Custom ID1: Custom ID2: Custom ID3:
 Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.40305	10.303	.40676	.50546	1.0239	.05042	10.513
Stddev	.00199	.942	.00215	.00348	.0863	.00018	.498
%RSD	.49426	9.1392	.52960	.68760	8.4249	.35498	4.7377

#1	.40442	9.2343	.40827	.50903	.92593	.05058	9.9599
#2	.40077	10.663	.40429	.50208	1.0570	.05046	10.654
#3	.40397	11.011	.40771	.50528	1.0886	.05022	10.926

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	Hf2322	Hf2641
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.05097	.20495	.49949	.51165	4.0015	1.0254	F .16221
Stddev	.00014	.00060	.00267	.00298	.3390	.0033	.38683
%RSD	.27500	.29390	.53526	.58195	8.4723	.31868	238.47

#1	.05094	.20527	.50170	.51355	3.6159	1.0276	.60277
#2	.05113	.20533	.50025	.51319	4.1355	1.0217	-.12189
#3	.05085	.20425	.49652	.50822	4.2530	1.0270	.00576

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
Value							1.0000
Range							-10.000%

Elem	Hf2773	Hf3399	K_7664	Li6707	Mg2790	Mn2576	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.90746	F -.30118	52.326	1.0473	10.062	.54179	1.0265
Stddev	.86643	.55016	4.450	.0957	.781	.01944	.0020
%RSD	95.478	182.67	8.5041	9.1395	7.7572	3.5883	.19528

#1	.99133	.32784	47.352	.93848	9.1754	.51961	1.0272
#2	1.7289	-53866	53.697	1.0852	10.366	.54990	1.0281
#3	.00215	-69271	55.930	1.1184	10.645	.55587	1.0243

Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value		1.0000					
Range		-10.000%					

Approved: July 31, 2012



Sample Name: CCV Acquired: 7/30/2012 13:29:29 Type: QC
 Method: ICP-THERMO2_6010_200.7(v2005) Mode: CONC Corr. Factor: 1.000000
 User: KHR Custom ID1: Custom ID2: Custom ID3:
 Comment:

Elem	Na5895	Ni2316	P_2149	Pb2203	Rb7800	S_1807	S_1820
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	51.822	.50338	F 25.341	.50696	F 23.980	10.665	F -12.801
Stddev	4.323	.00166	11.216	.00120	5.551	.241	19.256
%RSD	8.3415	.32895	44.261	.23693	23.150	2.2554	150.42

#1	46.906	.50154	13.914	.50816	20.816	10.936	-34.473
#2	53.529	.50476	25.775	.50696	20.734	10.583	-6.2734
#3	55.030	.50382	36.334	.50575	30.390	10.476	2.3425

Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Fail	Chk Pass	Chk Fail
Value			10.000		10.000		10.000
Range			10.000%		10.000%		-10.000%

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3372	Ti1908
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.2169	.40767	4.8946	1.0155	1.0149	1.0554	.51044
Stddev	.0045	.00423	.0481	.0004	.0826	.0880	.00324
%RSD	.36986	1.0368	.98363	.04402	8.1414	8.3351	.63441

#1	1.2120	.40352	4.8466	1.0150	.92153	.95590	.50686
#2	1.2209	.41197	4.8943	1.0159	1.0445	1.0877	.51131
#3	1.2176	.40752	4.9429	1.0154	1.0786	1.1227	.51316

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm
Avg	1.0161	1.0127	F .17732
Stddev	.0050	.0019	.04008
%RSD	.49514	.18258	22.604

#1	1.0218	1.0125	.20215
#2	1.0122	1.0146	.19872
#3	1.0144	1.0110	.13108

Check ?	Chk Pass	Chk Pass	Chk Fail
Value			1.0000
Range			-10.000%

Approved: July 31, 2012



Sample Name: CCV Acquired: 7/30/2012 13:29:29 Type: QC
Method: ICP-THERMO2_6010_200.7(v2005) Mode: CONC Corr. Factor: 1.000000
User: KHR Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	29765.	15897.
Stddev	80.	606.
%RSD	.26742	3.8110
#1	29686.	16596.
#2	29763.	15579.
#3	29846.	15517.

Approved: July 31, 2012



Sample Name: CCB Acquired: 7/30/2012 13:32:32 Type: Blank
 Method: ICP-THERMO2_6010_200.7(v2005) Mode: CONC Corr. Factor: 1.000000
 User: KHR Custom ID1: Custom ID2: Custom ID3:
 Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.00088	-.02519	-.00008	.00051	.00100	.00001	.00218
Stddev	.00028	.05525	.00220	.00048	.00029	.00006	.00329
%RSD	31.756	219.37	2599.5	93.984	28.981	557.97	150.98

#1	-.00118	-.01135	.00190	.00069	.00132	.00006	.00049
#2	-.00065	-.08605	-.00245	.00086	.00075	-.00005	.00008
#3	-.00080	.02183	.00029	-.00003	.00093	.00001	.00597

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	Hf2322	Hf2641
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.00011	.00027	-.00044	-.00002	.00055	.00733	F .10414
Stddev	.00016	.00024	.00029	.00037	.00476	.00154	.14031
%RSD	145.11	90.549	65.101	1717.8	869.64	20.997	134.74

#1	-.00019	.00044	-.00026	-.00004	.00300	.00910	-.04201
#2	.00007	-.00001	-.00078	.00036	.00359	.00656	.23779
#3	-.00023	.00036	-.00029	-.00038	-.00494	.00632	.11663

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit							.10000
Low Limit							-.10000

Elem	Hf2773	Hf3399	K_7664	Li6707	Mg2790	Mn2576	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F .20252	F .86661	.34172	.00241	-.02578	.00019	.00077
Stddev	.51201	1.8704	.07221	.00487	.02919	.00015	.00007
%RSD	252.82	215.83	21.132	202.27	113.22	79.885	9.2491

#1	.79018	-.46949	.38246	.00399	-.05924	.00001	.00070
#2	-.03521	3.0042	.25835	.00629	-.00552	.00027	.00077
#3	-.14741	.06510	.38437	-.00306	-.01258	.00028	.00084

Check ?	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	.10000	.10000					
Low Limit	-.10000	-.10000					

Approved: July 31, 2012



Sample Name: CCB Acquired: 7/30/2012 13:32:32 Type: Blank
 Method: ICP-THERMO2_6010_200.7(v2005) Mode: CONC Corr. Factor: 1.000000
 User: KHR Custom ID1: Custom ID2: Custom ID3:
 Comment:

Elem	Na5895	Ni2316	P_2149	Pb2203	Rb7800	S_1807	S_1820
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.05746	.00067	F -3.5279	.00036	F 23.618	F .01787	F -5.7879
Stddev	.05033	.00029	18.521	.00210	17.161	.07189	5.3834
%RSD	87.600	44.032	524.97	589.48	72.662	402.31	93.010

#1	.11555	.00100	-17.226	.00190	11.268	.08159	-1.6971
#2	.02989	.00053	17.544	.00121	43.214	-.06007	-3.7800
#3	.02693	.00047	-10.902	-.00204	16.373	.03210	-11.887

Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Fail	Chk Fail	Chk Fail
High Limit			.01000		.01000	.01000	.01000
Low Limit			-.01000		-.01000	-.01000	-.01000

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3372	Tl1908
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00074	.00059	.00272	.00004	.00050	.00053	.00094
Stddev	.00347	.00126	.00098	.00028	.00060	.00643	.00124
%RSD	472.17	213.27	36.211	745.18	121.13	1213.4	131.34

#1	-.00174	.00151	.00195	.00011	.00119	.00249	.00228
#2	-.00076	-.00085	.00238	-.00027	.00011	-.00665	-.00017
#3	.00471	.00112	.00383	.00028	.00018	.00575	.00072

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm
Avg	.00046	.00011	F -.73190
Stddev	.00012	.00011	.58570
%RSD	26.267	93.114	80.025

#1	.00046	.00023	-.89826
#2	.00034	.00008	-1.2164
#3	.00059	.00003	-.08102

Check ?	Chk Pass	Chk Pass	Chk Fail
High Limit			.10000
Low Limit			-.10000

Approved: July 31, 2012



Sample Name: CCB Acquired: 7/30/2012 13:32:32 Type: Blank
Method: ICP-THERMO2_6010_200.7(v2005) Mode: CONC Corr. Factor: 1.000000
User: KHR Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	30583.	15936.
Stddev	94.	778.
%RSD	.30742	4.8808
#1	30687.	16834.
#2	30559.	15514.
#3	30503.	15461.

Approved: July 31, 2012



Sample Name: LLCCV Acquired: 7/30/2012 13:35:41 Type: Unk
 Method: ICP-THERMO2_6010_200.7(v2005) Mode: CONC Corr. Factor: 1.000000
 User: KHR Custom ID1: Custom ID2: Custom ID3:
 Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00829	.16660	.00904	.01125	.02112	.00101	.22712
Stddev	.00081	.03573	.00060	.00066	.00257	.00001	.00969
%RSD	9.7643	21.445	6.6337	5.8328	12.175	.80629	4.2649

#1	.00791	.15810	.00848	.01096	.01819	.00102	.23276
#2	.00774	.13589	.00967	.01080	.02213	.00101	.23266
#3	.00922	.20581	.00895	.01201	.02302	.00101	.21593

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	Hf2322	Hf2641
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00094	.00453	.00975	.01007	.07926	.02607	.66883
Stddev	.00005	.00029	.00053	.00062	.01342	.00785	.68329
%RSD	5.1248	6.5002	5.3898	6.1231	16.930	30.117	102.16

#1	.00099	.00443	.00921	.01079	.06434	.03423	-.04454
#2	.00095	.00487	.00978	.00973	.08309	.01856	1.3174
#3	.00089	.00430	.01026	.00971	.09035	.02543	.73361

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Hf2773	Hf3399	K_7664	Li6707	Mg2790	Mn2576	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.81271	.80655	1.1888	.02646	.20791	.01541	.02114
Stddev	.84811	1.4681	.0705	.00475	.03791	.00076	.00027
%RSD	104.36	182.03	5.9307	17.947	18.234	4.9027	1.3006

#1	-.01008	-.87055	1.1154	.02182	.20066	.01464	.02090
#2	1.6840	1.8595	1.1950	.02626	.17414	.01546	.02144
#3	.76416	1.4308	1.2560	.03131	.24892	.01614	.02108

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: July 31, 2012



Sample Name: LLCCV Acquired: 7/30/2012 13:35:41 Type: Unk
 Method: ICP-THERMO2_6010_200.7(v2005) Mode: CONC Corr. Factor: 1.000000
 User: KHR Custom ID1: Custom ID2: Custom ID3:
 Comment:

Elem	Na5895	Ni2316	P_2149	Pb2203	Rb7800	S_1807	S_1820
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.1461	.01185	.11740	.01142	F 11.967	1.6897	F -135.96
Stddev	.0733	.00084	22.630	.00236	8.033	1.8654	170.23
%RSD	6.3997	7.0953	19276.	20.635	67.127	110.40	125.21

#1	1.0615	.01235	12.249	.01119	3.8109	.74642	-56.365
#2	1.1859	.01088	14.095	.01388	12.219	3.8383	-331.40
#3	1.1910	.01233	-25.992	.00918	19.871	.48422	-20.100

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Fail
High Limit					9.0000		9.0000
Low Limit					-.00400		-.00400

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3372	Tl1908
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.02685	.00925	.10070	.02120	.02040	.01969	.01130
Stddev	.00046	.00308	.00550	.00036	.00189	.00370	.00329
%RSD	1.7237	33.319	5.4615	1.6871	9.2565	18.816	29.147

#1	.02689	.00641	.09515	.02147	.01825	.01589	.01009
#2	.02637	.01253	.10615	.02080	.02117	.01988	.01503
#3	.02729	.00883	.10080	.02133	.02178	.02329	.00879

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm
Avg	.02004	.02247	F -.27628
Stddev	.00043	.00006	.33186
%RSD	2.1332	.26203	120.12

#1	.02052	.02245	.08713
#2	.01989	.02242	-.35270
#3	.01971	.02254	-.56326

Check ?	Chk Pass	Chk Pass	Chk Fail
High Limit			45.000
Low Limit			-.00400

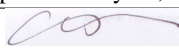
Approved: July 31, 2012



Sample Name: LLCCV Acquired: 7/30/2012 13:35:41 Type: Unk
Method: ICP-THERMO2_6010_200.7(v2005) Mode: CONC Corr. Factor: 1.000000
User: KHR Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	31004.	16645.
Stddev	69.	705.
%RSD	.22394	4.2336
#1	31028.	17436.
#2	31058.	16415.
#3	30925.	16085.

Approved: July 31, 2012



Sample Name: PBW 17 Acquired: 7/30/2012 13:38:48 Type: Unk
 Method: ICP-THERMO2_6010_200.7(v2005) Mode: CONC Corr. Factor: 1.000000
 User: KHR Custom ID1: Custom ID2: Custom ID3:
 Comment: WG404865-03

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.00103	-.01718	.00058	-.00063	-.00033	-.00001	.01686
Stddev	.00075	.03167	.00091	.00135	.00039	.00002	.01424
%RSD	73.014	184.36	157.24	214.84	117.49	161.87	84.482

#1	-.00189	.01274	.00162	-.00217	-.00070	.00000	.03226
#2	-.00065	-.01392	-.00008	.00036	-.00038	.00000	.00416
#3	-.00054	-.05035	.00020	-.00008	.00008	-.00003	.01415

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	Hf2322	Hf2641
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00002	.00023	-.00020	-.00061	.00980	.00265	F -.10990
Stddev	.00001	.00011	.00044	.00041	.00462	.00608	.61334
%RSD	30.832	49.227	222.24	66.526	47.090	229.59	558.08

#1	.00003	.00027	-.00014	-.00083	.01344	.00845	-.78089
#2	.00001	.00010	-.00066	-.00087	.01137	.00316	.42185
#3	.00002	.00031	.00021	-.00014	.00461	-.00367	.02933


Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit							45.000
Low Limit							-.10000

Elem	Hf2773	Hf3399	K_7664	Li6707	Mg2790	Mn2576	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.89238	1.3059	.07052	.00420	.01303	.00049	.00020
Stddev	.99746	.9648	.13538	.00147	.01771	.00012	.00023
%RSD	111.78	73.882	191.97	35.104	135.99	25.081	116.95

#1	1.4346	.46744	.03158	.00261	.03290	.00042	.00045
#2	-.25874	1.0898	.22111	.00552	-.00111	.00063	.00013
#3	1.5013	2.3605	-.04112	.00446	.00730	.00042	.00001

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: July 31, 2012



Sample Name: PBW 17 Acquired: 7/30/2012 13:38:48 Type: Unk
 Method: ICP-THERMO2_6010_200.7(v2005) Mode: CONC Corr. Factor: 1.000000
 User: KHR Custom ID1: Custom ID2: Custom ID3:
 Comment: WG404865-03

Elem	Na5895	Ni2316	P_2149	Pb2203	Rb7800	S_1807	S_1820
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.05526	.00149	3.8060	-.00005	F -2.8614	.06903	F -8.5397
Stddev	.00185	.00017	9.8726	.00199	12.199	.04786	2.2232
%RSD	3.3410	11.245	259.40	4224.2	426.35	69.334	26.034

#1	.05534	.00164	15.143	-.00138	-15.848	.01508	-5.9921
#2	.05706	.00131	-2.8955	-.00100	8.3577	.08563	-9.5396
#3	.05337	.00153	-.82995	.00224	-1.0935	.10637	-10.087

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Fail
High Limit					9.0000		9.0000
Low Limit					-.00400		-.00400

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3372	Tl1908
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00266	.00129	.04119	.00018	-.00017	-.00167	.00111
Stddev	.00207	.00115	.00769	.00018	.00021	.00189	.00089
%RSD	77.693	89.713	18.667	97.220	126.94	112.93	80.082

#1	.00223	.00215	.03318	.00039	-.00001	-.00328	.00212
#2	.00084	-.00002	.04851	.00010	-.00008	.00041	.00048
#3	.00491	.00173	.04187	.00006	-.00041	-.00216	.00072

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm
Avg	.00065	.00250	F -.23804
Stddev	.00030	.00001	.24809
%RSD	46.226	.51477	104.22

#1	.00031	.00251	-.47113
#2	.00078	.00251	.02272
#3	.00087	.00249	-.26570

Check ?	Chk Pass	Chk Pass	Chk Fail
High Limit			45.000
Low Limit			-.00400

Approved: July 31, 2012



Sample Name: PBW 17 Acquired: 7/30/2012 13:38:48 Type: Unk
Method: ICP-THERMO2_6010_200.7(v2005) Mode: CONC Corr. Factor: 1.000000
User: KHR Custom ID1: Custom ID2: Custom ID3:
Comment: WG404865-03

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	31318.	17070.
Stddev	60.	720.
%RSD	.19280	4.2165
#1	31307.	17897.
#2	31382.	16732.
#3	31263.	16582.

Approved: July 31, 2012



Sample Name: LCSW 17 Acquired: 7/30/2012 13:41:55 Type: Unk
 Method: ICP-THERMO2_6010_200.7(v2005) Mode: CONC Corr. Factor: 1.000000
 User: KHR Custom ID1: Custom ID2: Custom ID3:
 Comment: WG404865-04

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.20688	5.1730	.20057	1.0224	.52257	.02551	5.2154
Stddev	.00131	.3192	.00212	.0097	.03044	.00023	.2857
%RSD	.63444	6.1715	1.0548	.94960	5.8249	.89824	5.4779

#1	.20736	4.8095	.20105	1.0244	.48792	.02547	4.8909
#2	.20540	5.3019	.19825	1.0118	.53478	.02531	5.3260
#3	.20789	5.4077	.20240	1.0310	.54500	.02576	5.4292

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	Hf2322	Hf2641
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.02555	.10306	.25301	.25797	2.0100	.51521	.15490
Stddev	.00030	.00019	.00163	.00040	.1153	.00308	.48661
%RSD	1.1845	.18115	.64463	.15613	5.7378	.59826	314.15

#1	.02547	.10304	.25199	.25843	1.8848	.51781	.34588
#2	.02530	.10289	.25215	.25780	2.0334	.51181	-.39823
#3	.02589	.10326	.25490	.25768	2.1119	.51601	.51704

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Hf2773	Hf3399	K_7664	Li6707	Mg2790	Mn2576	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.31838	.61537	26.002	.55305	5.1727	.26486	.51259
Stddev	.86431	1.2974	1.484	.03606	.3149	.00802	.00107
%RSD	271.47	210.84	5.7062	6.5205	6.0869	3.0268	.20922

#1	1.2310	.47991	24.297	.51330	4.8289	.25561	.51275
#2	-.48783	1.9752	26.711	.56216	5.2423	.26984	.51145
#3	.21202	-.60904	26.998	.58368	5.4469	.26913	.51357

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: July 31, 2012



Sample Name: LCSW 17 Acquired: 7/30/2012 13:41:55 Type: Unk
 Method: ICP-THERMO2_6010_200.7(v2005) Mode: CONC Corr. Factor: 1.000000
 User: KHR Custom ID1: Custom ID2: Custom ID3:
 Comment: WG404865-04

Elem	Na5895	Ni2316	P_2149	Pb2203	Rb7800	S_1807	S_1820
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	27.029	.25452	21.937	.25471	F 11.503	5.4937	F -12.475
Stddev	1.560	.00121	4.351	.00418	13.627	.0761	2.750
%RSD	5.7730	.47469	19.834	1.6399	118.46	1.3861	22.044

#1	25.246	.25522	19.782	.25936	-3.7793	5.4383	-14.231
#2	27.695	.25522	26.945	.25351	22.390	5.5805	-13.887
#3	28.146	.25313	19.083	.25127	15.898	5.4622	-9.3056

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Fail
High Limit					9.0000		9.0000
Low Limit					-.00400		-.00400

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3372	Tl1908
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.59838	.20482	2.4629	-.00004	.51230	.52386	.25709
Stddev	.00281	.00150	.0072	.00023	.02888	.03118	.00143
%RSD	.46971	.73168	.29144	638.85	5.6368	5.9513	.55731

#1	.59603	.20639	2.4677	-.00011	.47931	.48794	.25562
#2	.60149	.20467	2.4664	-.00021	.52462	.53978	.25717
#3	.59762	.20341	2.4547	.00022	.53298	.54387	.25848

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm
Avg	.50453	.51908	.55773
Stddev	.00435	.00144	.15492
%RSD	.86218	.27683	27.776

#1	.50480	.52051	.62093
#2	.50005	.51764	.67105
#3	.50874	.51910	.38120

Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Approved: July 31, 2012



Sample Name: LCSW 17 Acquired: 7/30/2012 13:41:55 Type: Unk
Method: ICP-THERMO2_6010_200.7(v2005) Mode: CONC Corr. Factor: 1.000000
User: KHR Custom ID1: Custom ID2: Custom ID3:
Comment: WG404865-04

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	30859.	16740.
Stddev	153.	506.
%RSD	.49464	3.0257
#1	30853.	17321.
#2	31014.	16391.
#3	30709.	16508.

Approved: July 31, 2012



Sample Name: CCV Acquired: 7/30/2012 13:54:49 Type: QC
 Method: ICP-THERMO2_6010_200.7(v2005) Mode: CONC Corr. Factor: 1.000000
 User: KHR Custom ID1: Custom ID2: Custom ID3:
 Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.41130	10.284	.40840	.51134	1.0308	.05153	10.339
Stddev	.00066	.658	.00340	.00383	.0714	.00019	.663
%RSD	.15979	6.3986	.83359	.74915	6.9264	.36979	6.4152

#1	.41194	9.5416	.40599	.51355	.95073	.05170	9.6081
#2	.41133	10.518	.41230	.50691	1.0539	.05157	10.506
#3	.41062	10.794	.40693	.51355	1.0878	.05133	10.903

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	Hf2322	Hf2641
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.05116	.20598	.50778	.51433	4.0369	1.0353	F 1.1968
Stddev	.00010	.00020	.00219	.00066	.2686	.0013	.3631
%RSD	.19243	.09717	.43129	.12862	6.6525	.12383	30.337

#1	.05127	.20576	.51026	.51429	3.7365	1.0349	1.4486
#2	.05108	.20605	.50697	.51369	4.1205	1.0367	1.3613
#3	.05112	.20614	.50612	.51501	4.2537	1.0342	.78061

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
Value							1.0000
Range							10.000%

Elem	Hf2773	Hf3399	K_7664	Li6707	Mg2790	Mn2576	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F .42756	F 1.5043	52.168	1.0657	10.038	.53893	1.0331
Stddev	.89724	.0957	3.747	.0699	.674	.01659	.0005
%RSD	209.85	6.3633	7.1834	6.5614	6.7182	3.0792	.04625

#1	1.4598	1.5899	48.062	.98659	9.2786	.52111	1.0333
#2	-.16530	1.5221	53.038	1.0911	10.270	.54173	1.0326
#3	-.01182	1.4010	55.403	1.1193	10.566	.55394	1.0335

Check ?	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	1.0000	1.0000					
Range	-10.000%	10.000%					

Approved: July 31, 2012



Sample Name: CCV Acquired: 7/30/2012 13:54:49 Type: QC
 Method: ICP-THERMO2_6010_200.7(v2005) Mode: CONC Corr. Factor: 1.000000
 User: KHR Custom ID1: Custom ID2: Custom ID3:
 Comment:

Elem	Na5895	Ni2316	P_2149	Pb2203	Rb7800	S_1807	S_1820
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	52.027	.50569	F 1.2475	.51057	F 11.048	10.454	F 16.096
Stddev	3.449	.00035	5.5191	.00109	1.234	.057	.460
%RSD	6.6291	.06910	442.40	.21297	11.164	.54548	2.8590

#1	48.183	.50579	2.9307	.51057	11.135	10.403	16.099
#2	53.047	.50598	5.7291	.50948	9.7738	10.442	15.635
#3	54.850	.50530	-4.9172	.51166	12.236	10.516	16.555

Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Fail	Chk Pass	Chk Fail
Value			10.000		10.000		10.000
Range			-10.000%		10.000%		10.000%

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3372	Ti1908
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.2217	.41387	4.8263	1.0194	1.0190	1.0700	.50988
Stddev	.0049	.00155	.0133	.0004	.0689	.0773	.00078
%RSD	.40292	.37493	.27578	.03734	6.7601	7.2219	.15244

#1	1.2176	.41448	4.8410	1.0199	.94288	.98749	.51069
#2	1.2205	.41211	4.8229	1.0193	1.0372	1.0817	.50914
#3	1.2272	.41502	4.8150	1.0191	1.0770	1.1407	.50982

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm
Avg	1.0362	1.0140	F 1.1385
Stddev	.0058	.0011	.2961
%RSD	.55831	.10879	26.012

#1	1.0429	1.0132	1.4717
#2	1.0328	1.0153	1.0383
#3	1.0329	1.0135	.90541

Check ?	Chk Pass	Chk Pass	Chk Fail
Value			1.0000
Range			10.000%

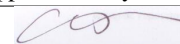
Approved: July 31, 2012



Sample Name: CCV Acquired: 7/30/2012 13:54:49 Type: QC
Method: ICP-THERMO2_6010_200.7(v2005) Mode: CONC Corr. Factor: 1.000000
User: KHR Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	31180.	17019.
Stddev	120.	542.
%RSD	.38609	3.1852
#1	31101.	17631.
#2	31121.	16829.
#3	31319.	16598.

Approved: July 31, 2012



Sample Name: CCB Acquired: 7/30/2012 13:57:55 Type: Blank
 Method: ICP-THERMO2_6010_200.7(v2005) Mode: CONC Corr. Factor: 1.000000
 User: KHR Custom ID1: Custom ID2: Custom ID3:
 Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00020	-.02051	-.00030	.00105	.00095	-.00001	-.00411
Stddev	.00074	.00600	.00137	.00111	.00033	.00001	.03309
%RSD	380.36	29.228	462.97	105.68	34.130	68.618	805.11

#1	-.00016	-.01994	-.00183	.00217	.00063	-.00001	.02981
#2	.00105	-.02678	.00012	.00102	.00128	-.00002	-.00583
#3	-.00031	-.01483	.00082	-.00004	.00096	.00000	-.03630

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	Hf2322	Hf2641
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.00005	.00039	-.00003	.00035	-.00755	.00252	F -.14846
Stddev	.00010	.00017	.00009	.00024	.00671	.00050	1.0740
%RSD	200.89	44.405	323.32	67.322	88.907	19.650	723.42

#1	-.00010	.00056	.00006	.00052	-.00022	.00307	.63302
#2	-.00011	.00021	-.00002	.00008	-.01339	.00211	.29469
#3	.00006	.00041	-.00012	.00044	-.00905	.00238	-1.3731

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit							.10000
Low Limit							-.10000

Elem	Hf2773	Hf3399	K_7664	Li6707	Mg2790	Mn2576	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F .26457	F .95059	.12393	.00259	-.00978	.00020	.00150
Stddev	.61994	.93089	.06116	.00397	.00511	.00008	.00008
%RSD	234.32	97.928	49.354	153.62	52.175	38.673	5.5433

#1	.29746	.34502	.08830	.00701	-.00403	.00011	.00157
#2	-.37116	2.0225	.19455	.00144	-.01378	.00024	.00141
#3	.86741	.48426	.08892	-.00069	-.01154	.00026	.00153

Check ?	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	.10000	.10000					
Low Limit	-.10000	-.10000					

Approved: July 31, 2012



Sample Name: CCB Acquired: 7/30/2012 13:57:55 Type: Blank
 Method: ICP-THERMO2_6010_200.7(v2005) Mode: CONC Corr. Factor: 1.000000
 User: KHR Custom ID1: Custom ID2: Custom ID3:
 Comment:

Elem	Na5895	Ni2316	P_2149	Pb2203	Rb7800	S_1807	S_1820
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.09271	.00186	F -1.9221	.00323	F 6.6825	F -.13131	F -.88597
Stddev	.06040	.00084	6.7734	.00135	14.082	.02649	1.2472
%RSD	65.144	44.971	352.39	41.820	210.74	20.172	140.77

#1	.15032	.00102	5.3772	.00444	-5.2541	-.10484	-2.0738
#2	.09796	.00269	-8.0047	.00348	3.0876	-.15781	-.99720
#3	.02986	.00187	-3.1389	.00177	22.214	-.13129	.41313

Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Fail	Chk Fail	Chk Fail
High Limit			.01000		.01000	.01000	.01000
Low Limit			-.01000		-.01000	-.01000	-.01000

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3372	Tl1908
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00191	.00070	-0.0023	.00045	.00038	-0.0045	.00142
Stddev	.00328	.00196	.00254	.00050	.00078	.00233	.00141
%RSD	171.65	279.29	1094.5	110.77	206.08	516.64	99.102

#1	.00558	.00247	-.00024	.00065	.00122	-.00301	.00244
#2	-.00076	.00104	-.00277	-.00012	.00024	.00014	-.00019
#3	.00091	-.00140	.00231	.00081	-.00032	.00153	.00202


Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm
Avg	.00022	.00034	F .24149
Stddev	.00052	.00005	.08737
%RSD	241.09	14.335	36.179

#1	-.00035	.00038	.14757
#2	.00067	.00036	.32035
#3	.00033	.00029	.25657

Check ?	Chk Pass	Chk Pass	Chk Fail
High Limit			.10000
Low Limit			-.10000

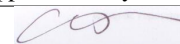
Approved: July 31, 2012



Sample Name: CCB Acquired: 7/30/2012 13:57:55 Type: Blank
Method: ICP-THERMO2_6010_200.7(v2005) Mode: CONC Corr. Factor: 1.000000
User: KHR Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	31383.	16868.
Stddev	92.	748.
%RSD	.29223	4.4359
#1	31354.	17679.
#2	31486.	16719.
#3	31309.	16205.

Approved: July 31, 2012



Sample Name: LLCCV Acquired: 7/30/2012 14:01:08 Type: Unk
 Method: ICP-THERMO2_6010_200.7(v2005) Mode: CONC Corr. Factor: 1.000000
 User: KHR Custom ID1: Custom ID2: Custom ID3:
 Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00338	-.08825	.00143	-.00417	-.00285	.00026	.10781
Stddev	.00100	.04613	.00094	.00125	.00113	.00017	.05242
%RSD	29.546	52.274	65.545	29.886	39.797	65.525	48.625

#1	.00223	-.03498	.00036	-.00486	-.00190	.00007	.04784
#2	.00386	-.11510	.00212	-.00491	-.00254	.00031	.13065
#3	.00405	-.11466	.00180	-.00273	-.00411	.00040	.14494

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	Hf2322	Hf2641
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00032	.00132	.00071	.00283	.00023	.00922	.04528
Stddev	.00007	.00009	.00177	.00025	.00596	.00373	.05632
%RSD	23.193	6.7412	248.80	8.8663	2621.8	40.392	124.38

#1	.00030	.00129	-.00124	.00306	.00601	.01346	.01277
#2	.00026	.00142	.00115	.00285	-.00589	.00647	.01276
#3	.00041	.00125	.00223	.00256	.00055	.00774	.11032

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Hf2773	Hf3399	K_7664	Li6707	Mg2790	Mn2576	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.73999	1.4192	.04938	.00244	-.03058	.00129	.00671
Stddev	.17611	.7929	.03896	.00391	.00902	.00117	.00020
%RSD	23.799	55.872	78.897	160.26	29.511	91.033	3.0409

#1	.55662	2.0297	.09270	-.00137	-.02073	-.00007	.00651
#2	.75553	1.7048	.01724	.00224	-.03845	.00194	.00671
#3	.90781	.52300	.03818	.00645	-.03255	.00198	.00692

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: July 31, 2012



Sample Name: LLCCV Acquired: 7/30/2012 14:01:08 Type: Unk
 Method: ICP-THERMO2_6010_200.7(v2005) Mode: CONC Corr. Factor: 1.000000
 User: KHR Custom ID1: Custom ID2: Custom ID3:
 Comment:

Elem	Na5895	Ni2316	P_2149	Pb2203	Rb7800	S_1807	S_1820
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.16149	.00796	F -35.490	.00638	F -66.716	.25283	F -4.3626
Stddev	.06502	.00044	13.887	.00082	37.118	.05858	.8439
%RSD	40.264	5.5180	39.129	12.912	55.636	23.169	19.343

#1	.09517	.00834	-35.945	.00693	-24.951	.19329	-4.9090
#2	.16416	.00805	-49.144	.00678	-79.263	.31040	-3.3907
#3	.22513	.00748	-21.381	.00543	-95.934	.25480	-4.7880

Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Fail	Chk Pass	Chk Fail
High Limit			900.00		9.0000		9.0000
Low Limit			-.00400		-.00400		-.00400

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3372	Tl1908
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00795	.00323	.02214	.00641	-.00072	.00292	.00519
Stddev	.00135	.00152	.00676	.00035	.00046	.00319	.00110
%RSD	16.967	46.949	30.518	5.4856	63.734	109.00	21.110

#1	.00639	.00498	.02970	.00660	-.00019	-.00012	.00435
#2	.00878	.00239	.01671	.00601	-.00094	.00266	.00643
#3	.00867	.00232	.02001	.00663	-.00103	.00623	.00478

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm
Avg	.00400	.00715	1.2788
Stddev	.00324	.00017	.5140
%RSD	81.182	2.4261	40.196

#1	.00027	.00720	1.7864
#2	.00553	.00696	.75863
#3	.00619	.00730	1.2912

Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

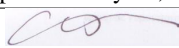
Approved: July 31, 2012



Sample Name: LLCCV Acquired: 7/30/2012 14:01:08 Type: Unk
Method: ICP-THERMO2_6010_200.7(v2005) Mode: CONC Corr. Factor: 1.000000
User: KHR Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	42710.	27346.
Stddev	556.	5872.
%RSD	1.3011	21.471
#1	42649.	21265.
#2	43293.	27791.
#3	42187.	32982.

Approved: July 31, 2012



Sample Name: LLCCV Acquired: 7/30/2012 14:07:28 Type: Unk
 Method: ICP-THERMO2_6010_200.7(v2005) Mode: CONC Corr. Factor: 1.000000
 User: KHR Custom ID1: Custom ID2: Custom ID3:
 Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00880	.19389	.00786	.00801	.02077	.00098	.22627
Stddev	.00049	.03937	.00092	.00123	.00217	.00002	.00292
%RSD	5.5189	20.307	11.745	15.367	10.459	2.2443	1.2894

#1	.00825	.14843	.00841	.00893	.01826	.00100	.22354
#2	.00918	.21603	.00679	.00661	.02201	.00096	.22934
#3	.00896	.21721	.00837	.00849	.02203	.00099	.22593

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	Hf2322	Hf2641
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00106	.00447	.00970	.01036	.08044	.02695	.11005
Stddev	.00016	.00009	.00082	.00051	.00778	.00124	.52464
%RSD	14.773	2.0043	8.4787	4.9267	9.6730	4.6032	476.72

#1	.00112	.00439	.01063	.01089	.07195	.02826	.34142
#2	.00088	.00457	.00940	.01032	.08723	.02579	-.49050
#3	.00118	.00446	.00907	.00988	.08214	.02681	.47923

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Hf2773	Hf3399	K_7664	Li6707	Mg2790	Mn2576	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.09657	1.0219	1.1908	.02213	.18835	.01294	.02079
Stddev	1.3036	.6802	.1724	.00480	.04364	.00015	.00029
%RSD	1349.9	66.564	14.480	21.701	23.169	1.1809	1.3991

#1	.83188	1.5453	1.1115	.01659	.14533	.01276	.02112
#2	.46532	.25303	1.0722	.02511	.18713	.01303	.02058
#3	-1.5869	1.2674	1.3886	.02468	.23259	.01301	.02067

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: July 31, 2012



Sample Name: LLCCV Acquired: 7/30/2012 14:07:28 Type: Unk
 Method: ICP-THERMO2_6010_200.7(v2005) Mode: CONC Corr. Factor: 1.000000
 User: KHR Custom ID1: Custom ID2: Custom ID3:
 Comment:

Elem	Na5895	Ni2316	P_2149	Pb2203	Rb7800	S_1807	S_1820
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.1445	.01133	.93620	.01153	F 13.615	.21547	F -2.3211
Stddev	.0525	.00028	25.058	.00096	7.223	.07861	3.4707
%RSD	4.5891	2.4725	2676.6	8.3337	53.048	36.483	149.52

#1	1.0879	.01114	-14.851	.01110	21.470	.24236	-3.8014
#2	1.1538	.01165	-12.170	.01263	12.115	.27710	-4.8063
#3	1.1917	.01118	29.830	.01086	7.2607	.12694	1.6442

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Fail
High Limit					9.0000		9.0000
Low Limit					-.00400		-.00400

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3372	Tl1908
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.02339	.00598	.09834	.02114	.02119	.01975	.01071
Stddev	.00210	.00183	.00377	.00016	.00136	.00338	.00030
%RSD	8.9806	30.656	3.8360	.77497	6.4373	17.140	2.7634

#1	.02248	.00810	.09407	.02122	.01967	.02196	.01086
#2	.02191	.00483	.09974	.02096	.02160	.01585	.01090
#3	.02580	.00501	.10122	.02126	.02231	.02143	.01037

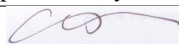
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm
Avg	.02063	.02184	F -.21453
Stddev	.00019	.00014	.48921
%RSD	.94516	.62366	228.04

#1	.02078	.02198	-.23666
#2	.02069	.02183	-.69230
#3	.02041	.02171	.28537

Check ?	Chk Pass	Chk Pass	Chk Fail
High Limit			45.000
Low Limit			-.00400

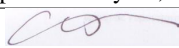
Approved: July 31, 2012



Sample Name: LLCCV Acquired: 7/30/2012 14:07:28 Type: Unk
Method: ICP-THERMO2_6010_200.7(v2005) Mode: CONC Corr. Factor: 1.000000
User: KHR Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	31503.	17018.
Stddev	41.	393.
%RSD	.13065	2.3119
#1	31461.	17453.
#2	31544.	16916.
#3	31505.	16687.

Approved: July 31, 2012



Sample Name: FBLK 17 Acquired: 7/30/2012 14:14:36 Type: Unk
 Method: ICP-THERMO2_6010_200.7(v2005) Mode: CONC Corr. Factor: 1.000000
 User: KHR Custom ID1: Custom ID2: Custom ID3:
 Comment: WG404865-05

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.00029	-.06460	-.00022	-.00046	-.00011	.00000	.04137
Stddev	.00049	.01174	.00032	.00150	.00038	.0000	.02215
%RSD	170.72	18.171	144.27	322.86	339.77	418.20	53.547

#1	.00025	-.05117	-.00004	.00029	-.00004	-.00001	.05674
#2	-.00040	-.07290	-.00003	-.00219	-.00052	-.00002	.01598
#3	-.00071	-.06972	-.00059	.00051	.00022	.00001	.05138

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	Hf2322	Hf2641
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00005	.00032	-.00024	-.00002	-.00078	-.00049	-.03905
Stddev	.00005	.00013	.00011	.00003	.00263	.00427	.47997
%RSD	109.88	40.323	46.014	159.99	336.00	866.90	1229.1

#1	.00010	.00017	-.00014	-.00005	.00149	.00144	.01656
#2	.00005	.00041	-.00037	.00000	-.00366	.00247	-.54440
#3	-.00001	.00036	-.00022	-.00001	-.00018	-.00539	.41069

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Hf2773	Hf3399	K_7664	Li6707	Mg2790	Mn2576	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.3165	1.6054	-.03107	.00839	-.03656	.00039	.00007
Stddev	.1527	.1092	.06012	.00275	.02145	.00010	.00022
%RSD	11.599	6.8040	193.53	32.720	58.676	27.163	292.59

#1	1.4814	1.6355	.01192	.01150	-.02518	.00027	.00029
#2	1.2879	1.6964	-.09977	.00738	-.06131	.00043	-.00014
#3	1.1801	1.4842	-.00534	.00630	-.02321	.00046	.00007

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: July 31, 2012



Sample Name: FBLK 17 Acquired: 7/30/2012 14:14:36 Type: Unk
 Method: ICP-THERMO2_6010_200.7(v2005) Mode: CONC Corr. Factor: 1.000000
 User: KHR Custom ID1: Custom ID2: Custom ID3:
 Comment: WG404865-05

Elem	Na5895	Ni2316	P_2149	Pb2203	Rb7800	S_1807	S_1820
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.04286	.00243	6.3271	.00173	7.3860	F -.01215	6.1259
Stddev	.01977	.00082	7.8241	.00053	12.330	.05394	4.5436
%RSD	46.126	33.506	123.66	30.436	166.94	443.75	74.170

#1	.04760	.00337	6.3129	.00194	.43808	.04869	5.9927
#2	.05983	.00203	14.158	.00212	21.623	-.05408	1.6504
#3	.02115	.00190	-1.4899	.00113	.09739	-.03107	10.735

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						9.0000	
Low Limit						-.00400	

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3372	Tl1908
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00134	-.00060	.27207	-.00018	.00032	-.00091	.00193
Stddev	.00182	.00291	.00364	.00029	.00029	.00091	.00116
%RSD	135.45	485.92	1.3381	163.95	89.862	100.32	60.218

#1	.00229	-.00232	.27399	.00015	.00000	-.00046	.00319
#2	-.00075	.00276	.26787	-.00040	.00042	-.00195	.00088
#3	.00250	-.00223	.27434	-.00029	.00054	-.00031	.00174

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm
Avg	.00021	.00201	F -.25770
Stddev	.00028	.00004	.52899
%RSD	133.23	1.9941	205.27

#1	.00009	.00199	-.25363
#2	.00054	.00205	-.78872
#3	.00001	.00198	.26924

Check ?	Chk Pass	Chk Pass	Chk Fail
High Limit			45.000
Low Limit			-.00400

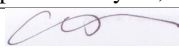
Approved: July 31, 2012



Sample Name: FBLK 17 Acquired: 7/30/2012 14:14:36 Type: Unk
Method: ICP-THERMO2_6010_200.7(v2005) Mode: CONC Corr. Factor: 1.000000
User: KHR Custom ID1: Custom ID2: Custom ID3:
Comment: WG404865-05

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	32259.	17145.
Stddev	175.	379.
%RSD	.54288	2.2109
#1	32436.	17575.
#2	32254.	16999.
#3	32086.	16861.

Approved: July 31, 2012



Sample Name: L1207083801 Acquired: 7/30/2012 14:17:47 Type: Unk
 Method: ICP-THERMO2_6010_200.7(v2005) Mode: CONC Corr. Factor: 1.000000
 User: KHR Custom ID1: Custom ID2: Custom ID3:
 Comment: WG404865-01

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.00064	.00127	-.00111	.17432	.05106	.00001	56.147
Stddev	.00144	.06484	.00046	.00131	.00422	.00003	4.244
%RSD	222.91	5092.6	41.876	.75166	8.2635	232.76	7.5585

#1	-.00175	.07398	-.00071	.17579	.04626	.00005	51.366
#2	-.00117	-.05053	-.00162	.17388	.05277	-.00001	57.604
#3	.00098	-.01963	-.00100	.17328	.05416	.00000	59.470

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	Hf2322	Hf2641
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00035	.00035	-.00028	.00932	.03367	.22920	1.1581
Stddev	.00012	.00009	.00024	.00039	.00895	.00486	.6443
%RSD	34.359	25.373	85.666	4.1793	26.597	2.1217	55.634

#1	.00021	.00025	-.00034	.00951	.02970	.22379	.55780
#2	.00041	.00039	-.00048	.00887	.02738	.23060	1.0777
#3	.00043	.00042	-.00001	.00957	.04392	.23321	1.8389

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Hf2773	Hf3399	K_7664	Li6707	Mg2790	Mn2576	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.05890	.85490	3.5381	.01572	13.052	.66504	.00189
Stddev	.71398	.51823	.3072	.00222	1.075	.01829	.00008
%RSD	1212.2	60.618	8.6831	14.101	8.2376	2.7507	4.3378

#1	-.21066	1.3844	3.2228	.01374	11.840	.64467	.00198
#2	.86841	.83165	3.5550	.01812	13.423	.67038	.00181
#3	-.48105	.34870	3.8365	.01530	13.892	.68007	.00189

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: July 31, 2012



Sample Name: L1207083801 Acquired: 7/30/2012 14:17:47 Type: Unk
 Method: ICP-THERMO2_6010_200.7(v2005) Mode: CONC Corr. Factor: 1.000000
 User: KHR Custom ID1: Custom ID2: Custom ID3:
 Comment: WG404865-01

Elem	Na5895	Ni2316	P_2149	Pb2203	Rb7800	S_1807	S_1820
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	33.281	.00190	788.33	.00075	F -2.7863	F 469.06	F -39647.
Stddev	2.573	.00062	3.89	.00190	15.013	1.04	47.
%RSD	7.7323	32.846	.49362	254.11	538.81	.22246	.11936

#1	30.369	.00160	785.07	.00165	-.32114	468.63	-39610.
#2	34.229	.00148	792.64	.00202	-18.879	468.29	-39632.
#3	35.247	.00261	787.28	-.00143	10.841	470.24	-39701.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Fail	Chk Fail
High Limit					9.0000	9.0000	9.0000
Low Limit					-.00400	-.00400	-.00400

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3372	Tl1908
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.00013	.00167	4.4170	-.00011	.23029	-.00347	.00207
Stddev	.00152	.00135	.0198	.00047	.01793	.00277	.00109
%RSD	1188.6	80.870	.44862	417.66	7.7861	79.741	52.920

#1	-.00079	.00017	4.4252	-.00006	.21006	-.00460	.00081
#2	-.00120	.00278	4.4314	.00033	.23659	-.00550	.00275
#3	.00161	.00205	4.3944	-.00060	.24422	-.00032	.00264

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm
Avg	.00027	.01073	F -.29561
Stddev	.00025	.00012	.23623
%RSD	92.481	1.1159	79.912

#1	.00053	.01070	-.22362
#2	.00024	.01086	-.10376
#3	.00004	.01063	-.55946

Check ?	Chk Pass	Chk Pass	Chk Fail
High Limit			45.000
Low Limit			-.00400

Approved: July 31, 2012



Sample Name: L1207083801 Acquired: 7/30/2012 14:17:47 Type: Unk
Method: ICP-THERMO2_6010_200.7(v2005) Mode: CONC Corr. Factor: 1.000000
User: KHR Custom ID1: Custom ID2: Custom ID3:
Comment: WG404865-01

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	31389.	17062.
Stddev	125.	499.
%RSD	.39746	2.9267
#1	31318.	17619.
#2	31316.	16913.
#3	31533.	16654.

Approved: July 31, 2012



Sample Name: L1207083801DUP Acquired: 7/30/2012 14:20:51 Type: Unk
 Method: ICP-THERMO2_6010_200.7(v2005) Mode: CONC Corr. Factor: 1.000000
 User: KHR Custom ID1: Custom ID2: Custom ID3:
 Comment: WG404865-06

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.00033	-.02956	.00021	.17607	.05092	.00000	55.771
Stddev	.00072	.03296	.00184	.00134	.00493	.00000	4.833
%RSD	221.63	111.49	872.26	.76195	9.6888	220.15	8.6660

#1	-.00088	-.02367	.00081	.17500	.04547	.00000	50.298
#2	-.00059	.00005	.00167	.17563	.05220	.00000	57.561
#3	.00049	-.06508	-.00185	.17757	.05508	.00000	59.453

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	Hf2322	Hf2641
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00024	.00046	-.00065	.00953	.04105	.22860	1.3531
Stddev	.00012	.00014	.00006	.00039	.01483	.00281	.8116
%RSD	49.380	30.952	8.8582	4.1193	36.127	1.2282	59.979

#1	.00033	.00050	-.00059	.00948	.02399	.22536	1.8189
#2	.00028	.00058	-.00071	.00995	.05084	.23029	.41597
#3	.00010	.00030	-.00065	.00917	.04831	.23015	1.8244

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Hf2773	Hf3399	K_7664	Li6707	Mg2790	Mn2576	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.0864	.14542	3.5107	.01604	12.999	.65834	.00197
Stddev	.9899	.72555	.2176	.00364	1.216	.02999	.00020
%RSD	91.117	498.93	6.1994	22.660	9.3512	4.5549	10.271

#1	2.0516	.65293	3.2828	.01706	11.635	.62483	.00198
#2	1.1343	-.68561	3.5328	.01201	13.393	.66758	.00218
#3	.07344	.46894	3.7164	.01906	13.968	.68263	.00177

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: July 31, 2012



Sample Name: L1207083801DUP Acquired: 7/30/2012 14:20:51 Type: Unk
 Method: ICP-THERMO2_6010_200.7(v2005) Mode: CONC Corr. Factor: 1.000000
 User: KHR Custom ID1: Custom ID2: Custom ID3:
 Comment: WG404865-06

Elem	Na5895	Ni2316	P_2149	Pb2203	Rb7800	S_1807	S_1820
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	33.121	.00147	809.40	.00198	1.0642	F 478.19	F -39915.
Stddev	2.885	.00035	8.30	.00205	7.8669	.72	41.
%RSD	8.7118	23.785	1.0252	103.54	739.21	.14968	.10218

#1	29.847	.00113	801.36	.00402	-7.9306	479.02	-39960.
#2	34.224	.00144	808.91	.00198	4.4626	477.78	-39906.
#3	35.293	.00183	817.93	-.00007	6.6606	477.78	-39880.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Fail
High Limit						9.0000	9.0000
Low Limit						-.00400	-.00400

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3372	Tl1908
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00180	-.00201	4.5203	-.00012	.22814	-.00290	.00173
Stddev	.00182	.00053	.0283	.00014	.02073	.00127	.00072
%RSD	100.70	26.364	.62568	111.99	9.0847	43.694	41.354

#1	-.00013	-.00198	4.5166	-.00027	.20453	-.00431	.00104
#2	.00347	-.00255	4.4941	.00001	.23653	-.00257	.00247
#3	.00207	-.00149	4.5503	-.00011	.24335	-.00184	.00168

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm
Avg	.00013	.01195	F -.39208
Stddev	.00024	.00008	.06328
%RSD	181.62	.64480	16.139

#1	.00002	.01191	-.37975
#2	-.00003	.01204	-.33587
#3	.00041	.01191	-.46061

Check ?	Chk Pass	Chk Pass	Chk Fail
High Limit			45.000
Low Limit			-.00400

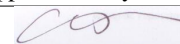
Approved: July 31, 2012



Sample Name: L1207083801DUP Acquired: 7/30/2012 14:20:51 Type: Unk
Method: ICP-THERMO2_6010_200.7(v2005) Mode: CONC Corr. Factor: 1.000000
User: KHR Custom ID1: Custom ID2: Custom ID3:
Comment: WG404865-06

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	31465.	17266.
Stddev	50.	739.
%RSD	.15933	4.2783
#1	31480.	18106.
#2	31507.	16975.
#3	31410.	16717.

Approved: July 31, 2012



Sample Name: L1207083801MS Acquired: 7/30/2012 14:23:57 Type: Unk
 Method: ICP-THERMO2_6010_200.7(v2005) Mode: CONC Corr. Factor: 1.000000
 User: KHR Custom ID1: Custom ID2: Custom ID3:
 Comment: WG404865-07

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.20807	5.1168	.20280	1.2033	.56258	.02594	59.280
Stddev	.00152	.4880	.00151	.0069	.04627	.00005	5.047
%RSD	.73131	9.5369	.74660	.57291	8.2248	.17606	8.5131

#1	.20873	4.5592	.20211	1.2071	.50975	.02599	53.515
#2	.20633	5.3251	.20454	1.1953	.58208	.02595	61.428
#3	.20916	5.4660	.20176	1.2074	.59591	.02590	62.897

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	Hf2322	Hf2641
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.02559	.10195	.25269	.26230	2.0080	.73015	1.6710
Stddev	.00023	.00011	.00101	.00101	.1729	.00240	.7550
%RSD	.90528	.11192	.40129	.38389	8.6091	.32915	45.183

#1	.02557	.10188	.25167	.26227	1.8112	.72988	1.7540
#2	.02582	.10209	.25270	.26332	2.0776	.73268	.87791
#3	.02536	.10190	.25370	.26131	2.1353	.72789	2.3811

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Hf2773	Hf3399	K_7664	Li6707	Mg2790	Mn2576	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.51030	2.2051	29.256	.54666	17.752	.90176	.51502
Stddev	.72464	1.5613	2.599	.04214	1.505	.03137	.00087
%RSD	142.00	70.803	8.8836	7.7094	8.4781	3.4782	.16848

#1	-.24695	4.0025	26.292	.49801	16.023	.86554	.51538
#2	.58068	1.4280	30.334	.57194	18.462	.91988	.51566
#3	1.1972	1.1849	31.143	.57004	18.770	.91986	.51403

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: July 31, 2012



Sample Name: L1207083801MS Acquired: 7/30/2012 14:23:57 Type: Unk
 Method: ICP-THERMO2_6010_200.7(v2005) Mode: CONC Corr. Factor: 1.000000
 User: KHR Custom ID1: Custom ID2: Custom ID3:
 Comment: WG404865-07

Elem	Na5895	Ni2316	P_2149	Pb2203	Rb7800	S_1807	S_1820
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	58.201	.25458	789.82	.25533	F -4.5631	F 475.92	F -39472.
Stddev	4.660	.00141	5.85	.00092	10.976	2.17	102.
%RSD	8.0077	.55540	.74045	.35931	240.54	.45490	.25821

#1	52.867	.25465	783.37	.25458	-16.622	473.99	-39440.
#2	60.247	.25595	791.31	.25635	-1.9130	478.26	-39586.
#3	61.488	.25313	794.78	.25506	4.8453	475.51	-39391.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Fail	Chk Fail
High Limit					9.0000	9.0000	9.0000
Low Limit					-.00400	-.00400	-.00400

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3372	Tl1908
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.60666	.20699	6.9678	-.00001	.72470	.51736	.25558
Stddev	.00412	.00345	.0369	.00016	.06152	.05052	.00147
%RSD	.67930	1.6672	.52881	1565.3	8.4893	9.7645	.57622

#1	.61133	.21083	6.9383	.00007	.65430	.45957	.25601
#2	.60515	.20599	7.0091	-.00020	.75169	.53932	.25679
#3	.60351	.20415	6.9559	.00010	.76812	.55317	.25394

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm
Avg	.51125	.52320	F -.03668
Stddev	.00334	.00132	.32645
%RSD	.65278	.25277	890.00

#1	.51510	.52258	-.13511
#2	.50922	.52472	-.30259
#3	.50943	.52230	.32766

Check ?	Chk Pass	Chk Pass	Chk Fail
High Limit			45.000
Low Limit			-.00400

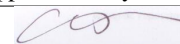
Approved: July 31, 2012



Sample Name: L1207083801MS Acquired: 7/30/2012 14:23:57 Type: Unk
Method: ICP-THERMO2_6010_200.7(v2005) Mode: CONC Corr. Factor: 1.000000
User: KHR Custom ID1: Custom ID2: Custom ID3:
Comment: WG404865-07

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	31515.	17383.
Stddev	87.	684.
%RSD	.27607	3.9324
#1	31435.	18172.
#2	31503.	16962.
#3	31608.	17016.

Approved: July 31, 2012



Sample Name: L1207084901 Acquired: 7/30/2012 14:27:02 Type: Unk
 Method: ICP-THERMO2_6010_200.7(v2005) Mode: CONC Corr. Factor: 1.000000
 User: KHR Custom ID1: Custom ID2: Custom ID3:
 Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00010	19.520	.00213	.01932	.00776	.00001	3.4489
Stddev	.00051	1.726	.00161	.00027	.00028	.00005	.2490
%RSD	502.08	8.8415	75.640	1.3750	3.5692	438.71	7.2192

#1	-0.00048	17.556	.00346	.01920	.00749	.00006	3.1643
#2	.00049	20.208	.00034	.01963	.00775	-.00002	3.5561
#3	.00030	20.795	.00260	.01914	.00804	-.00002	3.6264

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	Hf2322	Hf2641
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.00004	.00035	.00095	.01377	.46192	.02777	-.02876
Stddev	.00008	.00016	.00039	.00010	.04115	.00462	.58245
%RSD	195.99	45.494	40.490	.70362	8.9090	16.641	2025.1

#1	.00003	.00045	.00109	.01383	.41449	.03141	-.18583
#2	-.00003	.00017	.00125	.01382	.48811	.02257	-.51657
#3	-.00013	.00044	.00052	.01366	.48316	.02934	.61611


Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Hf2773	Hf3399	K_7664	Li6707	Mg2790	Mn2576	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.57444	.08932	24.696	.00255	.83293	.09353	.00304
Stddev	.60392	.64619	2.092	.00497	.02232	.00395	.00003
%RSD	105.13	723.46	8.4701	194.50	2.6800	4.2226	.84169

#1	.35202	.00987	22.300	.00815	.80740	.08898	.00307
#2	1.2580	-.51347	25.631	-.00134	.84878	.09616	.00303
#3	.11327	.77156	26.157	.00085	.84260	.09543	.00303

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: July 31, 2012



Sample Name: L1207084901 Acquired: 7/30/2012 14:27:02 Type: Unk
 Method: ICP-THERMO2_6010_200.7(v2005) Mode: CONC Corr. Factor: 1.000000
 User: KHR Custom ID1: Custom ID2: Custom ID3:
 Comment:

Elem	Na5895	Ni2316	P_2149	Pb2203	Rb7800	S_1807	S_1820
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	164.44	.00556	F 5511.3	.00110	F -4.6920	F 436.11	F -40926.
Stddev	13.43	.00066	15.0	.00147	1.2673	.70	33.
%RSD	8.1667	11.791	.27193	134.60	27.010	.16100	.08164

#1	149.08	.00491	5527.5	.00132	-6.1537	436.92	-40896.
#2	170.30	.00553	5508.5	-.00048	-3.8998	435.66	-40921.
#3	173.94	.00622	5498.0	.00245	-4.0227	435.74	-40962.

Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Fail	Chk Fail	Chk Fail
High Limit			900.00		9.0000	9.0000	9.0000
Low Limit			-.00400		-.00400	-.00400	-.00400

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3372	Tl1908
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00376	-.00155	2.0533	-.00013	.01714	.00281	.00260
Stddev	.00171	.00279	.0060	.00003	.00100	.00271	.00279
%RSD	45.394	179.45	.29316	26.482	5.8392	96.198	107.46

#1	.00572	.00083	2.0539	-.00010	.01601	.00531	.00525
#2	.00257	-.00462	2.0590	-.00012	.01746	-.00006	-.00031
#3	.00300	-.00088	2.0470	-.00017	.01793	.00318	.00286

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm
Avg	.00063	.02840	F 62.245
Stddev	.00064	.00004	1.338
%RSD	102.18	.13592	2.1500

#1	-.00005	.02838	63.670
#2	.00122	.02839	62.051
#3	.00071	.02845	61.014

Check ?	Chk Pass	Chk Pass	Chk Fail
High Limit			45.000
Low Limit			-.00400

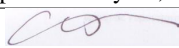
Approved: July 31, 2012



Sample Name: L1207084901 Acquired: 7/30/2012 14:27:02 Type: Unk
Method: ICP-THERMO2_6010_200.7(v2005) Mode: CONC Corr. Factor: 1.000000
User: KHR Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	31909.	17697.
Stddev	141.	718.
%RSD	.44236	4.0591
#1	31843.	18526.
#2	31814.	17246.
#3	32072.	17321.

Approved: July 31, 2012



Sample Name: L1207084901PS Acquired: 7/30/2012 14:30:14 Type: Unk
 Method: ICP-THERMO2_6010_200.7(v2005) Mode: CONC Corr. Factor: 1.000000
 User: KHR Custom ID1: Custom ID2: Custom ID3:
 Comment: WG404939-01

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.21948	22.982	.17098	1.1199	.52633	.02703	8.2624
Stddev	.00130	1.858	.01729	.0043	.04096	.00003	.6525
%RSD	.59207	8.0868	10.112	.38041	7.7823	.11348	7.8968

#1	.21856	20.891	.18671	1.1158	.47978	.02706	7.5329
#2	.22097	23.607	.17376	1.1243	.54233	.02703	8.4644
#3	.21893	24.447	.15247	1.1197	.55687	.02700	8.7900

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	Hf2322	Hf2641
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.02034	.09503	.26652	.26585	2.4115	.55021	.91450
Stddev	.00225	.00225	.00233	.00408	.1995	.02665	.18906
%RSD	11.084	2.3657	.87549	1.5331	8.2738	4.8428	20.673

#1	.02248	.09732	.26829	.26171	2.1845	.52175	.94844
#2	.02055	.09495	.26739	.26598	2.4909	.55430	.71077
#3	.01798	.09283	.26388	.26986	2.5591	.57457	1.0843


Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Hf2773	Hf3399	K_7664	Li6707	Mg2790	Mn2576	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.45922	.03775	49.146	.52485	5.8471	.33296	.48780
Stddev	.76436	1.4657	3.964	.03933	.4402	.00409	.01022
%RSD	166.45	3882.6	8.0662	7.4930	7.5291	1.2298	2.0959

#1	.17258	1.7054	44.694	.48056	5.3422	.32913	.49723
#2	-.12039	-.54595	50.454	.53832	6.0490	.33249	.48925
#3	1.3255	-1.0462	52.292	.55568	6.1502	.33728	.47693

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: July 31, 2012



Sample Name: L1207084901PS Acquired: 7/30/2012 14:30:14 Type: Unk
 Method: ICP-THERMO2_6010_200.7(v2005) Mode: CONC Corr. Factor: 1.000000
 User: KHR Custom ID1: Custom ID2: Custom ID3:
 Comment: WG404939-01

Elem	Na5895	Ni2316	P_2149	Pb2203	Rb7800	S_1807	S_1820
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	175.25	.23675	F 4844.6	.31126	F -.63110	F 455.72	F -38050.
Stddev	13.04	.00892	78.8	.03536	10.024	21.60	824.
%RSD	7.4411	3.7690	1.6272	11.361	1588.3	4.7398	2.1648

#1	160.44	.24661	4902.2	.27876	-7.5695	433.92	-37223.
#2	180.28	.23443	4876.8	.30611	-5.1851	456.11	-38057.
#3	185.02	.22922	4754.7	.34892	10.861	477.12	-38870.

Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Fail	Chk Fail	Chk Fail
High Limit			900.00		9.0000	9.0000	9.0000
Low Limit			-.00400		-.00400	-.00400	-.00400

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3372	Tl1908
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.51344	.29970	4.6282	.02145	.53178	.52514	.30720
Stddev	.05463	.05318	.1683	.01224	.04266	.04468	.03721
%RSD	10.639	17.745	3.6353	57.068	8.0213	8.5087	12.113

#1	.56581	.24985	4.4583	.00997	.48339	.47670	.27703
#2	.51770	.29356	4.6316	.02006	.54799	.53397	.29578
#3	.45681	.35568	4.7948	.03433	.56395	.56474	.34878

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm
Avg	.53519	.53637	F 78.959
Stddev	.00164	.00126	1.412
%RSD	.30588	.23408	1.7876

#1	.53619	.53752	78.272
#2	.53608	.53656	80.582
#3	.53330	.53503	78.022

Check ?	Chk Pass	Chk Pass	Chk Fail
High Limit			45.000
Low Limit			-.00400

Approved: July 31, 2012



Sample Name: L1207084901PS Acquired: 7/30/2012 14:30:14 Type: Unk
Method: ICP-THERMO2_6010_200.7(v2005) Mode: CONC Corr. Factor: 1.000000
User: KHR Custom ID1: Custom ID2: Custom ID3:
Comment: WG404939-01

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	28648.	17485.
Stddev	458.	524.
%RSD	1.5985	2.9947
#1	29139.	18020.
#2	28573.	17462.
#3	28232.	16973.

Approved: July 31, 2012



Sample Name: L1207084901SDL Acquired: 7/30/2012 14:33:19 Type: Unk
 Method: ICP-THERMO2_6010_200.7(v2005) Mode: CONC Corr. Factor: 1.000000
 User: KHR Custom ID1: 5 Custom ID2: Custom ID3:
 Comment: WG404939-02

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.00004	4.3618	.00043	.00614	.00245	.00000	.74494
Stddev	.00009	.2944	.00129	.00240	.00061	.00001	.03628
%RSD	257.69	6.7485	303.91	39.148	25.083	1427.2	4.8705

#1	.00002	4.0292	-.00106	.00813	.00316	.00001	.72296
#2	-.00014	4.4675	.00126	.00347	.00214	-.00001	.72505
#3	.00001	4.5888	.00108	.00681	.00205	-.00001	.78682

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	Hf2322	Hf2641
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.00003	.00036	.00007	.00355	.10090	.00683	.26873
Stddev	.00009	.00009	.00021	.00017	.00826	.00105	.22983
%RSD	313.18	24.659	305.33	4.7574	8.1836	15.319	85.525

#1	-.00013	.00045	-.00006	.00363	.10915	.00565	.22377
#2	.00001	.00027	-.00004	.00365	.09263	.00766	.51772
#3	.00004	.00037	.00031	.00335	.10092	.00716	.06470

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Hf2773	Hf3399	K_7664	Li6707	Mg2790	Mn2576	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.04212	1.4812	5.7928	.00592	.18424	.02347	.00139
Stddev	.46299	.5416	.3216	.00238	.02246	.00088	.00014
%RSD	1099.1	36.564	5.5516	40.239	12.192	3.7456	9.9828

#1	-.25590	1.9789	5.4218	.00324	.20626	.02248	.00134
#2	.57551	1.5604	5.9639	.00781	.16136	.02378	.00155
#3	-.19324	.90442	5.9927	.00670	.18511	.02415	.00129

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: July 31, 2012



Sample Name: L1207084901SDL Acquired: 7/30/2012 14:33:19 Type: Unk
 Method: ICP-THERMO2_6010_200.7(v2005) Mode: CONC Corr. Factor: 1.000000
 User: KHR Custom ID1: 5 Custom ID2: Custom ID3:
 Comment: WG404939-02

Elem	Na5895	Ni2316	P_2149	Pb2203	Rb7800	S_1807	S_1820
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	37.516	.00258	F 1205.9	.00103	7.7151	F 94.474	F -8933.7
Stddev	2.264	.00026	14.1	.00067	7.0061	1.049	41.2
%RSD	6.0342	10.188	1.1712	64.506	90.810	1.1103	.46089

#1	34.947	.00288	1193.0	.00167	1.6849	93.369	-8896.7
#2	38.378	.00244	1221.0	.00034	15.401	94.596	-8926.4
#3	39.221	.00241	1203.6	.00109	6.0598	95.457	-8978.0

Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Fail	Chk Fail
High Limit			900.00			9.0000	9.0000
Low Limit			-.00400			-.00400	-.00400

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3372	Tl1908
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00009	.00008	.44912	-.00009	.00448	.00273	.00229
Stddev	.00423	.00025	.00691	.00019	.00086	.00306	.00160
%RSD	4767.6	314.31	1.5379	215.43	19.100	111.97	69.686

#1	-.00241	-.00014	.44213	.00013	.00545	.00407	.00053
#2	.00498	.00003	.44929	-.00015	.00414	.00490	.00365
#3	-.00230	.00035	.45594	-.00025	.00384	-.00077	.00269

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm
Avg	.00023	.00749	10.631
Stddev	.00059	.00007	.939
%RSD	257.56	.94552	8.8285

#1	.00087	.00747	11.416
#2	-.00028	.00743	10.885
#3	.00010	.00757	9.5915

Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Approved: July 31, 2012



Sample Name: L1207084901SDL Acquired: 7/30/2012 14:33:19 Type: Unk
Method: ICP-THERMO2_6010_200.7(v2005) Mode: CONC Corr. Factor: 1.000000
User: KHR Custom ID1: 5 Custom ID2: Custom ID3:
Comment: WG404939-02

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	32439.	17522.
Stddev	64.	599.
%RSD	.19879	3.4188
#1	32414.	18211.
#2	32390.	17227.
#3	32512.	17128.

Approved: July 31, 2012



Sample Name: CCV Acquired: 7/30/2012 14:36:32 Type: QC
 Method: ICP-THERMO2_6010_200.7(v2005) Mode: CONC Corr. Factor: 1.000000
 User: KHR Custom ID1: Custom ID2: Custom ID3:
 Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.41250	10.251	.41088	.51691	1.0374	.05065	10.396
Stddev	.00126	.772	.00265	.00269	.0846	.00009	.797
%RSD	.30524	7.5270	.64398	.52101	8.1565	.18546	7.6671

#1	.41272	9.3810	.41290	.51796	.94169	.05068	9.4950
#2	.41115	10.522	.40788	.51385	1.0683	.05055	10.681
#3	.41364	10.852	.41185	.51893	1.1022	.05073	11.010

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	Hf2322	Hf2641
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.05120	.20516	.50572	.51187	4.0702	1.0228	.94466
Stddev	.00009	.00031	.00145	.00067	.3403	.0053	.40294
%RSD	.18012	.15308	.28584	.13181	8.3599	.51925	42.655

#1	.05115	.20550	.50737	.51187	3.6864	1.0249	.53334
#2	.05130	.20487	.50470	.51255	4.1895	1.0268	.96198
#3	.05114	.20512	.50508	.51120	4.3348	1.0168	1.3387

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Hf2773	Hf3399	K_7664	Li6707	Mg2790	Mn2576	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F .31569	F .78788	52.673	1.0443	10.200	.53154	1.0312
Stddev	.42003	.53951	4.304	.0839	.811	.02392	.0014
%RSD	133.05	68.477	8.1710	8.0327	7.9549	4.5004	.13772

#1	-.16879	.16694	47.809	.94856	9.2816	.50603	1.0325
#2	.53849	1.1419	54.221	1.0794	10.499	.53511	1.0297
#3	.57738	1.0548	55.989	1.1049	10.820	.55347	1.0315

Check ?	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	1.0000	1.0000					
Range	-10.000%	-10.000%					

Approved: July 31, 2012



Sample Name: CCV Acquired: 7/30/2012 14:36:32 Type: QC
 Method: ICP-THERMO2_6010_200.7(v2005) Mode: CONC Corr. Factor: 1.000000
 User: KHR Custom ID1: Custom ID2: Custom ID3:
 Comment:

Elem	Na5895	Ni2316	P_2149	Pb2203	Rb7800	S_1807	S_1820
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	52.454	.51169	F 13.629	.51594	F 3.3588	10.386	F 18.133
Stddev	4.154	.00129	5.363	.00081	8.8998	.016	2.812
%RSD	7.9191	.25121	39.351	.15745	264.97	.15417	15.510

#1	47.768	.51150	19.732	.51678	-6.9103	10.404	19.654
#2	53.910	.51306	11.487	.51588	8.8349	10.380	14.887
#3	55.684	.51051	9.6683	.51516	8.1517	10.374	19.857

Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Fail	Chk Pass	Chk Fail
Value			10.000		10.000		10.000
Range			10.000%		-10.000%		10.000%

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3372	Ti1908
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.2464	.41427	5.0647	1.0307	1.0392	1.0511	.51616
Stddev	.0056	.00330	.0351	.0029	.0864	.0838	.00257
%RSD	.44704	.79770	.69327	.28479	8.3150	7.9733	.49734

#1	1.2490	.41047	5.0971	1.0329	.94147	.95654	.51905
#2	1.2502	.41647	5.0696	1.0319	1.0705	1.0808	.51530
#3	1.2400	.41588	5.0274	1.0274	1.1055	1.1161	.51414


Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm
Avg	1.0240	1.0207	F 5.7348
Stddev	.0051	.0015	1.2791
%RSD	.49767	.14767	22.305

#1	1.0275	1.0215	4.4342
#2	1.0182	1.0217	5.7789
#3	1.0264	1.0190	6.9913

Check ?	Chk Pass	Chk Pass	Chk Fail
Value			1.0000
Range			10.000%

Approved: July 31, 2012



Sample Name: CCV Acquired: 7/30/2012 14:36:32 Type: QC
Method: ICP-THERMO2_6010_200.7(v2005) Mode: CONC Corr. Factor: 1.000000
User: KHR Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	31905.	17560.
Stddev	27.	822.
%RSD	.08533	4.6833
#1	31891.	18473.
#2	31886.	17329.
#3	31936.	16878.

Approved: July 31, 2012



Sample Name: CCB Acquired: 7/30/2012 14:39:37 Type: Blank
 Method: ICP-THERMO2_6010_200.7(v2005) Mode: CONC Corr. Factor: 1.000000
 User: KHR Custom ID1: Custom ID2: Custom ID3:
 Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00035	-.03122	-.00056	-.00114	.00040	.00000	.04916
Stddev	.00086	.02787	.00075	.00084	.00076	.00004	.02817
%RSD	244.53	89.277	132.85	73.572	188.69	1029.4	57.307

#1	-.00062	-.06177	-.00040	-.00191	.00127	.00004	.08086
#2	.00064	-.02473	.00009	-.00025	-.00014	.00001	.02699
#3	.00104	-.00716	-.00138	-.00126	.00007	-.00004	.03964

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	Hf2322	Hf2641
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00003	.00024	-.00069	-.00037	.00034	.00114	F .84411
Stddev	.00010	.00020	.00055	.00034	.00402	.00501	.35009
%RSD	342.71	83.080	78.844	92.643	1168.3	439.60	41.475

#1	.00007	.00005	-.00032	-.00054	.00488	.00247	1.2268
#2	.00010	.00044	-.00044	.00002	-.00107	.00535	.53999
#3	-.00009	.00022	-.00132	-.00059	-.00278	-.00440	.76551

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit							.10000
Low Limit							-.10000

Elem	Hf2773	Hf3399	K_7664	Li6707	Mg2790	Mn2576	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F .88308	.04866	.31937	.00339	-.03281	.00016	.00105
Stddev	.72212	2.0812	.03561	.00480	.01664	.00010	.00017
%RSD	81.773	4277.2	11.151	141.56	50.715	64.293	16.048

#1	1.4846	-1.4535	.28526	.00780	-.01398	.00004	.00095
#2	1.0824	-.82477	.31653	.00410	-.03890	.00024	.00096
#3	.08225	2.4243	.35631	-.00173	-.04554	.00020	.00125

Check ?	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	.10000						
Low Limit	-.10000						

Approved: July 31, 2012



Sample Name: CCB Acquired: 7/30/2012 14:39:37 Type: Blank
 Method: ICP-THERMO2_6010_200.7(v2005) Mode: CONC Corr. Factor: 1.000000
 User: KHR Custom ID1: Custom ID2: Custom ID3:
 Comment:

Elem	Na5895	Ni2316	P_2149	Pb2203	Rb7800	S_1807	S_1820
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.13725	.00228	F 3.7882	.00154	F 10.710	F -.11376	F 8.3723
Stddev	.07003	.00035	12.667	.00145	9.095	.02722	.9669
%RSD	51.022	15.267	334.37	94.453	84.919	23.925	11.549

#1	.21731	.00264	-8.9584	.00315	2.8587	-.13098	8.4391
#2	.10698	.00226	16.373	.00113	8.5952	-.08238	9.3042
#3	.08744	.00195	3.9498	.00033	20.676	-.12792	7.3737

Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Fail	Chk Fail	Chk Fail
High Limit			.01000		.01000	.01000	.01000
Low Limit			-.01000		-.01000	-.01000	-.01000

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3372	Tl1908
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00298	-.00198	-.00008	.00050	.00074	.00181	.00193
Stddev	.00022	.00096	.00288	.00062	.00074	.00292	.00151
%RSD	7.4761	48.356	3441.5	121.99	99.050	161.23	78.355

#1	.00315	-.00302	-.00026	.00063	.00159	.00504	.00364
#2	.00308	-.00113	.00288	-.00017	.00027	-.00064	.00137
#3	.00273	-.00180	-.00287	.00104	.00036	.00103	.00077

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm
Avg	.00016	.00032	F -.27296
Stddev	.00028	.00006	.64738
%RSD	174.42	18.447	237.17

#1	.00022	.00034	.46039
#2	.00042	.00025	-.76513
#3	-.00014	.00037	-.51414

Check ?	Chk Pass	Chk Pass	Chk Fail
High Limit			.10000
Low Limit			-.10000

Approved: July 31, 2012



Sample Name: CCB Acquired: 7/30/2012 14:39:37 Type: Blank
Method: ICP-THERMO2_6010_200.7(v2005) Mode: CONC Corr. Factor: 1.000000
User: KHR Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	32039.	17240.
Stddev	83.	634.
%RSD	.25895	3.6752
#1	32048.	17972.
#2	32118.	16886.
#3	31952.	16863.

Approved: July 31, 2012



Sample Name: PBW 4A Acquired: 7/30/2012 14:51:20 Type: Unk
 Method: ICP-THERMO2_6010_200.7(v2005) Mode: CONC Corr. Factor: 1.000000
 User: KHR Custom ID1: Custom ID2: Custom ID3:
 Comment: WG404867-02

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00057	-.03795	-.00116	-.00195	-.00052	.00003	.01009
Stddev	.00065	.06032	.00174	.00083	.00042	.00003	.00759
%RSD	113.67	158.95	149.91	42.371	80.024	104.62	75.202

#1	-.00018	-.06275	-.00015	-.00270	-.00083	.00001	.00134
#2	.00096	.03082	-.00317	-.00106	-.00005	.00002	.01410
#3	.00094	-.08191	-.00017	-.00209	-.00068	.00007	.01484

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	Hf2322	Hf2641
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.00002	.00030	-.00057	-.00044	.00929	.00375	.49232
Stddev	.00007	.00008	.00026	.00061	.00748	.00098	.10880
%RSD	317.11	28.184	45.384	138.62	80.501	26.236	22.099

#1	-.00009	.00022	-.00031	-.00087	.01712	.00402	.58604
#2	.00005	.00029	-.00082	.00026	.00854	.00457	.51792
#3	-.00003	.00039	-.00058	-.00069	.00222	.00266	.37301

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Hf2773	Hf3399	K_7664	Li6707	Mg2790	Mn2576	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.20259	1.7117	-.06008	.00855	-.01168	.00040	.00015
Stddev	.11664	1.0281	.05648	.00332	.02437	.00009	.00014
%RSD	57.573	60.064	94.009	38.797	208.63	22.367	93.337

#1	.27781	1.2058	-.12498	.00709	-.03040	.00050	.00015
#2	.26173	2.8947	-.03322	.00621	.01587	.00033	.00001
#3	.06823	1.0345	-.02204	.01235	-.02052	.00037	.00030

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: July 31, 2012



Sample Name: PBW 4A Acquired: 7/30/2012 14:51:20 Type: Unk
 Method: ICP-THERMO2_6010_200.7(v2005) Mode: CONC Corr. Factor: 1.000000
 User: KHR Custom ID1: Custom ID2: Custom ID3:
 Comment: WG404867-02

Elem	Na5895	Ni2316	P_2149	Pb2203	Rb7800	S_1807	S_1820
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.07364	.00181	F -4.3631	.00139	F 13.061	F -.14106	F 10.725
Stddev	.01378	.00100	16.364	.00225	5.664	.02827	1.991
%RSD	18.707	55.374	375.05	161.29	43.367	20.040	18.563

#1	.08178	.00077	-3.1661	.00020	6.9192	-.12413	11.876
#2	.08140	.00189	-21.293	.00398	14.184	-.12536	8.4258
#3	.05773	.00277	11.369	.00000	18.079	-.17369	11.872

Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Fail	Chk Fail	Chk Fail
High Limit			900.00		9.0000	9.0000	9.0000
Low Limit			-.00400		-.00400	-.00400	-.00400

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3372	Tl1908
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.00064	-.00147	.02857	-.00044	-.00028	-.00013	.00055
Stddev	.00134	.00301	.00443	.00031	.00052	.00492	.00190
%RSD	209.44	204.90	15.509	69.240	182.68	3727.3	348.16

#1	.00086	-.00494	.02346	-.00037	.00013	.00102	.00210
#2	-.00172	.00037	.03095	-.00078	-.00086	-.00553	.00112
#3	-.00107	.00016	.03130	-.00018	-.00012	.00411	-.00158

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm
Avg	-.00006	.00281	.10223
Stddev	.00040	.00007	.67692
%RSD	727.80	2.6463	662.17

#1	-.00042	.00273	-.65409
#2	.00038	.00287	.65129
#3	-.00012	.00282	.30948

Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Approved: July 31, 2012



Sample Name: PBW 4A Acquired: 7/30/2012 14:51:20 Type: Unk
Method: ICP-THERMO2_6010_200.7(v2005) Mode: CONC Corr. Factor: 1.000000
User: KHR Custom ID1: Custom ID2: Custom ID3:
Comment: WG404867-02

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	32499.	17121.
Stddev	157.	438.
%RSD	.48433	2.5589
#1	32551.	17618.
#2	32624.	16959.
#3	32323.	16788.

Approved: July 31, 2012



Sample Name: LCSW 4A Acquired: 7/30/2012 14:54:31 Type: Unk
 Method: ICP-THERMO2_6010_200.7(v2005) Mode: CONC Corr. Factor: 1.000000
 User: KHR Custom ID1: Custom ID2: Custom ID3:
 Comment: WG404867-03

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	sF -1.1244	k 5.3118	sF -1.1528	sF -6.1564	.54402	sF -.14253
Stddev	2.3363	.3610	2.3600	12.570	.03940	.29387
%RSD	207.79	6.7960	204.72	204.17	7.2418	206.19

#1	.21872	4.8992	.21078	1.0718	.49959	.02648
#2	s -3.8221	k 5.4668	s -3.8779	s -20.671	.55775	s -.48185
#3	.23032	5.5694	.20867	1.1296	.57471	.02780

Check ?	Chk Fail	Chk Pass	Chk Fail	Chk Fail	Chk Pass	Chk Fail
High Limit	9.0000		90.000	90.000		4.5000
Low Limit	-.00400		-.01000	-.10000		-.00050

Elem	Ca4226	Cd2288	Co2286	Cr2677	Cu2247	Fe2611
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	5.3696	sF -.14022	sF -.56254	sF -1.5140	sF -1.4038	k 2.0920
Stddev	.3435	.28877	1.1598	3.0893	2.8957	.1470
%RSD	6.3975	205.94	206.17	204.05	206.28	7.0255

#1	4.9785	.02641	.10678	.26337	.26807	1.9242
#2	5.5080	s -.47366	s -1.9018	s -5.0812	s -4.7475	k 2.1541
#3	5.6223	.02660	.10735	.27592	.26806	2.1978

Check ?	Chk Pass	Chk Fail	Chk Fail	Chk Fail	Chk Fail	Chk Pass
High Limit		16.200	9.0000	45.000	180.00	
Low Limit		-.00050	-.00500	-.00300	-.00500	

Elem	Hf2322	Hf2641	Hf2773	Hf3399	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	sF -2.6618	.79588	.15877	.57999	27.168	.56187
Stddev	5.5568	.66916	.05198	.35442	1.815	.04156
%RSD	208.76	84.078	32.738	61.108	6.6795	7.3974

#1	.54438	.52840	.11284	.42093	25.087	.51449
#2	s -9.0783	1.5574	.21520	.33296	27.996	.57898
#3	.54835	.30184	.14829	.98607	28.420	.59215

Check ?	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	45.000					
Low Limit	-.10000					

Approved: July 31, 2012



Sample Name: LCSW 4A Acquired: 7/30/2012 14:54:31 Type: Unk
 Method: ICP-THERMO2_6010_200.7(v2005) Mode: CONC Corr. Factor: 1.000000
 User: KHR Custom ID1: Custom ID2: Custom ID3:
 Comment: WG404867-03

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	k 5.3781	k .27962	sF -2.8164	28.217	sF -4.3534	sF -1184.8
Stddev	.3629	.00916	5.8022	1.965	8.0008	2070.5
%RSD	6.7470	3.2751	206.01	6.9652	183.78	174.76

#1	4.9702	.27004	.53396	25.998	.26685	7.04
#2	k 5.4988	k .28052	s -9.5162	28.913	s -13.592	s -3575.6
#3	5.6652	.28829	.53297	29.739	.2648	14.23

Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Fail	Chk Fail
High Limit			9.0000		90.000	900.00
Low Limit			-.01000		-.02000	-.00400

Elem	Pb2203	Rb7800	S_1807	S_1820	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	sF -1.3325	6.8997	sF -31.420	sF 847.97	sF -3.3497	sF -1.0520
Stddev	2.7701	8.8435	64.016	1464.3	6.9055	2.2016
%RSD	207.89	128.17	203.74	172.68	206.16	209.27

#1	.26763	-2.9244	5.4746	14.898	.64117	.21982
#2	s -4.5311	14.225	s -105.34	s 2538.7	s -11.323	s -3.5942
#3	.26606	9.3984	5.604	-9.736	.6333	.21828

Check ?	Chk Fail	Chk Pass	Chk Fail	Chk Fail	Chk Fail	Chk Fail
High Limit	180.00		9.0000	9.0000	90.000	81.000
Low Limit	-.00500		-.00400	-.00400	-.02000	-.01000

Elem	Si2124	Sn1899	Sr4077	Ti3372	Ti1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	sF -14.509	sF -2.9045	.53988	k .54010	sF -1.2524	sF -2.9325
Stddev	29.699	5.9909	.03722	.03844	2.6394	6.0205
%RSD	204.70	206.26	6.8944	7.1163	210.74	205.30

#1	2.6609	.55579	.49753	.49595	.27204	.52915
#2	s -48.802	s -9.8222	.55468	k .55825	s -4.3001	s -9.8844
#3	2.6158	.55293	.56742	.56610	.27081	.55766

Check ?	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Fail	Chk Fail
High Limit	90.000	90.000			9.0000	90.000
Low Limit	-1.0000	-.10000			-.04000	-.01000

Approved: July 31, 2012



Sample Name: LCSW 4A Acquired: 7/30/2012 14:54:31 Type: Unk
 Method: ICP-THERMO2_6010_200.7(v2005) Mode: CONC Corr. Factor: 1.000000
 User: KHR Custom ID1: Custom ID2: Custom ID3:
 Comment: WG404867-03

Elem	Zn2062	Zr3391
Units	ppm	ppm
Avg	^ *****	S 30.669
Stddev	----	50.029
%RSD	----	163.13


#1	.53648	2.3675
#2	^ ----	S 88.434
#3	.53479	1.2051

Check ?	Chk Pass	Chk Pass
High Limit		
Low Limit		

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	^ *****	17405.
Stddev	----	571.
%RSD	----	3.2791

#1	32321.	18057.
#2	^ ----	17156.
#3	30833.	17000.

Approved: July 31, 2012



Sample Name: L1207083401 Acquired: 7/30/2012 14:57:36 Type: Unk
 Method: ICP-THERMO2_6010_200.7(v2005) Mode: CONC Corr. Factor: 1.000000
 User: KHR Custom ID1: Custom ID2: Custom ID3:
 Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00065	13.222	.01338	.02869	.10624	.00075	101.18
Stddev	.00100	.551	.00100	.00045	.00480	.00004	3.78
%RSD	153.61	4.1655	7.5077	1.5699	4.5184	5.8137	3.7358

#1	.00181	12.628	.01449	.02818	.10095	.00079	97.017
#2	.00007	13.321	.01253	.02886	.10745	.00071	102.11
#3	.00008	13.716	.01311	.02904	.11031	.00075	104.40

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	Hf2322	Hf2641
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.00048	.01355	.03858	.01854	43.789	.73449	.49280
Stddev	.00003	.00004	.00076	.00130	1.910	.00190	.47131
%RSD	6.6060	.29541	1.9742	7.0046	4.3613	.25809	95.639

#1	-.00050	.01352	.03836	.02002	41.630	.73462	.40070
#2	-.00049	.01354	.03943	.01762	44.480	.73254	1.0034
#3	-.00044	.01360	.03795	.01797	45.258	.73632	.07434

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Hf2773	Hf3399	K_7664	Li6707	Mg2790	Mn2576	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.70551	F -.81628	81.856	.02557	17.113	.33128	.00189
Stddev	.20333	.35106	3.125	.00384	.754	.00170	.00024
%RSD	28.821	43.008	3.8172	15.030	4.4054	.51334	12.648

#1	.78331	-1.1865	78.449	.02740	16.291	.33108	.00212
#2	.47476	-.77418	82.531	.02815	17.276	.32969	.00164
#3	.85845	-.48817	84.587	.02115	17.772	.33307	.00192

Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit		45.000					
Low Limit		-.10000					

Approved: July 31, 2012



Sample Name: L1207083401 Acquired: 7/30/2012 14:57:36 Type: Unk
 Method: ICP-THERMO2_6010_200.7(v2005) Mode: CONC Corr. Factor: 1.000000
 User: KHR Custom ID1: Custom ID2: Custom ID3:
 Comment:

Elem	Na5895	Ni2316	P_2149	Pb2203	Rb7800	S_1807	S_1820
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	115.55	.03523	F 8994.9	.01232	F 23.046	F 178.28	F -7263.4
Stddev	4.74	.00121	6.3	.00220	11.847	.37	5.1
%RSD	4.1017	3.4363	.07057	17.849	51.406	.20948	.06968

#1	110.26	.03488	8989.8	.00994	27.936	177.99	-7265.6
#2	116.96	.03423	9002.0	.01427	9.5368	178.70	-7257.6
#3	119.42	.03657	8992.8	.01276	31.665	178.15	-7267.0

Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Fail	Chk Fail	Chk Fail
High Limit			900.00		9.0000	9.0000	9.0000
Low Limit			-.00400		-.00400	-.00400	-.00400

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3372	Tl1908
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00555	.00178	38.939	.00053	.50393	.12262	.00354
Stddev	.00101	.00369	.165	.00029	.01977	.00564	.00116
%RSD	18.184	207.12	.42444	53.778	3.9231	4.5962	32.708

#1	.00625	.00366	38.891	.00031	.48202	.12887	.00287
#2	.00601	.00415	39.122	.00085	.50934	.12106	.00487
#3	.00439	-.00247	38.802	.00043	.52044	.11793	.00286

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm
Avg	.05192	.04473	.34120
Stddev	.00037	.00012	.53731
%RSD	.70729	.27863	157.48

#1	.05224	.04474	.79932
#2	.05201	.04460	.47447
#3	.05152	.04485	-.25020

Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Approved: July 31, 2012



Sample Name: L1207083401 Acquired: 7/30/2012 14:57:36 Type: Unk
Method: ICP-THERMO2_6010_200.7(v2005) Mode: CONC Corr. Factor: 1.000000
User: KHR Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	30395.	16243.
Stddev	38.	180.
%RSD	.12572	1.1077
#1	30434.	16369.
#2	30395.	16324.
#3	30358.	16037.

Approved: July 31, 2012



Sample Name: L1207083402 Acquired: 7/30/2012 15:00:39 Type: Unk
 Method: ICP-THERMO2_6010_200.7(v2005) Mode: CONC Corr. Factor: 1.000000
 User: KHR Custom ID1: Custom ID2: Custom ID3:
 Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.00080	.93779	.00610	.00913	.04815	.00011	53.391
Stddev	.00148	.05638	.00137	.00055	.00274	.00003	3.245
%RSD	186.11	6.0116	22.415	6.0591	5.6848	30.728	6.0784

#1	.00005	.87519	.00529	.00968	.04503	.00011	49.755
#2	-.00251	.98457	.00768	.00857	.04930	.00015	54.423
#3	.00007	.95359	.00534	.00914	.05013	.00008	55.994

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	Hf2322	Hf2641
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F -.00071	.01287	.00624	.00239	52.338	.61874	F -.63454
Stddev	.00016	.00016	.00051	.00156	3.285	.00073	.50238
%RSD	22.445	1.2771	8.1451	65.215	6.2765	.11783	79.173

#1	-.00053	.01292	.00611	.00419	48.624	.61793	-.88456
#2	-.00075	.01301	.00680	.00168	53.528	.61933	-.05620
#3	-.00084	.01269	.00580	.00132	54.862	.61897	-.96286

Check ?	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit	16.200						45.000
Low Limit	-.00050						-.10000

Elem	Hf2773	Hf3399	K_7664	Li6707	Mg2790	Mn2576	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.83548	F -.77654	58.989	.01327	10.161	.47440	.00086
Stddev	.92849	.83645	3.748	.00494	.662	.01245	.00020
%RSD	111.13	107.72	6.3542	37.211	6.5107	2.6233	23.167

#1	1.0521	-.71715	54.812	.00758	9.4320	.46176	.00083
#2	1.6365	-1.6411	60.095	.01645	10.328	.47479	.00068
#3	-.18218	.02863	62.060	.01578	10.723	.48664	.00108

Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit		45.000					
Low Limit		-.10000					

Approved: July 31, 2012



Sample Name: L1207083402 Acquired: 7/30/2012 15:00:39 Type: Unk
 Method: ICP-THERMO2_6010_200.7(v2005) Mode: CONC Corr. Factor: 1.000000
 User: KHR Custom ID1: Custom ID2: Custom ID3:
 Comment:

Elem	Na5895	Ni2316	P_2149	Pb2203	Rb7800	S_1807	S_1820
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	105.90	.01765	F 13987.	.00409	F 23.618	F 91.354	F -3577.0
Stddev	6.71	.00063	38.	.00115	12.282	.373	4.0
%RSD	6.3344	3.5521	.27434	28.062	52.002	.40794	.11138

#1	98.334	.01793	14010.	.00296	9.8613	91.514	-3580.2
#2	108.23	.01808	13943.	.00404	33.481	90.929	-3572.5
#3	111.13	.01693	14008.	.00526	27.512	91.620	-3578.2

Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Fail	Chk Fail	Chk Fail
High Limit			900.00		9.0000	9.0000	9.0000
Low Limit			-.00400		-.00400	-.00400	-.00400

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3372	Tl1908
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00061	.00080	16.583	.00030	.30551	.02007	.00331
Stddev	.00202	.00508	.096	.00018	.01890	.00206	.00115
%RSD	329.83	638.16	.58040	60.000	6.1849	10.260	34.827

#1	-.00171	.00658	16.544	.00034	.28420	.01769	.00379
#2	.00193	-.00124	16.513	.00044	.31210	.02131	.00199
#3	.00162	-.00296	16.693	.00010	.32023	.02120	.00414

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm
Avg	.02313	.02591	F -3.9492
Stddev	.00034	.00012	.1294
%RSD	1.4654	.45266	3.2759

#1	.02284	.02578	-4.0921
#2	.02304	.02595	-3.9153
#3	.02350	.02601	-3.8401

Check ?	Chk Pass	Chk Pass	Chk Fail
High Limit			45.000
Low Limit			-.00400

Approved: July 31, 2012



Sample Name: L1207083402 Acquired: 7/30/2012 15:00:39 Type: Unk
Method: ICP-THERMO2_6010_200.7(v2005) Mode: CONC Corr. Factor: 1.000000
User: KHR Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	30282.	16288.
Stddev	47.	448.
%RSD	.15372	2.7497
#1	30245.	16782.
#2	30334.	16177.
#3	30267.	15907.

Approved: July 31, 2012



Sample Name: L1207083403 Acquired: 7/30/2012 15:03:43 Type: Unk
 Method: ICP-THERMO2_6010_200.7(v2005) Mode: CONC Corr. Factor: 1.000000
 User: KHR Custom ID1: Custom ID2: Custom ID3:
 Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00010	.89204	.03191	.03067	.03790	.00026	34.058
Stddev	.00103	.07725	.00175	.00205	.00341	.00001	2.505
%RSD	1041.4	8.6594	5.4944	6.6899	9.0105	5.4732	7.3558

#1	-.00049	.80286	.03205	.03285	.03395	.00026	31.220
#2	.00129	.93528	.03358	.02877	.03990	.00027	34.993
#3	-.00050	.93797	.03009	.03040	.03984	.00024	35.962

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	Hf2322	Hf2641
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00021	.00956	.01000	.03108	6.7687	.16392	.15648
Stddev	.00007	.00011	.00014	.00095	.4280	.00342	.47425
%RSD	32.287	1.1949	1.3626	3.0513	6.3231	2.0835	303.07

#1	.00015	.00956	.00985	.03217	6.2857	.16786	.60570
#2	.00020	.00967	.01010	.03069	6.9193	.16179	.20310
#3	.00029	.00944	.01006	.03040	7.1010	.16212	-.33936


Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Hf2773	Hf3399	K_7664	Li6707	Mg2790	Mn2576	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.38167	2.1113	55.177	.01210	6.0516	.11756	.00285
Stddev	.42546	.7338	4.314	.00225	.4526	.00257	.00040
%RSD	111.47	34.757	7.8185	18.587	7.4790	2.1895	13.990

#1	.78913	1.3323	50.271	.01409	5.5620	.11469	.00257
#2	.41563	2.2121	56.883	.01253	6.1382	.11834	.00267
#3	-.05975	2.7896	58.378	.00966	6.4547	.11966	.00331

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: July 31, 2012



Sample Name: L1207083403 Acquired: 7/30/2012 15:03:43 Type: Unk
 Method: ICP-THERMO2_6010_200.7(v2005) Mode: CONC Corr. Factor: 1.000000
 User: KHR Custom ID1: Custom ID2: Custom ID3:
 Comment:

Elem	Na5895	Ni2316	P_2149	Pb2203	Rb7800	S_1807	S_1820
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	86.871	.01587	F 45547.	.00740	F 15.693	F 108.76	F -6928.7
Stddev	6.314	.00045	142.	.00173	3.496	.60	5.8
%RSD	7.2678	2.8463	.31119	23.439	22.279	.55580	.08345

#1	79.726	.01627	45394.	.00540	12.807	108.11	-6925.2
#2	89.191	.01538	45575.	.00842	19.581	108.86	-6925.4
#3	91.697	.01597	45673.	.00838	14.692	109.30	-6935.3

Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Fail	Chk Fail	Chk Fail
High Limit			900.00		9.0000	9.0000	9.0000
Low Limit			-.00400		-.00400	-.00400	-.00400

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3372	Tl1908
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00576	.00180	26.941	.00103	.13150	.05217	.00380
Stddev	.00149	.00066	.183	.00052	.00930	.00363	.00137
%RSD	25.900	36.368	.67816	50.367	7.0716	6.9630	36.035

#1	.00592	.00105	26.736	.00117	.12096	.04802	.00539
#2	.00420	.00221	27.002	.00146	.13499	.05378	.00299
#3	.00717	.00215	27.086	.00045	.13854	.05473	.00303


Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm
Avg	.04990	.03108	2.8453
Stddev	.00031	.00024	.5609
%RSD	.62753	.78525	19.715

#1	.05026	.03111	3.1250
#2	.04969	.03082	3.2114
#3	.04976	.03130	2.1995

Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Approved: July 31, 2012



Sample Name: L1207083403 Acquired: 7/30/2012 15:03:43 Type: Unk
Method: ICP-THERMO2_6010_200.7(v2005) Mode: CONC Corr. Factor: 1.000000
User: KHR Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	30303.	16296.
Stddev	42.	416.
%RSD	.13917	2.5523
#1	30268.	16776.
#2	30350.	16061.
#3	30291.	16050.

Approved: July 31, 2012



Sample Name: L1207083404 Acquired: 7/30/2012 15:06:47 Type: Unk
 Method: ICP-THERMO2_6010_200.7(v2005) Mode: CONC Corr. Factor: 1.000000
 User: KHR Custom ID1: Custom ID2: Custom ID3:
 Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.00059	.22652	.00289	.02094	.04630	.00009	52.320
Stddev	.00041	.03276	.00062	.00054	.00351	.00003	4.061
%RSD	70.343	14.462	21.265	2.5967	7.5749	32.175	7.7613

#1	-.00094	.25580	.00245	.02032	.04234	.00010	47.688
#2	-.00070	.19114	.00360	.02132	.04755	.00012	54.002
#3	-.00013	.23262	.00264	.02117	.04901	.00006	55.269

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	Hf2322	Hf2641
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00011	.00110	.00708	.00190	6.9255	.32792	.93059
Stddev	.00007	.00014	.00057	.00047	.5644	.00650	1.1689
%RSD	58.542	12.643	8.0333	24.494	8.1489	1.9814	125.61

#1	.00007	.00125	.00763	.00225	6.2938	.32893	.35752
#2	.00008	.00099	.00711	.00137	7.1031	.32098	.15880
#3	.00019	.00106	.00649	.00209	7.3798	.33386	2.2755

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Hf2773	Hf3399	K_7664	Li6707	Mg2790	Mn2576	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.65875	.78102	62.318	.01723	8.1183	.05907	.00101
Stddev	.83574	1.1285	4.895	.00228	.7088	.00181	.00021
%RSD	126.87	144.49	7.8555	13.243	8.7309	3.0671	20.745

#1	-.29226	.83324	56.735	.01464	7.3341	.05706	.00117
#2	1.2762	1.8825	64.345	.01895	8.3077	.05959	.00110
#3	.99231	-.37266	65.875	.01809	8.7132	.06057	.00077

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: July 31, 2012



Sample Name: L1207083404 Acquired: 7/30/2012 15:06:47 Type: Unk
 Method: ICP-THERMO2_6010_200.7(v2005) Mode: CONC Corr. Factor: 1.000000
 User: KHR Custom ID1: Custom ID2: Custom ID3:
 Comment:

Elem	Na5895	Ni2316	P_2149	Pb2203	Rb7800	S_1807	S_1820
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	50.291	.00569	F 6128.7	.00189	.26281	F 85.596	F -2880.0
Stddev	3.938	.00074	15.2	.00166	8.5972	.186	8.0
%RSD	7.8300	12.926	.24800	87.978	3271.3	.21767	.27630

#1	45.808	.00484	6111.2	.00072	6.4664	85.788	-2878.8
#2	51.874	.00617	6136.2	.00116	-9.5508	85.586	-2888.6
#3	53.192	.00607	6138.6	.00380	3.8728	85.416	-2872.8

Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Fail	Chk Fail
High Limit			900.00			9.0000	9.0000
Low Limit			-.00400			-.00400	-.00400

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3372	Tl1908
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00166	-.00399	9.2643	-.00042	.29259	.01962	.00264
Stddev	.00161	.00098	.0313	.00038	.02354	.00544	.00147
%RSD	96.901	24.537	.33778	92.481	8.0448	27.732	55.828

#1	.00352	-.00495	9.2987	-.00005	.26585	.02155	.00136
#2	.00061	-.00401	9.2375	-.00038	.30173	.02384	.00230
#3	.00086	-.00299	9.2567	-.00081	.31018	.01348	.00425

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm
Avg	.01395	.12598	1.2259
Stddev	.00026	.00017	.2718
%RSD	1.8698	.13308	22.176

#1	.01424	.12604	.93301
#2	.01373	.12611	1.4702
#3	.01388	.12579	1.2744

Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

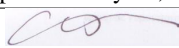
Approved: July 31, 2012



Sample Name: L1207083404 Acquired: 7/30/2012 15:06:47 Type: Unk
Method: ICP-THERMO2_6010_200.7(v2005) Mode: CONC Corr. Factor: 1.000000
User: KHR Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	31010.	16815.
Stddev	50.	502.
%RSD	.16223	2.9839
#1	31064.	17394.
#2	30964.	16541.
#3	31004.	16509.

Approved: July 31, 2012



Sample Name: LCSW 4A Acquired: 7/30/2012 15:09:55 Type: Unk
 Method: ICP-THERMO2_6010_200.7(v2005) Mode: CONC Corr. Factor: 1.000000
 User: KHR Custom ID1: Custom ID2: Custom ID3:
 Comment: WG404867-03

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.21850	5.2411	.20876	1.0710	.53780	.02618	5.4054
Stddev	.00067	.4998	.00157	.0067	.05116	.00015	.4271
%RSD	.30851	9.5363	.75332	.62428	9.5132	.58793	7.9007

#1	.21915	4.6702	.20699	1.0761	.47947	.02601	4.9162
#2	.21780	5.4534	.20931	1.0634	.55884	.02622	5.5959
#3	.21856	5.5998	.20999	1.0734	.57508	.02630	5.7040

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	Hf2322	Hf2641
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.02649	.10710	.26406	.26793	2.0840	.53523	.36833
Stddev	.00004	.00020	.00070	.00032	.1893	.00081	.42151
%RSD	.16921	.18400	.26564	.12074	9.0830	.15044	114.44

#1	.02644	.10691	.26326	.26765	1.8671	.53592	-.08889
#2	.02650	.10707	.26436	.26786	2.1686	.53541	.74145
#3	.02653	.10730	.26457	.26829	2.2162	.53435	.45243

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Hf2773	Hf3399	K_7664	Li6707	Mg2790	Mn2576	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.09763	.69677	27.542	.55124	5.3063	.28047	.53306
Stddev	.71157	.19578	2.613	.05064	.4643	.01322	.00058
%RSD	728.82	28.099	9.4858	9.1869	8.7495	4.7128	.10874

#1	.89909	.58755	24.548	.49286	4.7833	.26560	.53369
#2	-.14630	.92280	28.722	.57747	5.4657	.28490	.53291
#3	-.45989	.57996	29.357	.58338	5.6698	.29090	.53256

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: July 31, 2012



Sample Name: LCSW 4A Acquired: 7/30/2012 15:09:55 Type: Unk
 Method: ICP-THERMO2_6010_200.7(v2005) Mode: CONC Corr. Factor: 1.000000
 User: KHR Custom ID1: Custom ID2: Custom ID3:
 Comment: WG404867-03

Elem	Na5895	Ni2316	P_2149	Pb2203	Rb7800	S_1807	S_1820
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	28.023	.26933	26.435	.27326	F 16.902	5.6290	F -3.9878
Stddev	2.522	.00067	7.977	.00211	10.210	.0893	2.1768
%RSD	9.0000	.24852	30.176	.77346	60.408	1.5867	54.586

#1	25.139	.26952	27.064	.27440	7.6111	5.7294	-1.8915
#2	29.114	.26988	34.080	.27455	27.832	5.5584	-3.8349
#3	29.815	.26858	18.162	.27082	15.261	5.5992	-6.2370

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Fail
High Limit					9.0000		9.0000
Low Limit					-.00400		-.00400

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3372	Tl1908
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.64251	.21955	2.7440	.55925	.53334	.53100	.27595
Stddev	.00425	.00190	.0230	.00343	.04971	.04805	.00241
%RSD	.66170	.86494	.83972	.61258	9.3201	9.0493	.87232

#1	.63764	.21739	2.7204	.55575	.47641	.47576	.27357
#2	.64440	.22093	2.7664	.56260	.55550	.55409	.27838
#3	.64550	.22035	2.7454	.55941	.56813	.56314	.27589

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm
Avg	.52551	.54135	.30801
Stddev	.00265	.00096	.28502
%RSD	.50438	.17652	92.535

#1	.52696	.54032	.15582
#2	.52245	.54222	.63681
#3	.52711	.54149	.13139

Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Approved: July 31, 2012



Sample Name: LCSW 4A Acquired: 7/30/2012 15:09:55 Type: Unk
Method: ICP-THERMO2_6010_200.7(v2005) Mode: CONC Corr. Factor: 1.000000
User: KHR Custom ID1: Custom ID2: Custom ID3:
Comment: WG404867-03

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	31340.	16805.
Stddev	81.	779.
%RSD	.25757	4.6377
#1	31260.	17693.
#2	31421.	16489.
#3	31338.	16234.

Approved: July 31, 2012



Sample Name: L1207083406 Acquired: 7/30/2012 15:13:04 Type: Unk
 Method: ICP-THERMO2_6010_200.7(v2005) Mode: CONC Corr. Factor: 1.000000
 User: KHR Custom ID1: Custom ID2: Custom ID3:
 Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.00011	.42085	.01255	.12504	.02958	.00003	96.948
Stddev	.00027	.05559	.00049	.00054	.00223	.00004	7.747
%RSD	249.24	13.209	3.8714	.42940	7.5552	120.72	7.9913

#1	-.00037	.37470	.01307	.12565	.02706	.00002	88.307
#2	.00017	.48256	.01211	.12481	.03032	.00008	99.262
#3	-.00013	.40528	.01246	.12465	.03134	.00000	103.27

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	Hf2322	Hf2641
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00976	.00221	.00210	.00450	20.898	.28711	.58440
Stddev	.00002	.00008	.00065	.00064	1.629	.00090	.18507
%RSD	.22909	3.6989	31.129	14.235	7.7954	.31517	31.668

#1	.00978	.00223	.00240	.00512	19.057	.28656	.43898
#2	.00974	.00229	.00135	.00384	21.487	.28815	.79271
#3	.00974	.00213	.00255	.00452	22.151	.28661	.52150


Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Hf2773	Hf3399	K_7664	Li6707	Mg2790	Mn2576	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F -.22374	F -.11669	12.555	.01025	5.8021	.13719	.00125
Stddev	.15368	.16313	.931	.00351	.4301	.00554	.00041
%RSD	68.688	139.80	7.4160	34.251	7.4124	4.0373	32.518

#1	-.12457	-.03694	11.526	.00647	5.3281	.13122	.00094
#2	-.40076	-.00877	12.798	.01340	5.9107	.13820	.00111
#3	-.14587	-.30435	13.340	.01087	6.1674	.14216	.00171

Check ?	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	45.000	45.000					
Low Limit	-.10000	-.10000					

Approved: July 31, 2012



Sample Name: L1207083406 Acquired: 7/30/2012 15:13:04 Type: Unk
 Method: ICP-THERMO2_6010_200.7(v2005) Mode: CONC Corr. Factor: 1.000000
 User: KHR Custom ID1: Custom ID2: Custom ID3:
 Comment:

Elem	Na5895	Ni2316	P_2149	Pb2203	Rb7800	S_1807	S_1820
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	8.0353	.00350	F 2843.1	.03823	F 16.003	F 315.90	F -19909.
Stddev	.5843	.00076	10.1	.00185	18.428	2.55	61.
%RSD	7.2719	21.656	.35354	4.8419	115.15	.80807	.30754

#1	7.3768	.00419	2846.6	.04032	1.7306	318.82	-19977.
#2	8.2371	.00269	2850.9	.03760	9.4713	314.74	-19858.
#3	8.4920	.00361	2831.8	.03678	36.806	314.13	-19893.

Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Fail	Chk Fail	Chk Fail
High Limit			900.00		9.0000	9.0000	9.0000
Low Limit			-.00400		-.00400	-.00400	-.00400

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3372	Tl1908
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00342	.00125	5.2094	.00087	.16778	.00379	-.00021
Stddev	.00212	.00206	.0490	.00097	.01318	.00173	.00144
%RSD	61.865	164.63	.94094	110.83	7.8539	45.527	670.78

#1	.00502	.00310	5.2660	.00110	.15300	.00558	.00126
#2	.00422	.00161	5.1821	-.00019	.17205	.00366	-.00161
#3	.00102	-.00097	5.1802	.00171	.17830	.00214	-.00030

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm
Avg	.00361	.20379	F -1.7122
Stddev	.00065	.00053	.6857
%RSD	17.908	.25913	40.050

#1	.00436	.20439	-1.3030
#2	.00325	.20350	-1.3297
#3	.00323	.20346	-2.5039

Check ?	Chk Pass	Chk Pass	Chk Fail
High Limit			45.000
Low Limit			-.00400

Approved: July 31, 2012



Sample Name: L1207083406 Acquired: 7/30/2012 15:13:04 Type: Unk
Method: ICP-THERMO2_6010_200.7(v2005) Mode: CONC Corr. Factor: 1.000000
User: KHR Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	30834.	16869.
Stddev	85.	713.
%RSD	.27507	4.2259
#1	30915.	17665.
#2	30746.	16653.
#3	30842.	16290.

Approved: July 31, 2012



Sample Name: L1207083406PS Acquired: 7/30/2012 15:16:07 Type: Unk
 Method: ICP-THERMO2_6010_200.7(v2005) Mode: CONC Corr. Factor: 1.000000
 User: KHR Custom ID1: Custom ID2: Custom ID3:
 Comment: WG404958-01

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.21440	5.5347	.21590	1.1689	.55121	.02590	91.041
Stddev	.00037	.4508	.00233	.0032	.04735	.00014	7.296
%RSD	.17247	8.1447	1.0786	.27765	8.5905	.53728	8.0140

#1	.21423	5.0214	.21548	1.1679	.49747	.02579	82.857
#2	.21414	5.7163	.21841	1.1725	.56936	.02585	93.404
#3	.21482	5.8663	.21381	1.1663	.58680	.02605	96.863

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	Hf2322	Hf2641
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.03464	.10567	.26071	.26455	20.524	.77503	.47706
Stddev	.00007	.00033	.00098	.00142	1.686	.00340	.57992
%RSD	.19479	.31073	.37715	.53535	8.2138	.43840	121.56

#1	.03460	.10543	.26043	.26617	18.626	.77886	-.16738
#2	.03460	.10555	.25990	.26389	21.101	.77383	.64168
#3	.03472	.10605	.26181	.26358	21.846	.77239	.95687

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Hf2773	Hf3399	K_7664	Li6707	Mg2790	Mn2576	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.61034	1.4218	37.741	.54780	10.211	.39598	.52201
Stddev	.08304	1.2957	3.109	.04374	.908	.01465	.00045
%RSD	13.605	91.126	8.2382	7.9851	8.8956	3.7004	.08594

#1	.53242	.73252	34.257	.49781	9.2006	.37937	.52199
#2	.60089	.61655	38.734	.56650	10.473	.40147	.52246
#3	.69769	2.9164	40.233	.57908	10.960	.40709	.52157

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: July 31, 2012



Sample Name: L1207083406PS Acquired: 7/30/2012 15:16:07 Type: Unk
 Method: ICP-THERMO2_6010_200.7(v2005) Mode: CONC Corr. Factor: 1.000000
 User: KHR Custom ID1: Custom ID2: Custom ID3:
 Comment: WG404958-01

Elem	Na5895	Ni2316	P_2149	Pb2203	Rb7800	S_1807	S_1820
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	34.216	.26325	F 2556.5	.29529	F 19.931	F 287.04	F -17974.
Stddev	2.877	.00061	9.0	.00131	6.929	1.66	31.
%RSD	8.4090	.23253	.35270	.44241	34.768	.57751	.17301

#1	30.952	.26394	2563.6	.29639	12.132	288.63	-17997.
#2	35.311	.26275	2546.4	.29563	22.279	287.17	-17988.
#3	36.385	.26307	2559.7	.29385	25.381	285.32	-17939.

Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Fail	Chk Fail	Chk Fail
High Limit			900.00		9.0000	9.0000	9.0000
Low Limit			-.00400		-.00400	-.00400	-.00400

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3372	Tl1908
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.62232	.21050	7.3311	.00100	.66622	.52662	.26306
Stddev	.00609	.00176	.0335	.00038	.05592	.04824	.00272
%RSD	.97887	.83810	.45704	38.051	8.3935	9.1595	1.0338

#1	.62728	.20970	7.3665	.00080	.60358	.47230	.26480
#2	.62415	.21252	7.3270	.00076	.68398	.54310	.26445
#3	.61552	.20928	7.2998	.00143	.71111	.56445	.25993

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm
Avg	.51945	.70956	F -.88845
Stddev	.00109	.00183	.41843
%RSD	.20993	.25851	47.097

#1	.51833	.71099	-.57277
#2	.51950	.71019	-.72951
#3	.52051	.70749	-1.3631

Check ?	Chk Pass	Chk Pass	Chk Fail
High Limit			45.000
Low Limit			-.00400

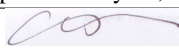
Approved: July 31, 2012



Sample Name: L1207083406PS Acquired: 7/30/2012 15:16:07 Type: Unk
Method: ICP-THERMO2_6010_200.7(v2005) Mode: CONC Corr. Factor: 1.000000
User: KHR Custom ID1: Custom ID2: Custom ID3:
Comment: WG404958-01

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	30628.	16614.
Stddev	53.	607.
%RSD	.17467	3.6516
#1	30574.	17305.
#2	30629.	16369.
#3	30681.	16168.

Approved: July 31, 2012



Sample Name: L1207083406SDL Acquired: 7/30/2012 15:19:10 Type: Unk
 Method: ICP-THERMO2_6010_200.7(v2005) Mode: CONC Corr. Factor: 1.000000
 User: KHR Custom ID1: 5 Custom ID2: Custom ID3:
 Comment: WG404958-02

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.00001	.02902	.00238	.02827	.00667	.00000	20.934
Stddev	.00072	.02387	.00208	.00263	.00046	.0000	1.586
%RSD	11555.	82.249	87.607	9.2870	6.8828	637.68	7.5760

#1	.00069	.02158	.00477	.03122	.00690	.00003	19.155
#2	-.00074	.00976	.00097	.02618	.00614	-.00002	21.448
#3	.00003	.05572	.00139	.02742	.00697	-.00002	22.199

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	Hf2322	Hf2641
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00190	.00065	-.00007	.00079	4.4562	.06675	.29843
Stddev	.00013	.00006	.00021	.00047	.3373	.00338	.16868
%RSD	6.6711	9.1191	315.63	59.354	7.5688	5.0690	56.523

#1	.00202	.00071	-.00027	.00068	4.0731	.06424	.32183
#2	.00176	.00059	.00015	.00039	4.5867	.06541	.11927
#3	.00191	.00065	-.00008	.00131	4.7087	.07060	.45420

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Hf2773	Hf3399	K_7664	Li6707	Mg2790	Mn2576	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.51787	.96104	2.8041	.00963	1.2287	.03122	.00045
Stddev	.32904	1.1657	.1078	.00202	.0785	.00122	.00035
%RSD	63.536	121.29	3.8432	20.966	6.3883	3.8990	78.164

#1	.35095	-.13939	2.7214	.01193	1.1389	.02987	.00025
#2	.30575	.83999	2.7650	.00815	1.2625	.03157	.00085
#3	.89691	2.1825	2.9260	.00882	1.2846	.03222	.00023

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: July 31, 2012



Sample Name: L1207083406SDL Acquired: 7/30/2012 15:19:10 Type: Unk
 Method: ICP-THERMO2_6010_200.7(v2005) Mode: CONC Corr. Factor: 1.000000
 User: KHR Custom ID1: 5 Custom ID2: Custom ID3:
 Comment: WG404958-02

Elem	Na5895	Ni2316	P_2149	Pb2203	Rb7800	S_1807	S_1820
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.8069	.00266	622.89	.00923	8.8013	F 68.841	F -4293.5
Stddev	.0942	.00085	7.82	.00212	10.801	.307	20.1
%RSD	5.2120	32.023	1.2557	23.008	122.72	.44601	.46925

#1	1.6982	.00178	618.87	.00717	-3.6702	68.499	-4270.8
#2	1.8599	.00348	617.89	.01141	15.112	69.092	-4309.4
#3	1.8626	.00272	631.91	.00909	14.962	68.933	-4300.2

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Fail
High Limit						9.0000	9.0000
Low Limit						-0.0400	-0.0400

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3372	Tl1908
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00221	-0.00071	1.1348	-0.00002	.03621	-0.00135	-0.00003
Stddev	.00154	.00032	.0065	.00016	.00259	.00112	.00194
%RSD	69.513	44.623	.57271	881.08	7.1559	83.132	6682.1

#1	.00367	-0.00071	1.1295	.00009	.03332	-0.00107	-0.00102
#2	.00060	-0.00104	1.1421	-0.00020	.03699	-0.00040	.00220
#3	.00237	-0.00040	1.1329	.00006	.03832	-0.00259	-0.00127

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm
Avg	.00104	.04537	F -.63208
Stddev	.00026	.00031	.24563
%RSD	24.786	.68180	38.860

#1	.00075	.04521	-.84068
#2	.00124	.04518	-.36135
#3	.00113	.04573	-.69420

Check ?	Chk Pass	Chk Pass	Chk Fail
High Limit			45.000
Low Limit			-0.00400

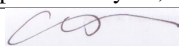
Approved: July 31, 2012



Sample Name: L1207083406SDL Acquired: 7/30/2012 15:19:10 Type: Unk
Method: ICP-THERMO2_6010_200.7(v2005) Mode: CONC Corr. Factor: 1.000000
User: KHR Custom ID1: 5 Custom ID2: Custom ID3:
Comment: WG404958-02

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	32033.	17301.
Stddev	63.	570.
%RSD	.19663	3.2919
#1	31984.	17957.
#2	32104.	17021.
#3	32012.	16926.

Approved: July 31, 2012



Sample Name: CCV Acquired: 7/30/2012 15:22:25 Type: QC
 Method: ICP-THERMO2_6010_200.7(v2005) Mode: CONC Corr. Factor: 1.000000
 User: KHR Custom ID1: Custom ID2: Custom ID3:
 Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.40959	10.234	.40692	.51311	1.0328	.05041	10.373
Stddev	.00514	.921	.00089	.00359	.0963	.00064	.895
%RSD	1.2537	8.9970	.21785	.69941	9.3268	1.2602	8.6296

#1	.40367	9.1841	.40705	.50905	.92297	.04968	9.3603
#2	.41253	10.615	.40774	.51444	1.0723	.05076	10.700
#3	.41259	10.903	.40598	.51585	1.1030	.05080	11.059

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	Hf2322	Hf2641
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.05104	.20501	.50426	.51300	4.0331	1.0243	F .75708
Stddev	.00020	.00037	.00424	.00084	.3560	.0030	.40144
%RSD	.39234	.18212	.84126	.16341	8.8279	.29203	53.025

#1	.05086	.20511	.49943	.51204	3.6296	1.0213	1.2181
#2	.05102	.20460	.50738	.51356	4.1670	1.0242	.56800
#3	.05126	.20533	.50597	.51342	4.3028	1.0273	.48508

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
Value							1.0000
Range							-10.000%

Elem	Hf2773	Hf3399	K_7664	Li6707	Mg2790	Mn2576	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F .87527	F .20369	52.703	1.0437	10.112	.53869	1.0318
Stddev	.45152	.54281	4.819	.0919	.974	.02033	.0005
%RSD	51.586	266.49	9.1439	8.8049	9.6277	3.7746	.04809

#1	1.3907	-.13796	47.210	.93940	9.0118	.51713	1.0315
#2	.54975	-.08057	54.678	1.0787	10.463	.54142	1.0316
#3	.68533	.82959	56.220	1.1129	10.862	.55753	1.0324

Check ?	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	1.0000	1.0000					
Range	-10.000%	-10.000%					

Approved: July 31, 2012



Sample Name: CCV Acquired: 7/30/2012 15:22:25 Type: QC
 Method: ICP-THERMO2_6010_200.7(v2005) Mode: CONC Corr. Factor: 1.000000
 User: KHR Custom ID1: Custom ID2: Custom ID3:
 Comment:

Elem	Na5895	Ni2316	P_2149	Pb2203	Rb7800	S_1807	S_1820
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	52.424	.51084	F .19943	.51653	F 6.2576	10.557	9.4509
Stddev	4.812	.00070	17.896	.00250	9.3983	.062	4.4380
%RSD	9.1793	.13657	8973.7	.48433	150.19	.58886	46.959

#1	46.929	.51031	-17.034	.51455	-2.1883	10.544	12.849
#2	54.455	.51163	18.692	.51934	4.5792	10.625	4.4299
#3	55.887	.51058	-1.0605	.51570	16.382	10.503	11.073

Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Fail	Chk Pass	Chk Pass
Value			10.000		10.000		
Range			-10.000%		-10.000%		

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3372	Ti1908
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.2398	.41297	5.0364	1.0327	1.0349	1.0427	.51693
Stddev	.0034	.00180	.0298	.0015	.0953	.1028	.00133
%RSD	.27128	.43497	.59093	.14879	9.2112	9.8559	.25759

#1	1.2360	.41504	5.0185	1.0318	.92654	.92570	.51581
#2	1.2406	.41186	5.0199	1.0319	1.0725	1.0839	.51657
#3	1.2426	.41200	5.0707	1.0345	1.1058	1.1184	.51840

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm
Avg	1.0143	1.0228	F .82551
Stddev	.0109	.0004	.54359
%RSD	1.0754	.03612	65.849

#1	1.0023	1.0228	1.3302
#2	1.0169	1.0224	.24996
#3	1.0236	1.0232	.89638

Check ?	Chk Pass	Chk Pass	Chk Fail
Value			1.0000
Range			-10.000%

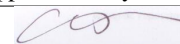
Approved: July 31, 2012



Sample Name: CCV Acquired: 7/30/2012 15:22:25 Type: QC
Method: ICP-THERMO2_6010_200.7(v2005) Mode: CONC Corr. Factor: 1.000000
User: KHR Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	31275.	16824.
Stddev	90.	499.
%RSD	.28718	2.9644
#1	31336.	17375.
#2	31172.	16696.
#3	31317.	16403.

Approved: July 31, 2012



Sample Name: CCB Acquired: 7/30/2012 15:25:30 Type: Blank
 Method: ICP-THERMO2_6010_200.7(v2005) Mode: CONC Corr. Factor: 1.000000
 User: KHR Custom ID1: Custom ID2: Custom ID3:
 Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00015	-.00839	.00065	.00105	.00088	.00001	.02122
Stddev	.00040	.04693	.00092	.00129	.00111	.00001	.04225
%RSD	270.52	559.38	140.48	123.23	126.25	104.41	199.13

#1	.00055	.04482	-.00029	.00198	.00212	.00002	.07000
#2	-.00024	-.04388	.00155	.00158	.00056	.00000	-.00261
#3	.00012	-.02611	.00070	-.00042	-.00004	.00002	-.00373

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	Hf2322	Hf2641
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.00005	.00039	-.00031	-.00036	-.00079	.00609	F .50212
Stddev	.00014	.00003	.00021	.00032	.00353	.00292	.38391
%RSD	294.44	7.3868	66.774	87.803	449.34	47.902	76.457

#1	-.00019	.00041	-.00017	-.00051	.00324	.00706	.15016
#2	-.00003	.00036	-.00055	-.00058	-.00223	.00281	.44469
#3	.00008	.00039	-.00021	.00000	-.00336	.00839	.91151

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit							.10000
Low Limit							-.10000

Elem	Hf2773	Hf3399	K_7664	Li6707	Mg2790	Mn2576	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F 1.0094	F 1.2703	.27210	.00429	-.00054	.00014	.00100
Stddev	.3746	1.6233	.07319	.00061	.02751	.00010	.00026
%RSD	37.107	127.79	26.898	14.145	5070.8	70.691	26.316

#1	1.0425	1.9421	.35371	.00451	.02325	.00003	.00075
#2	1.3664	2.4499	.25029	.00360	.00579	.00022	.00128
#3	.61943	-.58109	.21229	.00475	-.03067	.00016	.00096

Check ?	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	.10000	.10000					
Low Limit	-.10000	-.10000					

Approved: July 31, 2012



Sample Name: CCB Acquired: 7/30/2012 15:25:30 Type: Blank
 Method: ICP-THERMO2_6010_200.7(v2005) Mode: CONC Corr. Factor: 1.000000
 User: KHR Custom ID1: Custom ID2: Custom ID3:
 Comment:

Elem	Na5895	Ni2316	P_2149	Pb2203	Rb7800	S_1807	S_1820
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.11014	.00059	F -4.8634	.00106	F 20.131	F -.04639	F 3.9331
Stddev	.11590	.00084	19.351	.00141	12.433	.07841	1.9008
%RSD	105.23	142.25	397.89	133.31	61.759	169.03	48.328

#1	.24230	.00086	-27.191	-.00048	7.2038	-.00504	4.6975
#2	.06236	.00127	5.5389	.00229	21.188	-.13683	5.3326
#3	.02576	-.00035	7.0617	.00136	32.002	.00270	1.7691

Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Fail	Chk Fail	Chk Fail
High Limit			.01000		.01000	.01000	.01000
Low Limit			-.01000		-.01000	-.01000	-.01000

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3372	Tl1908
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00137	-.00062	.00642	.00038	.00097	.00230	.00143
Stddev	.00196	.00171	.00349	.00017	.00130	.00174	.00045
%RSD	143.04	277.94	54.449	45.747	134.65	75.340	31.731

#1	.00234	-.00034	.00286	.00047	.00247	.00403	.00169
#2	.00266	.00094	.00985	.00049	.00029	.00232	.00169
#3	-.00089	-.00245	.00654	.00018	.00014	.00056	.00091

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm
Avg	.00016	.00015	F .20648
Stddev	.00028	.00012	.52520
%RSD	182.19	84.303	254.36

#1	.00011	.00027	.68734
#2	-.00010	.00014	-.35398
#3	.00046	.00003	.28607

Check ?	Chk Pass	Chk Pass	Chk Fail
High Limit			.10000
Low Limit			-.10000

Approved: July 31, 2012



Sample Name: CCB Acquired: 7/30/2012 15:25:30 Type: Blank
Method: ICP-THERMO2_6010_200.7(v2005) Mode: CONC Corr. Factor: 1.000000
User: KHR Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	31353.	16788.
Stddev	116.	706.
%RSD	.37095	4.2039
#1	31456.	17584.
#2	31377.	16541.
#3	31227.	16239.

Approved: July 31, 2012



Sample Name: L1207083405 Acquired: 7/30/2012 15:28:51 Type: Unk
 Method: ICP-THERMO2_6010_200.7(v2005) Mode: CONC Corr. Factor: 1.000000
 User: KHR Custom ID1: Custom ID2: Custom ID3:
 Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00007	.66321	-.00054	.04814	.02597	.00006	68.375
Stddev	.00061	.04921	.00100	.00131	.00182	.00003	4.719
%RSD	890.76	7.4197	183.70	2.7179	7.0050	57.428	6.9011

#1	.00075	.62486	.00049	.04831	.02387	.00007	63.008
#2	-.00044	.64607	-.00062	.04935	.02710	.00002	70.242
#3	-.00010	.71869	-.00150	.04675	.02694	.00009	71.874

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	Hf2322	Hf2641
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00015	.00050	.00183	.00104	2.9027	.43695	.48971
Stddev	.00004	.00030	.00015	.00031	.1846	.00175	.33276
%RSD	27.733	59.175	8.1907	29.455	6.3607	.40137	67.949

#1	.00010	.00050	.00177	.00097	2.6932	.43517	.32743
#2	.00019	.00020	.00200	.00137	2.9732	.43867	.87248
#3	.00016	.00080	.00172	.00077	3.0418	.43702	.26923


Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Hf2773	Hf3399	K_7664	Li6707	Mg2790	Mn2576	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.31823	-.01702	2.3134	.01134	7.1103	.09361	.00137
Stddev	.61947	1.0508	.2160	.00529	.4728	.00431	.00021
%RSD	194.66	6173.6	9.3379	46.701	6.6501	4.6036	15.200

#1	.34791	.82772	2.1248	.01196	6.5738	.08878	.00120
#2	-.31555	.31485	2.2664	.01629	7.2906	.09498	.00132
#3	.92232	-1.1936	2.5491	.00576	7.4664	.09706	.00160

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: July 31, 2012



Sample Name: L1207083405 Acquired: 7/30/2012 15:28:51 Type: Unk
 Method: ICP-THERMO2_6010_200.7(v2005) Mode: CONC Corr. Factor: 1.000000
 User: KHR Custom ID1: Custom ID2: Custom ID3:
 Comment:

Elem	Na5895	Ni2316	P_2149	Pb2203	Rb7800	S_1807	S_1820
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	12.584	.00280	186.62	.00329	6.0617	F 75.399	F -172.71
Stddev	.853	.00048	14.84	.00214	10.980	.195	1.16
%RSD	6.7784	17.060	7.9493	65.040	181.14	.25884	.67023

#1	11.611	.00318	178.12	.00571	-6.4927	75.505	-172.42
#2	12.938	.00227	203.75	.00163	10.806	75.174	-171.72
#3	13.203	.00296	178.00	.00253	13.872	75.519	-173.98

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Fail
High Limit						9.0000	9.0000
Low Limit						-0.0400	-0.0400

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3372	Tl1908
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00157	-.00133	12.457	.00031	.42728	.01646	.00164
Stddev	.00255	.00193	.141	.00031	.02856	.00202	.00016
%RSD	162.17	144.92	1.1313	102.22	6.6853	12.270	9.7582

#1	.00358	-.00264	12.361	.00000	.39472	.01413	.00145
#2	.00243	-.00224	12.391	.00063	.43902	.01750	.00170
#3	-.00130	.00088	12.619	.00029	.44810	.01775	.00175


Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm
Avg	.00142	.00514	.66428
Stddev	.00016	.00006	.53273
%RSD	11.265	1.1419	80.195

#1	.00137	.00507	.37520
#2	.00160	.00518	.33860
#3	.00129	.00517	1.2791

Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			


Approved: July 31, 2012



Sample Name: L1207083405 Acquired: 7/30/2012 15:28:51 Type: Unk
Method: ICP-THERMO2_6010_200.7(v2005) Mode: CONC Corr. Factor: 1.000000
User: KHR Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	32297.	17667.
Stddev	48.	725.
%RSD	.14882	4.1042
#1	32306.	18496.
#2	32246.	17355.
#3	32341.	17150.

Approved: July 31, 2012



Sample Name: L1207083407 Acquired: 7/30/2012 15:32:02 Type: Unk
 Method: ICP-THERMO2_6010_200.7(v2005) Mode: CONC Corr. Factor: 1.000000
 User: KHR Custom ID1: Custom ID2: Custom ID3:
 Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-0.0056	.64140	.00203	.04727	.02567	.00003
Stddev	.00078	.11025	.00041	.00116	.00092	.00001
%RSD	140.44	17.190	20.352	2.4524	3.5803	14.568

#1	-0.0045	.51897	.00236	.04822	.02479	.00003
#2	.00017	.67236	.00217	.04598	.02560	.00004
#3	-.00139	.73286	.00157	.04762	.02662	.00004

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Ca4226	Cd2288	Co2286	Cr2677	Cu2247	Fe2611
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	44.593	-0.0008	.00025	.00129	.00161	5.4631
Stddev	2.399	.00026	.00019	.00123	.00077	.2601
%RSD	5.3795	306.46	75.076	95.334	47.546	4.7603

#1	41.922	.00017	.00046	-.00013	.00209	5.1710
#2	45.292	-.00007	.00016	.00201	.00201	5.5489
#3	46.564	-.00035	.00012	.00199	.00073	5.6695

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Hf2322	Hf2641	Hf2773	Hf3399	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.12075	F -.15519	1.2309	.82100	17.806	.00781
Stddev	.00211	.24410	.4884	1.7659	1.001	.00388
%RSD	1.7509	157.29	39.679	215.09	5.6237	49.650

#1	.12243	-.13163	1.4910	2.1800	16.683	.00908
#2	.11838	-.41022	1.5343	-1.1751	18.131	.00345
#3	.12144	.07628	.66751	1.4581	18.605	.01088

Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit		45.000				
Low Limit		-.10000				

Approved: July 31, 2012



Sample Name: L1207083407 Acquired: 7/30/2012 15:32:02 Type: Unk
 Method: ICP-THERMO2_6010_200.7(v2005) Mode: CONC Corr. Factor: 1.000000
 User: KHR Custom ID1: Custom ID2: Custom ID3:
 Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.5259	.01607	.00045	7.8033	.00192	347.08
Stddev	.0864	.00108	.00030	.3583	.00002	11.56
%RSD	5.6643	6.7164	65.999	4.5911	1.1961	3.3318

#1	1.4273	.01511	.00025	7.4030	.00192	333.86
#2	1.5614	.01587	.00032	7.9129	.00195	355.33
#3	1.5889	.01724	.00080	8.0939	.00190	352.04

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Pb2203	Rb7800	S_1807	S_1820	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00147	.70378	F 21207.	F -2163e3	.00329	-.00257
Stddev	.00104	9.5836	254.	57159.	.00265	.00282
%RSD	71.052	1361.7	1.1987	2.6432	80.470	109.74

#1	.00214	-9.1977	21207.	-2124e3	.00573	-.00228
#2	.00027	1.3748	21461.	-2228e3	.00048	.00009
#3	.00199	9.9343	20953.	-2135e3	.00366	-.00551

Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Fail	Chk Pass	Chk Pass
High Limit			9.0000	9.0000		
Low Limit			-.00400	-.00400		

Elem	Si2124	Sn1899	Sr4077	Ti3372	Ti1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	4.1679	-.00049	.08973	.01100	.00174	.00323
Stddev	.0293	.00019	.00491	.00288	.00126	.00017
%RSD	.70234	39.471	5.4677	26.235	72.409	5.2440

#1	4.1524	-.00029	.08416	.00832	.00311	.00336
#2	4.2017	-.00051	.09161	.01405	.00062	.00328
#3	4.1497	-.00068	.09341	.01062	.00150	.00304

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Approved: July 31, 2012



Sample Name: L1207083407 Acquired: 7/30/2012 15:32:02 Type: Unk
 Method: ICP-THERMO2_6010_200.7(v2005) Mode: CONC Corr. Factor: 1.000000
 User: KHR Custom ID1: Custom ID2: Custom ID3:
 Comment:

Elem	Zn2062	Zr3391
Units	ppm	ppm
Avg	.00248	.10168
Stddev	.00004	.46104
%RSD	1.6659	453.43


#1	.00253	.59429
#2	.00249	-.31944
#3	.00244	.03019

Check ?	Chk Pass	Chk Pass
High Limit		
Low Limit		

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	31039.	17046.
Stddev	146.	926.
%RSD	.46938	5.4349

#1	31162.	17931.
#2	30878.	17124.
#3	31076.	16083.

Approved: July 31, 2012



Sample Name: L1207083408 Acquired: 7/30/2012 15:35:28 Type: Unk
 Method: ICP-THERMO2_6010_200.7(v2005) Mode: CONC Corr. Factor: 1.000000
 User: KHR Custom ID1: Custom ID2: Custom ID3:
 Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-0.0016	.10466	.00195	.13792	.01912	.00004	15.263
Stddev	.00106	.09304	.00132	.00298	.00147	.00003	1.280
%RSD	668.94	88.890	67.445	2.1632	7.7150	73.829	8.3855

#1	-0.0120	.02074	.00276	.14121	.01755	.00002	13.803
#2	.00091	.20471	.00267	.13714	.01931	.00007	15.795
#3	-0.0018	.08855	.00043	.13540	.02048	.00003	16.191

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	Hf2322	Hf2641
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-0.0001	.00037	-0.0012	.00170	3.5529	.04101	F -4.2673
Stddev	.00017	.00020	.00007	.00061	.2948	.00357	.14948
%RSD	1416.9	54.686	57.253	35.813	8.2977	8.7074	35.028

#1	-0.0019	.00028	-0.0020	.00158	3.2144	.03689	-5.0961
#2	.00001	.00023	-0.0009	.00116	3.6911	.04302	-5.1641
#3	.00015	.00060	-0.0007	.00236	3.7532	.04313	-2.5418

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit							45.000
Low Limit							-1.0000

Elem	Hf2773	Hf3399	K_7664	Li6707	Mg2790	Mn2576	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.1050	1.1107	1.2635	.00570	.55554	.01493	.00061
Stddev	.5340	.1538	.1479	.00179	.05784	.00049	.00012
%RSD	48.324	13.842	11.707	31.369	10.412	3.3040	20.376

#1	.81470	.93683	1.1122	.00768	.49417	.01436	.00049
#2	1.7213	1.2287	1.2707	.00421	.60906	.01520	.00074
#3	.77909	1.1666	1.4077	.00521	.56337	.01523	.00060

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: July 31, 2012



Sample Name: L1207083408 Acquired: 7/30/2012 15:35:28 Type: Unk
 Method: ICP-THERMO2_6010_200.7(v2005) Mode: CONC Corr. Factor: 1.000000
 User: KHR Custom ID1: Custom ID2: Custom ID3:
 Comment:

Elem	Na5895	Ni2316	P_2149	Pb2203	Rb7800	S_1807	S_1820
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	9.8126	.00164	263.99	.00156	F 18.141	F 109.13	F -8501.5
Stddev	.7931	.00054	8.36	.00122	17.138	.62	5.8
%RSD	8.0823	33.258	3.1667	77.963	94.472	.56898	.06773

#1	8.9063	.00101	272.34	.00210	2.7686	108.53	-8503.6
#2	10.152	.00193	255.62	.00017	15.034	109.77	-8495.0
#3	10.379	.00197	264.01	.00242	36.619	109.08	-8506.0

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Fail	Chk Fail
High Limit					9.0000	9.0000	9.0000
Low Limit					-0.00400	-0.00400	-0.00400

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3372	Tl1908
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00383	-.00303	1.5275	.00018	.01755	.00115	.00198
Stddev	.00214	.00530	.0071	.00018	.00163	.00379	.00212
%RSD	55.979	175.11	.46345	100.55	9.2625	328.91	107.21

#1	.00630	.00225	1.5245	.00000	.01570	-.00322	.00027
#2	.00274	-.00298	1.5224	.00035	.01821	.00352	.00435
#3	.00245	-.00835	1.5355	.00018	.01875	.00316	.00131

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm
Avg	.00756	.01114	F -.59431
Stddev	.00041	.00002	.23864
%RSD	5.3767	.19192	40.153

#1	.00737	.01112	-.80946
#2	.00803	.01114	-.33764
#3	.00729	.01116	-.63584

Check ?	Chk Pass	Chk Pass	Chk Fail
High Limit			45.000
Low Limit			-0.00400

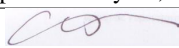
Approved: July 31, 2012



Sample Name: L1207083408 Acquired: 7/30/2012 15:35:28 Type: Unk
Method: ICP-THERMO2_6010_200.7(v2005) Mode: CONC Corr. Factor: 1.000000
User: KHR Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	30929.	16489.
Stddev	41.	626.
%RSD	.13153	3.7936
#1	30948.	17207.
#2	30957.	16203.
#3	30883.	16058.

Approved: July 31, 2012



Sample Name: L1207083409 Acquired: 7/30/2012 15:38:34 Type: Unk
 Method: ICP-THERMO2_6010_200.7(v2005) Mode: CONC Corr. Factor: 1.000000
 User: KHR Custom ID1: Custom ID2: Custom ID3:
 Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.00040	.06871	.00053	.03355	.04108	.00008	1.4085
Stddev	.00086	.05988	.00191	.00159	.00460	.00002	.1111
%RSD	217.74	87.149	357.91	4.7422	11.201	31.670	7.8848

#1	-.00125	.07609	.00274	.03403	.03577	.00006	1.2832
#2	.00047	.12455	-.00052	.03178	.04379	.00006	1.4476
#3	-.00041	.00548	-.00062	.03486	.04368	.00010	1.4948

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	Hf2322	Hf2641
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00011	.00041	-.00020	-.00051	2.8566	.02772	.25882
Stddev	.00017	.00029	.00048	.00071	.2783	.00255	.16885
%RSD	159.37	70.391	237.25	140.08	9.7409	9.2135	65.238

#1	-.00008	.00013	-.00044	.00009	2.5375	.02494	.26013
#2	.00027	.00040	.00035	-.00033	2.9832	.02824	.42701
#3	.00013	.00070	-.00051	-.00129	3.0490	.02997	.08932

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Hf2773	Hf3399	K_7664	Li6707	Mg2790	Mn2576	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.24643	.79369	2.2423	.00992	.49633	.01035	.00017
Stddev	.57570	1.3074	.1235	.00297	.07769	.00049	.00045
%RSD	233.62	164.73	5.5081	29.990	15.654	4.6847	260.43

#1	.66429	.22045	2.1117	.00653	.41215	.00982	.00005
#2	.48523	-.12918	2.2579	.01114	.56528	.01049	-.00020
#3	-.41025	2.2898	2.3572	.01209	.51155	.01076	.00067

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: July 31, 2012



Sample Name: L1207083409 Acquired: 7/30/2012 15:38:34 Type: Unk
 Method: ICP-THERMO2_6010_200.7(v2005) Mode: CONC Corr. Factor: 1.000000
 User: KHR Custom ID1: Custom ID2: Custom ID3:
 Comment:

Elem	Na5895	Ni2316	P_2149	Pb2203	Rb7800	S_1807	S_1820
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	6.3461	.00156	38.647	-.00005	F 21.771	F 48.296	F -4338.9
Stddev	.5411	.00044	21.232	.00105	13.008	.366	16.8
%RSD	8.5259	28.391	54.938	2054.8	59.750	.75732	.38757

#1	5.7274	.00190	62.903	-.00105	9.0748	48.704	-4357.5
#2	6.5800	.00171	23.430	.00105	21.168	48.188	-4334.4
#3	6.7308	.00106	29.608	-.00015	35.070	47.996	-4324.7

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Fail	Chk Fail
High Limit					9.0000	9.0000	9.0000
Low Limit					-.00400	-.00400	-.00400

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3372	Tl1908
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.00079	-.00056	4.0919	-.00042	.00995	-.00006	.00119
Stddev	.00592	.00272	.0342	.00032	.00107	.00179	.00142
%RSD	754.15	489.89	.83547	77.912	10.750	2832.8	118.48

#1	.00169	-.00157	4.1300	-.00026	.00872	.00020	.00261
#2	.00349	.00253	4.0816	-.00079	.01061	-.00197	-.00022
#3	-.00754	-.00262	4.0640	-.00020	.01054	.00159	.00119

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm
Avg	.00173	.03992	F -.55163
Stddev	.00036	.00017	.20755
%RSD	20.615	.43671	37.624

#1	.00213	.04009	-.71590
#2	.00159	.03975	-.62063
#3	.00146	.03993	-.31838

Check ?	Chk Pass	Chk Pass	Chk Fail
High Limit			45.000
Low Limit			-.00400

Approved: July 31, 2012



Sample Name: L1207083409 Acquired: 7/30/2012 15:38:34 Type: Unk
Method: ICP-THERMO2_6010_200.7(v2005) Mode: CONC Corr. Factor: 1.000000
User: KHR Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	31187.	16455.
Stddev	75.	662.
%RSD	.24082	4.0251
#1	31265.	17207.
#2	31115.	16201.
#3	31180.	15958.

Approved: July 31, 2012



Sample Name: L1207083410 Acquired: 7/30/2012 15:41:39 Type: Unk
 Method: ICP-THERMO2_6010_200.7(v2005) Mode: CONC Corr. Factor: 1.000000
 User: KHR Custom ID1: Custom ID2: Custom ID3:
 Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-0.0053	.06410	.00085	.03217	.04002	.00009	1.6574
Stddev	.00007	.01783	.00176	.00142	.00373	.00001	.1283
%RSD	12.491	27.821	206.40	4.4149	9.3242	13.569	7.7398

#1	-0.0057	.04680	.00229	.03379	.03571	.00010	1.5115
#2	-0.0046	.06307	.00137	.03115	.04199	.00010	1.7081
#3	-0.0057	.08242	-0.0111	.03157	.04235	.00008	1.7525

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	Hf2322	Hf2641
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-0.0015	.00028	-0.0031	.00090	2.5507	.03007	F -.16036
Stddev	.00017	.00009	.00020	.00082	.1910	.00187	.58861
%RSD	112.87	32.073	62.768	91.160	7.4894	6.2206	367.06

#1	-0.0028	.00019	-0.0050	.00156	2.3330	.02864	.47416
#2	.00004	.00037	-0.0032	.00116	2.6282	.03219	-6.8856
#3	-0.0020	.00028	-0.0011	-0.0002	2.6907	.02938	-2.6667

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit							45.000
Low Limit							-1.0000

Elem	Hf2773	Hf3399	K_7664	Li6707	Mg2790	Mn2576	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.21554	.21412	2.1445	.00753	.42657	.00884	.00012
Stddev	.36482	1.1554	.0696	.00630	.05107	.00030	.00026
%RSD	169.25	539.60	3.2441	83.739	11.973	3.4463	218.39

#1	-0.05735	1.5368	2.0689	.01331	.36759	.00854	.00032
#2	.62991	-5.9838	2.2058	.00081	.45613	.00884	.00022
#3	.07407	-2.9604	2.1589	.00846	.45597	.00915	-0.0018

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: July 31, 2012



Sample Name: L1207083410 Acquired: 7/30/2012 15:41:39 Type: Unk
 Method: ICP-THERMO2_6010_200.7(v2005) Mode: CONC Corr. Factor: 1.000000
 User: KHR Custom ID1: Custom ID2: Custom ID3:
 Comment:

Elem	Na5895	Ni2316	P_2149	Pb2203	Rb7800	S_1807	S_1820
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	6.6905	.00076	48.394	.00182	F 22.458	F 55.092	F -4994.0
Stddev	.4891	.00053	11.274	.00140	5.953	.298	16.8
%RSD	7.3102	69.229	23.296	76.887	26.506	.54042	.33551

#1	6.1347	.00131	56.088	.00238	20.318	55.034	-4977.8
#2	6.8815	.00025	35.452	.00284	17.872	54.827	-4993.1
#3	7.0553	.00074	53.641	.00023	29.186	55.414	-5011.3

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Fail	Chk Fail
High Limit					9.0000	9.0000	9.0000
Low Limit					-0.00400	-0.00400	-0.00400

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3372	Tl1908
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00106	-.00102	3.9485	-.00053	.00916	-.00079	-.00007
Stddev	.00283	.00222	.0295	.00055	.00093	.00153	.00040
%RSD	267.42	217.46	.74773	105.43	10.131	194.16	616.25

#1	-.00219	-.00083	3.9630	-.00054	.00822	.00017	.00000
#2	.00297	-.00333	3.9145	.00003	.00918	-.00255	-.00050
#3	.00240	.00110	3.9680	-.00107	.01008	.00002	.00030

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm
Avg	.00117	.07474	.24554
Stddev	.00011	.00040	.38053
%RSD	8.9710	.53349	154.97

#1	.00118	.07434	.59130
#2	.00107	.07474	-.16215
#3	.00128	.07514	.30748

Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

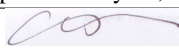
Approved: July 31, 2012



Sample Name: L1207083410 Acquired: 7/30/2012 15:41:39 Type: Unk
Method: ICP-THERMO2_6010_200.7(v2005) Mode: CONC Corr. Factor: 1.000000
User: KHR Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	31032.	16586.
Stddev	122.	582.
%RSD	.39203	3.5119
#1	31035.	17215.
#2	31152.	16479.
#3	30909.	16065.

Approved: July 31, 2012



Sample Name: L1207083411 Acquired: 7/30/2012 15:44:45 Type: Unk
 Method: ICP-THERMO2_6010_200.7(v2005) Mode: CONC Corr. Factor: 1.000000
 User: KHR Custom ID1: Custom ID2: Custom ID3:
 Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.00087	.25380	.00360	.04307	.02395	.00003	4.7912
Stddev	.00120	.01620	.00287	.00175	.00213	.00003	.3967
%RSD	137.75	6.3825	79.780	4.0675	8.9039	120.10	8.2808

#1	-.00018	.24035	.00414	.04445	.02149	.00006	4.3358
#2	-.00226	.27178	.00616	.04366	.02523	.00002	4.9761
#3	-.00017	.24926	.00050	.04110	.02514	.00000	5.0618

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	Hf2322	Hf2641
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00004	.00111	.00000	.00101	4.3843	.05406	.67095
Stddev	.00011	.00033	.0005	.00055	.3694	.01297	.29500
%RSD	276.56	29.485	10772.	54.596	8.4262	23.992	43.967

#1	.00004	.00129	-.00011	.00113	3.9674	.04224	.95632
#2	.00014	.00131	-.00041	.00041	4.5146	.05200	.68936
#3	-.00007	.00073	.00051	.00150	4.6709	.06793	.36718

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Hf2773	Hf3399	K_7664	Li6707	Mg2790	Mn2576	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.64096	1.8860	1.0499	.00504	1.3095	.03462	-.00002
Stddev	.55675	.3875	.1298	.00014	.1121	.00135	.00003
%RSD	86.863	20.545	12.362	2.8559	8.5609	3.9104	147.33

#1	.06467	2.2754	.90008	.00514	1.1808	.03312	.00001
#2	1.1759	1.8821	1.1277	.00511	1.3858	.03498	-.00001
#3	.68232	1.5005	1.1219	.00487	1.3621	.03576	-.00005

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: July 31, 2012



Sample Name: L1207083411 Acquired: 7/30/2012 15:44:45 Type: Unk
 Method: ICP-THERMO2_6010_200.7(v2005) Mode: CONC Corr. Factor: 1.000000
 User: KHR Custom ID1: Custom ID2: Custom ID3:
 Comment:

Elem	Na5895	Ni2316	P_2149	Pb2203	Rb7800	S_1807	S_1820
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	9.6540	.00090	66.281	.00202	F 21.339	F 54.432	F -4537.4
Stddev	.7920	.00045	1.003	.00131	21.073	.373	21.6
%RSD	8.2040	50.126	1.5140	64.602	98.757	.68588	.47577

#1	8.7512	.00142	65.573	.00214	-.50021	54.863	-4562.0
#2	9.9785	.00069	65.842	.00066	22.964	54.229	-4528.6
#3	10.232	.00060	67.430	.00326	41.552	54.205	-4521.5

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Fail	Chk Fail
High Limit					9.0000	9.0000	9.0000
Low Limit					-.00400	-.00400	-.00400

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3372	Tl1908
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00071	-.00016	3.8780	-.00043	.02681	.00010	.00169
Stddev	.00254	.00333	.0323	.00019	.00216	.00071	.00116
%RSD	357.25	2054.3	.83202	44.335	8.0396	684.10	68.794

#1	-.00176	-.00099	3.9147	-.00061	.02432	.00074	.00039
#2	.00059	-.00301	3.8539	-.00044	.02807	-.00066	.00205
#3	.00331	.00350	3.8655	-.00023	.02804	.00023	.00262

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm
Avg	.00282	.00579	F -.35829
Stddev	.00021	.00004	.72991
%RSD	7.3737	.73826	203.72

#1	.00260	.00583	.22814
#2	.00286	.00575	-.12726
#3	.00301	.00581	-1.1758

Check ?	Chk Pass	Chk Pass	Chk Fail
High Limit			45.000
Low Limit			-.00400

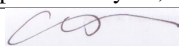
Approved: July 31, 2012



Sample Name: L1207083411 Acquired: 7/30/2012 15:44:45 Type: Unk
Method: ICP-THERMO2_6010_200.7(v2005) Mode: CONC Corr. Factor: 1.000000
User: KHR Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	30943.	16386.
Stddev	162.	669.
%RSD	.52288	4.0804
#1	30892.	17124.
#2	30814.	16214.
#3	31125.	15821.

Approved: July 31, 2012



Sample Name: L1207083412 Acquired: 7/30/2012 15:47:51 Type: Unk
 Method: ICP-THERMO2_6010_200.7(v2005) Mode: CONC Corr. Factor: 1.000000
 User: KHR Custom ID1: Custom ID2: Custom ID3:
 Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.00105	.13584	.00151	.04176	.02272	.00003	6.4129
Stddev	.00116	.01630	.00066	.00125	.00163	.00002	.4892
%RSD	110.78	11.999	43.975	2.9921	7.1603	57.745	7.6279

#1	-.00187	.11868	.00085	.04310	.02097	.00004	5.8527
#2	-.00155	.13773	.00218	.04157	.02300	.00005	6.6300
#3	.00028	.15112	.00149	.04063	.02419	.00001	6.7559

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	Hf2322	Hf2641
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00013	.00088	.00005	-.00064	3.9075	.05728	.08836
Stddev	.00013	.00016	.00068	.00060	.3210	.00405	.32633
%RSD	99.000	18.319	1365.7	94.829	8.2145	7.0631	369.31

#1	.00021	.00107	-.00061	-.00014	3.5441	.06191	.45264
#2	.00019	.00083	.00074	-.00131	4.0260	.05443	-.01032
#3	-.00002	.00076	.00002	-.00046	4.1524	.05551	-.17723

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Hf2773	Hf3399	K_7664	Li6707	Mg2790	Mn2576	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.25805	1.2639	1.2434	.00234	1.3596	.03214	-.00006
Stddev	.11676	.7736	.1018	.00681	.1113	.00127	.00009
%RSD	45.248	61.207	8.1848	290.28	8.1865	3.9365	148.99

#1	.12432	.37278	1.1328	-.00365	1.2316	.03068	-.00008
#2	.31009	1.7630	1.2644	.00974	1.4142	.03282	-.00015
#3	.33975	1.6560	1.3331	.00095	1.4331	.03292	.00004

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: July 31, 2012



Sample Name: L1207083412 Acquired: 7/30/2012 15:47:51 Type: Unk
 Method: ICP-THERMO2_6010_200.7(v2005) Mode: CONC Corr. Factor: 1.000000
 User: KHR Custom ID1: Custom ID2: Custom ID3:
 Comment:

Elem	Na5895	Ni2316	P_2149	Pb2203	Rb7800	S_1807	S_1820
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	9.5232	.00099	48.667	.00177	F 24.111	F 58.008	F -4750.3
Stddev	.7190	.00072	16.136	.00079	11.659	.565	13.4
%RSD	7.5496	72.590	33.157	44.935	48.358	.97450	.28301

#1	8.7092	.00181	64.782	.00153	16.476	58.340	-4749.6
#2	9.7890	.00051	32.509	.00112	18.324	57.355	-4737.2
#3	10.071	.00064	48.710	.00265	37.532	58.329	-4764.1

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Fail	Chk Fail
High Limit					9.0000	9.0000	9.0000
Low Limit					-0.00400	-0.00400	-0.00400

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3372	Tl1908
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00191	-.00203	3.5915	-.00020	.03133	.00117	.00019
Stddev	.00601	.00257	.0208	.00041	.00251	.00244	.00285
%RSD	314.68	126.35	.57985	203.20	8.0219	207.96	1528.1

#1	.00210	-.00186	3.5980	.00025	.02844	.00315	.00177
#2	.00782	.00044	3.5682	-.00030	.03252	-.00155	-.00310
#3	-.00419	-.00468	3.6084	-.00055	.03302	.00191	.00189

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm
Avg	.00186	.00467	F -.40308
Stddev	.00071	.00016	.49528
%RSD	38.100	3.3924	122.87

#1	.00226	.00480	-.84246
#2	.00104	.00472	.13365
#3	.00227	.00450	-.50043

Check ?	Chk Pass	Chk Pass	Chk Fail
High Limit			45.000
Low Limit			-0.00400

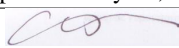
Approved: July 31, 2012



Sample Name: L1207083412 Acquired: 7/30/2012 15:47:51 Type: Unk
Method: ICP-THERMO2_6010_200.7(v2005) Mode: CONC Corr. Factor: 1.000000
User: KHR Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	30999.	16488.
Stddev	69.	612.
%RSD	.22099	3.7112
#1	30931.	17191.
#2	31068.	16197.
#3	31000.	16076.

Approved: July 31, 2012



Sample Name: L1207083413 Acquired: 7/30/2012 15:50:57 Type: Unk
 Method: ICP-THERMO2_6010_200.7(v2005) Mode: CONC Corr. Factor: 1.000000
 User: KHR Custom ID1: Custom ID2: Custom ID3:
 Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-0.0087	.01457	.01747	.01272	.09247	.00016	21.324
Stddev	.00018	.04833	.00172	.00080	.00978	.00002	2.066
%RSD	21.067	331.74	9.8310	6.2806	10.580	14.422	9.6877

#1	-0.0074	.03894	.01770	.01201	.08124	.00015	18.954
#2	-0.0108	-.04110	.01564	.01359	.09702	.00015	22.276
#3	-0.0079	.04587	.01905	.01256	.09915	.00019	22.742

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	Hf2322	Hf2641
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-0.0006	.01191	-0.0006	.00012	10.618	.32387	F -.20153
Stddev	.00009	.00019	.00021	.00102	1.042	.00454	.77314
%RSD	143.77	1.5781	349.58	835.83	9.8127	1.4011	383.64

#1	-0.0016	.01208	.00016	.00108	9.4277	.32749	.68343
#2	-0.0003	.01171	-.00026	.00023	11.061	.31878	-.74587
#3	.00001	.01193	-.00008	-.00095	11.365	.32534	-.54215

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit							45.000
Low Limit							-10000

Elem	Hf2773	Hf3399	K_7664	Li6707	Mg2790	Mn2576	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.29945	.17276	1.2626	.00902	4.8745	.53169	-.00010
Stddev	.75458	.50306	.1763	.00704	.4600	.02688	.00025
%RSD	251.99	291.19	13.965	77.963	9.4360	5.0552	242.08

#1	1.0892	.10015	1.0628	.01173	4.3554	.50067	-.00013
#2	-4.1423	-.29005	1.3290	.01431	5.0369	.54630	-.00034
#3	.22341	.70819	1.3962	.00104	5.2312	.54809	.00016

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: July 31, 2012



Sample Name: L1207083413 Acquired: 7/30/2012 15:50:57 Type: Unk
 Method: ICP-THERMO2_6010_200.7(v2005) Mode: CONC Corr. Factor: 1.000000
 User: KHR Custom ID1: Custom ID2: Custom ID3:
 Comment:

Elem	Na5895	Ni2316	P_2149	Pb2203	Rb7800	S_1807	S_1820
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	13.869	.00333	74.462	.00145	F 21.060	F 25.675	F -277.48
Stddev	1.317	.00095	4.705	.00131	21.373	.079	1.78
%RSD	9.4950	28.540	6.3182	90.781	101.49	.30917	.64295

#1	12.360	.00290	69.046	.00097	-.93545	25.761	-276.54
#2	14.461	.00268	77.537	.00044	22.365	25.605	-279.54
#3	14.785	.00442	76.803	.00293	41.751	25.660	-276.37

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Fail	Chk Fail
High Limit					9.0000	9.0000	9.0000
Low Limit					-.00400	-.00400	-.00400

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3372	Tl1908
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00042	-.00009	8.7838	.00149	.25353	.00159	.00076
Stddev	.00121	.00285	.0758	.00024	.02584	.00336	.00099
%RSD	287.87	3069.9	.86329	16.037	10.192	211.81	129.15

#1	-.00057	-.00262	8.8711	.00153	.22397	-.00212	.00026
#2	.00177	-.00064	8.7461	.00172	.26482	.00443	.00013
#3	.00007	.00299	8.7342	.00124	.27180	.00246	.00190

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm
Avg	.00071	.01359	F -.66902
Stddev	.00044	.00007	.20190
%RSD	61.586	.49881	30.179

#1	.00040	.01367	-.50894
#2	.00051	.01355	-.89584
#3	.00121	.01356	-.60229

Check ?	Chk Pass	Chk Pass	Chk Fail
High Limit			45.000
Low Limit			-.00400

Approved: July 31, 2012



Sample Name: L1207083413 Acquired: 7/30/2012 15:50:57 Type: Unk
Method: ICP-THERMO2_6010_200.7(v2005) Mode: CONC Corr. Factor: 1.000000
User: KHR Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	30992.	16521.
Stddev	116.	863.
%RSD	.37432	5.2227
#1	30859.	17512.
#2	31055.	16108.
#3	31064.	15941.

Approved: July 31, 2012



Sample Name: L1207083414 Acquired: 7/30/2012 15:54:01 Type: Unk
 Method: ICP-THERMO2_6010_200.7(v2005) Mode: CONC Corr. Factor: 1.000000
 User: KHR Custom ID1: Custom ID2: Custom ID3:
 Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.00116	.11344	.01725	.00960	.07628	.00018	20.670
Stddev	.00044	.00241	.00129	.00207	.00707	.00002	1.633
%RSD	38.035	2.1258	7.5017	21.596	9.2742	10.892	7.9002

#1	-.00141	.11169	.01718	.01119	.06823	.00017	18.793
#2	-.00142	.11619	.01858	.01036	.07911	.00020	21.449
#3	-.00065	.11243	.01600	.00726	.08151	.00017	21.767

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	Hf2322	Hf2641
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.00010	.01067	-.00010	.00050	11.976	.30701	.69822
Stddev	.00008	.00018	.00038	.00047	.975	.00482	.23828
%RSD	76.984	1.6686	380.19	93.997	8.1407	1.5708	34.126

#1	-.00002	.01057	.00025	.00025	10.861	.30562	.81510
#2	-.00012	.01088	-.00005	.00020	12.399	.31238	.42408
#3	-.00017	.01057	-.00050	.00104	12.669	.30304	.85550

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Hf2773	Hf3399	K_7664	Li6707	Mg2790	Mn2576	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F -.21789	F -.31806	1.1336	.01155	4.5909	.51719	.00023
Stddev	.34434	1.1808	.1112	.00188	.3899	.01772	.00017
%RSD	158.04	371.25	9.8121	16.274	8.4924	3.4265	76.266

#1	-.58009	1.0362	1.0561	.01282	4.1527	.49680	.00008
#2	-.17884	-1.1324	1.2610	.00939	4.7204	.52586	.00018
#3	.10527	-.85797	1.0836	.01243	4.8995	.52891	.00042

Check ?	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	45.000	45.000					
Low Limit	-.10000	-.10000					

Approved: July 31, 2012



Sample Name: L1207083414 Acquired: 7/30/2012 15:54:01 Type: Unk
 Method: ICP-THERMO2_6010_200.7(v2005) Mode: CONC Corr. Factor: 1.000000
 User: KHR Custom ID1: Custom ID2: Custom ID3:
 Comment:

Elem	Na5895	Ni2316	P_2149	Pb2203	Rb7800	S_1807	S_1820
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	12.887	.00233	69.372	.00200	F 20.433	F 24.071	F -215.27
Stddev	1.079	.00121	24.592	.00216	15.264	.081	2.76
%RSD	8.3745	52.101	35.449	108.32	74.700	.33703	1.2811

#1	11.650	.00094	65.343	.00446	3.9469	24.133	-215.17
#2	13.378	.00317	95.730	.00038	34.073	24.101	-212.57
#3	13.634	.00289	47.044	.00115	23.279	23.979	-218.08

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Fail	Chk Fail
High Limit					9.0000	9.0000	9.0000
Low Limit					-0.00400	-0.00400	-0.00400

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3372	Tl1908
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00217	-0.00075	9.2158	.00091	.23917	-0.00099	.00093
Stddev	.00037	.00138	.0414	.00031	.01970	.00035	.00029
%RSD	16.938	183.62	.44897	34.208	8.2381	35.198	30.797

#1	.00259	-0.00223	9.2358	.00063	.21651	-0.00085	.00126
#2	.00189	.00050	9.1682	.00086	.24872	-0.00073	.00075
#3	.00203	-0.00052	9.2433	.00125	.25227	-0.00139	.00078

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm
Avg	.00096	.01029	F -.56972
Stddev	.00032	.00006	.30049
%RSD	33.934	.60401	52.743

#1	.00060	.01034	-.47670
#2	.00105	.01030	-.90572
#3	.00123	.01022	-.32674

Check ?	Chk Pass	Chk Pass	Chk Fail
High Limit			45.000
Low Limit			-0.00400


Approved: July 31, 2012



Sample Name: L1207083414 Acquired: 7/30/2012 15:54:01 Type: Unk
Method: ICP-THERMO2_6010_200.7(v2005) Mode: CONC Corr. Factor: 1.000000
User: KHR Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	31098.	16397.
Stddev	137.	535.
%RSD	.44015	3.2612
#1	31203.	17014.
#2	30943.	16068.
#3	31149.	16110.

Approved: July 31, 2012



Sample Name: L1207083415 Acquired: 7/30/2012 15:57:06 Type: Unk
 Method: ICP-THERMO2_6010_200.7(v2005) Mode: CONC Corr. Factor: 1.000000
 User: KHR Custom ID1: Custom ID2: Custom ID3:
 Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.00065	.01977	.02142	.00742	.11990	.00006	39.868
Stddev	.00074	.04278	.00112	.00023	.00782	.00003	2.460
%RSD	113.73	216.36	5.2116	3.0450	6.5210	55.424	6.1710

#1	-.00145	-.00587	.02271	.00732	.11110	.00008	37.115
#2	-.00050	-.00397	.02088	.00768	.12253	.00002	40.638
#3	.00001	.06916	.02068	.00726	.12605	.00008	41.852

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	Hf2322	Hf2641
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.00014	.01811	-.00037	.00117	25.024	.61234	.01751
Stddev	.00011	.00032	.00012	.00100	1.591	.00574	.90666
%RSD	78.476	1.7499	32.907	85.150	6.3573	.93713	5178.2

#1	-.00009	.01777	-.00050	.00226	23.237	.61890	-1.0054
#2	-.00026	.01816	-.00037	.00094	25.550	.60828	.72191
#3	-.00006	.01840	-.00025	.00031	26.285	.60983	.33606

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Hf2773	Hf3399	K_7664	Li6707	Mg2790	Mn2576	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.55417	.07188	2.9618	.01100	9.0325	.85830	.00026
Stddev	.52435	.32804	.2632	.00479	.6483	.02313	.00015
%RSD	94.620	456.38	8.8860	43.532	7.1780	2.6943	58.535

#1	.64693	.43394	2.6579	.01645	8.3232	.83579	.00008
#2	-.01038	-.20556	3.1120	.00749	9.1797	.85712	.00034
#3	1.0259	-.01274	3.1154	.00906	9.5946	.88200	.00036

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: July 31, 2012



Sample Name: L1207083415 Acquired: 7/30/2012 15:57:06 Type: Unk
 Method: ICP-THERMO2_6010_200.7(v2005) Mode: CONC Corr. Factor: 1.000000
 User: KHR Custom ID1: Custom ID2: Custom ID3:
 Comment:

Elem	Na5895	Ni2316	P_2149	Pb2203	Rb7800	S_1807	S_1820
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	23.080	.01469	233.97	.00212	F 24.641	F 46.980	F -510.05
Stddev	1.445	.00099	16.43	.00103	9.991	.221	3.64
%RSD	6.2591	6.7308	7.0232	48.498	40.547	.47145	.71409

#1	21.445	.01576	234.37	.00150	18.119	47.173	-505.88
#2	23.610	.01382	217.34	.00330	19.660	47.028	-512.65
#3	24.185	.01449	250.20	.00155	36.143	46.738	-511.60

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Fail	Chk Fail
High Limit					9.0000	9.0000	9.0000
Low Limit					-0.00400	-0.00400	-0.00400

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3372	Tl1908
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-0.00071	-0.00047	8.4986	-0.00001	.47523	.00034	.00077
Stddev	.00197	.00038	.0345	.00046	.02944	.00628	.00132
%RSD	278.48	80.657	.40617	3376.6	6.1959	1828.6	171.84

#1	-0.00219	-0.00080	8.5240	.00048	.44239	-0.00348	.00034
#2	-0.00147	-0.00056	8.5125	-0.00043	.48403	-0.00308	.00225
#3	.00153	-0.00005	8.4593	-0.00010	.49927	.00760	-0.00028

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm
Avg	.00154	.01130	F -2.2016
Stddev	.00049	.00009	.4650
%RSD	31.828	.75234	21.119

#1	.00137	.01123	-1.6647
#2	.00209	.01139	-2.4727
#3	.00115	.01127	-2.4674

Check ?	Chk Pass	Chk Pass	Chk Fail
High Limit			45.000
Low Limit			-0.00400

Approved: July 31, 2012



Sample Name: L1207083415 Acquired: 7/30/2012 15:57:06 Type: Unk
Method: ICP-THERMO2_6010_200.7(v2005) Mode: CONC Corr. Factor: 1.000000
User: KHR Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	30831.	16335.
Stddev	55.	445.
%RSD	.17790	2.7241
#1	30769.	16819.
#2	30854.	16244.
#3	30872.	15944.

Approved: July 31, 2012



Sample Name: CCV Acquired: 7/30/2012 16:00:22 Type: QC
 Method: ICP-THERMO2_6010_200.7(v2005) Mode: CONC Corr. Factor: 1.000000
 User: KHR Custom ID1: Custom ID2: Custom ID3:
 Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.41483	10.346	.40688	.51852	1.0511	.04991	10.530
Stddev	.00273	.808	.00094	.00084	.0795	.00038	.715
%RSD	.65800	7.8082	.22981	.16281	7.5651	.75892	6.7920

#1	.41793	9.4371	.40781	.51863	.96042	.04985	9.7185
#2	.41281	10.618	.40690	.51763	1.0841	.05031	10.804
#3	.41375	10.982	.40594	.51931	1.1088	.04956	11.068

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	Hf2322	Hf2641
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.05083	.20428	.50618	.51181	4.1048	1.0285	F .56930
Stddev	.00025	.00013	.00378	.00036	.3087	.0057	.11878
%RSD	.49198	.06385	.74586	.07046	7.5212	.55770	20.865

#1	.05098	.20414	.50742	.51195	3.7540	1.0228	.69313
#2	.05054	.20440	.50919	.51140	4.2249	1.0342	.55846
#3	.05097	.20431	.50195	.51209	4.3354	1.0286	.45631

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
Value							1.0000
Range							-10.000%

Elem	Hf2773	Hf3399	K_7664	Li6707	Mg2790	Mn2576	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F .07432	F .63860	53.766	1.0511	10.379	.54738	1.0294
Stddev	.90731	.76350	3.890	.0800	.888	.01664	.0007
%RSD	1220.8	119.56	7.2355	7.6087	8.5572	3.0399	.06892

#1	-.93960	1.5199	49.359	.95948	9.3649	.52834	1.0290
#2	.80973	.17870	55.215	1.0869	10.751	.55460	1.0302
#3	.35285	.21716	56.724	1.1069	11.020	.55918	1.0290

Check ?	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	1.0000	1.0000					
Range	-10.000%	-10.000%					

Approved: July 31, 2012

